

CURVE #1
 $\Delta = 23^{\circ}30'$
 $D = 10'$
 $R = 572.96'$
 $T = 119.18'$
 $L = 235.00'$
 $E = 12.26'$
 $LC = 49.99'$
 $PC = 102+49.61$
 $PT = 102+48.59$
 $PI = 102+49.41$
 0.04% Rate of Super

Witnesses to P.I. # 108+12.15
 3/4" Pipe
 3 1/2" E - 108+40 - 13" Maple
 3 2 1/2" E - 85.59 - 5" Ash

Witnesses to P.O.C.T.
 $PI \# 2 = 120.53$ 3/4" Pipe
 3 3/4" W - 89.64 - 15" Birch
 3 7/8" W - 122.52 - 14" Betula

Witnesses to P.I. # 3 110+71.56
 3/4" Pipe
 1 1/2" E - 79.34 - 15" Birch
 1 1/2" W - 44.05 - 7" Cherry

Witnesses to P.O.C.T.
 $PI \# 3 = 74.12$ 3/4" Pipe
 1 1/2" W - 71.92 - 15" Oak
 3 3/8" E - 65.46 - 1 1/2" Birch

CURVE #2
 $\Delta = 63^{\circ}00'$
 $D = 28^{\circ}00'$
 $R = 100.00'$
 $T = 197.61'$
 $L = 314.29'$
 $E = 19.84'$
 $LC = 49.83'$
 $PC = 102+15.14$
 $PT = 102+12.75$
 $PI = 102+12.43$
 0.04% Rate of Super

CURVE #3
 $\Delta = 63^{\circ}00'$
 $D = 28^{\circ}00'$
 $R = 100.00'$
 $T = 92.40'$
 $L = 165.79'$
 $E = 26.06'$
 $LC = 49.77'$
 $PC = 109+73.16$
 $PT = 110+71.54$
 $PI = 111+44.95$
 0.025% Rate of Super

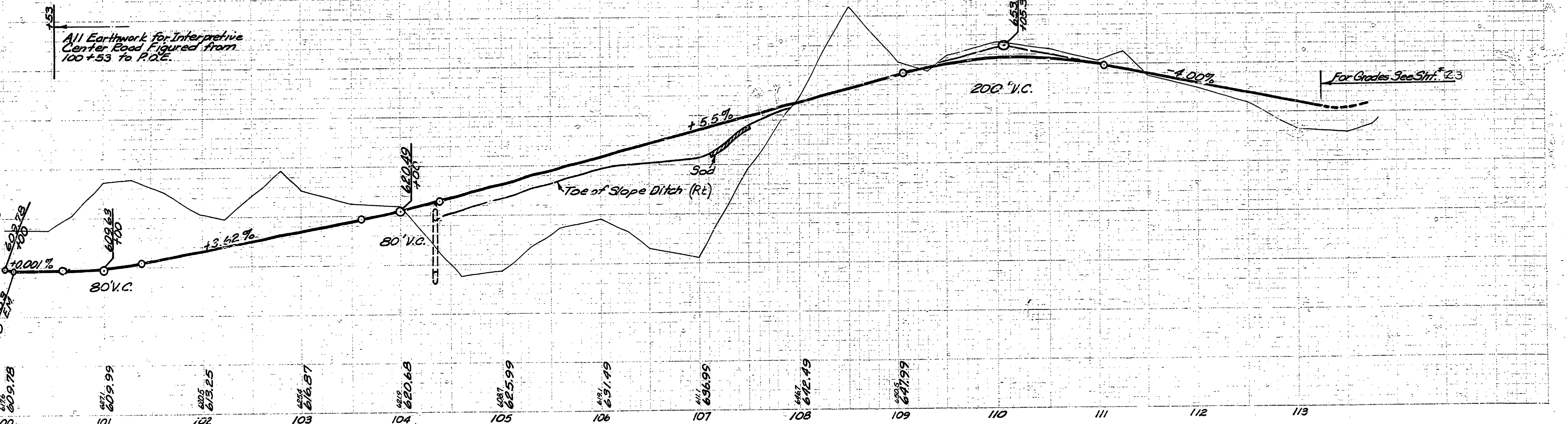
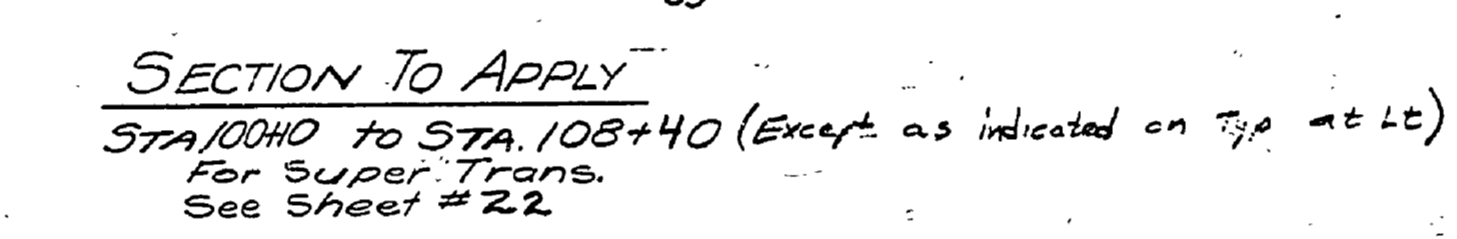
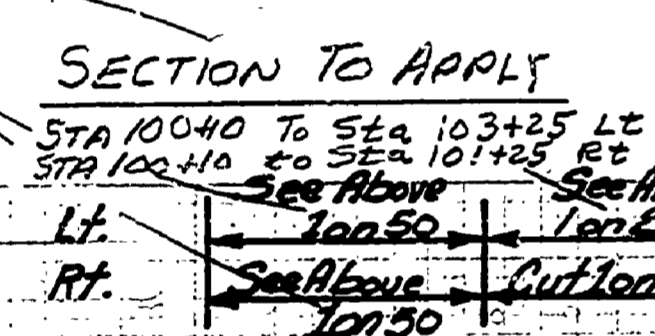
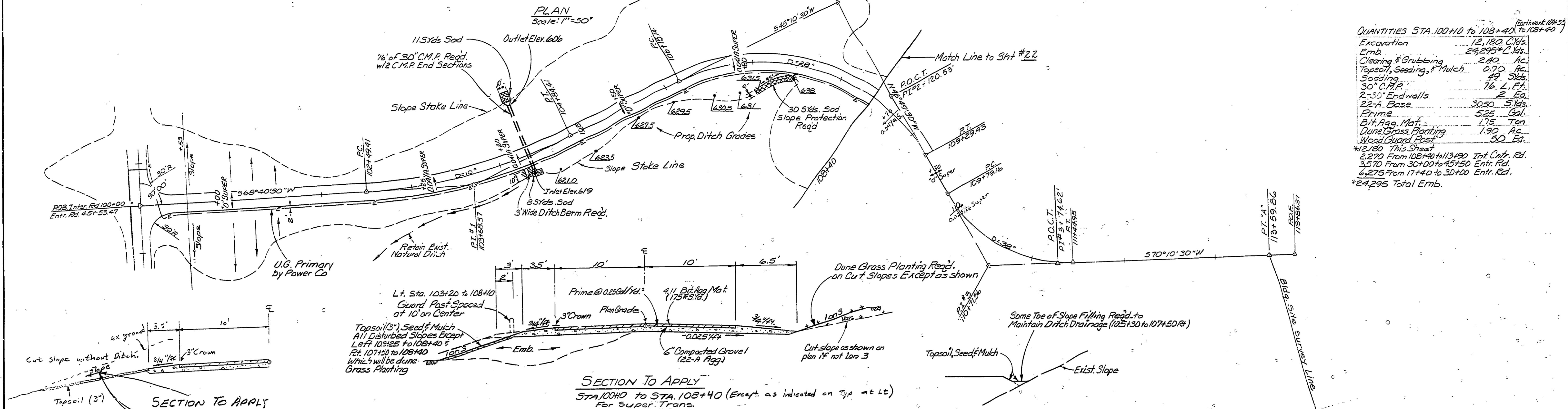
Witnesses to P.O.E. 118+26.37
 3/4" Pipe
 5 6 1/2" E - 2.96 - 6" Oak
 1 1/2" W - 19.61 - 14" Ash
 5 2 1/2" E - 15.33 - 16" Ash

(Part of sheet 108+53)

QUANTITIES STA. 100+10 TO 108+40 (to 108+40)

Excavation	12,180 C.Ys
Emb.	24,295 C.Ys
Clearing & Grubbing	240 Ac.
Topsoil, Seeding, & Mulch	0.70 Ac.
Sodding	49 Slds.
30" C.M.P.	76 L.Ft.
2-30" Endwalls	2 Ea.
22-A Base	3050 S.Yds.
Prime	525 Gal.
Bit. Agg. Mat.	175 Ton
Dune Grass Planting	1.90 Ac.
Wood Guard Post	50 Ea.

*12180 This Sheet
 2,270 From 108+40 to 113+90 Int. Cntr. Rd.
 3,570 From 30+00 to 45+50 Entr. Rd.
 6,275 From 11+40 to 30+00 Entr. Rd.
 *24,295 Total Emb.



SURVEYED BY D. BisSELL	12-69	DRAWN BY C.E. Massey	12-69	NO. DATE BY REVISIONS	NO. DATE BY REVISIONS	MICHIGAN DEPARTMENT OF CONSERVATION	INTERPRETIVE CENTER ROAD	SHEET NO. OF FOR PROJECT NO. 1065	R.J. HOFFMASTER STATE PARK SHEET 21 OF 24 PLAN NO. E-105
DESIGNED BY J. Nelson	12-69	CHECKED BY	DATE	1. 2.	3. 4.				