DRILL HOLES

BORDER REV: DATE: June 1, 2004

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

PROPOSED SIGNS

22a,25b — Old Georgetown RD 11700> | 22b,25a — Old Georgetown RD <11700

D3-2 (DUAL-FACED) VARIABLE X 16"

31a,36b — Rockville PIKE <11800 | 31b,36a — Rockville PIKE 11800>

D3-2 (DUAL-FACED) VARIABLE X 16"

EXISTING SIGNS

22 SOUTH MARYLAND 187

23 TO INTERSTATE 495 WEST

24 SOUTH MARYLAND 187

27 NORTH MARYLAND 355 | END MARYLAND 187 | SOUTH MARYLAND 355 — ROCKVILLE / BETHESDA

TO INTERSTATE 270 | TO WEST INTERSTATE 495 EAST

26,32 R4-7 24" x 30"

33 NORTH MARYLAND 355 — ASSOCIATED SHIELD ASSEMBLY 30" x 51"

34 SOUTH MARYLAND 355 — ASSOCIATED SHIELD ASSEMBLY 48" x 75"

PROPOSED SIGNALS

1,2 — 12"

3,4,7, 10,13 — 12"

5,6 — 12"

8,9, 11,12 — 12"

14-21 — LED 16" COUNTDOWN PEDESTRIAN SIGNAL HEAD

■◄ – VIDEO DETECTION CAMERA a-d

NEMA PHASING

Ø1 Ø2 Ø3 Ø4 ALT Ø4

Ø5 Ø6 Ø3 ALT FLASHING OPERATION

PHASING NOTES:

1.) PHASES ASSOCIATED BY A DASHED LINE WILL OPERATE CONCURRENTLY

2.) PHASES ASSOCIATED BY A SOLID LINE WILL NOT OPERATE CONCURRENTLY

R10-3(1) 9" x 15" — PUSH BUTTON TO CROSS ROCKVILLE PIKE — START CROSSING WATCH FOR TURNING CARS — NOW! START FINISH CROSSING IF STARTED — TIME REMAINING TO FINISH CROSSING — PEDESTRIANS SHOULD NOT BE IN CROSSWALK — STREET NAME IN BRAILLE TYPE 2

37 — 35,36,38

MD 355 (ROCKVILLE PIKE)

R10-3(1) 9" x 15" — PUSH BUTTON TO CROSS OLD GEORGETOWN RD

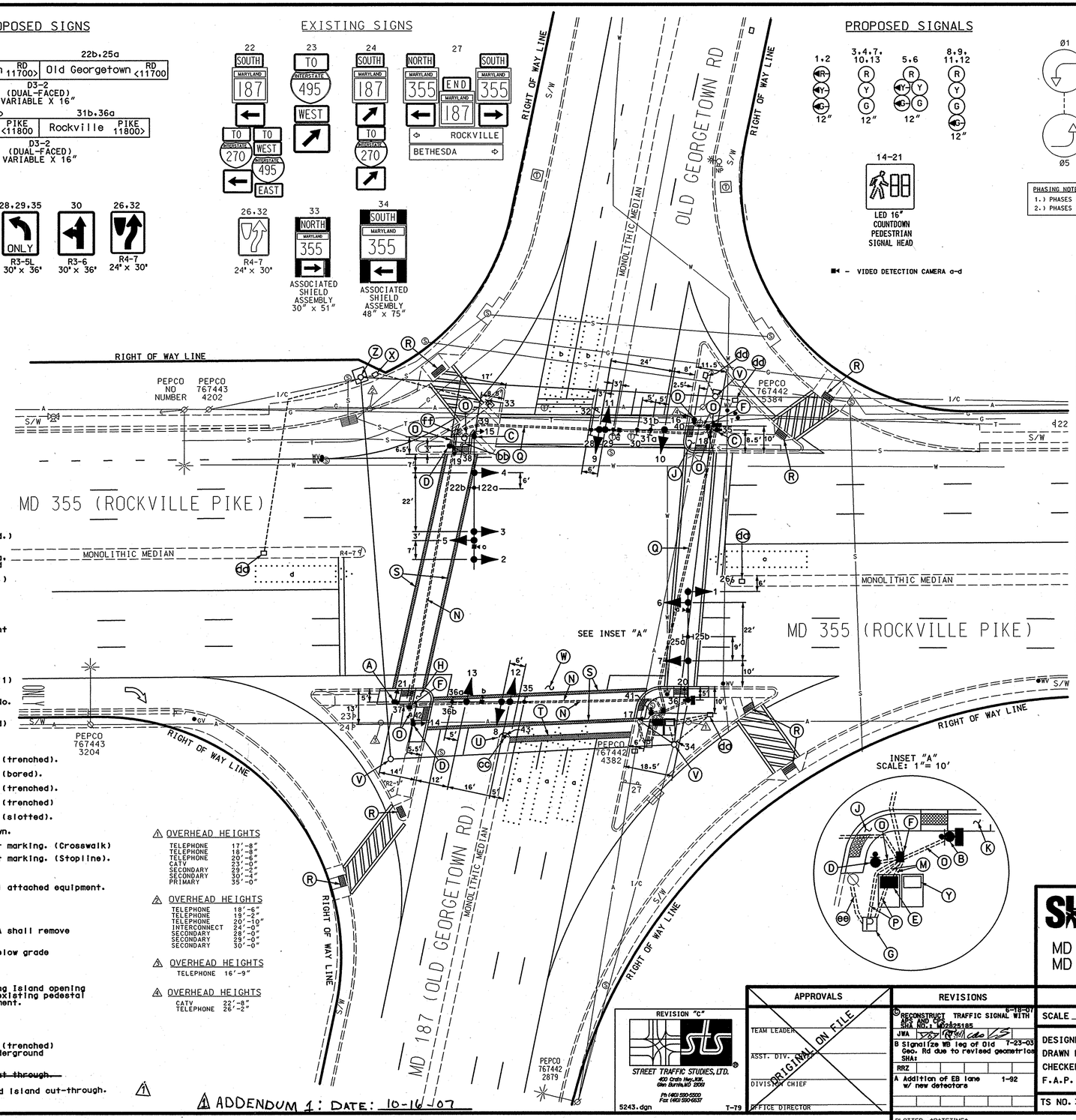
41 — 39,40,42

MD 187 (OLD GEORGETOWN RD)

28,29,35 R3-5L ONLY 30" x 36"

30 R3-6 30" x 36"

26,32 R4-7 24" x 30"



INSET "A" SCALE: 1"= 10'

CONSTRUCTION DETAILS

A. Install steel pole with a special 15' "T" dimension with 50' mast arm, traffic signal heads, signs, video detection camera, countdown pedestrian signal head and APS pushbutton with pedestrian education sign as shown. (Note: 1-3" 90° polyvinyl chloride (Schedule 80) bend.)

B. Install steel pole with a special 15' "T" dimension with 50' (cut to 42) mast arm, traffic signal heads, sign, pole mounted splice cabinet, video detection camera, countdown pedestrian signal head and APS pushbutton with pedestrian education sign as shown. (Note: 1-3" 90° polyvinyl chloride (Schedule 80) bend.)

C. Install steel pole with a special 15' "T" dimension with 50' mast arm, traffic signal heads, signs, video detection camera, pole mounted Size "5" cabinet, countdown pedestrian signal head and APS pushbutton with pedestrian education sign as shown. (Note: 1-3" and 1-4" 90° polyvinyl chloride (Schedule 80) bend.)

D. Install 10' breakaway pedestal pole with countdown pedestrian signal head and APS pushbutton with pedestrian education sign. (Note: 1-3" 90° polyvinyl chloride (Schedule 80) bend.)

E. Install NEMA size "6" base-mounted cabinet and controller with video interface, 2-wire control unit and all necessary equipment as shown.

F. Install handhole.

G. Install metered pedestal.

H. Install proposed perpendicular handicap ramp (STD. No. MD 655.11) with detectable warning surface (STD. No. MD 655.40) as shown.

J. Install depressed curb with detectable warning surfaces (STD. No. MD 655.40) as shown

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

L. Install ~~4"~~ 5" concrete sidewalk as shown. △1

M. Install 4" polyvinyl chloride electrical conduit (Schedule 80) (trenched).

N. Install 4" polyvinyl chloride electrical conduit (Schedule 80) (bored).

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

P. Install 2" polyvinyl chloride electrical conduit (Schedule 80) (trenched)

Q. Install ~~4"~~ polyvinyl chloride electrical conduit (Schedule 80) (slotted).

R. Install detectable warning surface (STD. No. MD 655.40) as shown.

S. Install 12" white heat applied preformed thermoplastic pavement marking. (Crosswalk)

T. Install 24" white heat applied preformed thermoplastic pavement marking. (Stopline).

U. Remove 16' of existing monolithic median as shown.

V. Remove existing strain pole, foundation 12' below grade and all attached equipment.

W. Remove existing stop line and crosswalk pavement markings.

X. Remove existing handhole. Cap and abandon existing conduit.

Y. Remove existing base mounted cabinet and foundation. (Note: SHA shall remove controller and auxilliary equipment).

Z. Remove existing strain pole, brick encasement foundation 12' below grade and all attached equipment.

aa. Use existing handhole.

bb. Install Island Opening (STD. No. MD 655.21) to tie into existing Island opening with detectable warning surfaces (STD. No. MD 655.40). Remove existing pedestal pole, foundation 12' below grade and all attached signal equipment.

cc. Install ground mounted sign as shown.

dd. Abandon existing handhole.

ee. Install 3" polyvinyl chloride electrical conduit (Schedule 80) (trenched) with 50' of ~~3 wire~~ 1 conductor (No. 250 KCMIL) for proposed underground electrical power service by PEPCO to base of utility pole.

~~ff. Contractor shall shift existing handhole lid to avoid island cut through.~~

ff. Contractor shall adjust existing handhole lid to grade to avoid island cut-through. △1

△1 ADDENDUM 1: DATE: 10-16-07

△1 OVERHEAD HEIGHTS

TELEPHONE	17'-8"
TELEPHONE	18'-8"
TELEPHONE	20'-6"
CATV	23'-0"
SECONDARY	28'-2"
SECONDARY	30'-4"
PRIMARY	35'-0"

△2 OVERHEAD HEIGHTS

TELEPHONE	18'-6"
TELEPHONE	19'-2"
TELEPHONE	20'-10"
INTERCONNECT	24'-0"
SECONDARY	28'-0"
SECONDARY	29'-0"
SECONDARY	30'-0"

△3 OVERHEAD HEIGHTS

TELEPHONE	16'-9"

△4 OVERHEAD HEIGHTS

CATV	22'-8"
TELEPHONE	26'-2"

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. Poles are to be located so that they can be activated by a person in a wheelchair from a 60"x 60" level landing area. A level landing area is an area with a cross slope of less than or equal to 2%.

5. 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.

6. Pushbutton is to be located so that a pedestrian in a wheelchair located on the level landing area, does not have to reach more than 18".

7. The 10' separation between pushbuttons is to be measured from face of pushbutton to face of pushbutton.

8. The contractor shall remove all unused wiring.

GEOMETRIC LEGEND

PROPOSED
EXISTING

LEGEND OF UNDERGROUND AND OVERHEAD UTILITIES

AERIAL CABLE — A —
ELECTRIC — E —
TELEPHONE — T —
GAS — G —
SEWER — S —
WATER — W —
CABLE TV — TV —

STATE OF MARYLAND
DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION

MD 355 (ROCKVILLE PIKE) AND MD 187 (OLD GEORGETOWN ROAD)

TRAFFIC SIGNAL PLAN

SCALE 1"= 20' DATE _____ CONTRACT NO. BW-480-802-312

DESIGNED BY _____ COUNTY MONTGOMERY

DRAWN BY MC DOT LOGMILE 15018705.32

CHECKED BY _____ TIMS NO. H998

F.A.P. NO. AC-STPG-000A(241)E TOD NO. _____

TS NO. 3262C | DRAWING NO. 1 OF 3 | SHEET NO. 31 OF 42

APPROVALS

TEAM LEADER
ASST. DIV.
DIVISION CHIEF
OFFICE DIRECTOR

ORIGINAL ON FILE

REVISIONS

C RECONSTRUCT TRAFFIC SIGNAL WITH APS AND PCS 6-19-07
SHA Rev.1 MD28251B5
JWA

B Signalize WB leg of Old Geo. Rd due to revised geometrics 7-23-03
SHA:
RRZ

A Addition of EB lane w/ new detectors 1-92

PLOTTED: @DATETIME@
FILE: @FILE@

REVISION "C"

STREET TRAFFIC STUDIES, LTD.
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Glen Burnie, MD 21061
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