F H W A REGION NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
3	MD	SEE TITLE SHEET	367	465

CONSTRUCTION DETAILS

PHASE III

A. INSTALL NEMA SIZE 6 BASE MOUNTED CABINET / CONTROLLER WITH ALL SYSTEM EQUIPMENT (NOTE: TWO 4 IN., 90-DEGREE (SCH.40.) BENDS, ONE 2 IN., 90-DEGREE (SCH.40) PVC BEND, AND ONE 2 IN., 90-DEGREE (SCH.80) PVC BEND.)

B. INSTALL 12 IN. X 30 FT. STEEL STRAIN POLE WITH 20 FT. LIGHTING ARM WITH A 250 WATT HPS LAMP AND LUMINAIRE, AND ALL NECESSARY EQUIPMENT FOR AN OVERHEAD ELECTRICAL SERVICE (NOTE: TWO 3 IN., 90-DEGREE (SCH.40) PVC BENDS, AND ON 2 IN., 90-DEGREE (SCH.80) PVC BEND AND A 3 IN. WEATHERHEAD.) [USE FOUR 1-3/4 IN. X 90 IN. ANCHOR BOLTS].

C. INSTALL 12 IN. X 30 FT. STEEL STRAIN POLE WITH 15 FT. LIGHTING ARM WITH A 250 WATT HPS LAMP AND LUMINAIRE (NOTE: ONE 2 IN., 90-DEGREE (SCH.40)PVC BEND AND A 3 IN. WEATHERHEAD.) [USE FOUR 1-3/4 IN. X 90 IN. ANCHOR BOLTS].

D. INSTALL HANDHOLE.

I ~~E. INSTALL 1 IN. LIQUID TIGHT, NON-METALLIC CONDUIT FOR LOOP DETECTOR SLEEVE.~~

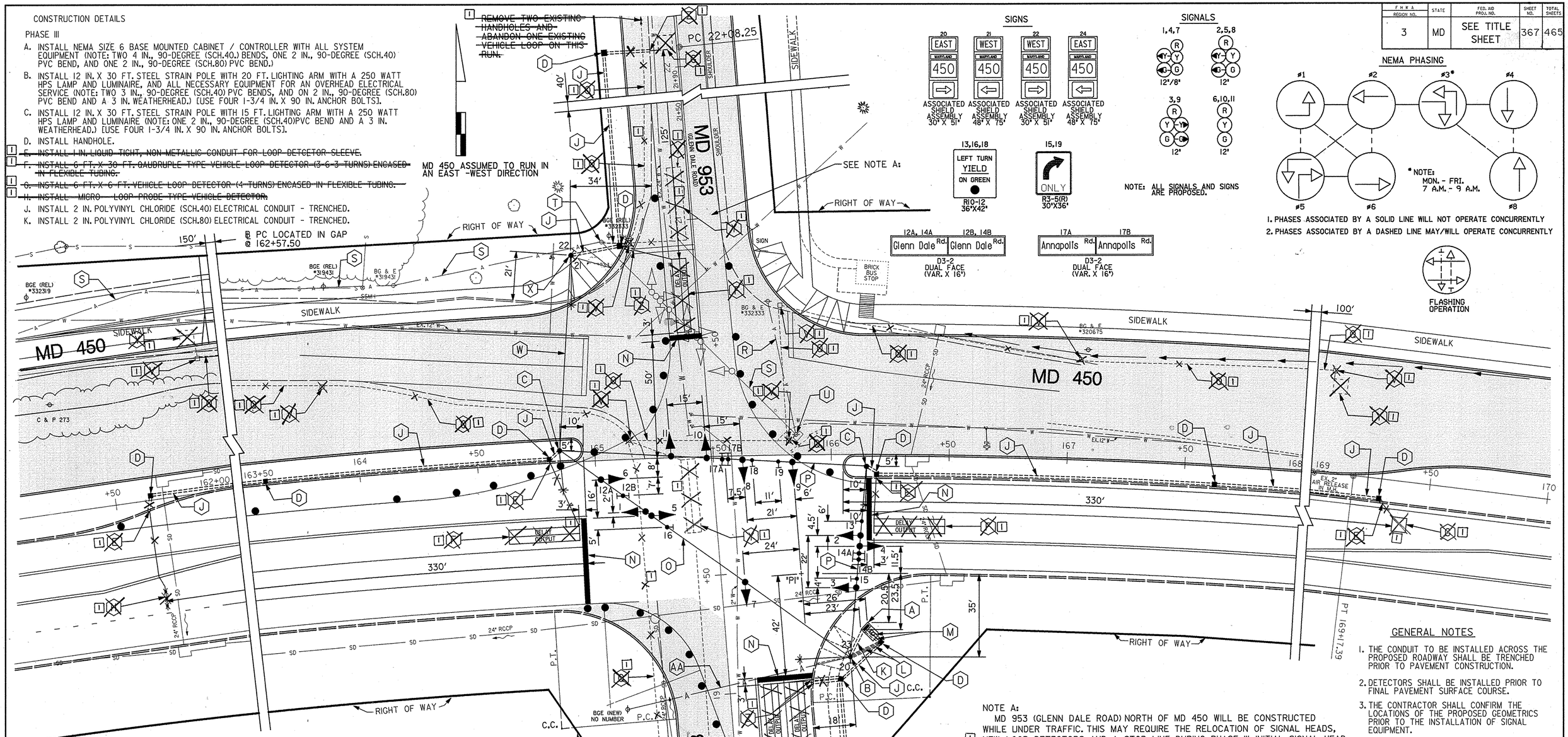
I ~~F. INSTALL 6 FT. X 30 FT. QAUDRUPLE TYPE VEHICLE LOOP DETECTOR (3-6-3 TURNS) ENCASED IN FLEXIBLE TUBING.~~

I ~~G. INSTALL 6 FT. X 6 FT. VEHICLE LOOP DETECTOR (4 TURNS) ENCASED IN FLEXIBLE TUBING.~~

I ~~H. INSTALL MICRO - LOOP PROBE TYPE VEHICLE DETECTOR.~~

J. INSTALL 2 IN. POLYVINYL CHLORIDE (SCH.40) ELECTRICAL CONDUIT - TRENCHED.

K. INSTALL 2 IN. POLYVINYL CHLORIDE (SCH.80) ELECTRICAL CONDUIT - TRENCHED.



SIGNS

SIGNALS

NOTE: ALL SIGNALS AND SIGNS ARE PROPOSED.

NEMA PHASING

*NOTE:
MON. - FRI.
7 A.M. - 9 A.M.

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

FLASHING OPERATION

L. INSTALL 3 IN. POLYVINYL CHLORIDE (SCH. 40) ELECTRICAL CONDUIT - TRENCHED.
M. INSTALL 4 IN. POLYVINYL CHLORIDE (SCH. 40) ELECTRICAL CONDUIT - TRENCHED.
N. INSTALL 24 IN. PREFORMED WHITE PAVEMENT MARKING FOR STOP LINE.
O. INSTALL 3/8 IN. STEEL SPAN WIRE, 1/4 IN. STEEL TETHER WIRE, VEHICLE SIGNAL HEADS AND SIGNS AS SHOWN. (NOTE: TETHER 5-SECTION VEHICLE SIGNAL HEADS AND SIGNS.)
P. INSTALL 3/8 IN. STEEL SPAN WIRE, 1/4 IN. STEEL TETHER WIRE, VEHICLE SIGNAL HEADS AND SIGNS AS SHOWN. (NOTE: PROVIDE APPROXIMATELY 50 FT. OF ADDITIONAL ELECTRICAL CABLE FOR EAHC SIGNAL HEAD FOR USE DURING ROADWAY CONSTRUCTION PHASING/STAGING AND TETHER 5-SECTION VEHICLE SIGNAL HEADS AND SIGNS.)
I ~~Q. CAP AND ABANDON OR REMOVE EXISTING CONDUIT.~~
R. REMOVE EXISTING ELECTRICAL SERVICE.
S. REMOVE EXISTING SPAN WIRE AND ALL ATTACHED EQUIPMENT.
T. REMOVE EXISTING WOOD POLE AND ALL ATTACHED EQUIPMENT.
I U. REMOVE EXISTING WOOD POLE, POLE-MOUNTED CABINET/CONTROLLER AND ALL ATTACHED EQUIPMENT.
I ~~V. REMOVE EXISTING HANDHOLE.~~
W. INSTALL 3/8 IN. STEEL SPAN WIRE.
X. INSTALL 12 IN. X 30 FT. STEEL STRAIN POLE WITH 20 FT. LIGHTING ARM WITH A 250-WATT HPS LAMP AND LUMINAIRE. (NOTE: ONE 2 IN., 90-DEGREE (SCH. 40) PVC BEND AND A 3 IN. WEATHERHEAD) [USE FOUR 1-3/4 X 90 IN. ANCHOR BOLTS]
I ~~Y. ABANDON EXISTING VEHICLE LOOP.~~
I ~~Z. INSTALL 1 IN. GALVANIZED STEEL CONDUIT FOR LOOP DETECTOR LEAD IN.~~
AA. OVERHEAD POWER SUPPLY BY BGE.

NOTE A:
MD 953 (GLENN DALE ROAD) NORTH OF MD 450 WILL BE CONSTRUCTED WHILE UNDER TRAFFIC. THIS MAY REQUIRE THE RELOCATION OF SIGNAL HEADS, I ~~NEW LOOP DETECTORS~~ AND A STOP LINE DURING PHASE III. INITIAL SIGNAL HEAD LOCATION IS FOR THE INITIAL CONDITIONS. THE CONTRACTOR SHALL OBTAIN APPROVAL FROM THE ENGINEER PRIOR TO ANY CHANGES.

GENERAL NOTES

1. THE CONDUIT TO BE INSTALLED ACROSS THE PROPOSED ROADWAY SHALL BE TRENCHED PRIOR TO PAVEMENT CONSTRUCTION.
2. DETECTORS SHALL BE INSTALLED PRIOR TO FINAL PAVEMENT SURFACE COURSE.
3. THE CONTRACTOR SHALL CONFIRM THE LOCATIONS OF THE PROPOSED GEOMETRICS PRIOR TO THE INSTALLATION OF SIGNAL EQUIPMENT.
4. FOR THE LOCATION OF THE "ARROW" AND "ONLY" PAVEMENT MARKINGS AND SIGNS, SEE THE TRAFFIC CONTROL PLAN TCP-44.
5. ALL POLE AND CABINET FOUNDATIONS AND HANDHOLES SHALL BE INSTALLED AT FINAL GRADE.

LEGEND OF UNDERGROUND AND OVERHEAD UTILITIES

AERIAL CABLES	A
ELECTRICAL	E
TELEPHONE	T
GAS	G
SEWER	S
WATER	W
STORM DRAIN	SD
CABLE TV	TV

I RED LINE REV. NO. 1
7-14-97

REVISIONS
© AUGUST 1996 - WTB MODIFY EXISTING SIGNAL SHA NO. PG9005171
JDM [illegible] [illegible] [illegible] [illegible]
® 2/91 CHANGE SIGNALS TO POLYCARBONATE, ADJUST SPAN SHA NO. 855-2503.039
JT SR ETP TH
Ⓐ INTSTALL E/P LEFT TURN FOR NB MD 953
DBD SR DZ ETP TH

APPROVALS

ASST. DIVISION CHIEF, TEDD

ASST. DISTRICT ENGINEER, TRAFFIC

CHIEF, TRAFFIC ENGINEERING DESIGN DIVISION

DIRECTOR, OFFICE OF TRAFFIC & SAFETY

ORIGINAL ON FILE

THE WILSON T. BALLARD CO.
CONSULTING ENGINEERS
OWINGS MILLS, MARYLAND

TEMPORARY SIGNAL PHASE III

DWG. NO. TS - 21

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

MD 450 (ANNAPOLIS ROAD) AT MD 953 (GLENN DALE ROAD)

LOG MILE NO. 160450 7.9 DATE 9 / - / 90

DRAWN BY: D. DICKERSON (9-90)	F.A.P. NO. N/A	PLAN SHEET NO.:	SHEET NO.
CHECK BY: N/A	S.H.A. NO. N/A		
SCALE: 1" = 20'	COUNTY PRINCE GEORGES	TS-3083C-X2-P	367 OF 465

FILE NO. SSP2TS450.DGN
03/06/96 SPP