DRILL HOLES

BORDER REV: DATE: June 1, 2004

NOTE: MD 355 IS CONSIDERED TO RUN IN A NORTH-SOUTH DIRECTION.

PROPOSED SIGNS

R10-3(1) 9" x 15" — PUSH BUTTON TO CROSS WISCONSIN AVE. — 28,30
R10-3(1) 9" x 15" — PUSH BUTTON TO CROSS WISCONSIN AVE — 29,31
WISCONSIN AVE

R10-3(1) 9" x 15" — PUSH BUTTON TO CROSS WISCONSIN CIR — 32
R10-3(1) 9" x 15" — PUSH BUTTON TO CROSS WISCONSIN CIR — 33
WISCONSIN CIR

R10-3(1) 9" x 15" — PUSH BUTTON TO CROSS WILLARD AVE. — 34
R10-3(1) 9" x 15" — PUSH BUTTON TO CROSS WILLARD AVE — 35
WILLARD AVE

RELOCATED SIGNS

23 — NO STANDING ANY TIME
24 — RIGHT TURN ON GREEN ARROW ONLY
27

EXISTING SIGNS

25,26 — NO TURN ON RED — R10-11b 24" x 24"

EXISTING SIGNALS

1,2,5,6 — 12"
3,4,7,8, 10,11,13,14 — 12"
12 — 12"

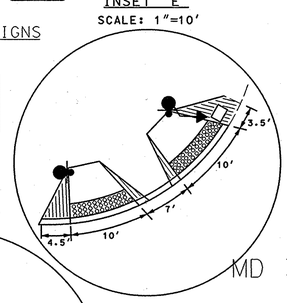
PROPOSED SIGNALS

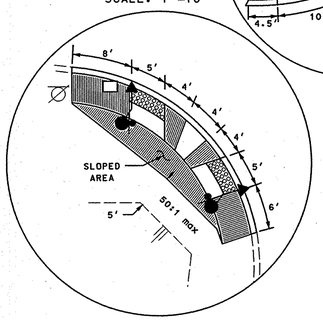
9 — 12"
15-22 — LED 16" COUNTDOWN PEDESTRIAN SIGNAL HEAD

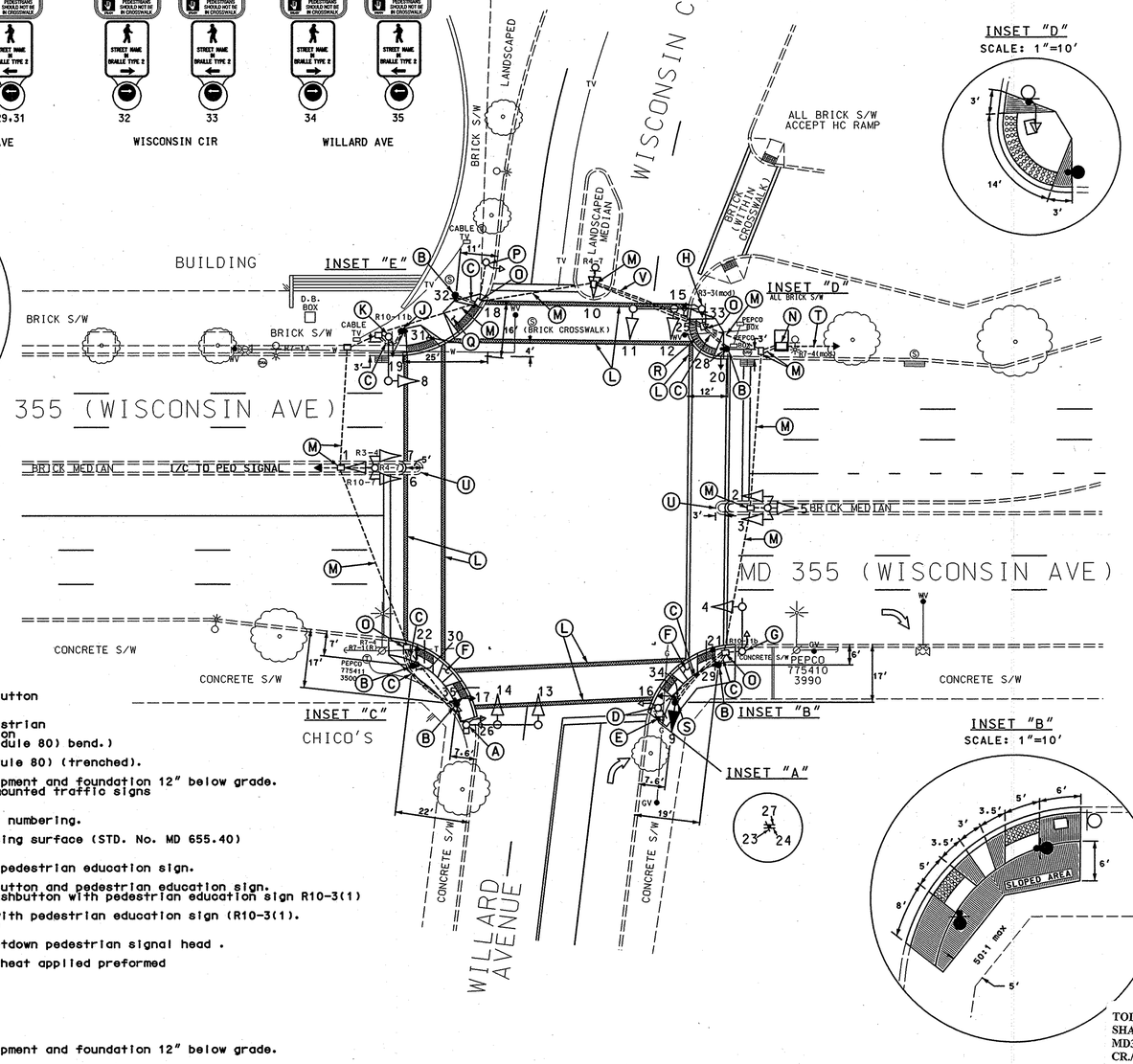
NEMA PHASING

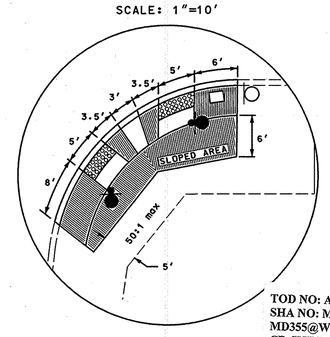
Ø1 Ø2 Ø4
Ø5 Ø6 Ø8

PHASING NOTES:
1.) PHASES ASSOCIATED BY A DASHED LINE WILL OPERATE CONCURRENTLY
2.) PHASES ASSOCIATED BY A SOLID LINE WILL NOT OPERATE CONCURRENTLY
3.) EXISTING PHASING IN EXISTING MONTGOMERY COUNTY CABINET.









CONSTRUCTION DETAILS

A. Remove existing pedestrian signal heads, existing pushbutton and pedestrian education sign
B. Install 10' breakaway pedestal pole with countdown pedestrian signal heads and APS pushbutton with pedestrian education sign R10-3(1). (Note: 1-3" 90° polyvinyl chloride (Schedule 80) bend.)
C. Install 3" polyvinyl chloride electrical conduit (Schedule 80) (trenched).
D. Remove existing pedestal pole, all attached signal equipment and foundation 12" below grade. Cap and abandon existing conduit. (Note: Existing pole mounted traffic signs are to be relocated. See Construction Detail "E").
E. Relocated signs on 4" x 4" wood post. See Inset "A" for numbering.
F. Install parallel handicapped ramps with detectable warning surface (STD. No. MD 655.40) as shown. (Note: See Inset "B" for template.)
G. Remove existing pedestrian signal head, pushbutton and pedestrian education sign.
H. Remove existing pedestrian signal heads, existing pushbutton and pedestrian education sign. Install one Countdown pedestrian signal head and APS pushbutton with pedestrian education sign R10-3(1)
J. Install 5' breakaway pedestal pole and APS pushbutton with pedestrian education sign (R10-3(1). (Note: 1-3" 90° polyvinyl chloride (Schedule 80) bend.)
K. Remove existing pedestrian signal head and install Countdown pedestrian signal head .
L. Remove existing pavement marking and install 12" white heat applied preformed thermoplastic pavement marking.(Crosswalk)
M. Use existing handhole and/or conduit.
N. Use existing cabinet and controller.
O. Adjust existing handhole to grade.
P. Remove existing pedestal pole, all attached signal equipment and foundation 12" below grade. Cap and abandon existing conduit.
Q. Install perpendicular handicapped ramp with detectable warning surface (STD. No. MD 655.40) as shown.
R. Install handicapped ramp with detectable warning surface (STD. No. MD 655.40) as shown (Note: See Inset "D")..
S. Install 20' breakaway pedestal pole with traffic signal heads countdown pedestrian signal heads and APS pushbutton with pedestrian education sign R10-3(1). (Note: 1-3" 90° polyvinyl chloride (Schedule 80) bend.)
T. Existing underground service maintained by PEPCO.
U. Cut back existing median as shown.
V. Install 4" polyvinyl chloride electrical conduit (Schedule 80) (slotted).

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.

TOD NO: AT925-31
SHA NO: MO281A5G/C5G
MD355@WISCONSIN CR./WILLARD

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 "B"

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

REVISIONS
B — 11/5/07 — INSTALL APS & COUNTDOWN PEDS — SHA NO. AT925185 — JWA
A — RELOCATE CONTROLLER TO SOUTH EAST QUADRANT
WTB KASN CPW BRK

PLOTTED: @DATETIME@
FILE: $FILE$

SHA
STATE OF MARYLAND
DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION

MD 355 AND WISCONSIN CIR/ WILLARD AVE

TRAFFIC SIGNAL PLAN

SCALE 1"= 20' DATE 7/29/04 CONTRACT NO.

DESIGNED BY
DRAWN BY WTB
CHECKED BY CT
F.A.P. NO.
COUNTY MONTGOMERY
LOGMILE 15035500.06
TIMS NO. I068
TOD NO.

TS NO. 4348B | DRAWING NO. 1 OF 2 | SHEET NO. OF

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