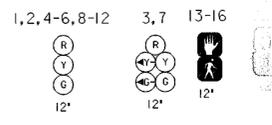
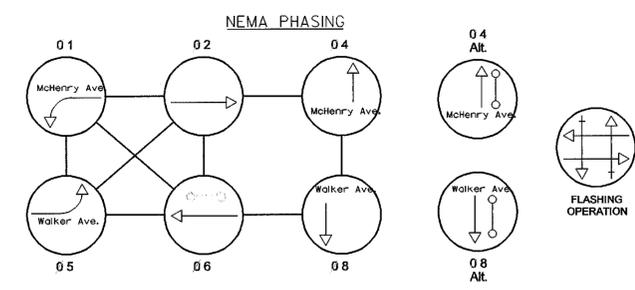
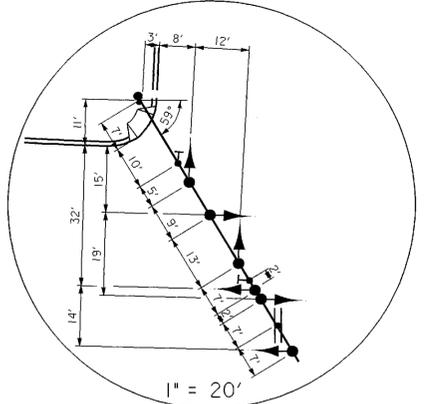
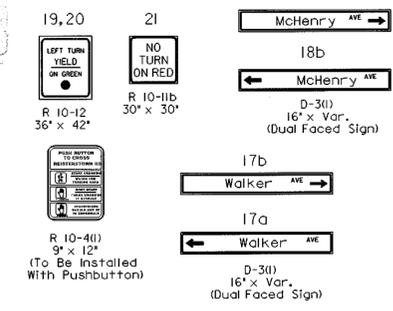


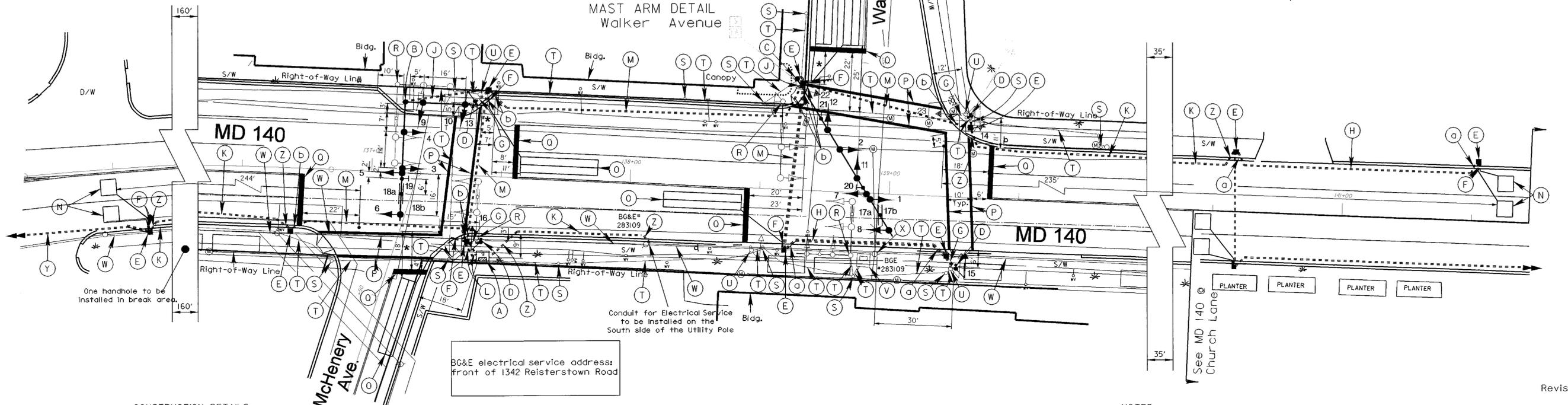
**SIGNALS**



**SIGNS**



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



**CONSTRUCTION DETAILS**

- A. Install base mounted NEMA 6 cabinet (use existing controller) and all necessary equipment for an underground MD-SHA (Type B-5) electrical service.
- B. Install 23 ft. steel twin mast arm pole with 30 ft. cut from a 50 ft. and 60 ft. mast arms, vehicle signal heads, and signs as shown (Note: one 3 in. PVC conduit bend).
- C. Install 21 ft. steel mast arm pole with a 70 ft. mast arm, vehicle signal heads, and signs as shown (Note: 3 in. PVC conduit bend).
- D. Install 10 ft. steel pedestal pole on break away base with pedestrian signal head, pedestrian pushbutton, and pedestrian pushbutton sign (Note: one 2 in. PVC conduit bend).
- E. Install handhole.
- F. Install 1 in. liquid tight flexible conduit for loop detector lead-in.
- G. Install 2 in. polyvinyl chloride [Schedule 80] electrical conduit - trenched.
- H. Install 2 in. polyvinyl chloride [Schedule 80] electrical conduit - slotted in roadway.
- J. Install 3 in. polyvinyl chloride [Schedule 80] electrical conduit - trenched.
- K. Install 3 in. polyvinyl chloride [Schedule 80] electrical conduit - slotted in roadway.
- L. Install 4 in. polyvinyl chloride [Schedule 80] electrical conduit - trenched.
- M. Install 4 in. polyvinyl chloride [Schedule 80] electrical conduit - slotted in roadway.
- N. Install 6 ft. x 6 ft. vehicle loop detector (4 turns).
- O. Install 6 ft. x 30 ft. quadrupole type vehicle loop detector (3-6-3 turns).
- P. Install 12 in. wide pavement marking - white for crosswalk.
- Q. Install 24 in. wide pavement marking - white for stop line.
- R. Remove existing steel mast arm pole and all attached signal equipment.
- S. Remove existing splice box.
- T. Cap and abandon existing conduit.
- U. Remove existing traffic signal pedestal pole.
- V. Remove existing base mounted cabinet.
- W. Remove existing overhead interconnect.
- X. Remove existing PVC riser used for interconnect.
- Y. Installed as part of Interconnect Plan.
- Z. Install 3 in. polyvinyl chloride [Schedule 80] electrical conduit - bored.

- a. Install 2 in. polyvinyl chloride [Schedule 80] electrical conduit - bored.
- b. Install 4 in. polyvinyl chloride [Schedule 80] electrical conduit - bored.
- 3.1c. Install pedestrian signal head on existing mast arm pole.
- 3.2a. Remove existing one-way two section pedestrian signal head. Remove two-way two section pedestrian signal head on existing pedestrian pole.

\* Crosswalks are to be installed in line with the Handicap ramps as directed by the Project Engineer.

**NOTES**

1. Geometrics shall be confirmed prior to the installation of signal equipment. All signal equipment shall be installed at final grade.
2. Loop detectors and conduits shall be installed prior to the installation of pavement markings.
3. Pavement markings detailed are proposed and are to be installed by the Contractor in accordance with S.H.A. standards. All other pavement markings will be installed as part of the highway contract.
4. All underground and overhead utilities shown on these plans are schematic and are not to be considered complete. The Contractor shall be responsible for notifying all utility companies 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 equipment will occur, the Contractor shall notify the appropriate Project Engineer immediately.
5. Contractor shall hand excavate for each new foundation until all utilities have been adequately cleared.
6. Original signal, design, and construction by Baltimore County.
7. Signal Contractor to excavate sidewalk as necessary to remove/install traffic signal equipment. Upon completion of Traffic Signal work the Signal Contractor is to backfill the excavated areas with a MD-SHA approved material. The restoration of the sidewalk areas is to be completed by others.

GEOMETRIC LEGEND		REVISIONS		APPROVALS	
---	EXISTING GEOMETRICS				
---	PROPOSED GEOMETRICS				
UTILITY LEGEND					
---	GAS MAIN				
---	WATER MAIN				
---	SEWER MAIN				
---	ELECTRIC CABLES				
---	STORM DRAIN				
---	AERIAL CABLES				
---	TELEPHONE CABLES				

**MDOT - STATE HIGHWAY ADMINISTRATION**  
 Office of Traffic & Safety  
 TRAFFIC ENGINEERING DESIGN DIVISION  
 (Traffic Signal Plan)  
**MD 140 at McHenry Avenue and Walker Avenue**

DATE: November 2, 1999 LOG MILE # 03014001.20  
 DRAWN BY: JES F.A.P. NO. SEE TITLE SHEET  
 CHK. BY: S.H.A. NO. BA3035183  
 SCALE: 1" = 20' COUNTY: Baltimore

PLAN SHEET NO.: 2277 D SHEET NO. 34 of 81

The Traffic Group, Inc.  
 Suite 600  
 40 W. Chesapeake Avenue  
 Towson, Maryland 21204  
 410-583-8405  
 1-800-583-8411  
 Fax 410-321-8458  
 Job. No. 970727-028  
 SIGS.DGN

Revision "..."