

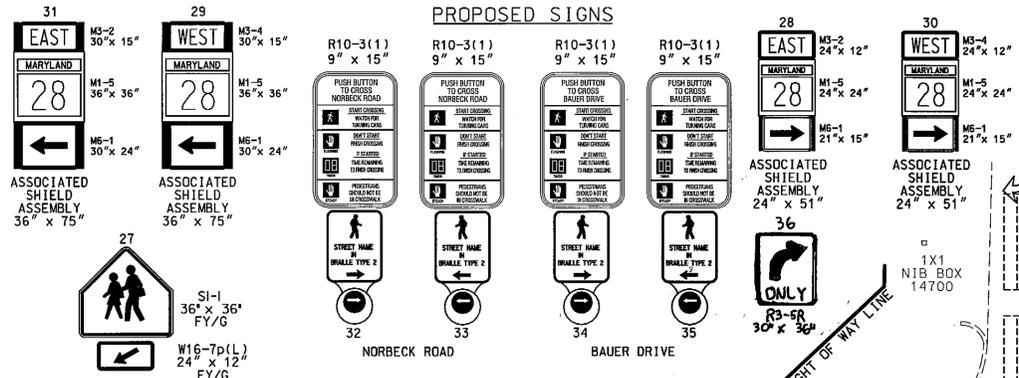
DRILL HOLES

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BORDER REV. DATE: June 1, 2004

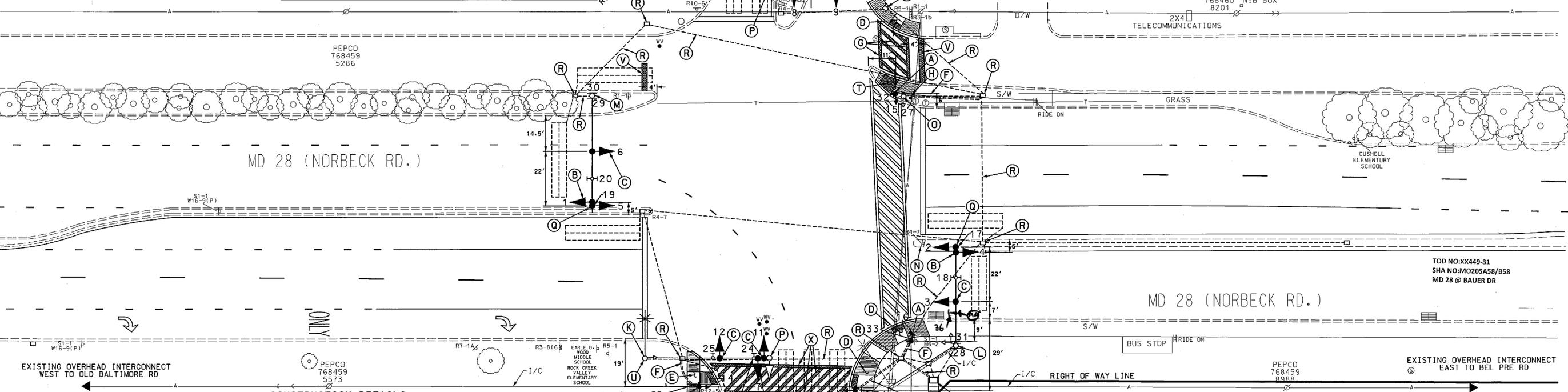
MD 28 IS CONSIDERED TO RUN IN AN EAST/WEST DIRECTION



EXISTING SIGNS

PROPOSED LED SIGNALS

NEMA PHASING



- A. Install 10' breakaway pedestal pole with countdown pedestrian signal heads and APS pushbutton with pedestrian education sign R10-3(1) as shown. (Notes 1-3 90° polyvinyl chloride (Schedule 80) bend.)
- B. Install proposed traffic signal head as shown.
- C. Remove existing traffic signal heads and install proposed traffic signal heads.
- D. Install proposed parallel handicap ramp (STD. No. MD 655.12) with detectable warning surface (STD. No. MD 655.40).
- E. Install combination handicap ramp (STD. No. MD 655.13) with detectable warning surface (STD. No. MD 655.40).
- F. Install 3" polyvinyl chloride electrical conduit (Schedule 80) (trenched).
- G. Install 12" white heat applied preformed thermoplastic pavement marking. (Crosswalk)
- H. Install proposed ground mounted sign with wood post as shown.
- J. Remove existing overhead sign as shown.
- K. Contractor shall remove existing pedestrian associated equipment from strlan pole as shown.
- L. Contractor shall remove existing pedestrian associated equipment from strlan pole and install pole mounted shield assemblies.
- M. Contractor shall install pole mounted shield assemblies on existing mast arm pole.
- N. Contractor shall remove existing S1-1 and M6-2 signs from existing sign post as shown.
- O. Contractor shall remove existing pedestal pole and all attached pedestrian signal equipment 12" below grade and backfill.
- P. Remove existing traffic signal head as shown
- Q. Remove existing overhead R1-2C and install proposed signal head in its place as shown.
- R. Use existing conduit and/or handhole.
- S. Use existing base mounted cabinet and controller.
- T. Install proposed out through island opening (STD. No. MD 655.21) with detectable warning surface (STD. No. MD 655.40).
- U. Install mast arm pole extension (TYP. 818.02.01) for 15' lighting arm on existing signal structure.
- V. Install 24" white heat applied preformed thermoplastic pavement marking. (Stopline)
- W. Install 24" white heat applied preformed thermoplastic pavement marking. (Stopline) (Note: Contractor shall remove existing stopline.)
- X. Install 12" white heat applied preformed thermoplastic pavement marking. (Crosswalk) (Note: Contractor shall remove existing crosswalk.)
- Y. Install 10' (18" breakaway coupling foundation STD No. 801.01-01) pedestal pole with countdown pedestrian signal heads and APS pushbutton with pedestrian education sign. (Note: 1-3 90° polyvinyl chloride (Schedule 80) bend.)
- Z. Adjust existing handhole to grade to match sloped area.
- AA. INSTALL OVERHEAD SIGN

- 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 Practices. 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.
  9. The contractor must maintain pedestrian access during construction.
  10. If existing pedestrian pushbuttons are made inaccessible during the construction phase, notify Kamal Hamud (240) 777-8761 immediately.
  11. Newly installed pedestrian signals, pushbuttons and signs, and vehicle signals should be completely covered with opaque material; the contractor is responsible to maintain this covering until they are placed in service.

**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. N.W.  
Gaithersburg, MD 20878  
PH (410) 590-5500  
Fax (410) 590-6637

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TEAM LEADER	
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DIVISION CHIEF	
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**SHA** STATE OF MARYLAND  
DEPARTMENT OF TRANSPORTATION  
STATE HIGHWAY ADMINISTRATION

**MD 28 (NORBECK RD.) AND BAUER DRIVE**  
ROCKVILLE, MARYLAND

**TRAFFIC SIGNAL PLAN**

SCALE 1"=20' DATE 10/3/85 CONTRACT NO. M970-501-371

DESIGNED BY	COUNTY MONTGOMERY
DRAWN BY	LOGMILE 15002825.21
CHECKED BY	TIMS NO. 1879
F.A.P. NO.	TOD NO.

TS NO. 1924C DRAWING NO. 1 OF 2 SHEET NO. OF

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