MD 185 IS ASSUMED TO RUN IN A NORTH-SOUTH DIRECTION

EXISTING VIDEO DETECTION CAMERAS

a,b,c,d

EXISTING VIDEO DETECTION ZONE

a,b,c,d

EXISTING SIGNS TO BE REMOVED

30a,31a, 32a,33a — R10-4(1) (9"x12")

47 — R10-12 (30"x36")

EXISTING LED SIGNALS TO REMAIN

1,2,9,10, 11,14,15 — 12"

3,4,8,12, 13,16,17 — 12"

5,7 — 12"

PROPOSED LED SIGNALS

6 — 12"

18,19,20,21, 22,23,24,25 — 16" COUNTDOWN PEDESTRIAN SIGNAL

EXISTING SIGNALS TO BE REMOVED

18a,19a,20a,21a, 22a,23a,24a,25a — 12"

PROPOSED SIGNS

26,28 — R10-3(1) (9"x15") W/ APS

27,29 — R10-3(1) (9"x15") W/ APS

30,32 — R10-3(1) (9"x15") W/ APS

31,33 — R10-3(1) (9"x15") W/ APS

36,53,64 — OM1-3 (18"x18")

38,55,66 — W11-2 (36"x36") W16-7pR (24"x12")

EXISTING SIGNS TO REMAIN

37,48,42/44 — D-3(1) (VARIABLEx16") DUAL FACED

54/69,65/59 — D-3(1) (VARIABLEx16") DUAL FACED

60 — W3-3 (36"x36") W16-8P (54"x24")

43,49 — M3-1 (24"x12") M1-5 (30"x24") R8-7(1) (24"x24")

34,50,61 — W11-2 (30"x30") W13-4(1) (36"x24")

39,52,63 — W11-2 (30"x30") W16-7pL (21"x15")

41,57,58,68 — R3-5L (30"x36")

35 — M1-5(6) (30"x48")

40 — M1-5(6) (48"x72")

45 — M1-5(6) (30"x48")

46 — M1-5(6) (48"x72")

51 — M1-5(6) (30"x48")

56 — M1-5(6) (48"x72")

62 — M1-5(6) (30"x48")

67 — M1-5(6) (48"x72")

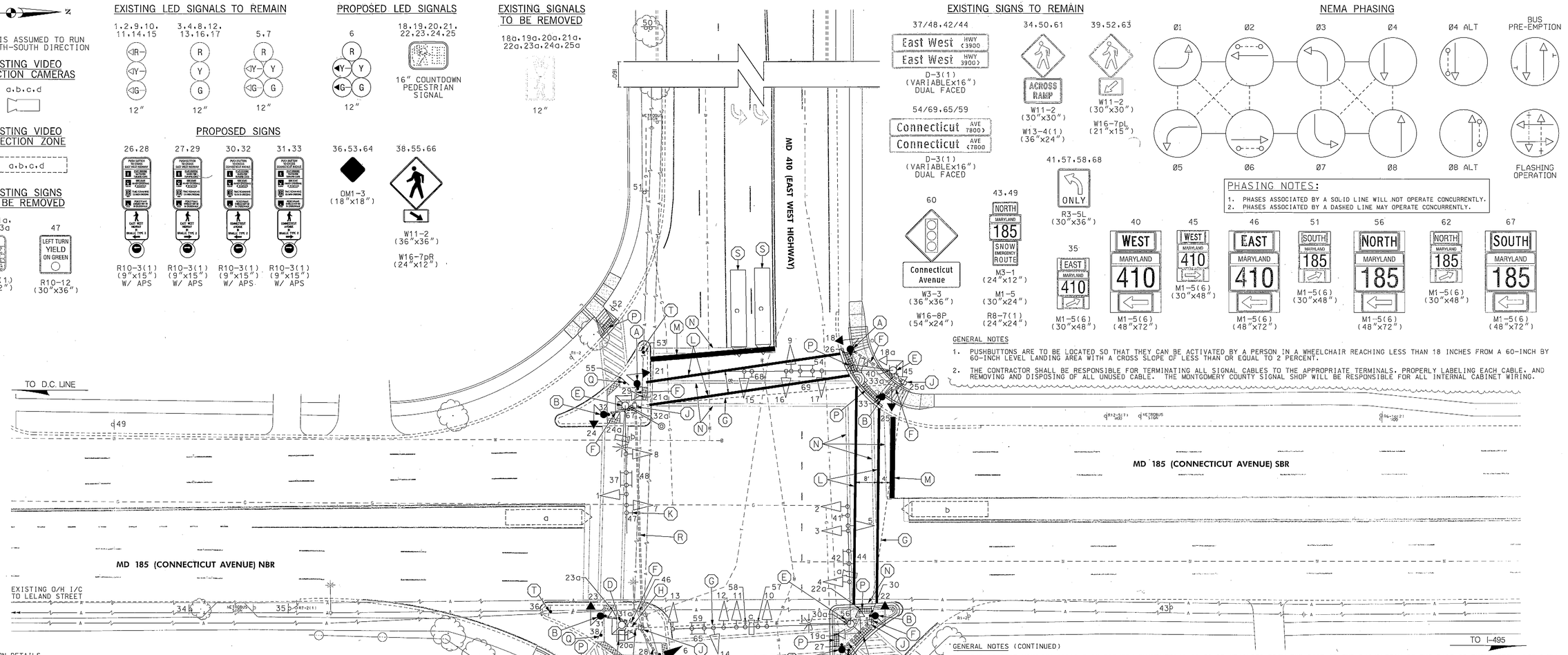
NEMA PHASING

Ø1 Ø2 Ø3 Ø4 Ø4 ALT BUS PRE-EMPTION

Ø5 Ø6 Ø7 Ø8 Ø8 ALT FLASHING OPERATION

PHASING NOTES:

1. PHASES ASSOCIATED BY A SOLID LINE WILL NOT OPERATE CONCURRENTLY.
2. PHASES ASSOCIATED BY A DASHED LINE MAY OPERATE CONCURRENTLY.



GENERAL NOTES

1. PUSHBUTTONS ARE TO BE LOCATED SO THAT THEY CAN BE ACTIVATED BY A PERSON IN A WHEELCHAIR REACHING LESS THAN 18 INCHES FROM A 60-INCH BY 60-INCH LEVEL LANDING AREA WITH A CROSS SLOPE OF LESS THAN OR EQUAL TO 2 PERCENT.
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR TERMINATING ALL SIGNAL CABLES TO THE APPROPRIATE TERMINALS. PROPERLY LABELING EACH CABLE, AND REMOVING AND DISPOSING OF ALL UNUSED CABLE. THE MONTGOMERY COUNTY SIGNAL SHOP WILL BE RESPONSIBLE FOR ALL INTERNAL CABINET WIRING.

CONSTRUCTION DETAILS

A. INSTALL CONCRETE FOUNDATION WITH 10 FT. STEEL PEDESTAL POLE WITH MODIFIED BREAKAWAY BASE (STANDARD NO. MD-801.01-01), LED COUNTDOWN PEDESTRIAN SIGNAL HEAD, AND AUDIBLE/TACTILE PEDESTRIAN PUSHBUTTON WITH R10-3(1) SIGN (TO READ "PUSH BUTTON TO CROSS EAST WEST HIGHWAY") (INSTALL 1-2 IN. SCHEDULE 80, 90 DEGREE PVC ELECTRICAL CONDUIT BEND IN POLE BASE).
B. INSTALL CONCRETE FOUNDATION WITH 10 FT. STEEL PEDESTAL POLE WITH MODIFIED BREAKAWAY BASE (STANDARD NO. MD-801.01-01), LED COUNTDOWN PEDESTRIAN SIGNAL HEAD, AND AUDIBLE/TACTILE PEDESTRIAN PUSHBUTTON WITH R10-3(1) SIGN (TO READ "PUSH BUTTON TO CROSS CONNECTICUT AVENUE") (INSTALL 1-2 IN. SCHEDULE 80, 90 DEGREE PVC ELECTRICAL CONDUIT BEND IN POLE BASE).
C. USE EXISTING BASE MOUNTED CABINET/CONTROLLER. INSTALL APS CENTRAL CONTROL UNIT.
D. REMOVE EXISTING PEDESTAL POLE AND ALL ASSOCIATED EQUIPMENT. REMOVE FOUNDATION 12 IN. BELOW GRADE AND BACKFILL.
E. REMOVE EXISTING PEDESTRIAN SIGNAL HEADS, PUSHBUTTON, PEDESTRIAN SIGN, AND ALL ASSOCIATED ELECTRICAL CABLES.
F. INSTALL 2 IN. SCHEDULE 80 PVC ELECTRICAL CONDUIT - TRENCHED.
G. USE EXISTING CONDUIT.
H. CAP AND ABANDON EXISTING CONDUIT.
J. USE EXISTING HANDHOLE.
K. REMOVE EXISTING OVERHEAD SIGN.
L. INSTALL 12 IN. WHITE PREFORMED THERMOPLASTIC PAVEMENT MARKING LINE FOR CROSSWALK.
M. INSTALL 24 IN. WHITE PREFORMED THERMOPLASTIC PAVEMENT MARKING LINE FOR STOP LINE.
N. REMOVE EXISTING PAVEMENT MARKINGS.
P. INSTALL MODIFIED SIDEWALK RAMP (SEE SG-02) AND DETECTABLE WARNING SURFACE (STANDARD NO. MD-655.40).
Q. INSTALL GROUND MOUNTED SIGN(S) ON ONE 4"x6" WOOD SUPPORT.
R. INSTALL 4 IN. SCHEDULE 80 PVC ELECTRICAL CONDUIT - SLOTTED.
S. ADJUST EXISTING VIDEO DETECTION ZONE.
T. INSTALL GROUND MOUNTED SIGN(S) ON ONE 4"x4" WOOD SUPPORT.
U. INSTALL 3 IN. SCHEDULE 80 PVC ELECTRICAL CONDUIT - TRENCHED.
V. INSTALL CONCRETE FOUNDATION WITH 14 FT. STEEL PEDESTAL POLE WITH BREAKAWAY BASE, LED TRAFFIC SIGNAL HEAD, LED COUNTDOWN PEDESTRIAN SIGNAL HEAD, AND AUDIBLE/TACTILE PEDESTRIAN PUSHBUTTON WITH R10-3(1) SIGN (TO READ "PUSH BUTTON TO CROSS EAST WEST HIGHWAY") (INSTALL 1-3 IN. SCHEDULE 80, 90 DEGREE PVC ELECTRICAL CONDUIT BEND IN POLE BASE).

GENERAL NOTES (CONTINUED)

3. THE 10-FOOT MINIMUM SEPARATION BETWEEN PUSHBUTTONS IS TO BE MEASURED FROM THE FACE OF THE PUSHBUTTON TO THE FACE OF PUSHBUTTON, NOT FROM CENTER OF POLE TO CENTER OF POLE.
4. THE CONTRACTOR SHALL DELIVER APS PUSHBUTTONS AND THE CENTRAL CONTROL UNIT TO THE MONTGOMERY COUNTY TECHNICAL CENTER, 1283 SEVEN LOCKS ROAD, ROCKVILLE, MD 20854 AT LEAST 3 WEEKS PRIOR TO THE BEGINNING OF WORK. THE CONTRACTOR SHALL ALSO HAVE THE APS MESSAGES PROGRAMMED FROM THE FACTORY AND DELIVER THE APS WAV FILES TO MONTGOMERY COUNTY TECHNICAL CENTER.
5. ALL UNDERGROUND AND OVERHEAD UTILITIES SHOWN ON THESE PLANS ARE SCHEMATIC ONLY AND MAY NOT BE COMPLETE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING MISS UTILITY PRIOR TO THE 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.
6. ALL SIGNAL FOUNDATIONS SHALL BE INSTALLED AT THE FINAL SIDEWALK OR CURB GRADE TO MEET CLEARANCES AS SPECIFIED IN MD 816.01, MD 818.02, AND MD 818.04. THE CONTRACTOR SHALL VERIFY ULTIMATE LOCATIONS AND GRADES PRIOR TO THE INSTALLATION OF ALL SIGNAL EQUIPMENT.
7. ALL EXISTING TRAFFIC EQUIPMENT REMOVED SHALL BECOME THE PROPERTY OF THE SIGNAL CONTRACTOR UPON COMPLETION OF THE NEW SIGNAL.
8. LOCATIONS OF ACCESSIBLE PEDESTRIAN SIGNAL PUSHBUTTONS MUST MEET LOCATION REQUIREMENTS OF MUTCD SECTIONS 4E.08 AND 4E.10 AND FIGURES 4E-3 AND 4E-4 AND THE NCHRP PUBLICATION "ACCESSIBLE PEDESTRIAN SIGNALS: GUIDE TO BEST PRACTICE." IF NOT MET, THE CONTRACTOR IS TO STOP WORK ON PUSHBUTTON LOCATIONS UNTIL A DESIGN WAIVER IS OBTAINED, APPROVED BY THE DIRECTOR, OFFICE OF TRAFFIC AND SAFETY.
9. PUSHBUTTON ARROWS ARE TO BE PARALLEL TO THE CROSSING FOR WHICH THEY ARE INTENDED.
10. THE CONTRACTOR SHALL REPAIR ANY DAMAGE TO ANY SIDEWALKS CAUSED BY THE INSTALLATION OR REMOVAL OF SIGNAL EQUIPMENT.
11. THE CONTRACTOR SHALL NOTIFY MR. KAMUL HAMUD 72 HOURS IN ADVANCE OF INTENDED WORK.
12. ALL PAVEMENT MARKINGS SHALL BE INSTALLED IN ACCORDANCE WITH MSHA STANDARDS.
13. ALL CROSSWALKS SHALL BE CENTERED TO THE PROPOSED SIDEWALK RAMPS.
14. REFER TO DETAIL SHEET SG-02 FOR CURB RAMP DETAILS AND SIGNAL POLE LOCATIONS.
15. THE CONTRACTOR SHALL VERIFY ALL PROPOSED POLE LOCATIONS PRIOR TO INSTALLATION.

McCormick Taylor
Engineers & Planners Since 1946
509 South Exeter Street
4th Floor
Baltimore, Maryland 21202
(410) 662-7400

BY: NJMonaco

GEOMETRIC LEGEND

EXISTING
PROPOSED

UTILITY LEGEND

STORM DRAIN
GAS MAIN
WATER MAIN
SEWER MAIN
ELECTRIC CABLES
AERIAL CABLES
TELEPHONE CABLES
FIBER-OPTIC

0 10 20 40
SCALE: 1" = 20'

APPROVALS

TEAM LEADER
ASST. DIV. CHIEF
DIVISION CHIEF
OFFICE DIRECTOR

ORIGINAL ON FILE

REVISIONS

D	INSTALL APS, CPS, AND ADA COMPLIANT CURB RAMPS	09/29/13 SHA NO. XY2283185 TMS NO. M005	BSH, WLP, CSW
C	ADDED BUS PRE-EMPTION FROM BUS DETECTION AT MD 185 AND LELAND ST.	01/23/08 TMS NO. H805	JAH, DBD, DJD, DJD, WH, TH
B	REPLACE TRAFFIC SIGNALS WITH LED TRAFFIC SIGNALS	01/08/07 TMS NO. I527 SHA NO. BW9286A52	RRZ, MAR, WH, WH/TH

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

MD 185 (CONNECTICUT AVENUE) AT MD 410 (EAST WEST HIGHWAY)

CHEVY CHASE, MARYLAND

TRAFFIC SIGNALIZATION PLAN

SCALE 1" = 20' DATE _____ CONTRACT NO. _____

DESIGNED BY _____ COUNTY MONTGOMERY
DRAWN BY _____ LOGMILE 15018500.38
CHECKED BY _____ T.I.M.S. NO. _____
F.A.P. NO. _____ T.O.D. NO. _____

T.S. NO. 4640D SG-01 OF SG-03 SHEET NO. OF

PLOTTED: Friday, August 09, 2013 AT 01:24 PM
FILE: I:\3212 - TEDD\23 (PB 151) - MD 118, MD 185 Signals\Design\Engineering\PlanSet\MD 185 at MD 410 (TS 4640)\pSG-P001_TS4640D.dgn