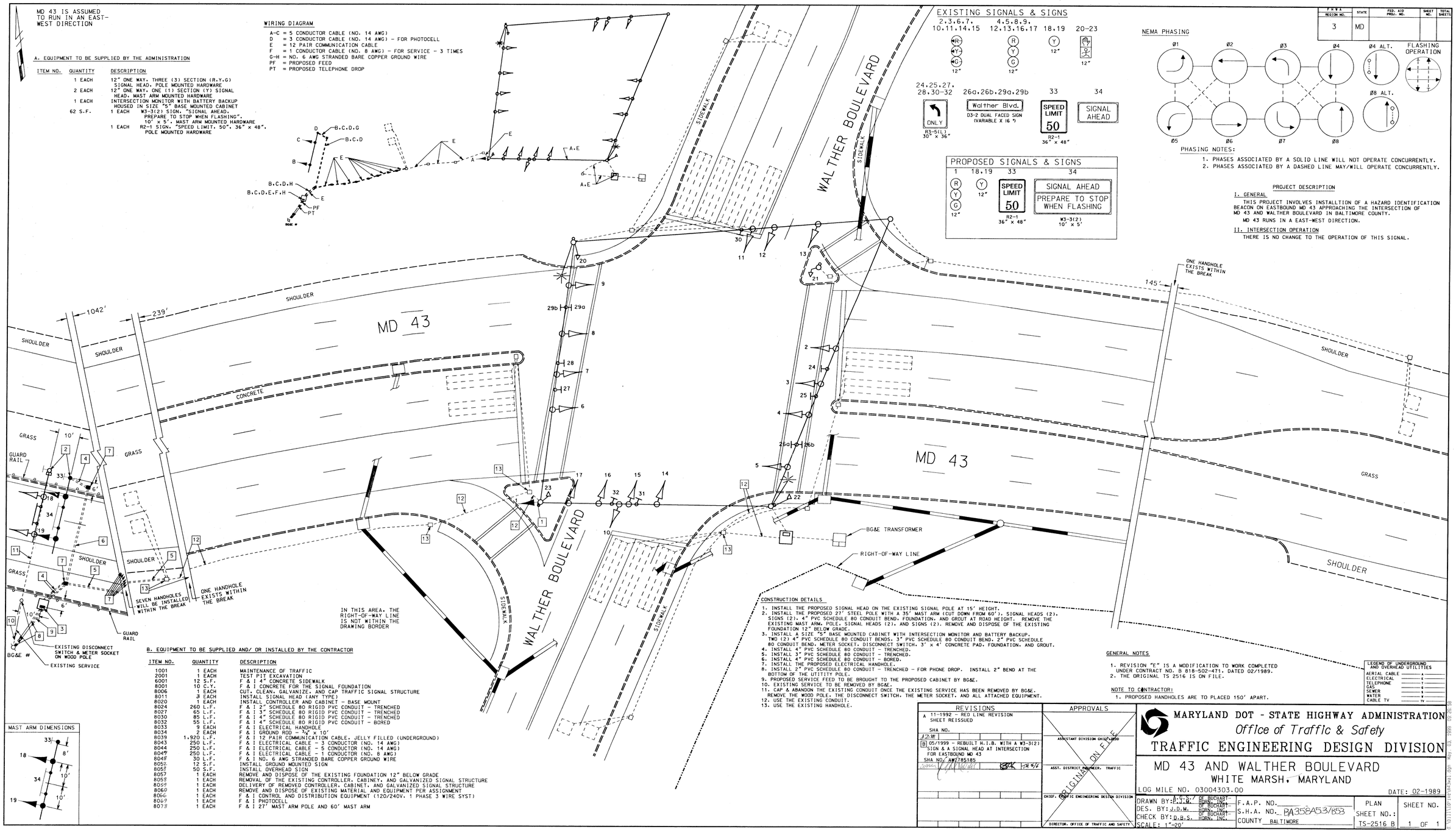
MD 43 IS ASSUMED TO RUN IN AN EAST-WEST DIRECTION

A. EQUIPMENT TO BE SUPPLIED BY THE ADMINISTRATION

ITEM NO.	QUANTITY	DESCRIPTION
	1 EACH	12" ONE WAY, THREE (3) SECTION (R,Y,G) SIGNAL HEAD, POLE MOUNTED HARDWARE
	2 EACH	12" ONE WAY, ONE (1) SECTION (Y) SIGNAL HEAD, MAST ARM MOUNTED HARDWARE
	1 EACH	INTERSECTION MONITOR WITH BATTERY BACKUP HOUSED IN SIZE "5" BASE MOUNTED CABINET
	62 S.F.	1 EACH W3-3(2) SIGN, "SIGNAL AHEAD, PREPARE TO STOP WHEN FLASHING", 10' x 5', MAST ARM MOUNTED HARDWARE
		1 EACH R2-1 SIGN, "SPEED LIMIT, 50", 36" x 48", POLE MOUNTED HARDWARE

WIRING DIAGRAM

A-C = 5 CONDUCTOR CABLE (NO. 14 AWG)
D = 3 CONDUCTOR CABLE (NO. 14 AWG) - FOR PHOTOCELL
E = 12 PAIR COMMUNICATION CABLE
F = 1 CONDUCTOR CABLE (NO. 8 AWG) - FOR SERVICE - 3 TIMES
G-H = NO. 6 AWG STRANDED BARE COPPER GROUND WIRE
PF = PROPOSED FEED
PT = PROPOSED TELEPHONE DROP



EXISTING SIGNALS & SIGNS

2,3,6,7, 10,11,14,15 — 12"
4,5,8,9, 12,13,16,17 — 12"
18,19 — 12"
20-23 — 12"
24,25,27, 28,30-32 — R3-5(L) ONLY 30" x 36"
26a,26b,29a,29b — Walther Blvd. D3-2 DUAL FACED SIGN (VARIABLE X 16")
33 — SPEED LIMIT 50, R2-1 36" x 48"
34 — SIGNAL AHEAD

PROPOSED SIGNALS & SIGNS

1 — R, Y, G 12"
18,19 — Y 12"
33 — SPEED LIMIT 50, R2-1 36" x 48"
34 — SIGNAL AHEAD / PREPARE TO STOP WHEN FLASHING, W3-3(2) 10' x 5'

NEMA PHASING

PHASING NOTES:

1. PHASES ASSOCIATED BY A SOLID LINE WILL NOT OPERATE CONCURRENTLY.
2. PHASES ASSOCIATED BY A DASHED LINE MAY/WILL OPERATE CONCURRENTLY.

PROJECT DESCRIPTION

I. GENERAL

THIS PROJECT INVOLVES INSTALLTION OF A HAZARD IDENTIFICATION BEACON ON EASTBOUND MD 43 APPROACHING THE INTERSECTION OF MD 43 AND WALTHER BOULEVARD IN BALTIMORE COUNTY.

MD 43 RUNS IN A EAST-WEST DIRECTION.

II. INTERSECTION OPERATION

THERE IS NO CHANGE TO THE OPERATION OF THIS SIGNAL.

B. EQUIPMENT TO BE SUPPLIED AND/ OR INSTALLED BY THE CONTRACTOR

ITEM NO.	QUANTITY	DESCRIPTION
1001	1 EACH	MAINTENANCE OF TRAFFIC
2001	1 EACH	TEST PIT EXCAVATION
6001	12 S.F.	F & I 4" CONCRETE SIDEWALK
8001	10 C.Y.	F & I CONCRETE FOR THE SIGNAL FOUNDATION
8006	1 EACH	CUT, CLEAN, GALVANIZE, AND CAP TRAFFIC SIGNAL STRUCTURE
8011	3 EACH	INSTALL SIGNAL HEAD (ANY TYPE)
8020	1 EACH	INSTALL CONTROLLER AND CABINET - BASE MOUNT
8024	260 L.F.	F & I 2" SCHEDULE 80 RIGID PVC CONDUIT - TRENCHED
8027	65 L.F.	F & I 3" SCHEDULE 80 RIGID PVC CONDUIT - TRENCHED
8030	85 L.F.	F & I 4" SCHEDULE 80 RIGID PVC CONDUIT - TRENCHED
8032	55 L.F.	F & I 4" SCHEDULE 80 RIGID PVC CONDUIT - BORED
8033	9 EACH	F & I ELECTRICAL HANDHOLE
8034	2 EACH	F & I GROUND ROD - 3/4" x 10'
8039	1,920 L.F.	F & I 12 PAIR COMMUNICATION CABLE, JELLY FILLED (UNDERGROUND)
8043	250 L.F.	F & I ELECTRICAL CABLE - 3 CONDUCTOR (NO. 14 AWG)
8044	250 L.F.	F & I ELECTRICAL CABLE - 5 CONDUCTOR (NO. 14 AWG)
8047	250 L.F.	F & I ELECTRICAL CABLE - 1 CONDUCTOR (NO. 8 AWG)
8048	30 L.F.	F & I NO. 6 AWG STRANDED BARE COPPER GROUND WIRE
8052	12 S.F.	INSTALL GROUND MOUNTED SIGN
8055	50 S.F.	INSTALL OVERHEAD SIGN
8057	1 EACH	REMOVE AND DISPOSE OF THE EXISTING FOUNDATION 12" BELOW GRADE
8058	1 EACH	REMOVAL OF THE EXISTING CONTROLLER, CABINET, AND GALVANIZED SIGNAL STRUCTURE
8059	1 EACH	DELIVERY OF REMOVED CONTROLLER, CABINET, AND GALVANIZED SIGNAL STRUCTURE
8060	1 EACH	REMOVE AND DISPOSE OF EXISTING MATERIAL AND EQUIPMENT PER ASSIGNMENT
8066	1 EACH	F & I CONTROL AND DISTRIBUTION EQUIPMENT (120/240V, 1 PHASE 3 WIRE SYST)
8067	1 EACH	F & I PHOTOCELL
8073	1 EACH	F & I 27' MAST ARM POLE AND 60' MAST ARM

MAST ARM DIMENSIONS

CONSTRUCTION DETAILS

1. INSTALL THE PROPOSED SIGNAL HEAD ON THE EXISTING SIGNAL POLE AT 15' HEIGHT.
2. INSTALL THE PROPOSED 27' STEEL POLE WITH A 35' MAST ARM (CUT DOWN FROM 60'). SIGNAL HEADS (2), SIGNS (2), 4" PVC SCHEDULE 80 CONDUIT BEND, FOUNDATION, AND GROUT AT ROAD HEIGHT. REMOVE THE EXISTING MAST ARM, POLE, SIGNAL HEADS (2), AND SIGNS (2). REMOVE AND DISPOSE OF THE EXISTING FOUNDATION 12" BELOW GRADE.
3. INSTALL A SIZE "5" BASE MOUNTED CABINET WITH INTERSECTION MONITOR AND BATTERY BACKUP. TWO (2) 4" PVC SCHEDULE 80 CONDUIT BENDS, 3" PVC SCHEDULE 80 CONDUIT BEND, 2" PVC SCHEDULE 80 CONDUIT BEND, METER SOCKET, DISCONNECT SWITCH, 3' x 4' CONCRETE PAD, FOUNDATION, AND GROUT.
4. INSTALL 4" PVC SCHEDULE 80 CONDUIT - TRENCHED.
5. INSTALL 3" PVC SCHEDULE 80 CONDUIT - TRENCHED.
6. INSTALL 4" PVC SCHEDULE 80 CONDUIT - BORED.
7. INSTALL THE PROPOSED ELECTRICAL HANDHOLE.
8. INSTALL 2" PVC SCHEDULE 80 CONDUIT - TRENCHED - FOR PHONE DROP. INSTALL 2" BEND AT THE BOTTOM OF THE UTILITY POLE.
9. PROPOSED SERVICE FEED TO BE BROUGHT TO THE PROPOSED CABINET BY BG&E.
10. EXISTING SERVICE TO BE REMOVED BY BG&E.
11. CAP & ABANDON THE EXISTING CONDUIT ONCE THE EXISTING SERVICE HAS BEEN REMOVED BY BG&E. REMOVE THE WOOD POLE. THE DISCONNECT SWITCH, THE METER SOCKET, AND ALL ATTACHED EQUIPMENT.
12. USE THE EXISTING CONDUIT.
13. USE THE EXISTING HANDHOLE.

GENERAL NOTES

1. REVISION "E" IS A MODIFICATION TO WORK COMPLETED UNDER CONTRACT NO. B 818-502-471, DATED 02/1989.
2. THE ORIGINAL TS 2516 IS ON FILE.

NOTE TO CONTRACTOR:

1. PROPOSED HANDHOLES ARE TO PLACED 150' APART.

LEGEND OF UNDERGROUND AND OVERHEAD UTILITIES

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

REVISIONS

A 11-1992 - RED LINE REVISION SHEET REISSUED
SHA NO.
B 05/1999 - REBUILT H.T.B. WITH A W3-3(2) SIGN & A SIGNAL HEAD AT INTERSECTION FOR EASTBOUND MD 43
SHA NO. AW785185

APPROVALS

ASSISTANT DIVISION CHIEF, ROAD
ASST. DISTRICT ENGINEER, TRAFFIC
CHIEF, TRAFFIC ENGINEERING DESIGN DIVISION
DIRECTOR, OFFICE OF TRAFFIC AND SAFETY

BLOCK ON FILE

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

MD 43 AND WALTHER BOULEVARD
WHITE MARSH, MARYLAND

LOG MILE NO. 03004303.00
DATE: 02-1989

DRAWN BY: A.S.S./ BE BUCHART-HORN, INC.
DES. BY: J.D.M. BE BUCHART-HORN, INC.
CHECK BY: D.B.S. BE BUCHART-HORN, INC.
SCALE: 1"=20'

F.A.P. NO.
S.H.A. NO. BA358A53/B53
COUNTY BALTIMORE

PLAN SHEET NO.: TS-2516 B

SHEET NO. 1 OF 1

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

BE 02-02-1999 10:49am r:\bsm\ts2516\ts2516_0