F.H.W.A. REGION NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
3	MD			

PROPOSED SIGNS

9,10
← Porter Dr
Box Hill South Pkwy →
D3-2 (Variable x 32")

11,12
← Box Hill South Pkwy
Porter Dr →
D3-2 (Variable x 32")

13,14,15,16
Emmorton Rd
D3-2 (Variable x 16")

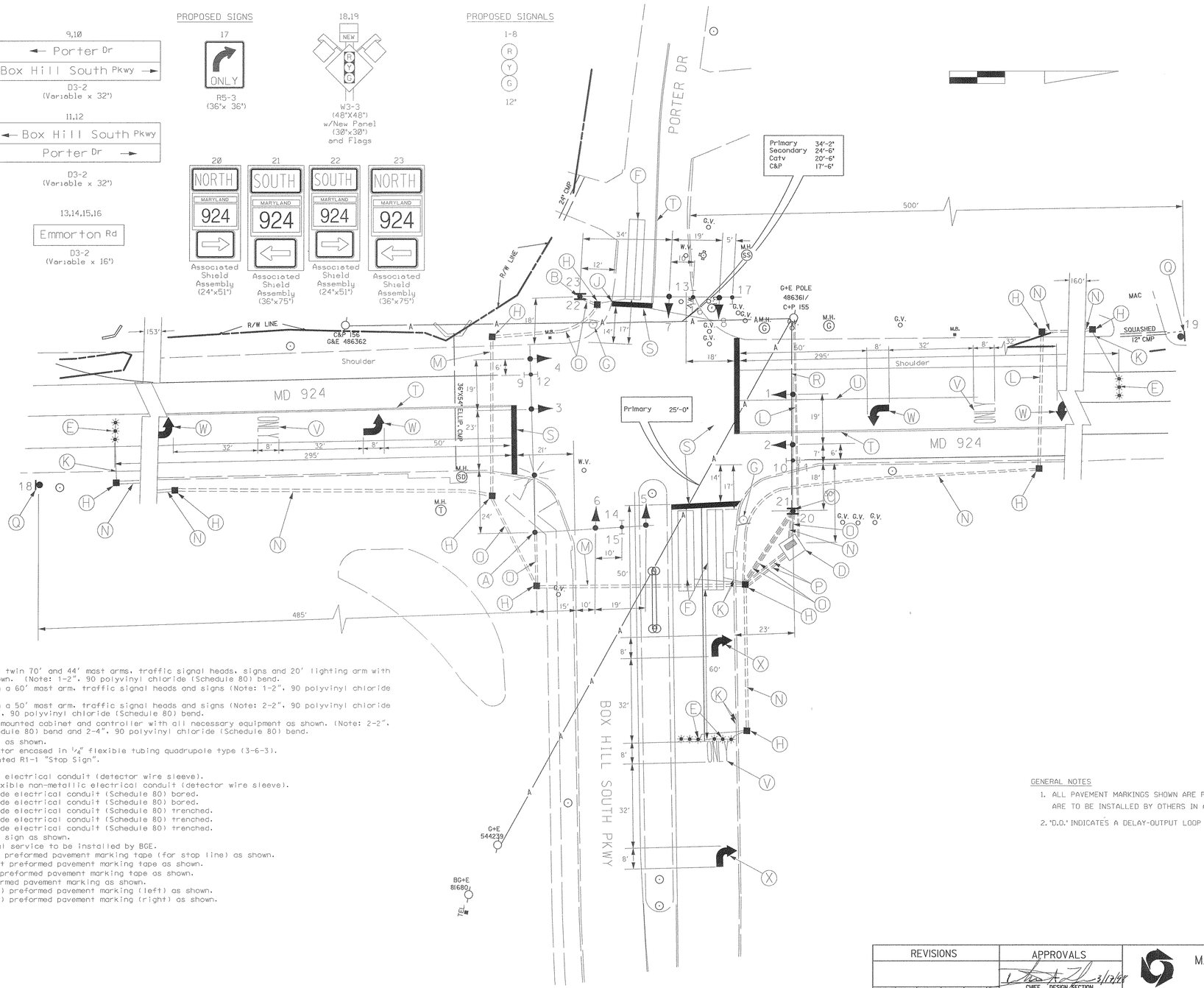
17
ONLY
R5-3 (36"x 36")

18,19
NEW
W3-3 (48"X48") w/New Panel (30"x30") and Flags

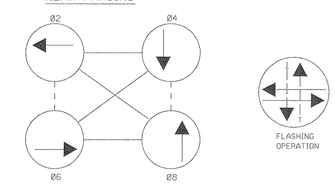
20 NORTH MARYLAND 924 — Associated Shield Assembly (24"x51")
21 SOUTH MARYLAND 924 — Associated Shield Assembly (36"x75")
22 SOUTH MARYLAND 924 — Associated Shield Assembly (24"x51")
23 NORTH MARYLAND 924 — Associated Shield Assembly (36"x75")

PROPOSED SIGNALS

1-8
R Y G
12"



NEMA PHASING



NEMA PHASING NOTES:

PHASES ASSOCIATED BY A DASHED LINE WILL OPERATE CONCURRENTLY
PHASES ASSOCIATED BY A SOLID LINE WILL NOT OPERATE CONCURRENTLY

CONSTRUCTION DETAILS

A. Install 27' steel pole with twin 70' and 44' mast arms, traffic signal heads, signs and 20' lighting arm with a 250W-HPS luminaire as shown. (Note: 1-2", 90 polyvinyl chloride (Schedule 80) bend.
B. Install 27' steel pole with a 60' mast arm, traffic signal heads and signs (Note: 1-2", 90 polyvinyl chloride (Schedule 80) bend.
C. Install 27' steel pole with a 50' mast arm, traffic signal heads and signs (Note: 2-2", 90 polyvinyl chloride (Schedule 80) bend and 1-3", 90 polyvinyl chloride (Schedule 80) bend.
D. Install NEMA size "6" base mounted cabinet and controller with all necessary equipment as shown. (Note: 2-2", 90 polyvinyl chloride (Schedule 80) bend and 2-4", 90 polyvinyl chloride (Schedule 80) bend.
E. Install microloop probe set as shown.
F. Install 6' x 30' loop detector encased in 1/4" flexible tubing quadrupole type (3-6-3).
G. Remove existing ground mounted R1-1 "Stop Sign".
H. Install handhole.
J. Install 1" galvanized steel electrical conduit (detector wire sleeve).
K. Install 1" liquid tight flexible non-metallic electrical conduit (detector wire sleeve).
L. Install 2" polyvinyl chloride electrical conduit (Schedule 80) bored.
M. Install 3" polyvinyl chloride electrical conduit (Schedule 80) bored.
N. Install 2" polyvinyl chloride electrical conduit (Schedule 80) trenched.
O. Install 3" polyvinyl chloride electrical conduit (Schedule 80) trenched.
P. Install 4" polyvinyl chloride electrical conduit (Schedule 80) trenched.
Q. Install ground mounted W3-3 sign as shown.
R. Proposed overhead electrical service to be installed by BGE.
S. Install 24" white permanent preformed pavement marking tape (for stop line) as shown.
T. Install 6" yellow permanent preformed pavement marking tape as shown.
U. Install 6" white permanent preformed pavement marking tape as shown.
V. Install "ONLY" (word) preformed pavement marking as shown.
W. Install curved arow (symbol) preformed pavement marking (left) as shown.
X. Install curved arow (symbol) preformed pavement marking (right) as shown.

EXISTING GEOMETRICS

PROPOSED GEOMETRICS

GENERAL NOTES

1. ALL PAVEMENT MARKINGS SHOWN ARE PROPOSED AND UNLESS OTHERWISE NOTED, ARE TO BE INSTALLED BY OTHERS IN ACCORDANCE WITH S.H.A. STANDARDS
2. "D.O." INDICATES A DELAY-OUTPUT LOOP DETECTOR

LEGEND OF UTILITIES

A	AERIAL
G	GAS MAIN
W	WATER MAIN
S	SEWER MAIN
E	ELECTRIC CABLES
T	TELEPHONE CABLES
C	CABLE TELEVISION

JOHNSON, MIRMIRAN & THOMPSON
Engineering A Brighter Future

REVISIONS	APPROVALS
	CHIEF, DESIGN SECTION 3/12/98
	ASST. DISTRICT ENGINEER, TRAFFIC
	CHIEF, TRAFFIC ENGINEERING DESIGN DIVISION
	DIRECTOR, TRAFFIC & SAFETY

MARYLAND DOT - STATE HIGHWAY ADMINISTRATION
Office of Traffic & Safety
TRAFFIC ENGINEERING DESIGN DIVISION

MD 924 (EMMORTON RD)
AND
BOX HILL SOUTH PKWY/PORTER DR

LOG MILE: 12092400.45

DRAWN BY: T.M.S.
CHK. BY: M. Rudler 3-17-98
SCALE: 1" = 20'
DATE: 1/98

F.A.P. NO.
S.H.A. NO. AW278A61/B61
COUNTY HARFORD

TS NO. 3789X

SHEET NO. 1 OF 2