DRILL HOLES

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BORDER REV: DATE: June 1, 2004

NOTE: MD 187 IS CONSIDERED TO RUN IN A NORTH-SOUTH DIRECTION.

PROPOSED SIGNS

22,25 — Old Georgetown Rd (8500>) | Old Georgetown Rd (<8500) — D-3(1) (DUAL-FACED) VARIABLE X 16"

21 — ONLY — R3-5L 30"x 36"

17,18 — Lincoln St — D-3(1) (DUAL-FACED) VARIABLE X 16"

19 — SOUTH / MARYLAND / 187 — M3-3 24"x 12", M1-5 30"x 24", M6-1 21"x 15" — ASSOCIATED SHIELD ASSEMBLY 30" x 51"

20 — NORTH / MARYLAND / 187 — M3-1 30"x 15", M1-5 48"x 36", M6-1 30"x 24" — ASSOCIATED SHIELD ASSEMBLY 48" x 75"

23 — NORTH / MARYLAND / 187 — M3-1 24"x 12", M1-5 30"x 24", M6-1 21"x 15" — ASSOCIATED SHIELD ASSEMBLY 30" x 51"

24 — SOUTH / MARYLAND / 187 — M3-3 30"x 15", M1-5 48"x 36", M6-1 30"x 24" — ASSOCIATED SHIELD ASSEMBLY 48" x 75"

R10-3(1) 9" x 15" — PUSH BUTTON TO CROSS OLD GEORGETOWN ROAD — STREET NAME IN BRAILLE TYPE 2 — 26

R10-3(1) 9" x 15" — PUSH BUTTON TO CROSS OLD GEORGETOWN ROAD — STREET NAME IN BRAILLE TYPE 2 — 27

OLD GEORGETOWN ROAD

R10-3(1) 9" x 15" — PUSH BUTTON TO CROSS LINCOLN STREET — STREET NAME IN BRAILLE TYPE 2 — 28

R10-3(1) 9" x 15" — PUSH BUTTON TO CROSS LINCOLN STREET — STREET NAME IN BRAILLE TYPE 2 — 29

LINCOLN STREET

PROPOSED SIGNALS

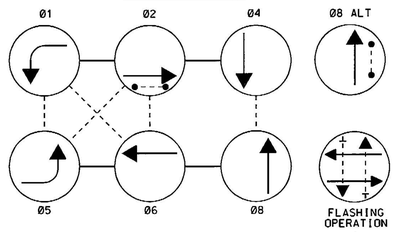
1,2,4,5 — R Y G — 12"

3,6-12 — R Y G — 12"

13-16 — LED 16" COUNTDOWN PEDESTRIAN SIGNAL HEAD

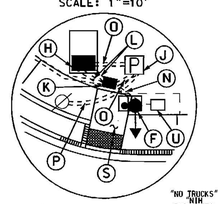
VIDEO DETECTION CAMERA a-d

NEMA PHASING



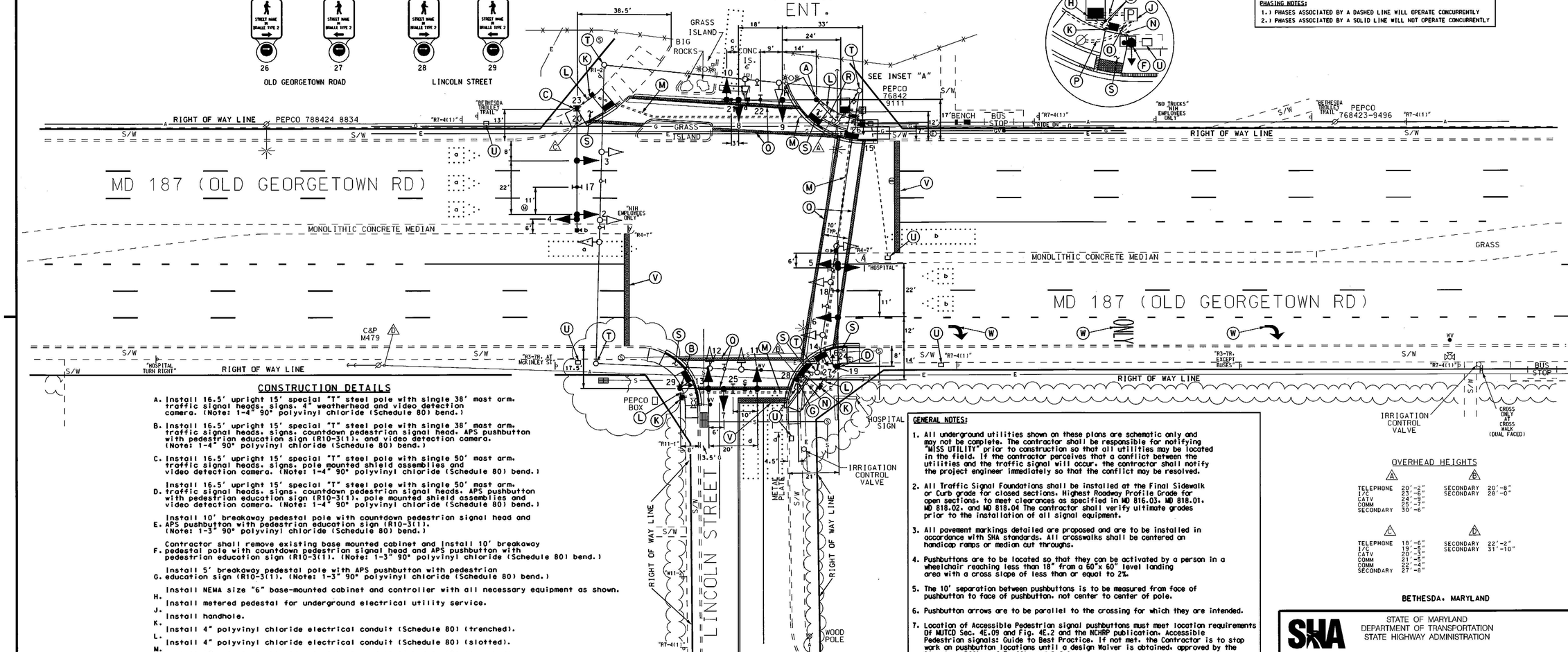
PHASING NOTES:
1.) PHASES ASSOCIATED BY A DASHED LINE WILL OPERATE CONCURRENTLY
2.) PHASES ASSOCIATED BY A SOLID LINE WILL NOT OPERATE CONCURRENTLY

INSET "A" SCALE: 1"=10'



N.I.H. ENT.

SEE INSET "A"



CONSTRUCTION DETAILS

A. Install 16.5' upright 15' special "T" steel pole with single 38' mast arm. traffic signal heads. signs. 4" weatherhead and video detection camera. (Note: 1-4" 90° polyvinyl chloride (Schedule 80) bend.)

B. Install 16.5' upright 15' special "T" steel pole with single 38' mast arm. traffic signal heads. signs. countdown pedestrian signal head. APS pushbutton with pedestrian education sign (R10-3(1)). pole mounted shield assemblies and video detection camera. (Note: 1-4" 90° polyvinyl chloride (Schedule 80) bend.)

C. Install 16.5' upright 15' special "T" steel pole with single 50' mast arm. traffic signal heads. signs. pole mounted shield assemblies and video detection camera. (Note: 1-4" 90° polyvinyl chloride (Schedule 80) bend.)

D. Install 16.5' upright 15' special "T" steel pole with single 50' mast arm. traffic signal heads. signs. countdown pedestrian signal heads. APS pushbutton with pedestrian education sign (R10-3(1)). pole mounted shield assemblies and video detection camera. (Note: 1-4" 90° polyvinyl chloride (Schedule 80) bend.)

E. Install 10' breakaway pedestal pole with countdown pedestrian signal head and APS pushbutton with pedestrian education sign (R10-3(1)). (Note: 1-3" 90° polyvinyl chloride (Schedule 80) bend.)

F. Contractor shall remove existing base mounted cabinet and install 10' breakaway pedestal pole with countdown pedestrian signal head and APS pushbutton with pedestrian education sign (R10-3(1)). (Note: 1-3" 90° polyvinyl chloride (Schedule 80) bend.)

G. Install 5' breakaway pedestal pole with APS pushbutton with pedestrian education sign (R10-3(1)). (Note: 1-3" 90° polyvinyl chloride (Schedule 80) bend.)

H. Install NEMA size "6" base-mounted cabinet and controller with all necessary equipment as shown.

J. Install metered pedestal for underground electrical utility service.

K. Install handhole.

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

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

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

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

P. Install 4" 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.

O. Install 12" white heat applied preformed thermoplastic pavement marking.(Crosswalk) (Note: The resurfacing project will remove all existing crosswalks.)

R. Contractor shall install 12 pair interconnect cable into existing weatherhead attached to Pepco pole 76842-9111 going into splice cabinet from proposed mast arm. (Note: See wiring diagram for more details.)

S. All existing handicap ramps are being done by the roadway contractor.

T. Remove existing strain pole and all associated signal equipment as shown. (Note: Contractor shall backfill 12" below grade.)

U. Abandon existing handhole and all existing conduit runs associated.

V. Install 24" white heat applied preformed thermoplastic pavement marking.(Stopline) (Note: The resurfacing project will remove all existing stoplines.)

W. Pavement markings shall be replaced by the roadway contractor.

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.

OVERHEAD HEIGHTS

A		B	
TELEPHONE	20'-2"	SECONDARY	20'-8"
I/C	23'-6"	SECONDARY	28'-0"
CATV	24'-9"		
COMM	25'-7"		
SECONDARY	30'-6"		

C		D	
TELEPHONE	18'-6"	SECONDARY	22'-2"
I/C	19'-5"	SECONDARY	31'-10"
CATV	20'-3"		
COMM	21'-5"		
COMM	22'-4"		
SECONDARY	27'-8"		

BETHESDA, MARYLAND

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 —

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STATE OF MARYLAND
DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION

MD 187 (OLD GEORGETOWN RD) AND LINCOLN STREET

BETHESDA, MARYLAND

TRAFFIC SIGNAL PLAN

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

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

REVISIONS	
A	12/22/08 RECONSTRUCT SIGNAL SHA.NO.:MD4295186 JWA

DESIGNED BY _____ COUNTY MONTGOMERY
DRAWN BY D.A.NIES LOGMILE 15018701.29
CHECKED BY _____ TIMS NO. J511
F.A.P. NO. _____ TOD NO. _____

TS NO.3137A | DRAWING NO. 1 OF 2 | SHEET NO. OF

PLOTTED: MONDAY, JANUARY 05, 2009 AT 01:51 PM
FILE: J:\DATA\J511\LINCOLN PL.DGN