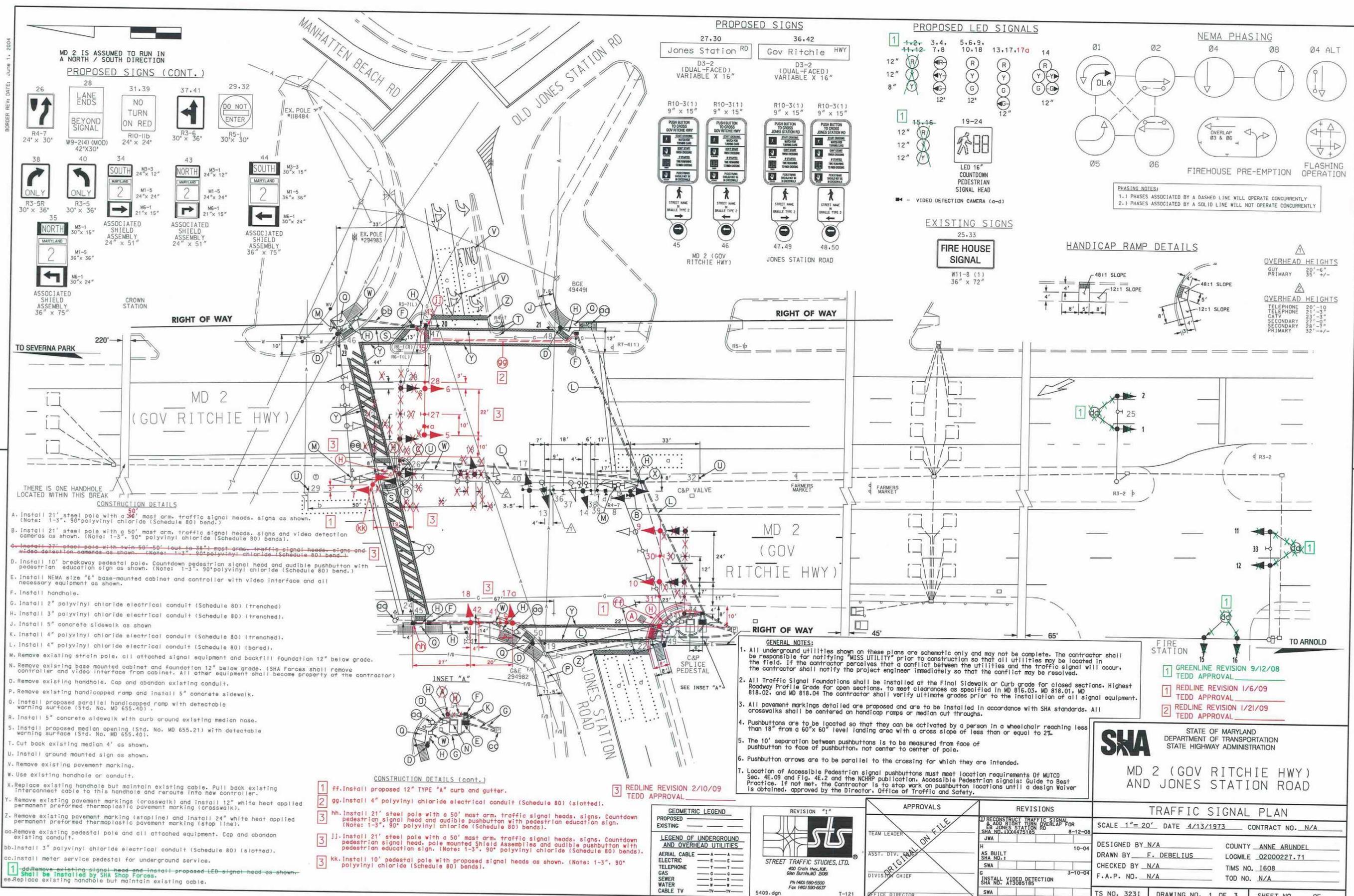


BORDER REV. DATE: JUNE 11, 2004

DRILL HOLES

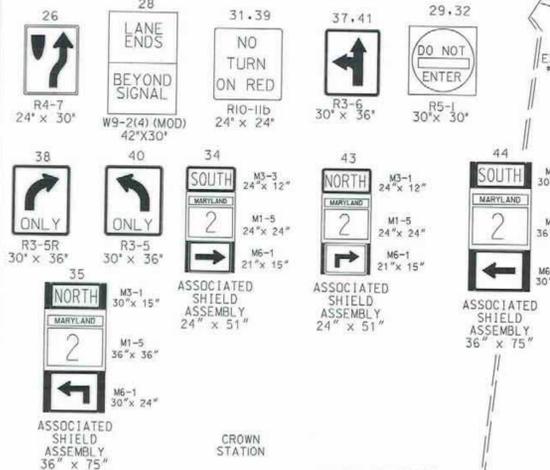
DRILL HOLES

DRILL HOLES

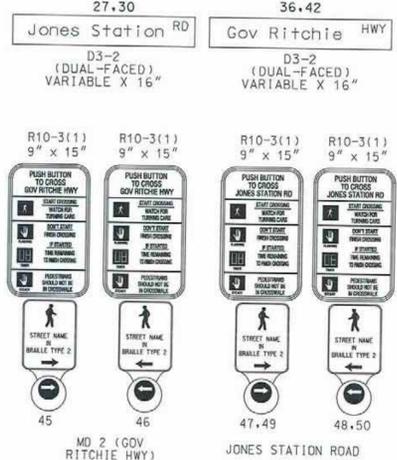


MD 2 IS ASSUMED TO RUN IN A NORTH / SOUTH DIRECTION

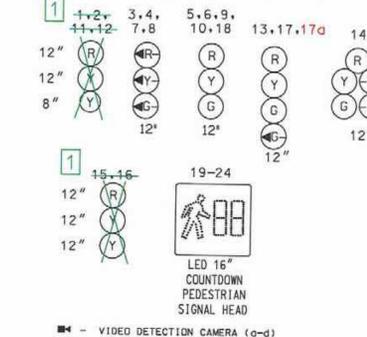
PROPOSED SIGNS (CONT.)



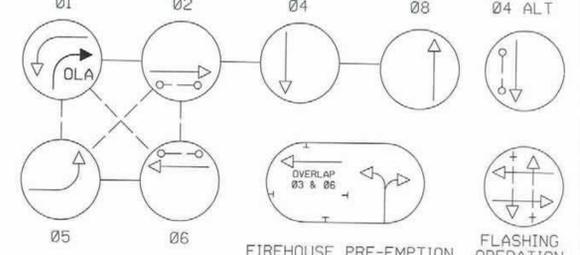
PROPOSED SIGNS



PROPOSED LED SIGNALS



NEMA PHASING

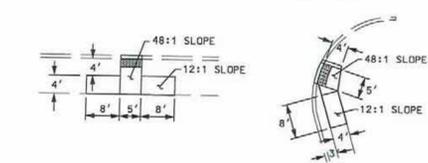


PHASING NOTES:
 1.) PHASES ASSOCIATED BY A DASHED LINE WILL OPERATE CONCURRENTLY
 2.) PHASES ASSOCIATED BY A SOLID LINE WILL NOT OPERATE CONCURRENTLY

EXISTING SIGNS



HANDICAP RAMP DETAILS



OVERHEAD HEIGHTS

GUY PRIMARY	20'-6"
TELEPHONE	21'-10"
TELEPHONE	23'-3"
CATV	27'-0"
SECONDARY	28'-7"
PRIMARY	32'-4"

- CONSTRUCTION DETAILS
- Install 21' steel pole with a 50' most arm, traffic signal heads, signs as shown. (Note: 1-3", 90° polyvinyl chloride (Schedule 80) bend.)
 - Install 21' steel pole with a 50' most arm, traffic signal heads, signs and video detection cameras as shown. (Note: 1-3", 90° polyvinyl chloride (Schedule 80) bend.)
 - Install 27' steel pole with twin 50' 50' (out to 36") most arm, traffic signal heads, signs and video detection cameras as shown. (Note: 1-3", 90° polyvinyl chloride (Schedule 80) bend.)
 - Install 10' breakaway pedestal pole, Countdown pedestrian signal head and audible pushbutton with pedestrian education sign as shown. (Note: 1-3", 90° polyvinyl chloride (Schedule 80) bend.)
 - Install NEMA size "6" base-mounted cabinet and controller with video interface and all necessary equipment as shown.
 - Install handhole.
 - Install 2" polyvinyl chloride electrical conduit (Schedule 80) (trenched)
 - Install 3" polyvinyl chloride electrical conduit (Schedule 80) (trenched).
 - Install 5" concrete sidewalk as shown
 - Install 4" polyvinyl chloride electrical conduit (Schedule 80) (trenched).
 - Install 4" polyvinyl chloride electrical conduit (Schedule 80) (bored).
 - Remove existing strain pole, all attached signal equipment and backfill foundation 12" below grade.
 - Remove existing base mounted cabinet and foundation 12" below grade. (SHA Forces shall remove controller and video interface from cabinet. All other equipment shall become property of the contractor)
 - Remove existing handhole. Cap and abandon existing conduit.
 - Remove existing handhooped ramp and install 5" concrete sidewalk.
 - Install proposed parallel handhooped ramp with detectable warning surface (Std. No. MD 655.40).
 - Install 5" concrete sidewalk with curb around existing median nose.
 - Install proposed median opening (Std. No. MD 655.21) with detectable warning surface (Std. No. MD 655.40).
 - Cut back existing median 4' as shown.
 - Install ground mounted sign as shown.
 - Remove existing pavement marking.
 - Use existing handhole or conduit.
 - Replace existing handhole but maintain existing cable. Pull back existing interconnect cable to this handhole and reroute into new controller.
 - Remove existing pavement markings (crosswalk) and install 12" white heat applied permanent preformed thermoplastic pavement marking (crosswalk).
 - Remove existing pavement marking (stopline) and install 24" white heat applied permanent preformed thermoplastic pavement marking (stop line).
 - Remove existing pedestal pole and all attached equipment. Cap and abandon existing conduit.
 - Install 3" polyvinyl chloride electrical conduit (Schedule 80) (slotted).
 - Install meter service pedestal for underground service.
 - Remove existing signal head and install proposed LED signal head as shown. (Note: 1-3", 90° polyvinyl chloride (Schedule 80) bend.)
 - Replace existing handhole but maintain existing cable.

- CONSTRUCTION DETAILS (cont.)
- ff. Install proposed 12" TYPE "A" curb and gutter.
 - gg. Install 4" polyvinyl chloride electrical conduit (Schedule 80) (slotted).
 - hh. Install 21' steel pole with a 50' most arm, traffic signal heads, signs, Countdown pedestrian signal head and audible pushbutton with pedestrian education sign. (Note: 1-3", 90° polyvinyl chloride (Schedule 80) bend.)
 - ii. Install 21' steel pole with a 50' most arm, traffic signal heads, signs, Countdown pedestrian signal head, pole mounted Shield Assemblies and audible pushbutton with pedestrian education sign. (Note: 1-3", 90° polyvinyl chloride (Schedule 80) bend.)
 - kk. Install 10' pedestal pole with proposed signal heads as shown. (Note: 1-3", 90° polyvinyl chloride (Schedule 80) bend.)

- 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 816.03, MD 818.01, MD 818.02, and MD 818.04. The contractor shall verify ultimate grades prior to the installation of all signal equipment.
 - 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.

- FIRE STATION
- GREENLINE REVISION 9/12/08 TEDD APPROVAL
 - REDLINE REVISION 1/6/09 TEDD APPROVAL
 - REDLINE REVISION 1/21/09 TEDD APPROVAL

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

REVISION "1"

STREET TRAFFIC STUDIES, LTD.

400 Croft Hwy, NW
 GAITHERSBURG, MD 20878
 PH (410) 590-5500
 FAX (410) 590-6637

APPROVALS

TEAM LEADER	
ASST. DIV. CHIEF	
DIVISION CHIEF	
OFFICE DIRECTOR	

REVISIONS

J	RECONSTRUCT TRAFFIC SIGNAL & ADD RIGHT TURN OVERLAP FOR GOV RITCHIE HWY	8-12-08
H	AS BUILT	10-04
SWA		
G	INSTALL VIDEO DETECTION	3-10-04
SWA		

STATE OF MARYLAND
 DEPARTMENT OF TRANSPORTATION
 STATE HIGHWAY ADMINISTRATION

MD 2 (GOV RITCHIE HWY)
 AND JONES STATION ROAD

TRAFFIC SIGNAL PLAN

SCALE 1" = 20'. DATE 4/13/1973. CONTRACT NO. N/A

DESIGNED BY N/A COUNTY ANNE ARUNDEL
 DRAWN BY F. DEBELIUS LOGMILE 02000227.71
 CHECKED BY N/A TIMS NO. 1608
 F.A.P. NO. N/A TOD NO. N/A

TS NO. 3231 DRAWING NO. 1 OF 3 SHEET NO. OF