DRILL HOLES

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BORDER REV: DATE: June 1, 2004

NOTE:
MD 2 IS CONSIDERED TO RUN IN A NORTH-SOUTH DIRECTION.

PROPOSED SIGNS

27b,30a — ⇦ W. Ordnance RD / E. Ordnance RD ⇨ — D3-2 (DUAL-FACED) VARIABLE X 32"

27a,30b — ⇦ E. Ordnance RD / W. Ordnance RD ⇨ — D3-2 (DUAL-FACED) VARIABLE X 32"

35a,35b,40a,40b — Gov. Ritchie Hwy. — D3-2 (DUAL-FACED) VARIABLE X 16"

37 — NORTH, MARYLAND 2 — M3-1 24"x 12", M1-5 24"x 24", M6-1 21"x 15" — ASSOCIATED SHIELD ASSEMBLY 24" x 51"

38 — SOUTH, MARYLAND 2 — M3-3 30"x 15", M1-5 36"x 36", M6-1 30"x 24" — ASSOCIATED SHIELD ASSEMBLY 36" x 75"

31 — SOUTH, MARYLAND 2 — M3-1 24"x 12", M1-5 24"x 24", M6-1 21"x 15" — ASSOCIATED SHIELD ASSEMBLY 24" x 51"

32 — NORTH, MARYLAND 2 — M3-1 30"x 15", M1-5 36"x 36", M6-1 30"x 24" — ASSOCIATED SHIELD ASSEMBLY 36" x 75"

25,26,28,29,33,39 — ONLY — R3-5 30"x 36"

43 — ONLY — R3-5R 30"x 36"

34,41 — R3-6 30"x 36"

36 — R3-6R 30"x 36"

42 — ONLY — R3-5a 30"x 36"

R10-3(1) 9" x 15" — PUSH BUTTON TO CROSS GOVERNOR RITCHIE HWY — STREET NAME SIGNAL TYPE 2 — 44,46

R10-3(1) 9" x 15" — PUSH BUTTON TO CROSS GOVERNOR RITCHIE HWY — STREET NAME SIGNAL TYPE 2 — 45,47

GOVERNOR RITCHIE HWY

OVERHEAD HEIGHTS

TELEPHONE	20'-6"
NEUTRAL	21'-10"
TELEPHONE	22'-0"
NEUTRAL	22'-4"
CATV	23'-6"
SECONDARY	27'-0"
SECONDARY	27'-6"
SECONDARY	28'-0"
SECONDARY	28'-0"
PRIMARY	40'-0"

PROPOSED SIGNALS

1,2,3,6,7,8 — R, Y, G — 12"

4,5,9,10,13,16 — R, Y, G — 12"

11,12,14,15 — R, Y, G — 12"

17-24 — LED 16" COUNTDOWN PEDESTRIAN SIGNAL HEAD

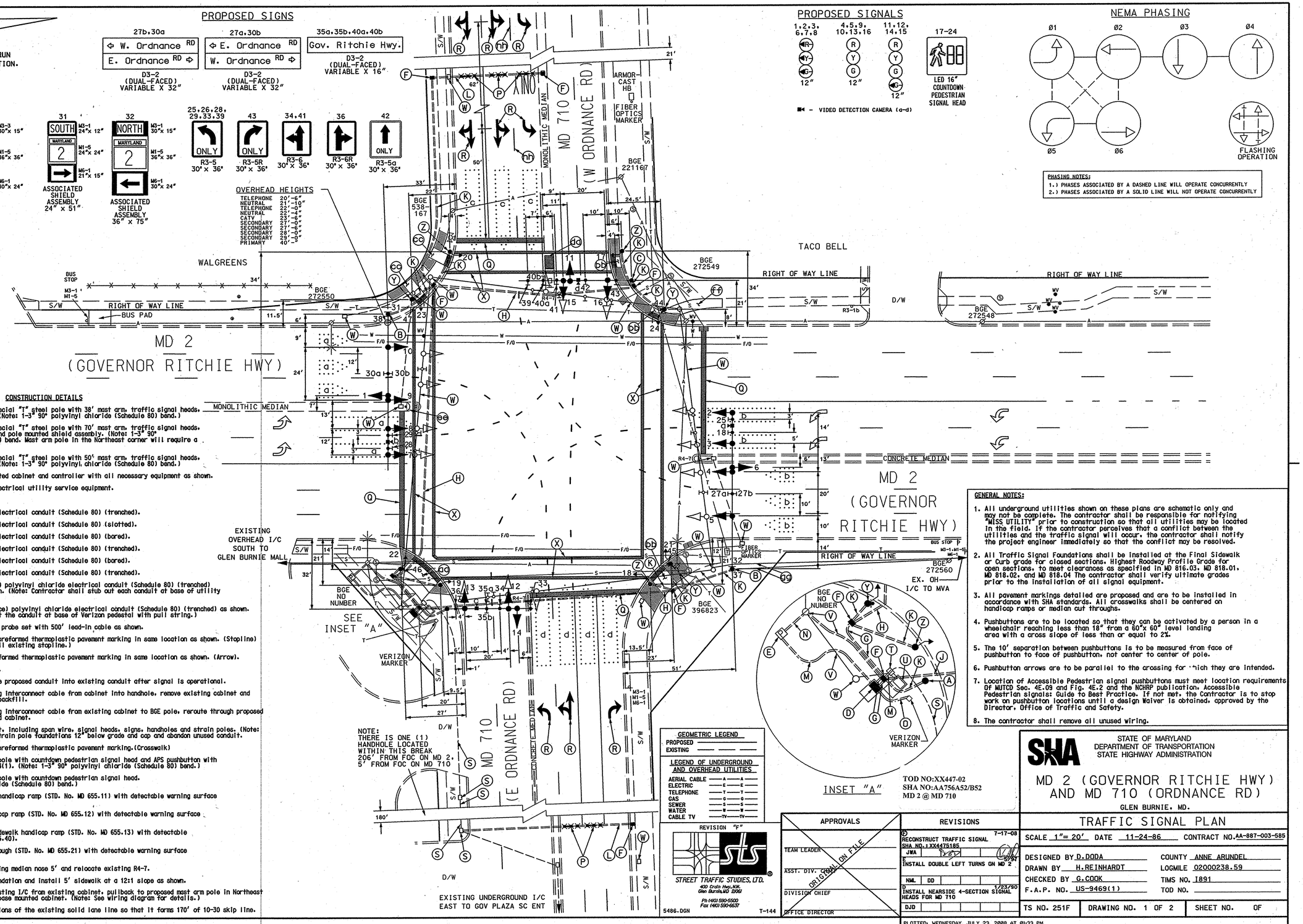
- VIDEO DETECTION CAMERA (a-d)

NEMA PHASING

Ø1 Ø2 Ø3 Ø4 Ø5 Ø6

FLASHING OPERATION

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



CONSTRUCTION DETAILS

A. Install 16' upright with 15' special "T" steel pole with 38' mast arm, traffic signal heads, signs, video detection camera. (Note: 1-3" 90° polyvinyl chloride (Schedule 80) bend.)

B. Install 16' upright with 15' special "T" steel pole with 70' mast arm, traffic signal heads, signs, video detection camera and pole mounted shield assembly. (Note: 1-3" 90° polyvinyl chloride (Schedule 80) bend. Mast arm pole in the Northeast corner will require a 3" weatherhead.)

C. Install 16' upright with 15' special "T" steel pole with 50' mast arm, traffic signal heads, signs, video detection camera. (Note: 1-3" 90° polyvinyl chloride (Schedule 80) bend.)

D. Install NEMA size "6" base-mounted cabinet and controller with all necessary equipment as shown.

E. Install metered pedestal for electrical utility service equipment.

F. Install handhole.

G. Install 4" polyvinyl chloride electrical conduit (Schedule 80) (trenched).

H. Install 4" polyvinyl chloride electrical conduit (Schedule 80) (slotted).

J. Install 4" polyvinyl chloride electrical conduit (Schedule 80) (bored).

K. Install 3" polyvinyl chloride electrical conduit (Schedule 80) (trenched).

L. Install 3" polyvinyl chloride electrical conduit (Schedule 80) (bored).

M. Install 2" polyvinyl chloride electrical conduit (Schedule 80) (trenched).

N. Install a 4" (for power service) polyvinyl chloride electrical conduit (Schedule 80) (trenched) at the base of BGE pole as shown. (Note: Contractor shall stub out each conduit at base of utility pole with pull string.)

O. Install 2" (for telephone service) polyvinyl chloride electrical conduit (Schedule 80) (trenched) as shown. (Note: Contractor shall stub out the conduit at base of Verizon pedestal with pull string.)

P. Install non-invasive micro loop probe set with 500' lead-in cable as shown.

Q. Install 24" white heat applied preformed thermoplastic pavement marking in same location as shown. (Stopline) (Note:Contractor shall remove all existing stopline.)

R. Install white heat applied preformed thermoplastic pavement marking in same location as shown. (Arrow).

S. Use existing handhole / conduit.

T. Remove existing handhole and tie proposed conduit into existing conduit after signal is operational.

U. Disconnect and pullback existing interconnect cable from cabinet into handhole, remove existing cabinet and foundation 12" below grade and backfill.

V. Disconnect and pullback existing interconnect cable from existing cabinet to BGE pole, reroute through proposed conduit and handhole to proposed cabinet.

W. Remove existing signal equipment, including span wire, signal heads, signs, handholes and strain poles. (Note: Contractor shall backfill all strain pole foundations 12" below grade and cap and abandon unused conduit.

X. Install 12" white heat applied preformed thermoplastic pavement marking.(Crosswalk)

Y. Install 10' breakaway pedestal pole with countdown pedestrian signal head and APS pushbutton with pedestrian education sign (R10-3(1). (Note: 1-3" 90° polyvinyl chloride (Schedule 80) bend.)

Z. Install 10' breakaway pedestal pole with countdown pedestrian signal head. (Note: 1-3" 90° polyvinyl chloride (Schedule 80) bend.)

aa. Install proposed perpendicular handicap ramp (STD. No. MD 655.11) with detectable warning surface (STD. No. MD 655.40).

bb. Install proposed parallel handicap ramp (STD. No. MD 655.12) with detectable warning surface (STD. No. MD 655.40).

cc. Install proposed combination sidewalk handicap ramp (STD. No. MD 655.13) with detectable warning surface (STD. No. MD 655.40).

dd. Install proposed median cut through (STD. No. MD 655.21) with detectable warning surface (STD. No. MD 655.40).

ee. Contractor shall cut back existing median nose 5' and relocate existing R4-7.

ff. Remove existing strain pole foundation and install 5' sidewalk at a 12:1 slope as shown.

gg. Contractor shall disconnect existing I/C from existing cabinet, pullback to proposed mast arm pole in Northeast corner and reroute to proposed base mounted cabinet. (Note: See wiring diagram for details.)

hh. Contractor shall grind out sections of the existing solid lane line so that it forms 170' of 10-30 skip line.

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 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.
8. The contractor shall remove all unused wiring.

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 "F"

STREET TRAFFIC STUDIES, LTD.
400 Crain Hwy. NW.
Glen Burnie, MD 21061
Ph (410) 590-5500
Fax (410) 590-6637

5486.DGN T-144

TOD NO:XX447-02
SHA NO:AA756A52/B52
MD 2 @ MD 710

STATE OF MARYLAND
DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION

MD 2 (GOVERNOR RITCHIE HWY) AND MD 710 (ORDNANCE RD)

GLEN BURNIE, MD.

TRAFFIC SIGNAL PLAN

APPROVALS	
TEAM LEADER	ORIGINAL ON FILE
ASST. DIV. CHIEF	
DIVISION CHIEF	
OFFICE DIRECTOR	

REVISIONS		
D	RECONSTRUCT TRAFFIC SIGNAL SHA NO.: XX447S185	7-17-08
JWA		
E	INSTALL DOUBLE LEFT TURNS ON MD 2	5/97
NML DD		
D	INSTALL NEARSIDE 4-SECTION SIGNAL HEADS FOR MD 710	1/23/90
DJD		

SCALE 1"= 20' DATE 11-24-86 CONTRACT NO. AA-887-003-585

DESIGNED BY D.DODA — COUNTY ANNE ARUNDEL
DRAWN BY H.REINHARDT — LOGMILE 02000238.59
CHECKED BY G.COOK — TIMS NO. 1891
F.A.P. NO. US-9469(1) — TOD NO.

TS NO. 251F | DRAWING NO. 1 OF 2 | SHEET NO. OF

PLOTTED: WEDNESDAY, JULY 23, 2008 AT 01:33 PM
FILE: J:\DATA\1891\5486.DGN