DRILL HOLES

BORDER REV: DATE: June 1, 2004

NOTE:
MD 193 IS ASSUMED TO RUN IN AN EAST-WEST DIRECTION

PROPOSED SIGNS

16,22,24,29,31,37 — SI-1 36" x 36" FY/G; W16-7p(L) 24" x 12" FY/G

17,25,30,32,38 — SI-1 36" x 36" FY/G; W16-7p(L) 24" x 12" FY/G

18,26 — R3-3(2) 30" x 30"

21,28 — R4-7 24" x 30"

R10-3(1) 9" x 15" — PUSH BUTTON TO CROSS COLESVILLE ROAD — 40,42

R10-3(1) 9" x 15" — PUSH BUTTON TO CROSS COLESVILLE ROAD — 41,43

COLESVILLE ROAD

R10-3(1) 9" x 15" — PUSH BUTTON TO CROSS UNIVERSITY BLVD — 44,46

R10-3(1) 9" x 15" — PUSH BUTTON TO CROSS UNIVERSITY BLVD — 45,47

UNIVERSITY BLVD

EXISTING SIGNS

23 — REPLACE — W16-7p(L) 24" x 12" FY/G

20 — University BLVD 001 E — D3-1 SINGLE FACE (VAR. X 16")

27 — R3-1 30" x 30"

19 — YIELD TO PEDS — R9-1mod

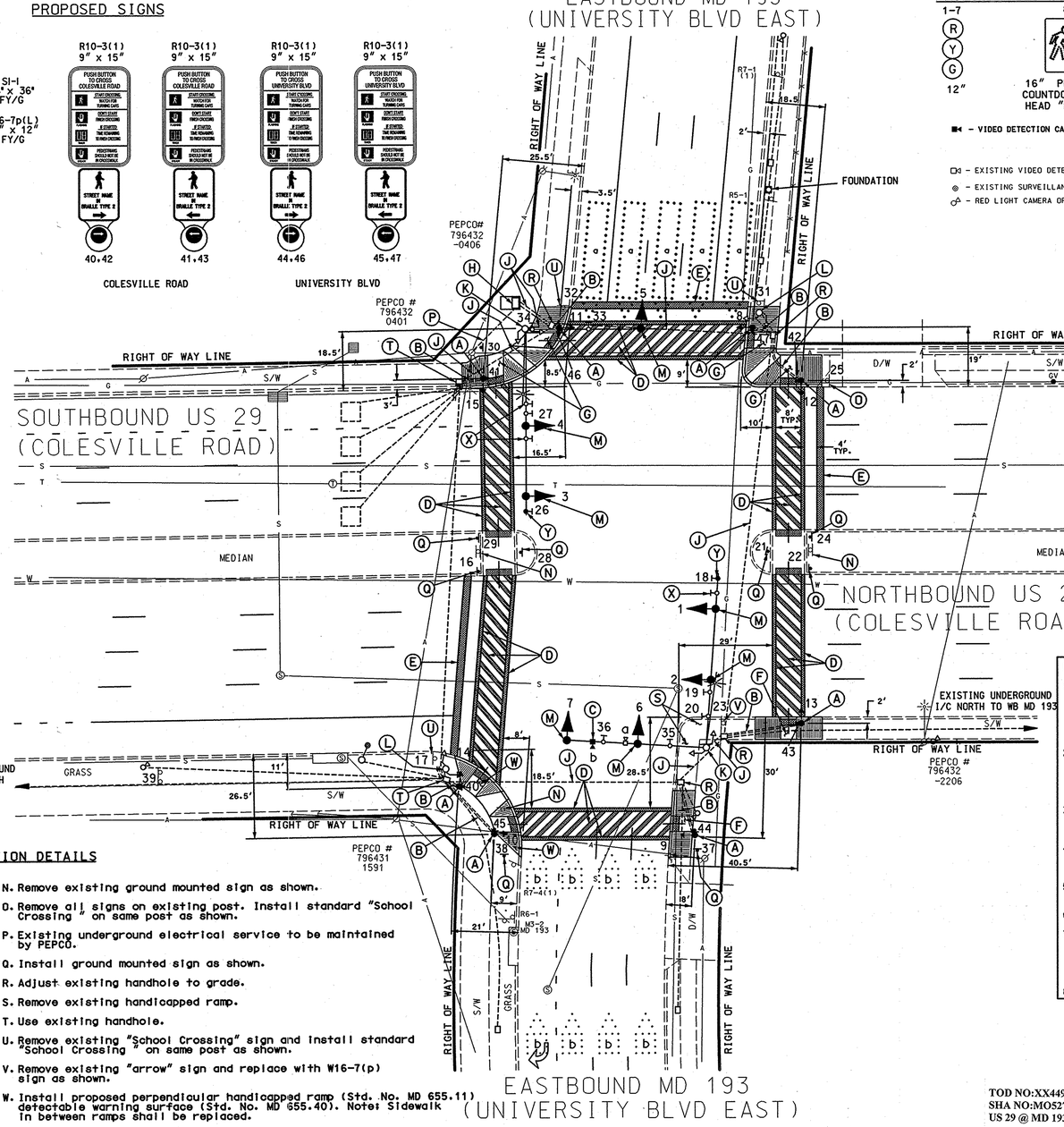
36 — Colesville RD 10100 — D3-1 SINGLE FACE (VAR. X 16")

33 — R3-5R (30" X 36") ONLY

35 — R3-5L (30" X 36") ONLY

34 — EAST INTERSTATE 495 WEST; NORTH US 29 SOUTH — PM-1 (8.5' X 6')

39 — EAST & WEST MARYLAND 193



PROPOSED LED SIGNALS

1-7 — R Y G 12"

8-15 — 16" PEDESTRIAN COUNTDOWN SIGNAL HEAD "LED" TYPE

■◄ - VIDEO DETECTION CAMERA (B)

□◄ - EXISTING VIDEO DETECTION CAMERA (A)

◎ - EXISTING SURVEILLANCE CAMERA

◇◄ - RED LIGHT CAMERA OR FLASH

NEMA PHASING

Ø 2, Ø 4, ALT. Ø 4, Ø 6, PRE-EMPTION #2, 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.

CONSTRUCTION DETAILS

A. Install 10' breakaway pedestal pole, Countdown pedestrian signal head, audible pushbutton and pedestrian education sign as shown. (Note: 1-3", 90° polyvinyl chloride (Schedule 80) bend.)

B. Install 3" polyvinyl chloride electrical conduit (Schedule 80) (trenched).

C. Install video detector camera onto mast arm pole as shown.

D. Install 12" white, heat applied permanent preformed thermoplastic pavement marking (crosswalk). Note: All existing crosswalks shall be removed.

E. Install 24" white, heat applied permanent preformed thermoplastic pavement marking (stopline). Note: All existing stoplines shall be removed.

F. Install proposed parallel handicapped ramp (Std. No. MD 655.12) detectable warning surface (Std. No. MD 655.40).

G. Install proposed parallel handicapped ramp (Std. No. MD 655.12) detectable warning surface (Std. No. MD 655.40). Note: Sidewalk in between ramps shall be replaced.

H. Use existing base mounted cabinet and controller. (Note: Montgomery Forces shall install 2-wire Central Control Unit into cabinet.)

J. Use existing conduit.

K. Remove existing pedestrian signal heads, pushbutton and pedestrian education sign. (Note: Existing pedestrian signal heads shall be returned to SHA signal shop.)

L. Remove existing pedestal pole, signs, pedestrian equipment and foundation 12" below grade and backfill. (Note: Existing pedestrian signal heads shall be returned to SHA signal shop.)

M. Remove existing signal heads and install LED signal heads in same location.

N. Remove existing ground mounted sign as shown.

O. Remove all signs on existing post. Install standard "School Crossing" on same post as shown.

P. Existing underground electrical service to be maintained by PEPCO.

Q. Install ground mounted sign as shown.

R. Adjust existing handhole to grade.

S. Remove existing handicapped ramp.

T. Use existing handhole.

U. Remove existing "School Crossing" sign and install standard "School Crossing" on same post as shown.

V. Remove existing "arrow" sign and replace with W16-7(p) sign as shown.

W. Install proposed perpendicular handicapped ramp (Std. No. MD 655.11) detectable warning surface (Std. No. MD 655.40). Note: Sidewalk in between ramps shall be replaced.

X. Remove existing overhead sign.

Y. Remove existing mast arm sign and install overhead sign in same location as shown.

GENERAL NOTES:

1. All underground utilities shown on these plans 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 the 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 Grade for open sections, to meet clearances as specified in MD 816.03, MD 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 pavement markings detailed are proposed and are to be installed in accordance with SHA standards. All crosswalks shall be centered on handicap ramps or median cut throughs.
4. Pushbuttons are to be located so that they can be activated by a person in a wheelchair reaching less than 18" from a 60"x 60" level landing area with a cross slope of less than or equal to 2%.
5. The 10' separation between pushbuttons is to be measured from face of pushbutton to face of pushbutton, not center to center of pole.
6. Pushbutton arrows are to be parallel to the crossing for which they are intended.
7. Location of Accessible Pedestrian signal pushbuttons must meet location requirements OF MUTCD Sec. 4E.09 and Fig. 4E.2 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.
8. The contractor shall remove all unused wiring.

GEOMETRIC LEGEND
PROPOSED
EXISTING

LEGEND OF UNDERGROUND AND OVERHEAD UTILITIES
AERIAL CABLE — A — A —
ELECTRIC — E — E —
TELEPHONE — T — T —
GAS — G — G —
SEWER — S — S —
WATER — W — W —
CABLE TV — TV — TV —

REVISION "F"

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5568.dgn T-177

TOD NO:XX449-12
SHA NO:MO527A54/C54
US 29 @ MD 193

APPROVALS
TEAM LEADER
ASST. DIV.
DIVISION CHIEF
OFFICE DIRECTOR
ORIGINAL ON FILE

REVISIONS
F 8-7-08 INSTALL APS ALONG EB MD 193 SHA NO.: XX449518S JWA MF
E 8-3-05 INSTALL COUNTDOWN PEDS SHA NO. AT5825185 JWA
D 10-11-04 REPLACE SIGNAL HEADS WITH BLACK FACE AND VIDEO DETECTION CAMERA SHA NO. AT5825185 MD W.M. M.A.R. D.A.Z. B.R.K.

PLOTTED: $DATETIME$
FILE: $FILE$

STATE OF MARYLAND
DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION

US 29 (COLESVILLE ROAD) AND EB MD 193 (UNIVERSITY BOULEVARD EAST)
FOUR CORNERS, MARYLND

TRAFFIC SIGNAL PLAN

SCALE 1"= 20' DATE 9-1995 CONTRACT NO. M425-502-370

DESIGNED BY
DRAWN BY ZAJ
CHECKED BY
F.A.P. NO.
COUNTY MONTGOMERY
LOGMILE 15002902.69
TIMS NO. 1939
TOD NO.

TS NO. 3535F | DRAWING NO. 1 OF 2 | SHEET NO. OF

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