DRILL HOLES

BORDER REV: DATE: June 1, 2004

EXISTING SIGNS

23 — R3-5L 30" x 36" — TO BE REMOVED

25 — R3-5R 30" x 36"

28 — R3-5a 30" x 36"

26,27 — R3-2 30" x 30" (EXCEPT BUSES)

29 — R3-6R 30" x 36"

22a / 22b — D3-2 (DUAL-FACED) VARIABLE X 16"

21a / 21b — D3-2 (DUAL-FACED) VARIABLE X 16"

30a / 30b — M95-1 / D3-2 (DUAL-FACED) 18" x 60"

24a / 24b — M95-1 / D3-2 (DUAL-FACED) 18" x 60"

PROPOSED SIGNS

R10-4(1) MOD 9" x 15" — 31,33; 32,34; 35; 36; 37; 38

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

PROPOSED SIGNALS

1,2,4, 5,7,8 — 12"

3,6, 10-12 — 12"

9 — 12"

13-20 — LED 16" COUNTDOWN PEDESTRIAN SIGNAL HEAD

NOTE:
ALL SIGNAL HEADS ARE TO BE "L.E.D." TYPE

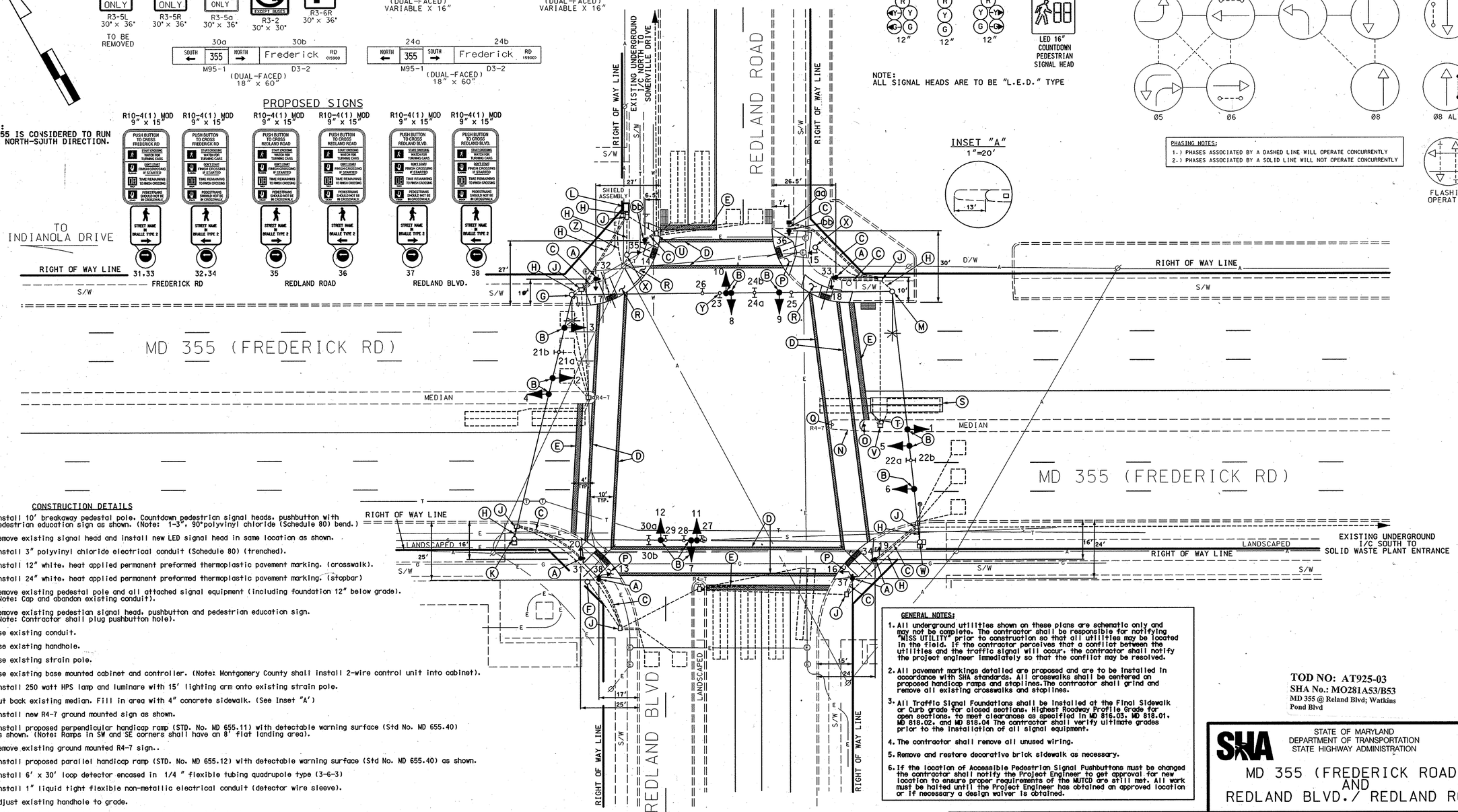
NEMA PHASING

Ø1 Ø2 Ø3 Ø4 Ø4 ALT

Ø5 Ø6 Ø8 Ø8 ALT

PHASING NOTES:
1.) PHASES ASSOCIATED BY A DASHED LINE WILL OPERATE CONCURRENTLY
2.) PHASES ASSOCIATED BY A SOLID LINE WILL NOT OPERATE CONCURRENTLY

FLASHING OPERATION



CONSTRUCTION DETAILS

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

B. Remove existing signal head and install new LED signal head in same location as shown.

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

D. Install 12" white, heat applied permanent preformed thermoplastic pavement marking. (crosswalk).

E. Install 24" white, heat applied permanent preformed thermoplastic pavement marking. (stopbar)

F. Remove existing pedestal pole and all attached signal equipment (including foundation 12" below grade). (Note: Cap and abandon existing conduit).

G. Remove existing pedestian signal head, pushbutton and pedestrian education sign. (Note: Contractor shall plug pushbutton hole).

H. Use existing conduit.

J. Use existing handhole.

K. Use existing strain pole.

L. Use existing base mounted cabinet and controller. (Note: Montgomery County shall install 2-wire control unit into cabinet).

M. Install 250 watt HPS lamp and luminare with 15' lighting arm onto existing strain pole.

N. Cut back existing median. Fill in area with 4" concrete sidewalk. (See Inset "A")

O. Install new R4-7 ground mounted sign as shown.

P. Install proposed perpendicular handicap ramp (STD. No. MD 655.11) with detectable warning surface (Std No. MD 655.40) as shown. (Note: Ramps in SW and SE corners shall have an 8' flat landing area).

Q. Remove existing ground mounted R4-7 sign..

R. Install proposed parallel handicap ramp (STD. No. MD 655.12) with detectable warning surface (Std No. MD 655.40) as shown.

S. Install 6' x 30' loop detector encased in 1/4 " flexible tubing quadrupole type (3-6-3)

T. Install 1" liquid tight flexible non-metallic electrical conduit (detector wire sleeve).

U. Adjust existing handhole to grade.

V. Splice loop wire to existing 2 conductor aluminium shielded cable.

W. Remove existing pedestrian signal head from strain pole.

X. Remove existing pedestrian signal head and pushbutton from pedestal pole. Install Countdown pedestrian signal head.

Y. Remove overhead sign.

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

aa. Install handhole.

bb. Install 5' breakaway pedestal pole. APS, pushbutton with pedestrian education sign as shown. (Note: 1-3", 90° polyvinyl chloride (Schedule 80) bend.)

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 pavement markings detailed are proposed and are to be installed in accordance with SHA standards. All crosswalks shall be centered on proposed handicap ramps and stoplines. The contractor shall grind and remove all existing crosswalks and stoplines.
3. 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.
4. The contractor shall remove all unused wiring.
5. Remove and restore decorative brick sidewalk as necessary.
6. If the location of Accessible Pedestrian Signal Pushbuttons must be changed the contractor shall notify the Project Engineer to get approval for new location to ensure proper requirements of the MUTCD are still met. All work must be halted until the Project Engineer has obtained an approved location or if necessary a design waiver is obtained.

TOD NO: AT925-03
SHA No.: MO281A53/B53
MD 355 @ Reland Blvd; Watkins Pond Blvd

STATE OF MARYLAND
DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION

MD 355 (FREDERICK ROAD) AND REDLAND BLVD./ REDLAND ROAD

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 "C"

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

REVISIONS
C INSTALL APS AND CPS ON ALL LEGS OF LED ALL SIGNAL HEADS. SHA NO.: AT925818 10-31-06
JWA
B ADD E/P LEFT TURN PHASE NB REDLAND BLVD 11-5-04
RRZ
A RECONSTRUCT FOR NEW GEOMETRICS. S.H.A. NO.:BW979M82 5-23-97
JD/FH

PLOTTED: $DATETIME$
FILE: $FILE$

SCALE 1"= 20'	DATE N/A	CONTRACT NO.	
DESIGNED BY N/A		COUNTY MONTGOMERY	
DRAWN BY N/A		LOGMILE 15035511.95	
CHECKED BY		TIMS NO. H645	
F.A.P. NO.		TOD NO.	
TS NO. 3665 C	DRAWING NO. 1 OF 2	SHEET NO. OF	

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