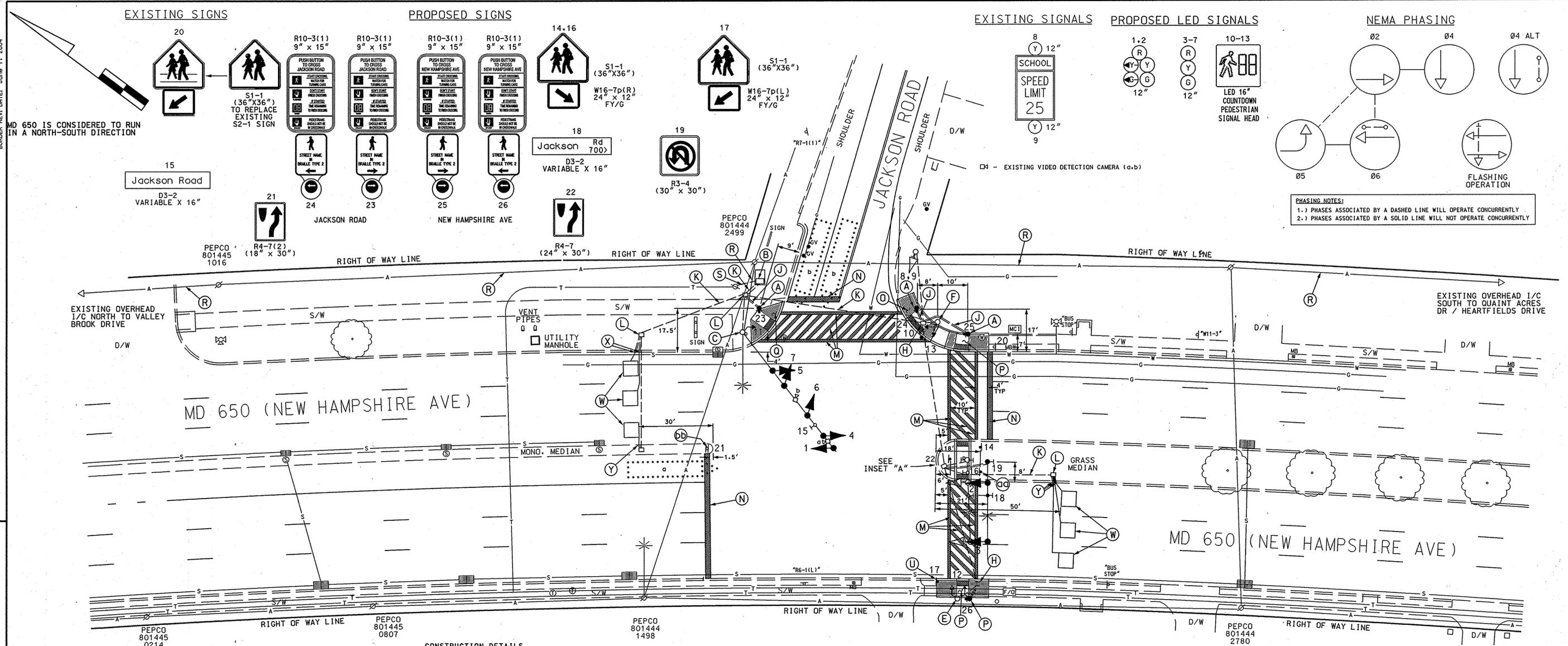


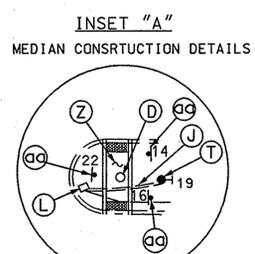
DRILL HOLES

DRILL HOLES

DRILL HOLES



- A. Install 5' breakaway pedestal pole with APS pushbutton with pedestrian education sign. (Note: 1-3" 90° polyvinyl chloride (Schedule 80) bend.)
- B. Install 2-wire control unit into existing NEMA size "6" base-mounted cabinet and controller.
- C. Use existing 21' pole and 60' mast arm. Replace existing traffic signal heads with LED traffic signal heads. Replace existing pedestrian signal head with a countdown pedestrian signal head. Remove existing pushbutton and sign.
- D. Remove mast arm signal pole, all attached equipment and foundation 12" below grade.
- E. Remove existing pedestal pole, all attached equipment and foundation 12" below grade.
- F. Remove existing pushbutton and sign. Replace existing pedestrian signal heads with countdown pedestrian signal heads as shown.
- G. Replace existing traffic signal heads with LED traffic signal heads as shown.
- H. Lower existing handhole to grade of proposed ramp.
- J. Install 3" polyvinyl chloride electrical conduit (Schedule 80) (trenched).
- K. Use existing conduit.
- L. Use existing handhole.
- M. Install 12" white heat applied preformed thermoplastic pavement marking. (Crosswalk) (Note: Contractor shall remove any existing marking.)
- N. Install 24" white heat applied preformed thermoplastic pavement marking. (Stopline). (Note: Contractor shall remove any existing marking.)
- O. Install proposed parallel handicap ramp with 8' flat area (STD. No. MD 655.12) and detectable warning surface (STD. No. MD 655.40) as shown.
- P. Install proposed parallel handicap ramp (STD. No. MD 655.12) and detectable warning surface (STD. No. MD 655.40) as shown.
- Q. Install proposed perpendicular handicap ramp (STD. No. MD 655.11) and detectable warning surfaces (STD. No. MD 655.40) as shown.
- R. Existing overhead interconnect to remain.
- S. Existing underground electrical service to remain.
- T. Install 27' steel pole with a 38' mast arm, traffic signal heads, sign and 20' lighting with a 250W-110V luminaire as shown. (Note: 1-3", 90° polyvinyl chloride (Schedule 80) bends.)
- U. Remove existing ground mounted sign and install new ground mounted sign on existing post in same location as shown.
- V. Install 10' pedestal pole Countdown pedestrian signal head, audible pushbutton and pedestrian education sign as shown. (Note: 1-3", 90° polyvinyl chloride (Schedule 80) bends.)
- W. Install 6' x 6' loop detector encased in 1/4" flexible tubing (4-turns).
- X. Install 1" galvanized steel electrical conduit (detector wire sleeve).
- Y. Install 1" liquid tight flexible non-metallic electrical conduit (detector wire sleeve).
- Z. Remove existing median cut-through and install new median cut-through (Std. No. MD 655.21) using a 5' wide sidewalk and curbs.
- aa. Install proposed ground mounted sign as shown.
- bb. Remove existing R4-7 sign and install proposed R4-7(2) on same post sign as shown. Remove existing Jackson Road Elementary School sign.



- GENERAL NOTES:**
- 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.
  - 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 816.05, MD 818.01, MD 818.02, and MD 818.04. The contractor shall verify ultimate grades prior to the installation of all signal equipment.
  - 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.
  - 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%.
  - The 10' separation between pushbuttons is to be measured from face of pushbutton to face of pushbutton, not center to center of pole.
  - Pushbutton arrows are to be parallel to the crossing for which they are intended.
  - 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.

**GEOMETRIC LEGEND**

PROPOSED: ———  
EXISTING: - - - - -

**LEGEND OF UNDERGROUND AND OVERHEAD UTILITIES**

AERIAL CABLE: ———  
ELECTRIC: ———  
TELEPHONE: ———  
GAS: ———  
SEWER: ———  
WATER: ———  
CABLE TV: ———

TOD No. XX444-05  
SHA No. MO526A53/B53

**SHA** STATE OF MARYLAND  
DEPARTMENT OF TRANSPORTATION  
STATE HIGHWAY ADMINISTRATION

**MD 650 (NEW HAMPSHIRE AVE) AND JACKSON RD**

**TRAFFIC SIGNAL PLAN**

SCALE 1" = 20' DATE 6-10-89 CONTRACT NO. \_\_\_\_\_

DESIGNED BY R R ZACHERL COUNTY MONTGOMERY  
DRAWN BY W J NIES LOGMILE 15065006.00  
CHECKED BY \_\_\_\_\_ TMS NO. 1411  
F.A.P. NO. \_\_\_\_\_ TOD NO. \_\_\_\_\_

TS NO. 2577B DRAWING NO. 1 OF 2 SHEET NO. 1 OF 4

**ST**  
STREET TRAFFIC STUDIES, LTD.  
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Glen Burnie, MD 21061  
Ph (410) 590-5500  
Fax (410) 590-6637  
5483a.dgn T-143

**APPROVALS**

TEAM LEADER: \_\_\_\_\_  
ASST. DIV. CHIEF: \_\_\_\_\_  
DIVISION CHIEF: \_\_\_\_\_  
OFFICE DIRECTOR: \_\_\_\_\_

**REVISIONS**

6-27-08	INSTALL APS/CPS, LED HEADS
CONTRACT #XX4445185	
RRZ [Signature]	
A 2/2005	REPLACE LOOP DETECTION WITH VIDEO CAMERAS SHA NO. MO7175185
JA	