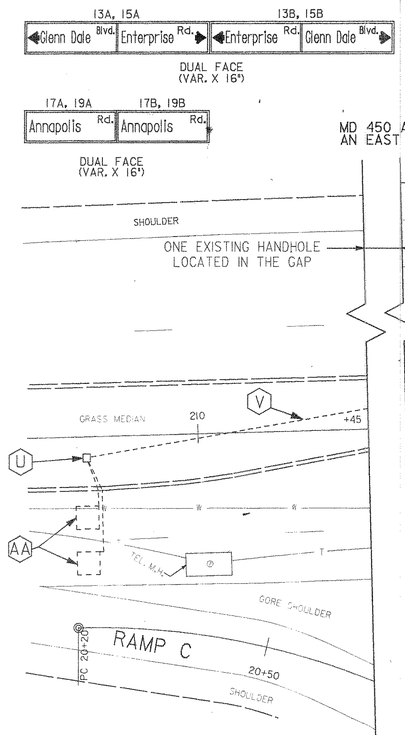
F.H.W.A. REGION NO.	STATE	F.A.P. NO.	SHEET NO.	TOTAL SHEETS
3	MD	SEE TITLE SHEET	373	465

PHASE II CONSTRUCTION DETAILS

A. INSTALL BASE MOUNTED CABINET/CONTROLLER WITH ALL NECESSARY EQUIPMENT (NOTE: TWO 4 IN., 90-DEGREE (SCH. 40) PVC BENDS, ONE 3 IN., 90-DEGREE (SCH. 40) PVC BEND AND ONE 2 IN., 90-DEGREE (SCH. 80) PVC BAND)
B. INSTALL 12 IN. X 32 FT. (2-PLY) STEEL STRAIN POLE WITH 15 FT. LIGHTING ARM WITH A 250-WATT HPS LAMP AND LUMINAIRE (NOTE: TWO 3 IN., 90-DEGREE (SCH. 40) PVC BENDS AND ONE 3 IN. WEATHERHEAD) [USE FOUR 1-3/4 IN. X 96 IN. ANCHOR BOLTS]
C. INSTALL 12 IN. X 32 FT. (2-PLY) STEEL STRAIN POLE WITH 20 FT. LIGHTING ARM WITH A 250-WATT HPS LAMP AND LUMINAIRE (NOTE: ONE 3 IN., 90-DEGREE (SCH. 40) PVC BEND AND ONE 3 IN. WEATHERHEAD) [USE FOUR 1-3/4 X 96 IN ANCHOR BOLTS]
D. INSTALL HANDHOLE.
E. INSTALL 1 IN. LIQUID TIGHT, NON-METALLIC CONDUIT FOR LOOP DETECTOR SLEEVE.
F. INSTALL 2 IN. POLYVINYL CHLORIDE (SCH. 40) ELECTRICAL CONDUIT - TRENCHED.
G. INSTALL HANDHOLE. (NOTE: COIL 100 FT. OF 2-CONDUCTOR (ALUMINUM SHIELDED) ELECTRICAL CABLE FOR EACH LOOP FOR USE IN PHASE IV.)
H. INSTALL 2 IN. POLYVINYL CHLORIDE (SCH. 80) ELECTRICAL CONDUIT - SLOTTED.
J. INSTALL 3 IN. POLYVINYL CHLORIDE (SCH. 40) ELECTRICAL CONDUIT - TRENCHED.
K. INSTALL 3 IN. POLYVINYL CHLORIDE (SCH. 80) ELECTRICAL CONDUIT - SLOTTED.
L. INSTALL 4 IN. POLYVINYL CHLORIDE (SCH. 40) ELECTRICAL CONDUIT - TRENCHED.
M. INSTALL 6 FT. X 30 FT. QUADRUPOLE-TYPE VEHICLE LOOP DETECTOR (3-6-3 TURNS) ENCASED IN FLEXIBLE TUBING.

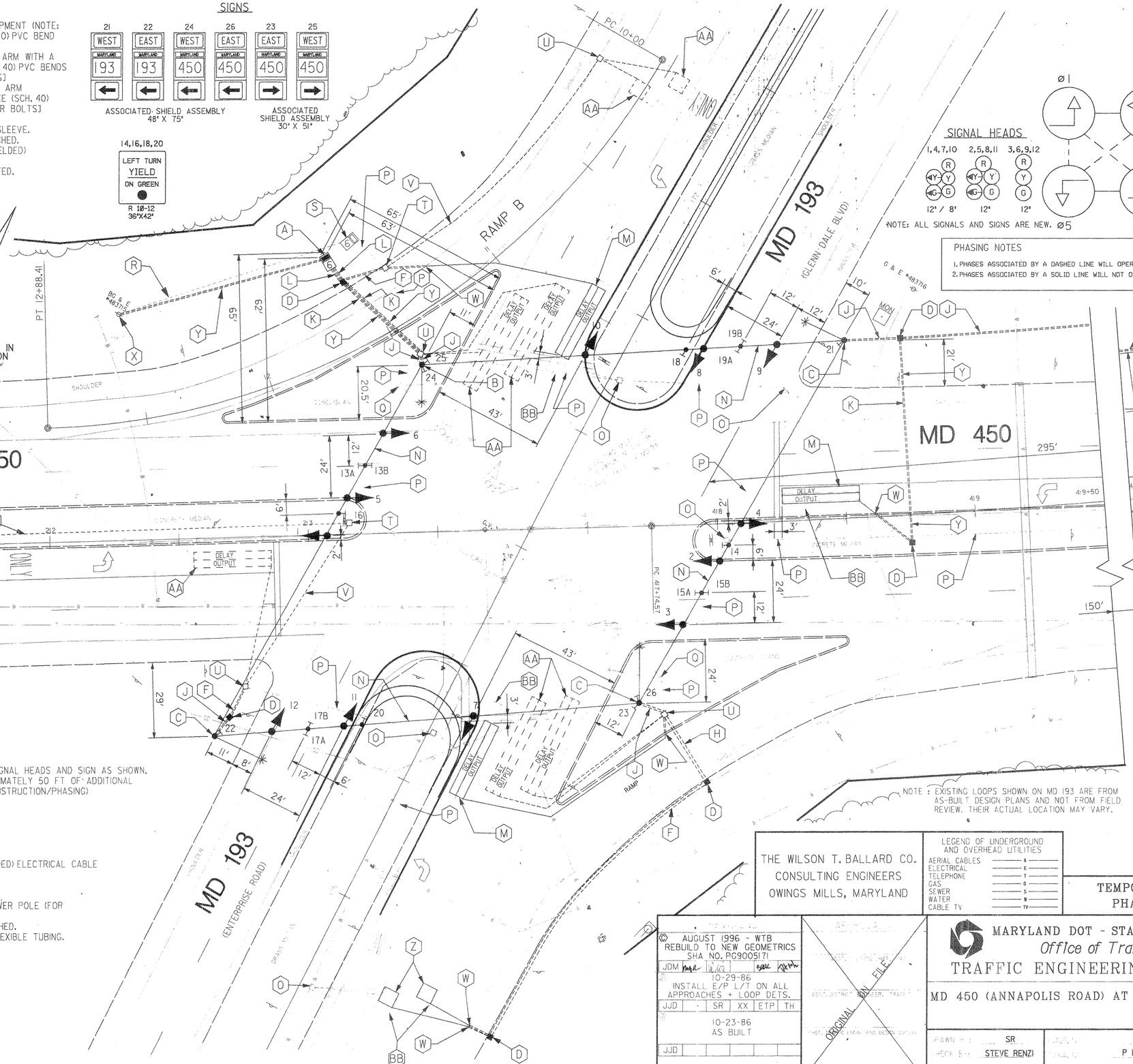


SIGNS

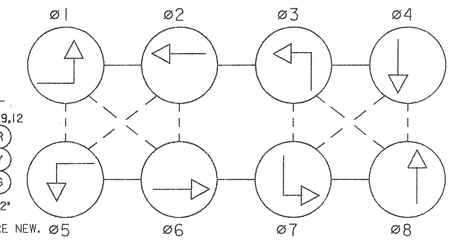
ASSOCIATED SHIELD ASSEMBLY 48" X 75"

ASSOCIATED SHIELD ASSEMBLY 30" X 51"

14,16,18,20
LEFT TURN YIELD ON GREEN
R 10-12 36"X42"



NEMA PHASING



SIGNAL HEADS

NOTE: ALL SIGNALS AND SIGNS ARE NEW.

PHASING NOTES

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

FLASHING OPERATION

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 PLANS, TCP-32 AND TCP-33.
5. ALL POLE AND CABINET FOUNDATIONS AND HANDHOLES SHALL BE INSTALLED AT FINAL GRADE.

NOTE: EXISTING LOOPS SHOWN ON MD 193 ARE FROM AS-BUILT DESIGN PLANS AND NOT FROM FIELD REVIEW. THEIR ACTUAL LOCATION MAY VARY.

N. INSTALL 3/8 IN. STEEL SPAN WIRE, 1/4 IN. STEEL TETHER WIRE, VEHICLE SIGNAL HEADS AND SIGN AS SHOWN. (NOTE: TETHER 5-SECTION SIGNAL HEADS AND SIGNS AND PROVIDE APPROXIMATELY 50 FT OF ADDITIONAL ELECTRICAL CABLE FOR EACH SIGNAL HEAD FOR USE DURING ROADWAY CONSTRUCTION/PHASING)
O. REMOVE EXISTING HANDHOLE.
P. CAP AND ABANDON EXISTING CONDUIT.
Q. REMOVE EXISTING MAST ARM POLE AND ALL ATTACHED EQUIPMENT.
R. REMOVE EXISTING ELECTRICAL SERVICE.
S. REMOVE EXISTING CABINET/CONTROLLER AND ALL ATTACHED EQUIPMENT.
T. USE EXISTING HANDHOLE.
U. USE EXISTING HANDHOLE AND SPLICE NEW 2-CONDUCTOR (ALUMINUM SHIELDED) ELECTRICAL CABLE TO EXISTING LOOP WIRE.
V. USE EXISTING CONDUIT.
W. INSTALL 1 IN. GALVANIZED STEEL CONDUIT FOR LOOP DETECTOR LEAD-IN.
X. INSTALL ONE 3 IN., 90-DEGREE (SCH. 80) PVC BEND ON EXISTING WOOD POWER POLE (FOR ELECTRICAL SERVICE), AND TIE INTO EXISTING RISER.
Y. INSTALL 3 IN. POLYVINYL CHLORIDE (SCH. 80) ELECTRICAL CONDUIT - TRENCHED.
Z. INSTALL 6 FT. X 6 FT. VEHICLE LOOP DETECTOR (4 TURNS) ENCASED IN FLEXIBLE TUBING.
AA. MAINTAIN EXISTING VEHICLE DETECTOR.
BB. ABANDON EXISTING VEHICLE DETECTOR.

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

LEGEND OF UNDERGROUND AND OVERHEAD UTILITIES

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

TEMPORARY SIGNAL PHASE II

DWG. NO. TS-27

© AUGUST 1996 - WTB
REBUILD TO NEW GEOMETRICS
SHA NO. PG9005171

JDM				

10-29-86
INSTALL E/P L/T ON ALL APPROACHES + LOOP DETS.

JJD		SR	XX	ETP	TH

10-23-86
AS BUILT

JJD					

ORIGINAL ON FILE

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

MD 450 (ANNAPOLIS ROAD) AT MD 193 (GLENN DALE BLVD / ENTERPRISE ROAD)

LOG MILE NO. 16019312.85 DATE 4 21 81

DRAWN BY: SR	PROJECT: RR 18(49)	PLAN SHEET NO.	SHEET NO.
CHECK BY: STEVE RENZI	PROJ. NO. P 170-501-382	TS-182IC-XI-P	373 OF 465
SCALE: 1" = 20'	COUNTY: PRINCE GEORGES		

FILE NO. 5S535450.02N
09-11-96 - FRB/JJS/TES