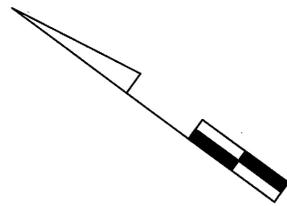


DRILL HOLES

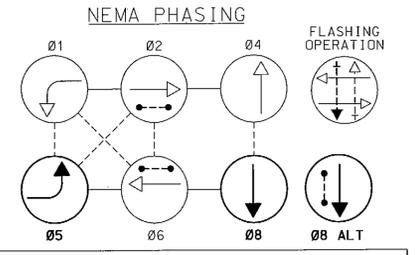
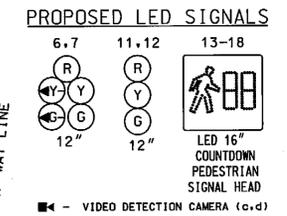
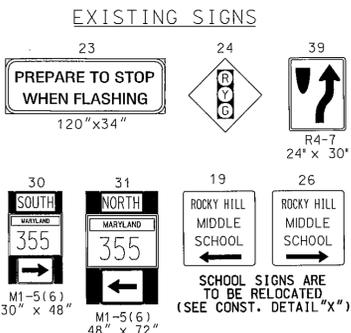
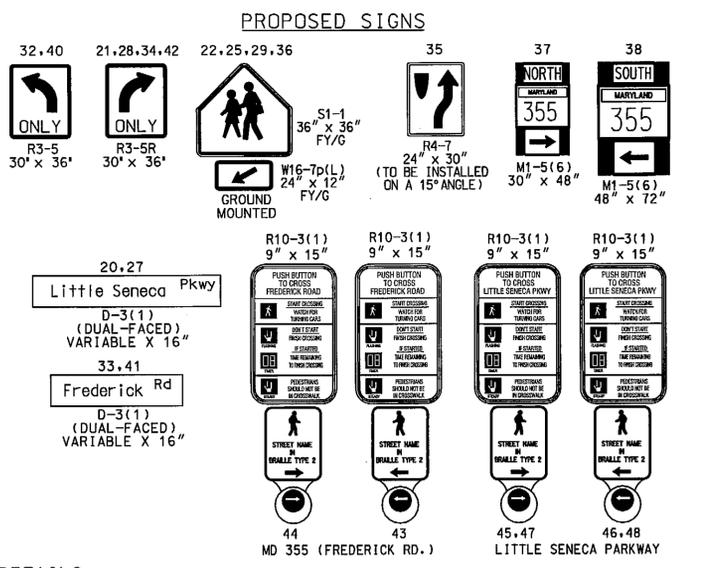
DRILL HOLES

DRILL HOLES

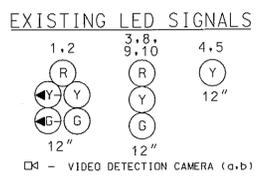
BORDER REV. DATE: June 1, 2004



NOTE: MD 355 IS CONSIDERED TO RUN IN A NORTH-SOUTH DIRECTION.



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

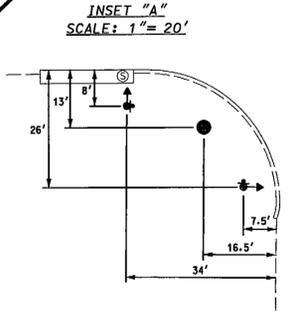
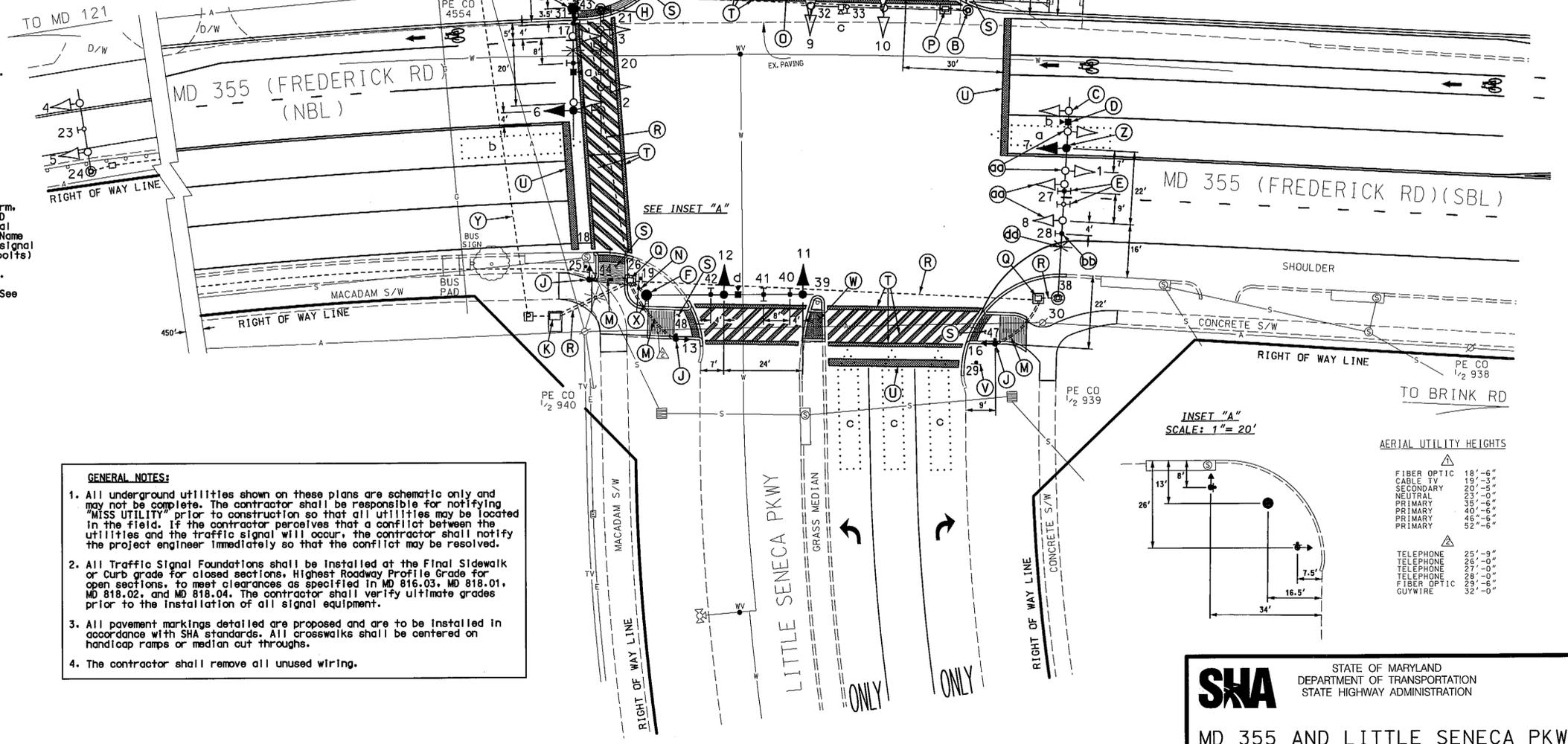


CONSTRUCTION DETAILS

- A. Install concrete pole foundation and relocated steel pole with existing 50' mast arm, traffic signal heads, signs and video detection camera. Install new D-3(1) sign on mast arm as shown. (Note: 2-3", 90° polyvinyl chloride (Schedule 80) bends and 1 1/4" x 66" anchor bolts)
- B. Remove existing signal pole, all attached equipment and foundation 12" below grade. Existing signal pole and attached equipment shall be relocated. (See Construction Detail "A"). (Note: Existing overhead street name sign shall not be reused)
- C. Remove existing signal head.
- D. Install video detection camera as shown.
- E. Relocate existing sign as shown.
- F. Install 27' steel pole with a 50' mast arm, traffic signal heads, signs and video detection camera sign as shown. (Note: 2-3", 90° polyvinyl chloride (Schedule 80) bend.)
- G. Install concrete pole foundation and relocated steel pole with existing 38' mast arm, traffic signal heads, signs, video detection camera and lighting arm with 250W-LED luminaires. Remove existing street name sign. Install new Countdown pedestrian signal head and audible pushbutton with pedestrian education sign, R3-5R sign and Street Name sign onto relocated signal pole as shown. Also signal #6 shall be a new 5' section signal head. (Note: 1-3", 90° polyvinyl chloride (Schedule 80) bend and 1 1/2" x 54" anchor bolts)
- H. Remove existing signal pole, all attached equipment and foundation 12" below grade. Existing signal pole and attached equipment shall be relocated. Existing nearside signal for southbound MD 355 traffic and 250W HPSV luminaire shall be discarded. (See Construction Detail "G").
- J. Install 10' pedestal pole (with breakaway coupling system, modified foundation STD No. 801.01-01), Countdown pedestrian signal head, and audible pushbutton with pedestrian education sign as shown. (Note: 1-2", 90° polyvinyl chloride (Schedule 80) bend.)
- K. Utilize existing Type "S" base-mounted cabinet and controller with all necessary equipment and all necessary wiring as shown. (Note: Montgomery County Signal Shop shall install Control Unit into cabinet).
- L. Install handhole.
- M. Install 2" polyvinyl chloride electrical conduit (Schedule 80) (trenched).
- N. Install 3" polyvinyl chloride electrical conduit (Schedule 80) (trenched).
- O. Install 4" polyvinyl chloride electrical conduit (Schedule 80) (trenched prior to pavement being installed).
- P. Remove existing handhole.
- Q. Use existing handhole.
- R. Use existing conduit.
- S. Install sidewalk ramp (See ADA Ramp Detail Plan Sheet 2 of 4).
- T. Install 12" white, heat applied permanent preformed thermoplastic pavement marking (crosswalk).
- U. Install 24" white, heat applied permanent preformed thermoplastic pavement marking (stopline).
- V. Install ground mounted sign as shown.
- W. Install median cut thru (See ADA Ramp Detail Plan Sheet 2 of 4).
- X. Relocate existing ground mounted sign as shown.
- Y. Existing underground electrical service by Allegheny Power to remain.
- Z. Install LED signal head as shown.
- aa. Relocate existing traffic signal head as shown.
- bb. Install R3-5R sign on existing mast arm.
- cc. Install ground mounted R4-7 sign on 15° angle as shown.
- dd. Remove existing 250W HPSV luminaire and replace with 250W LED.

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. The contractor shall remove all unused wiring.



AERIAL UTILITY HEIGHTS

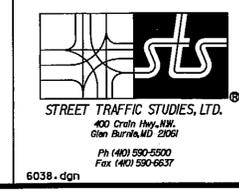
FIBER OPTIC	18'-6"
CABLE TV	19'-6"
SECONDARY	20'-6"
NEUTRAL	23'-0"
PRIMARY	35'-6"
PRIMARY	40'-6"
PRIMARY	46'-6"
PRIMARY	52'-6"
TELEPHONE	25'-6"
TELEPHONE	26'-6"
TELEPHONE	27'-0"
TELEPHONE	28'-0"
FIBER OPTIC	29'-6"
GUYWIRE	32'-0"

GEOMETRIC LEGEND

PROPOSED	---
EXISTING	---

LEGEND OF UNDERGROUND AND OVERHEAD UTILITIES

AERIAL CABLE	A
ELECTRIC	E
TELEPHONE	T
GAS	G
SEWER	S
WATER	W
CABLE TV	TV



APPROVALS

TEAM LEADER	
ASST. DIV.	
DIVISION CHIEF	
OFFICE DIRECTOR	

REVISIONS

12-6-12	ADD EAST LEG. RELOCATE MAST ARMS, ADD APS, CPS.
SHA NO.: B9996M2	TMS NO.: L730
RRZ	1/27/07
ROB	1/27/07

SHA STATE OF MARYLAND
 DEPARTMENT OF TRANSPORTATION
 STATE HIGHWAY ADMINISTRATION

MD 355 AND LITTLE SENECA PKWY
 CLARKSBURG, MARYLAND

TRAFFIC SIGNAL PLAN

SCALE 1" = 20' DATE 10-3-05 CONTRACT NO. AT7185185

DESIGNED BY RRZ (FOR STS) COUNTY MONTGOMERY
 DRAWN BY D.A.NIES (FOR STS) LOGMILE 15035521.81
 CHECKED BY Bill Malcolm TMS NO. HOG1
 F.A.P. NO. TOD NO.

TS NO. 4454A DRAWING NO. 1 OF 4 SHEET NO. OF

FILE: 8/15/04