DRILL HOLES

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BORDER REV: DATE: June 1, 2004

MD 182 IS CONSIDERED TO RUN IN A NORTH - SOUTH DIRECTION

EXISTING SIGNS

TO BE REMOVED

21,23,25,28

LEFT TURN
YIELD
ON GREEN

R10-12
36"x 42"

EXISTING SIGNS

26

ONLY

R3-5R
30"x 36"

22a,24b — Glenallan Ave <2300 — D3-2 (DUAL-FACED) VARIABLE X 18"

27b,29a — Layhill Rd 12600> — D3-2 (DUAL-FACED) VARIABLE X 18"

22b,24a — Glenallan Ave 2300> — D3-2 (DUAL-FACED) VARIABLE X 18"

27a,29b — Layhill Rd < 12600 — D3-2 (DUAL-FACED) VARIABLE X 18"

PROPOSED SIGNS

R10-3(1) 9" x 15" — PUSH BUTTON TO CROSS LAYHILL ROAD — STREET NAME IN BRAILLE TYPE 2 — 30,32

R10-3(1) 9" x 15" — PUSH BUTTON TO CROSS LAYHILL ROAD — STREET NAME IN BRAILLE TYPE 2 — 31,33

LAYHILL ROAD

R10-3(1) 9" x 15" — PUSH BUTTON TO CROSS GLENALLAN AVENUE — STREET NAME IN BRAILLE TYPE 2 — 34,36

R10-3(1) 9" x 15" — PUSH BUTTON TO CROSS GLENALLAN AVENUE — STREET NAME IN BRAILLE TYPE 2 — 35,37

GLENALLAN AVENUE

EXISTING SIGNALS

1,2,4,5, 7,8,10,11 — R Y G — 12"

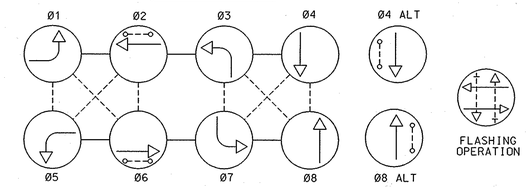
3,6,9,12 — R Y G — 12"

PROPOSED SIGNALS

13-20

LED 16" COUNTDOWN PEDESTRIAN SIGNAL HEAD

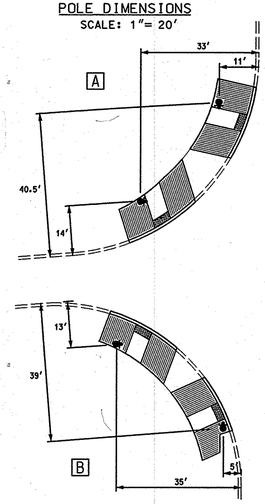
NEMA PHASING

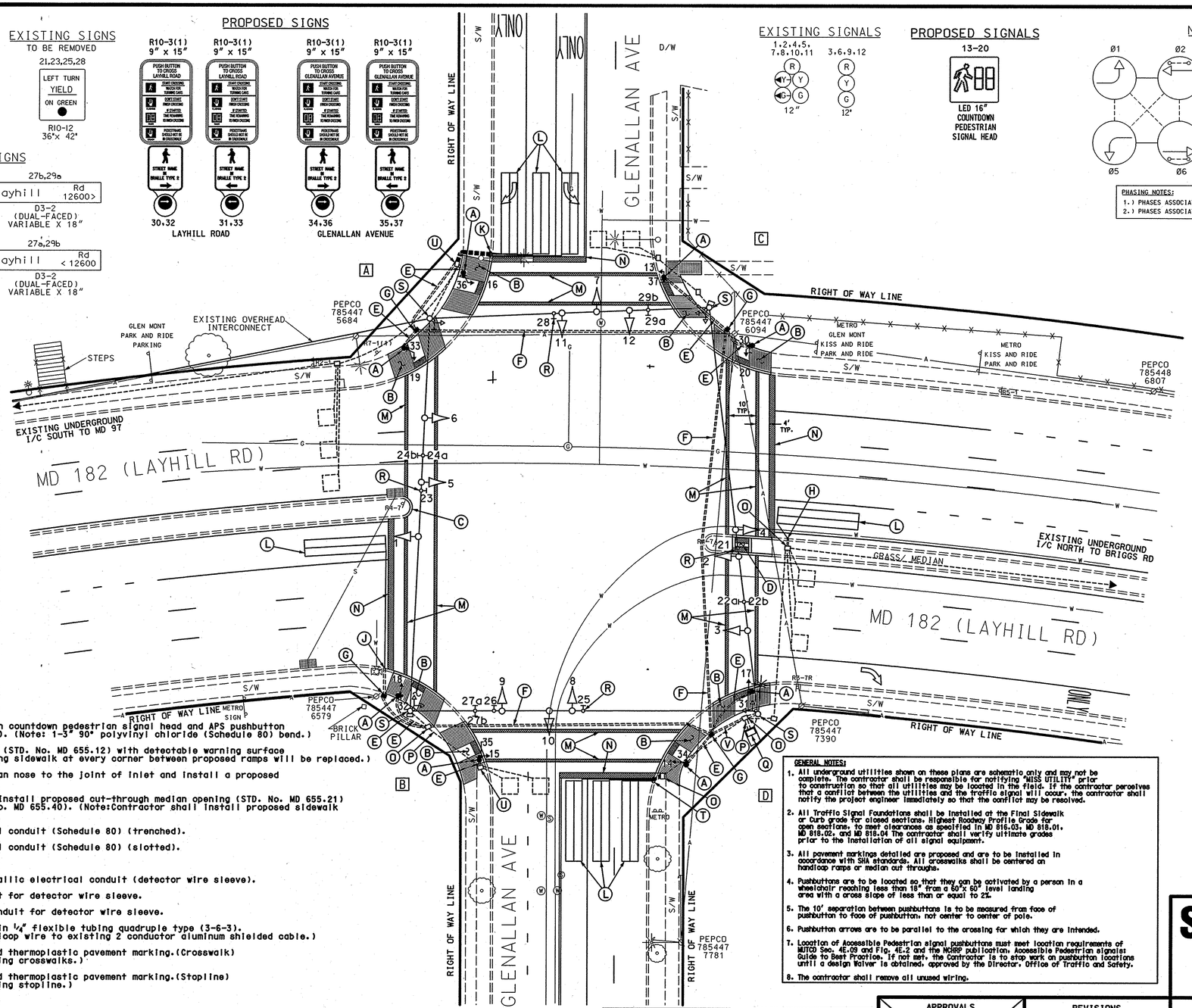


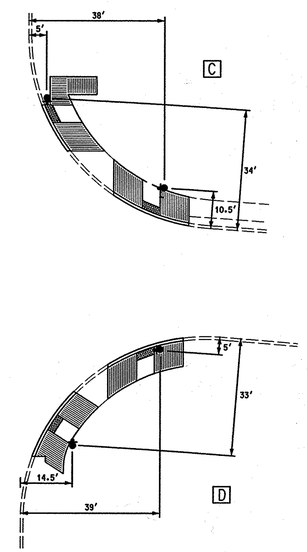
PHASING NOTES:
1.) PHASES ASSOCIATED BY A DASHED LINE WILL OPERATE CONCURRENTLY
2.) PHASES ASSOCIATED BY A SOLID LINE WILL NOT OPERATE CONCURRENTLY

POLE DIMENSIONS

SCALE: 1"= 20'







CONSTRUCTION DETAILS

A. 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.)

B. Install proposed parallel handicap ramp (STD. No. MD 655.12) with detectable warning surface (STD. No. MD 655.40). (Note: All existing sidewalk at every corner between proposed ramps will be replaced.)

C. Contractor shall cut back existing median nose to the joint of inlet and install a proposed depressed down median nose as shown.

D. Remove existing median cut through and install proposed cut-through median opening (STD. No. MD 655.21) with detectable warning surface (STD. No. MD 655.40). (Note:Contractor shall install proposed sidewalk to close existing median cut-through.)

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

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

G. Install handhole.

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

J. Install 1" galvanized electrical conduit for detector wire sleeve.

K. Install (3) 1" galvanized electrical conduit for detector wire sleeve.

L. Install 6' x 30' loop detector encased in 1/4" flexible tubing quadruple type (3-6-3). (Note:Contractor shall splice existing loop wire to existing 2 conductor aluminum shielded cable.)

M. Install 12" white heat applied preformed thermoplastic pavement marking.(Crosswalk) (Note:Contractor shall remove all existing crosswalks.)

N. Install 24" white heat applied preformed thermoplastic pavement marking.(Stopline) (Note:Contractor shall remove all existing stopline.)

O. Use existing handhole.

P. Use existing conduit.

Q. Use existing cabinet and controller.

R. Remove existing overhead R10-12 sign.

S. Remove existing pedestrian signal head and any other pedestrian associated equipment from signal pole.

T. Install (3) 1"liquid tight flexible non-metallic electrical conduit (detector wire sleeve).

U. Use existing handhole and install ground rod.

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

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. XX449-05
SHA No. MO527A51/B51

STATE OF MARYLAND
DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION

MD 182 (LAYHILL RD) AND GLENALLAN AVE

GLENMONT, MARYLAND

TRAFFIC SIGNAL PLAN

SCALE 1"= 20' DATE 8-31-93 CONTRACT NO. M581251371

DESIGNED BY WALTER RICHARD
DRAWN BY WALTER RICHARD
CHECKED BY
F.A.P. NO.
COUNTY MONTGOMERY
LOGMILE 15018200.21
TIMS NO. 1559
TOD NO.

TS NO. 1005C | DRAWING NO. 1 OF 2 | SHEET NO. OF

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"

STREET TRAFFIC STUDIES, LTD.
400 Crain Hwy. NW.
Glen Burnie, MD 21061
Ph (410) 590-5500
Fax (410) 590-5537

5403.dgn T-116

APPROVALS

ORIGINAL ON FILE

TEAM LEADER
ASST. DIV.
DIVISION CHIEF
OFFICE DIRECTOR

REVISIONS

(2) Install APS, CPS and LED Signal Heads SHA NO.: XX449105 — 5-27-08
JWA | MF | | | | |
(1) REBUILD TRAFFIC SIGNAL
8-31-93
A 9-10-88 SHA NO.MS81-251-371 INSTALL INTERCONNECT CABLE WITH MD 97 AND MD 182

CRS	SR	D.A.	EP		BRK

PLOTTED: $DATETIME$
FILE: $FILE$

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