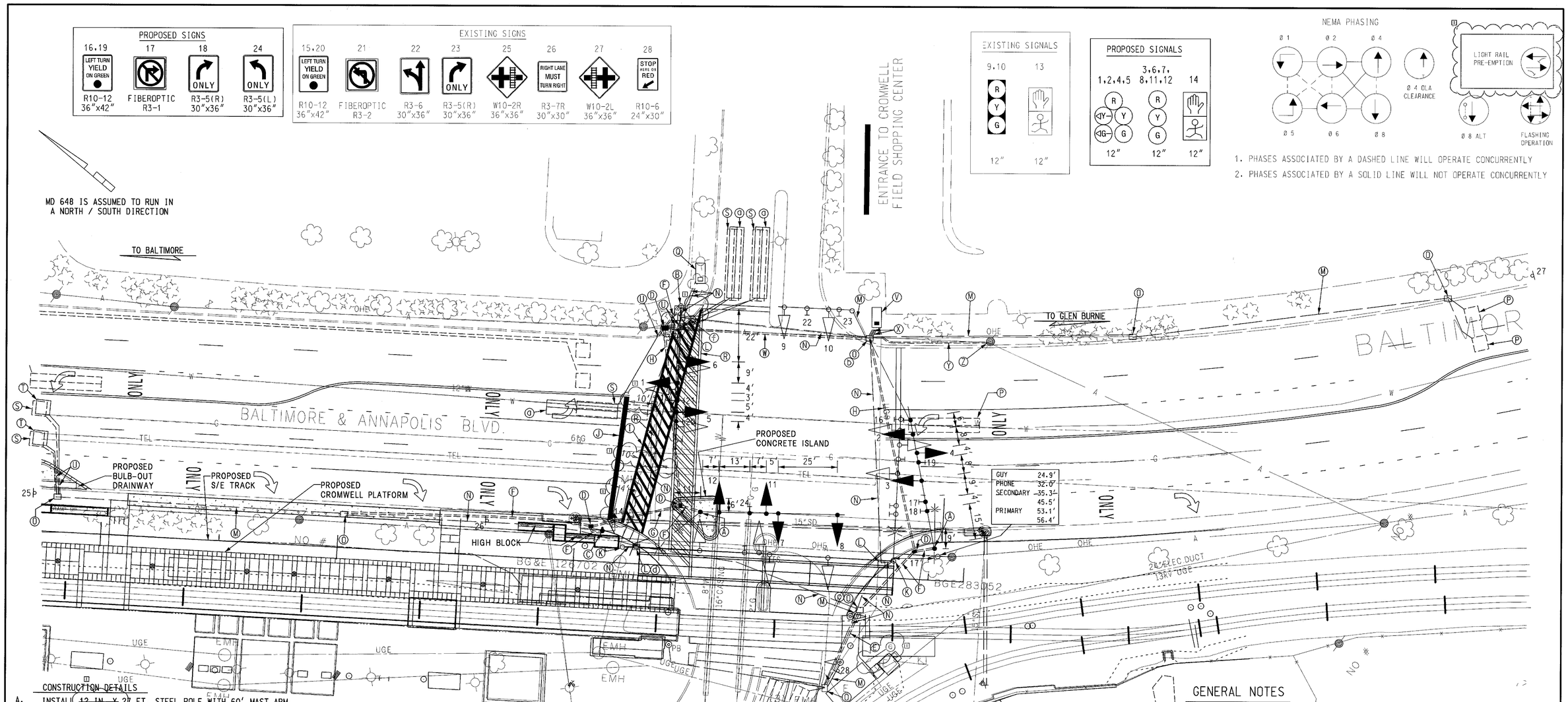

CONSTRUCTION DETAILS

A. INSTALL 12 IN. X 27 FT. STEEL POLE WITH 60' MAST ARM, TRAFFIC SIGNAL HEADS, SIGNS, 10' BRACKET ARM AND LUMINAIRE, AS SHOWN (NOTE: 1-3" SCHEDULE 80 PVC 90 DEGREE CONDUIT BEND).

B. INSTALL 1-3" PVC 90 DEGREE CONDUIT BEND, BLACK FACED SIGNAL HEADS ON EXISTING MAST ARM, NEW PUSHBUTTON & SIGN, REMOVE EXISTING SIGNAL HEADS, ABANDON OVERHEAD POWER SERVICE AND RELOCATE ALL EXISTING SIGNS, AS SHOWN.

C. INSTALL 10' PEDESTAL POLE WITH PEDESTRIAN SIGNAL HEADS, PUSHBUTTON AND SIGNS (NOTE: 1-3" PVC 90 DEGREE CONDUIT BEND)

D. INSTALL HANDHOLE.

E. INSTALL 3" SCHEDULE 80 PVC ELECTRICAL CONDUIT - BORED.

F. INSTALL 3" SCHEDULE 80 PVC ELECTRICAL CONDUIT - TRENCHED.

G. INSTALL 3" SCHEDULE 80 PVC ELECTRICAL CONDUIT - SLOTTED.

H. INSTALL 4" SCHEDULE 80 PVC ELECTRICAL CONDUIT - SLOTTED.

I. INSTALL 12" THERMOPLASTIC PAVEMENT MARKING TAPE (CROSSWALK).

J. INSTALL 24" THERMOPLASTIC PAVEMENT MARKING TAPE (STOP BAR).

K. REMOVE STEEL POLE, SIGNS, SIGNAL HEADS AND ALL ASSOCIATED EQUIPMENT. RELOCATE FIBEROPTIC SIGN TO NEW MAST ARM.

L. REMOVE EXISTING ELECTRICAL HANDHOLE.

M. USE EXISTING CONDUIT.

N. ABANDON EXISTING CONDUIT.

O. USE EXISTING HANDHOLE.

P. EXISTING LOOP DETECTOR.

Q. REMOVE EXISTING CONTROLLER AND CABINET.

R. REMOVE EXISTING PAVEMENT MARKING.

S. ABANDON EXISTING LOOP DETECTOR.

T. INSTALL 6' X 6' LOOP DETECTOR ENCASED IN 1/4" FLEXIBLE TUBING (4-TURNS).

U. INSTALL 1" LIQUID-TIGHT, FLEXIBLE NON-METALLIC ELECTRICAL CONDUIT (DETECTOR WIRE SLEEVE).

V. INSTALL NEMA SIZE 6 BASE MOUNTED CONTROLLER AND CABINET (2-4" AND 2-2" PVC 90 DEGREE CONDUIT BENDS) WITH CONTROL AND DISTRIBUTION.

W. INSTALL 4" SCHEDULE 80 PVC ELECTRICAL CONDUIT - BORED.

X. INSTALL 4" SCHEDULE 80 PVC ELECTRICAL CONDUIT - TRENCHED.

Y. INSTALL 2" SCHEDULE 80 PVC ELECTRICAL CONDUIT - TRENCHED.

Z. INSTALL 2" SCHEDULE 80 PVC 90 DEGREE CONDUIT BEND.

a. INSTALL 6' X 30' QUADRUPOLE LOOP DETECTOR ENCASED IN 1/4" FLEXIBLE TUBING (3-6-3 TURNS).

b. PULL EXISTING LOOP WIRE AND SIGNAL WIRE (HEADS 9 & 10) INTO HANDBOX AND RE-ROUTE TO NEW CONTROLLER.

c. SPLICE NEW LIGHT RAIL PRE-EMPTION CABLE TO EXISTING CABLE.

d. FILL HANDHOLE/DIRECT BURY EXISTING MTA CABLE.

e. EXISTING LIGHTRAIL PRE-EMPTION CABLE.

f. INSTALL 5" CONCRETE HANDICAP RAMP IN ACCORDANCE WITH MARYLAND SHA STD. NOS. MD 655.11-655.16.

GENERAL NOTES

1. PAVEMENT MARKINGS ARE NOT TO BE INSTALLED UNTIL LOOP DETECTORS AND CONDUIT INSTALLATION ARE COMPLETE.
2. THE CONTRACTOR SHALL CONFIRM GEOMETRICS PRIOR TO THE INSTALLATION OF THE SIGNAL EQUIPMENT.
3. PAVEMENT MARKINGS DETAILED ARE PROPOSED AND SHALL BE INSTALLED BY THE CONTRACTOR IN ACCORDANCE WITH S.H.A. STANDARDS.
4. SEE PAVEMENT MARKING SHEETS FOR ADDITIONAL STRIPING.
5. STREET NAME AND ROUTE MARKER SIGNS ARE TO BE INSTALLED PARALLEL TO THE ROADWAY.
6. ALL SIGNAL EQUIPMENT TO BE INSTALLED TO FINAL GRADE.
7. ALL UNDER GROUND AND OVERHEAD UTILITIES SHOWN ON THESE PLANS ARE SCHEMATIC AND MAY NOT BE COMPLETE. THE CONTRACTOR SHALL NOTIFY MISS UTILITY PRIOR TO THE CONSTRUCTION SO THAT ALL UTILITIES MAY BE LOCATED IN THE FIELD. IF THE CONTRACTOR PERCEIVES THAT A CONFLICT BETWEEN UTILITIES AND THE TRAFFIC SIGNAL WILL OCCUR, THE CONTRACTOR SHALL NOTIFY THE PROJECT ENGINEER IMMEDIATELY SO THAT THE CONFLICT MAY BE RESOLVED.
8. EXISTING FIBEROPTIC SIGNS AND MTA PREEMTION PUSHBUTTONS MUST BE MAINTAINED DURING CONSTRUCTION.
9. SIGNAL POLE NOT TO BE INSTALLED UNTIL PROPOSED CONCRETE ISLAND IS CONSTRUCTED.

C-59

UTILITY LEGEND

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

JOHNSON, MIRMIRAN & THOMPSON
Engineering A Brighter Future
72 Loveton Circle Baltimore, Maryland 21152-0949

REVISIONS

D	MODIFY FLAG PER SHA COMMENTS	DSU	10-17-03
C	11/01 REBUILD SIGNAL DUE TO GEOMETRIC IMPROVEMENTS, MTA - T-0492-0440		
B	2/93 REBUILD SIGNAL DUE TO GEOMETRIC IMPROVEMENTS, MTA - 23-9-520		
A	5/92 MODIFY SIGNAL DUE TO GEOMETRIC IMPROVEMENTS, MTA - 23-9-520		

APPROVALS

TEAM LEADER, TRAFFIC ENGINEERING DESIGN DIVISION

ASST. CHIEF, TRAFFIC ENGINEERING DESIGN DIVISION

CHIEF, TRAFFIC ENGINEERING DESIGN DIVISION

DIRECTOR, TRAFFIC & SAFETY

ORIGINAL ON FILE

MARYLAND DOT - STATE HIGHWAY ADMINISTRATION
Office of Traffic & Safety

TRAFFIC ENGINEERING DESIGN DIVISION
TRAFFIC SIGNAL
MD 648 & SOUTH ENTRANCE TO CROMWELL FIELD SHOPPING CENTER / M.T.A. PARK AND RIDE

DRAWN BY:	B. THOMPSON	F.A.P. NO.		TS NO. 2298 C	SHEET NO. 162 OF 517
CHECKED BY:	DENNIS DODA	S.H.A. NO.	BW-920-801-512		
SCALE:	1" = 20'	COUNTY:	ANNE ARUNDEL	T.I.M.S. NO. E97Z	
DATE:	REDRAWN 5-22-91	LOG MILE:	02E64804.00		

DATE: 10/27/2003 mi:\cbltrk\0492c59 CN.dgn