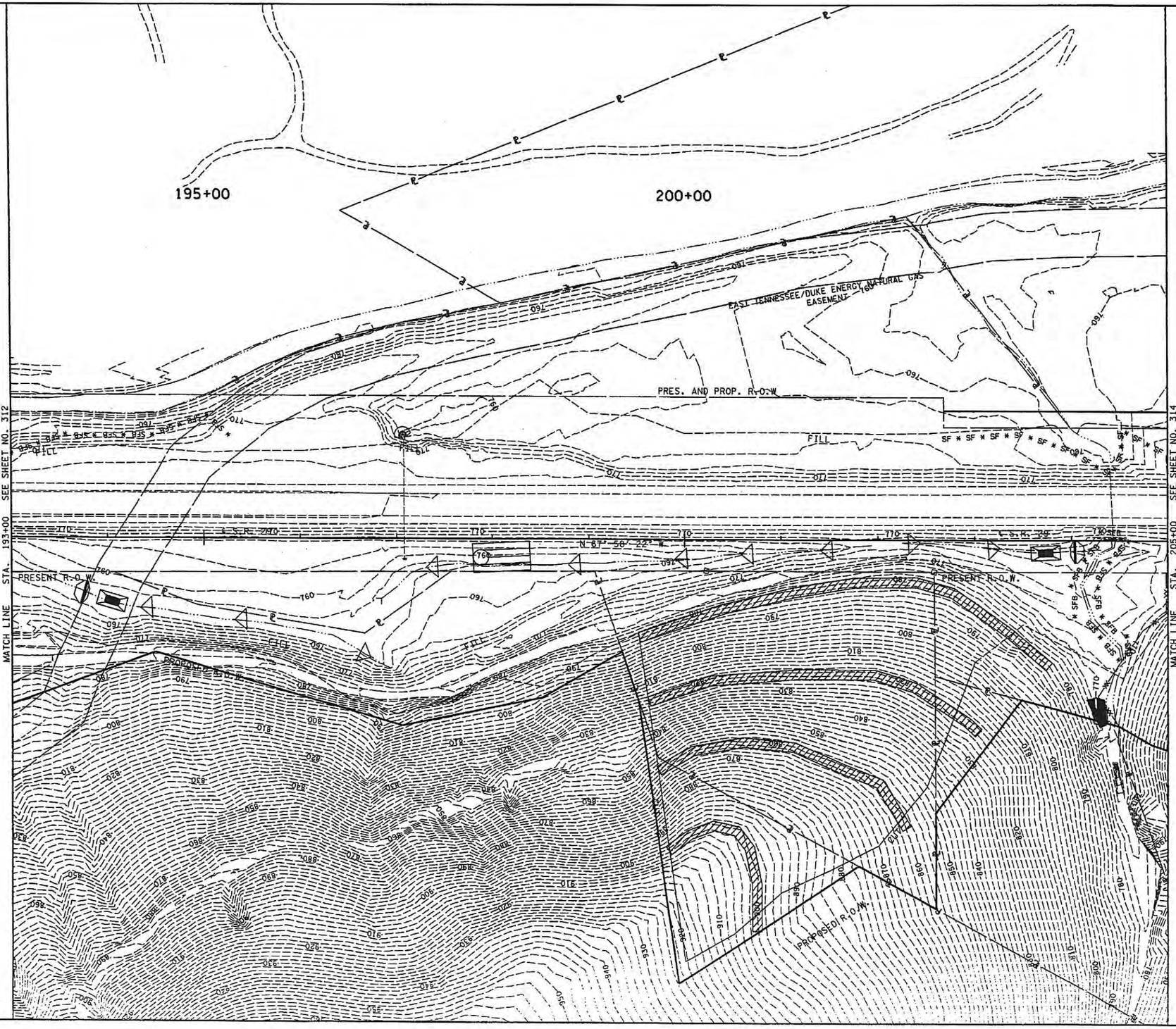
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2007	HPP-NH-29(36)	313
R.O.W.	2007	HPP-NH-29(35)	314



COORDINATE VALUES ARE NAD/83(1995) AND ARE DATUM ADJUSTED BY THE FACTOR 1.00000900 & TIED TO THE TGRN.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
BUREAU OF PLANNING & DEVELOPMENT

EROSION CONTROL PLAN PHASE I

STA. 193+00 TO STA. 205+00

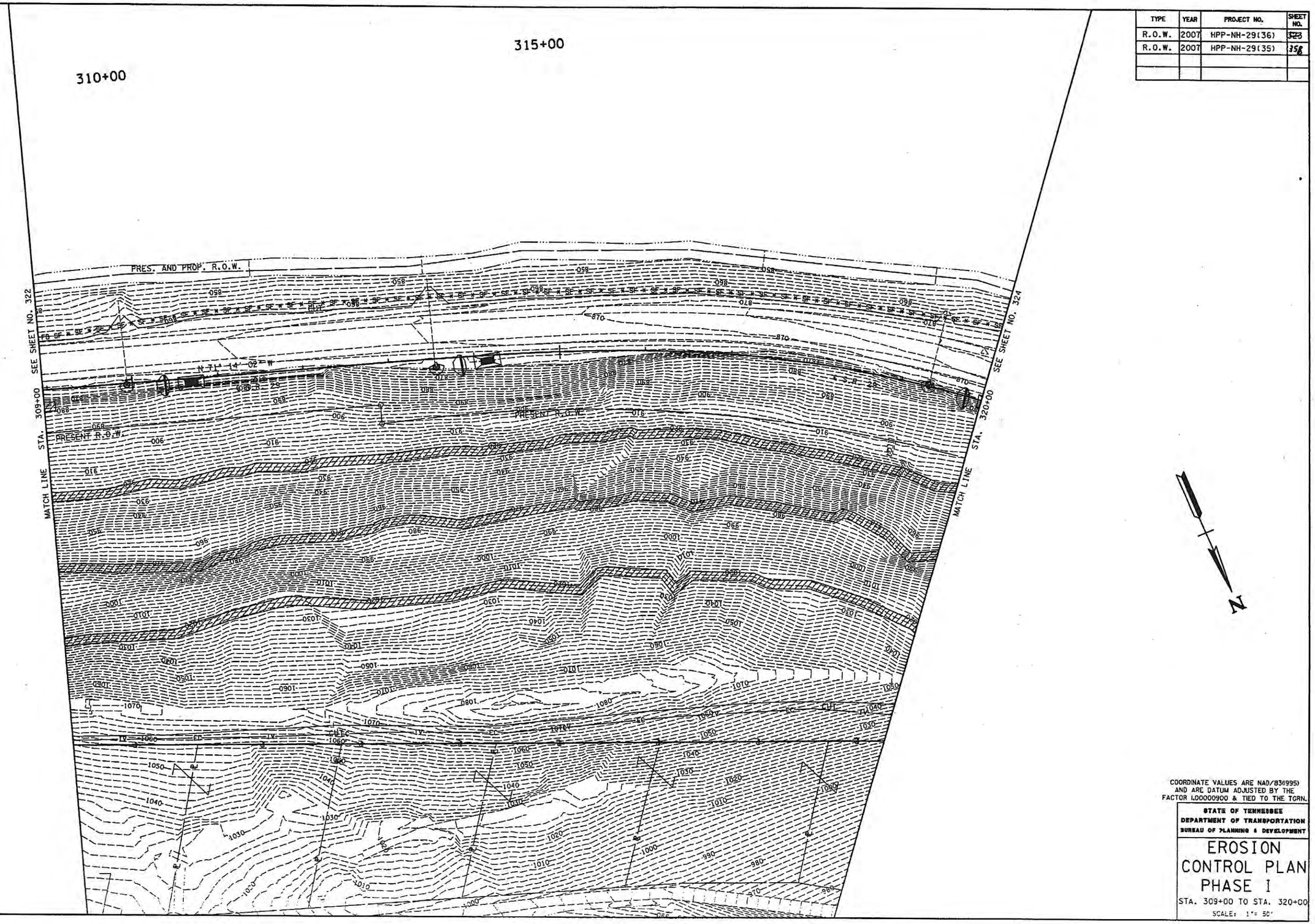
SCALE: 1" = 50'

$$SYSTIME$$

$$DGNSPEC$$

TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2007	HPP-NH-29(36)	323
R.O.W.	2007	HPP-NH-29(35)	358



COORDINATE VALUES ARE NAD/83(1995) AND ARE DATUM ADJUSTED BY THE FACTOR 1.00000900 & TIED TO THE TCRN.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
BUREAU OF PLANNING & DEVELOPMENT

EROSION CONTROL PLAN PHASE I

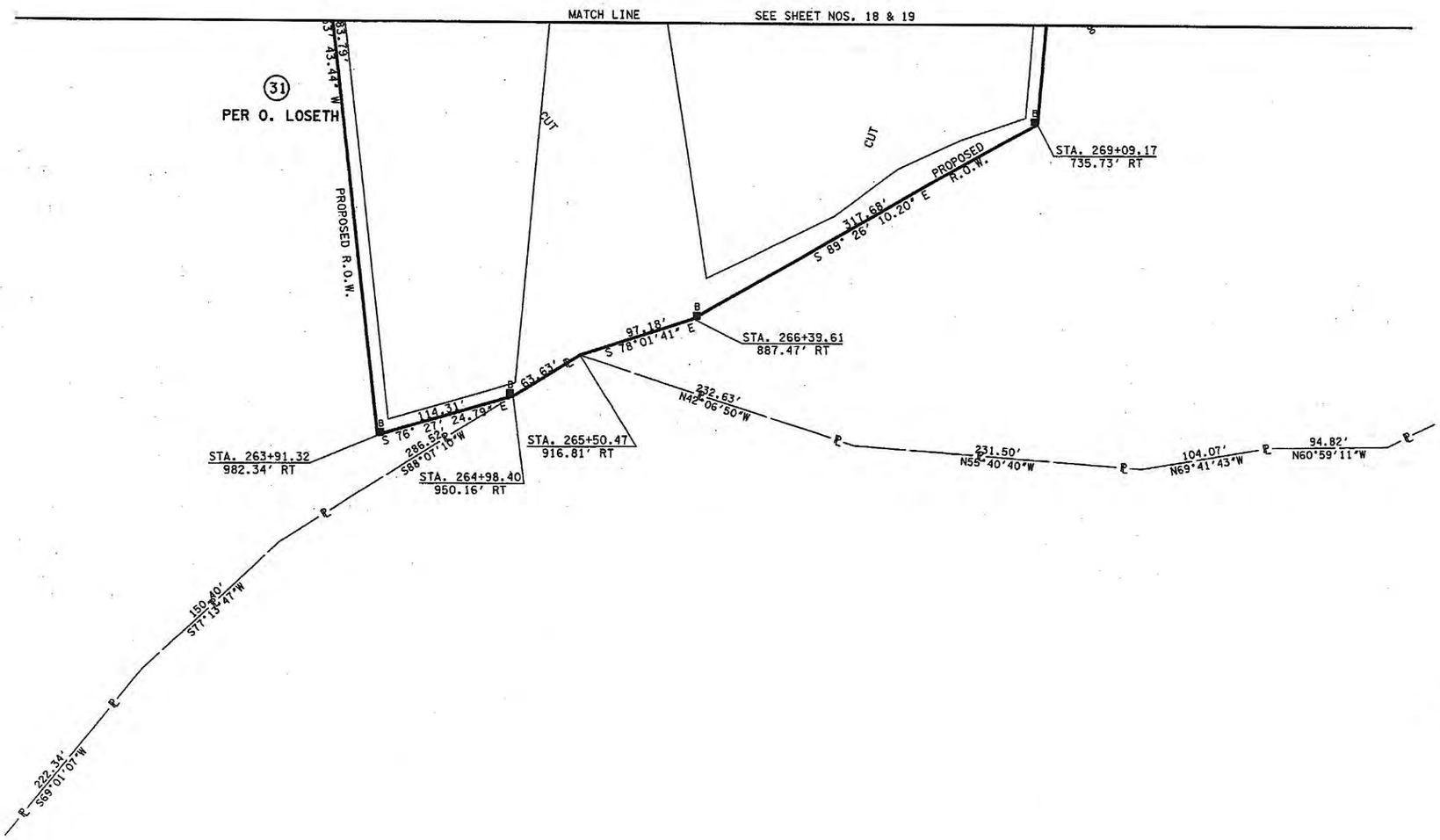
STA. 309+00 TO STA. 320+00

SCALE: 1" = 50'

****SYSTIME****
****DGNSPEC****

TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2007	HPP-NH-29(36)	19C
R.O.W.	2007	HPP-NH-29(35)	



COORDINATE VALUES ARE NAD/83(1995) AND ARE DATUM ADJUSTED BY THE FACTOR 1.00000900 & TIED TO THE TCRN.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
BUREAU OF PLANNING & DEVELOPMENT

PRESENT LAYOUT

STA. 264+00 TO STA. 276+00

SCALE: 1"= 50'

$$SYTIME$$
$$DGNSPEC$$

TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2007	HPP-NH-29(36)	20
R.O.W.	2007	HPP-NH-29(35)	

280+00

285+00

WOODS

STA. 276+34.08
105.01' LT

25.00
S 30° 24' 32" W

30.00
N 59° 40' 04" W

STA. 276+48.20
129.71' LT

25.00
N 30° 24' 28" E

STA. 276+34.38
130.01' LT
PERMANENT DRAINAGE EASEMENT

205.09'
N72°17'01"W

SHED
TRAILER
1-S-BL BLDG

STA. 276+63.94
104.71' LT

25.00
S 20° 08' 19" W

GRAVEL DR

STA. 279+99.59
119.48' LT

STA. 280+05.65
104.38' LT

STA. 279+99.59
104.48' LT

DONALD G. JONES
(58)
DONALD G. JONES
(49)

1-S-BL BLDG
1-S-M BLDG

30.50'
N59°50'29"W

CONST. ESM'T
PRES. AND PROP. R.O.W.
L=282.43'
R=3656.43'

GRASS
FILL

277+15.55
104.28 (LT)

INV. EL.
OUT 801.04

INV=800.67

PI 279+95.48

STA. 280+00.10
128.68' LT

100.00'
N48°04'07"W

PERMANENT DRAINAGE EASEMENT

WOODS
41.02'
N 57° 05' 06" W

STA. 280+38.58
129.58' LT

25.00'
N 20° 08' 19" E

STA. 280+44.54
105.40' LT

EXTEND EXIST. CULV.
25' ON LEFT

280+21.42
102.78' (LT)

281+37.30
105.75' (LT)

WILLIAMS S. BRISSEY, TRUSTEE NO. IV
(57)

TRAILER

INV. EL.
OUT 804.32

285+15.86
107.49 (LT)

286+85.96
106.04 (LT)
GRASS

DOG PEN

WOODS

PI 285+45.98

PRES. AND PROP. R.O.W.

L=413.87'
R=1397.06'
FILL

204.53'
S46°44'30"W

TRAILER

SEE SHEET NO. 19

STA. 276+00

MATCH LINE

N 60° 03' 31" W

℄ S.R. 29

V-SOD

FILL

R=3921.57'
L=380.64'

CUT

469.74'
S51°52'00"E

INV. EL.
IN 807.08

INV=807.26
18" CMP

INV=807.26

STA. 282+37.22
76.69' RT

℄ S.R. 29

L=339.42'
R=1390.15'

284+94.98
74.01 (RT)
R=1390.15'

L=276.68'

1-S-M BLDG

STA. 281+00.44
93.47' RT

10.0' ASP DR

STA. 284+82.38
111.79' RT

S 34° 06' 57" E

41.50'

WOODS

PROPOSED R.O.W.

GRASS

281+37.11
73.35' (RT)

2-S-F RES

TANK

15.00
N 20° 08' 19" E

273.97'

WOODS

INV=801.66

INV. EL.
IN 804.27

STA. 277+48.98
94.73' RT

277+45.51
75.84 (RT)

STA. 280+51.72
3@12'x5', 75° SKEW RT
(EXISTING R.C.B.C. TO REMAIN)

STA. 276+48.08
140' @ 30"RCP
SKEW 90°

EXTEND EXIST. CULV.
54' ON RIGHT

STA. 280+57.13
96.28' RT

15.00
S 20° 08' 19" W

223.38'
S45°00'00"E

STA. 280+61.33
110.75' RT

PERMANENT DRAINAGE EASEMENT

40.89
S 57° 51' 59" E

FORKED CREEK

EAST TENNESSEE / DUKE ENERGY NATURAL GAS EASEMENT

STA. 281+05.08
107.83' RT

WOODS

RAYMOND W. AND ANNIE T. CURTIS
(33)

LANDON KEITH BASS
(32)

TRAIL

77.01'
S25°51'00"E

137.35'
S22°31'00"E

52.74'
N05°29'00"E

105.24'
S10°43'00"W

43.69'
S10°58'00"W

41.93'
N05°38'15"E

28.34'
S18°18'34"W

407.46'
S67°48'25"W

316.68'
S79°18'12"W

GLENN YEARY
(34)

S.R. 29 (MAINLINE)
PI 285+49.98
N 611,491.6546
E 2,408,290.1643
Δs 46° 46' 48" (RT)
θs 8° 00' 00"
Δc 30° 46' 48" (RT)
D 4° 00' 00"
R 1,432.39
Lc 769.50
L 821.44
Ls 400.00
LT 266.94
ST 133.58
Es 133.32
X 399.22
Y 18.59
k 199.87
p 4.65
SE 0.063 FT/FT
DES. SPEED 50 MPH

N18°22'

MATCH LINE

STA. 287+00

SEE SHEET NO. 21

N

COORDINATE VALUES ARE NAD/83(1995) AND ARE DATUM ADJUSTED BY THE FACTOR L00000900 & TIED TO THE TGRN.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
BUREAU OF PLANNING & DEVELOPMENT

PRESENT LAYOUT

STA. 276+00 TO STA. 287+00

SCALE: 1"= 50'

Barry & Dale Wallace

####SYTIME#######
#####DONSPEC#####

TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2007	HPP-NH-29(36)	20A
R.O.W.	2007	HPP-NH-29(35)	

280+00

285+00

BITTER CREEK

STA. 279+88.86
10.0' PVT. DR.

LIMIT OF CONST.
STA. 1+83.56

FORKED CREEK

EXTEND EXIST. CULV.
25' ON LEFT

INV. EL.
OUT 804.32

PI 285+45.98

R 15'

INV. EL.
OUT 801.04

PI 279+95.48

30'

MATCH LINE
STA. 276+00
SEE SHEET NO. 19A

N 60° 44' 30" W

S.R. 29

℄ S.R. 29

SEE SHEET NO. 21A
STA. 287+00

24' PAVEMENT

TS 277+28.54

PT 278+20.53
SC 279+11.13

END TAPER (RT & LT)
STA. 277+20.53

V-SOD

INV. EL.
IN 807.08

SC 281+28.54

STA. 281+53.14
10.0' PVT. DR.

LIMIT OF CONST.
STA. 1+32.85

SIGHT TRIA

INV. EL.
IN 804.27

STA. 276+48.08
140' ø 30"RCP
SKEW 90°

STA. 280+51.72
3ø12'x5', 75° SKEW RT
(EXISTING R.C.B.C. TO REMAIN)

EXTEND EXIST. CULV.
54' ON RIGHT

FORKED CREEK

LIMIT OF CONST.
STA. 1+50.00

STA. 286+09.25
10.0' FIELD ENT.

S.R. 29 (MAINLINE)

PI 285+49.98
N 611,491.6546
E 2,408,290.1643
Δs 46° 46' 48" (RT)
θs 8° 00' 00"
Δc 30° 46' 48" (RT)
D 4° 00' 00"
R 1,432.39
Lc 769.50
Ts 821.44
Ls 400.00
LT 266.94
ST 133.58
Es 133.32
X 399.22
Y 18.59
k 199.87
p 4.65
SE 0.063 FT/FT
DES. SPEED 50 MPH

MATCH LINE
STA. 287+00
SEE SHEET NO. 21A

N

COORDINATE VALUES ARE NAD/83(1995)
AND ARE DATUM ADJUSTED BY THE
FACTOR 1.00000900 & TIED TO THE TGRN.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
BUREAU OF PLANNING & DEVELOPMENT

PROPOSED LAYOUT

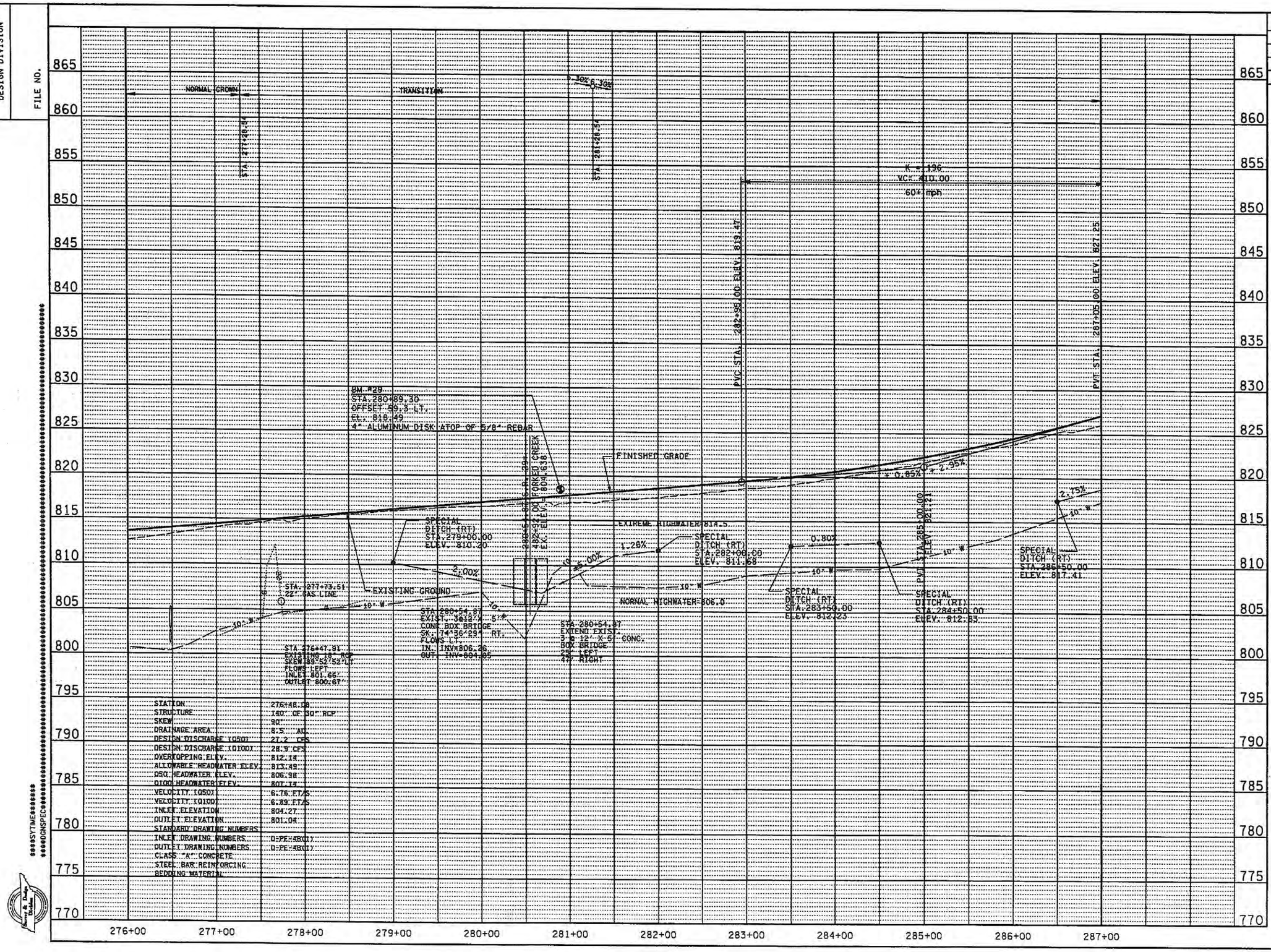
STA. 276+00 TO STA. 287+00

SCALE: 1"= 50'

$$$$SYTIME$$$$$$
$$$$DGNSPEC$$$$$$

TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2004	HPP-NH-29(36)	20B
R.O.W.	2004	HPP-NH-29(35)	



STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
BUREAU OF PLANNING & DEVELOPMENT

PROFILE

STA. 276+00 TO STA. 287+00

SCALE: 1"= 50' HORIZ.
1"= 5' VERT.

$$SYTIME$$
$$OGNSPEC$$

TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2007	HPP-NH-29(36)	21
R.O.W.	2007	HPP-NH-29(35)	

290+00
EDDY AND CORDELIA T. YEARY
JUDITH C. LEE
ANDREW V. AND ETHEL YEARY
295+00
PAUL W. AND LESLIE YEARY
POS STA. 290+51.96 S.R. 29 =
POT STA. 50+00.00 WHETSTONE ROAD
N 612052.6872
E 2408162.2162
PRES. AND PROP. R.O.W.
SEE SHEET NO. 20
SEE SHEET NO. 22
MATCH LINE STA. 287+00
MATCH LINE STA. 298+00
℄ S.R. 29
PI 290+31.63
PI 297+
50+00
STA. 289+25.25 74.77' RT
STA. 289+00.28 72.78 (RT)
STA. 289+61.43 109.03' RT
STA. 289+47.40 71.88 (RT)
STA. 287+86.26 273.97' RT
STA. 287+82.07 73.12' (RT)
STA. 288+78.02 483.50' RT
STA. 287+78.31 101.52' RT
STA. 289+53.44 243.17' RT
STA. 289+27.23 223.21' RT
STA. 291+11.99 353.85' RT
STA. 291+51.16 379.99' RT
STA. 292+97.62 70.10 (RT)
STA. 293+09.03 70.27 (RT)
STA. 294+35.58 70.34 (RT)
STA. 294+67.67 344.43' RT
STA. 293+15.14 362.35' RT
STA. 295+98.26 329.18' RT
STA. 296+53.22 173.20' RT
STA. 297+82.10 EXIST. 30"RCP x 77.1' LG. SKEW 90° (TO REMAIN)
STA. 297+82.10 NO. 2 JUNCTION BOX
STA. 297+82.10 39' @ 30"RCP SKEW 90°
STA. 50+94.22 45.0' @ 36" RCP SKEW 90°
290+72.34 107.04 (LT)
292+39.96 108.44 (LT)
292+97.54 107.25 (LT)
295+73.40 106.87 (LT)
289+33.15 106.10 (LT)
289+00.00 106.64 (LT)
53+34.61 (20.28' (LT)
53+41.71 41.82 (LT)
53+74.30 15.87 (LT)
56+31.62 15.72 (LT)
L=147.64' R=2756.46'
L=229.87' R=1556.19'
L=35.62' R=2756.46'
L=57.61' R=2756.46'
L=171.53' R=2756.46'
L=286.04' R=1753.61'
L=313.94' R=2120.87'
L=45.06' R=265.00'
L=41.19' R=235.00'
L=207.43' R=1556.19'
275.58' N13°12'21"W
126.55' N13°14'57"W
137.23' N13°10'58"W
161.96' N12°24'29"W
10.83' N12°24'29"W
105.91' N65°07'08"W
54.97' N65°22'35"W
116.13' N22°01'43"W
98.46' N22°01'43"E
215.62' S 25° 24' 59" E
137.12' S 19° 58' 55" E
153.58' S 19° 58' 55" E
157.91' S 19° 58' 55" E
166.90' S 83° 53' 22" E
12.66' S06°01'15"W
89.71' S06°01'15"W
116.48' S06°01'15"W
142.92' S24°13'40"E
276.15' S 19° 58' 55" E
292.18' S 19° 58' 55" E
539.91' S75°12'26"W
470.42' S79°06'00"W
973.82' S69°42'45"W
268.79' S75°43'25"W
N30°03'18"W 282.84
N21°38'25"W 183.48'
N50°08'30"E 100.00'
N22°38'14"E 100.00'
S86°26'23"W 280.00'
S33°30'42"W 251.42'
N16°58'00"E 200.00'
N13°16'43"W 228.00'
N22°01'43"E 58.08'
N13°16'43"W 98.10'
N29°22'57"E 23.24'
N29°22'57"E 54.37'
N29°22'57"E 77.12'
N29°22'57"E 64.64'
N29°22'57"E 41.19'
N29°22'57"E 14.44'
N29°22'57"E 14.44'
N29°22'57"E 14.44

TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2007	HPP-NH-29(36)	21A
R.O.W.	2007	HPP-NH-29(35)	

290+00

295+00

POS STA. 290+51.96 S.R. 29 =
POT STA. 50+00.00 WHETSTONE ROAD
N 612052.6872
E 2408162.2162

STA. 290+64.60
10.0' PVT. DR.

STA. 292+07.14
10.0' PVT. DR.

STA. 294+15.74
10.0' FIELD ENT.

STA. 287+80.72
10.0' PVT. DR.

STA. 288+02.06
10.0' PVT. DR.

LIMIT OF CONST.
STA. 1+51.00

LIMIT OF CONST.
STA. 1+28.00

LIMIT OF CONST.
STA. 1+07.00

LIMIT OF CONST.
STA. 1+03.00

LIMIT OF CONST.
STA. 1+00.00

LIMIT OF CONST.
WHETSTONE ROAD
STA. 52+35.55
N 612027.0451
E 2408405.8009

BITTER CREEK

MATCH LINE STA. 287+00
SEE SHEET NO. 20A

MATCH LINE STA. 298+00
SEE SHEET NO. 22A

PI 290+31.63

N 13° 16' 43" W

50+00

30'

30'

TS 294+72.07

PC 50+41.58

℄ S.R. 29

PI 297+82.87

SIGHT TRIANGLE

STA. 50+34.22
45.0' @ 36" RCP
SKEW 90°

INV. EL.
IN 828.81

INV. EL.
OUT827.69

CS 288+98.05

ST 292+98.05

BEGIN TAPER STA. 52+13.55
9.0' LT. & RT.

END TAPER STA. 52+53.55
MATCH EXIST. LT. & RT.

PT 51+77.12

WHETSTONE ROAD
PI 51+11.94
N 612,082.8230
E 2,408,270.0229
Δ 37°57'02"RT
D 28°00'00"
R 204.63
T 70.36
Lc 135.54
SE 0.067 FT/FT
DES. SPEED 20 MPH

STA. 297+82.10
EXIST. 30"RCP x 77.1' LG.
SKEW 90°
TYPE 13
(TO REMAIN)

INV. EL.
OUT 845.00

STA. 297+82.10
NO. 2 JUNCTION BOX
52
JB#2

STA. 297+82.10
39' @ 30"RCP
SKEW 90°

INV. EL.
IN 850.35

N

COORDINATE VALUES ARE NAD/83(1995)
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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
BUREAU OF PLANNING & DEVELOPMENT

PROPOSED LAYOUT

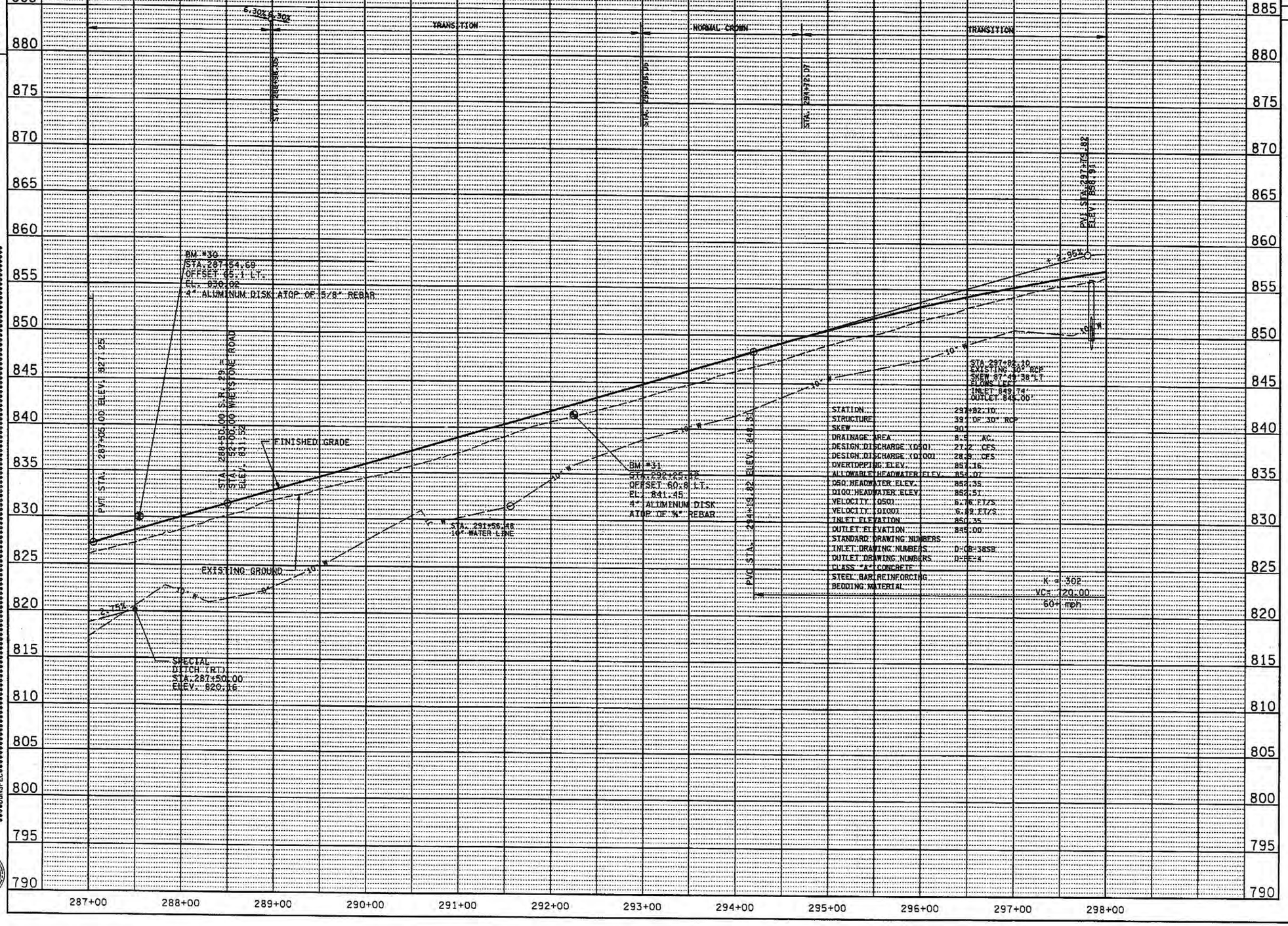
STA. 287+00 TO STA. 298+00

SCALE: 1"= 50'

SYTIME
DGNSPEC

TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2004	HPP-NH-29(36)	21B
R.O.W.	2004	HPP-NH-29(35)	



*****SYTIME*****
*****DGNSPEC*****

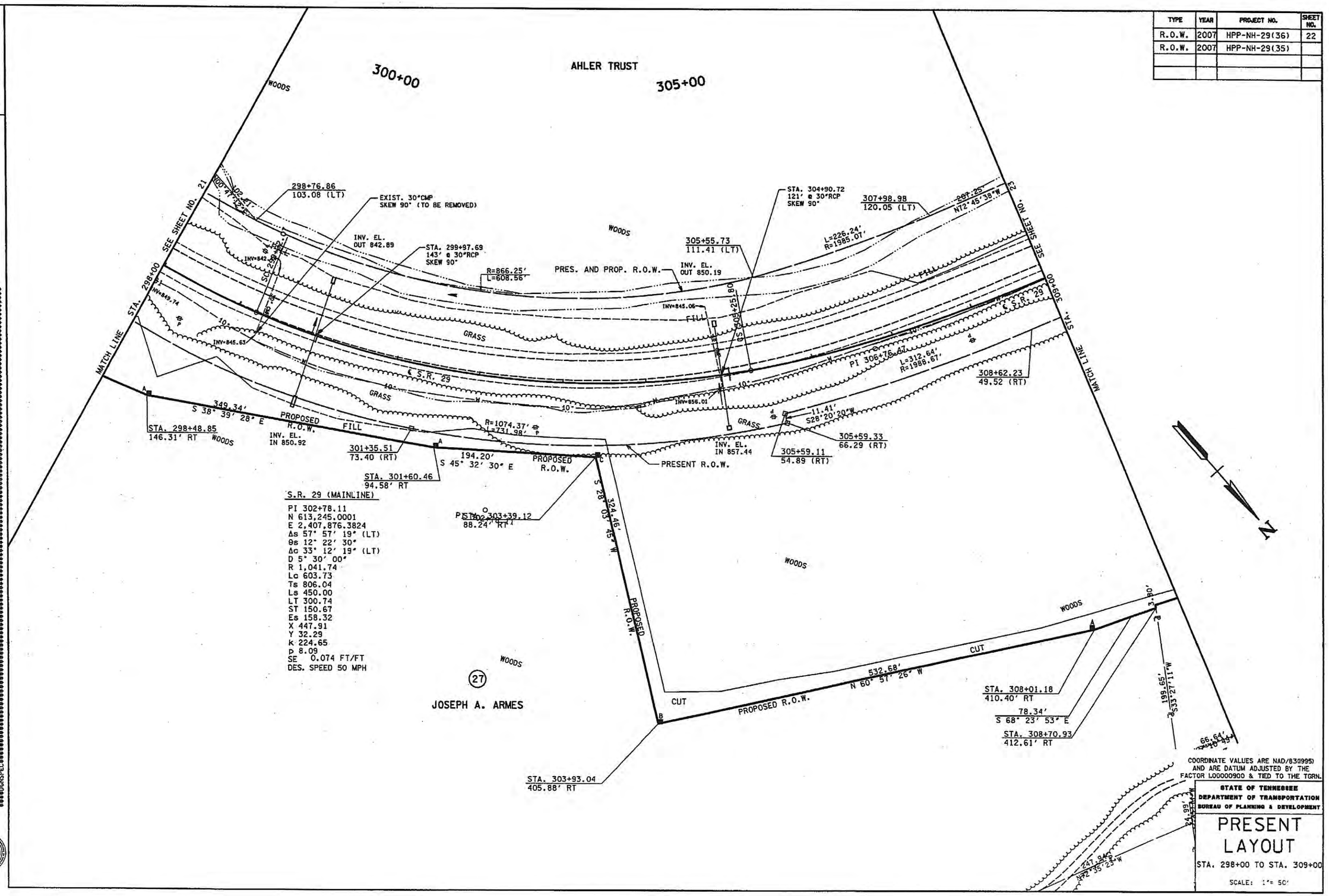
STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
BUREAU OF PLANNING & DEVELOPMENT

PROFILE

STA. 287+00 TO STA. 298+00
SCALE: 1"= 50' HORIZ.
1"= 5' VERT.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2007	HPP-NH-29(36)	22
R.O.W.	2007	HPP-NH-29(35)	

TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.



COORDINATE VALUES ARE NAD/83(1995) AND ARE DATUM ADJUSTED BY THE FACTOR L00000900 & TIED TO THE TGRN.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
BUREAU OF PLANNING & DEVELOPMENT

PRESENT LAYOUT

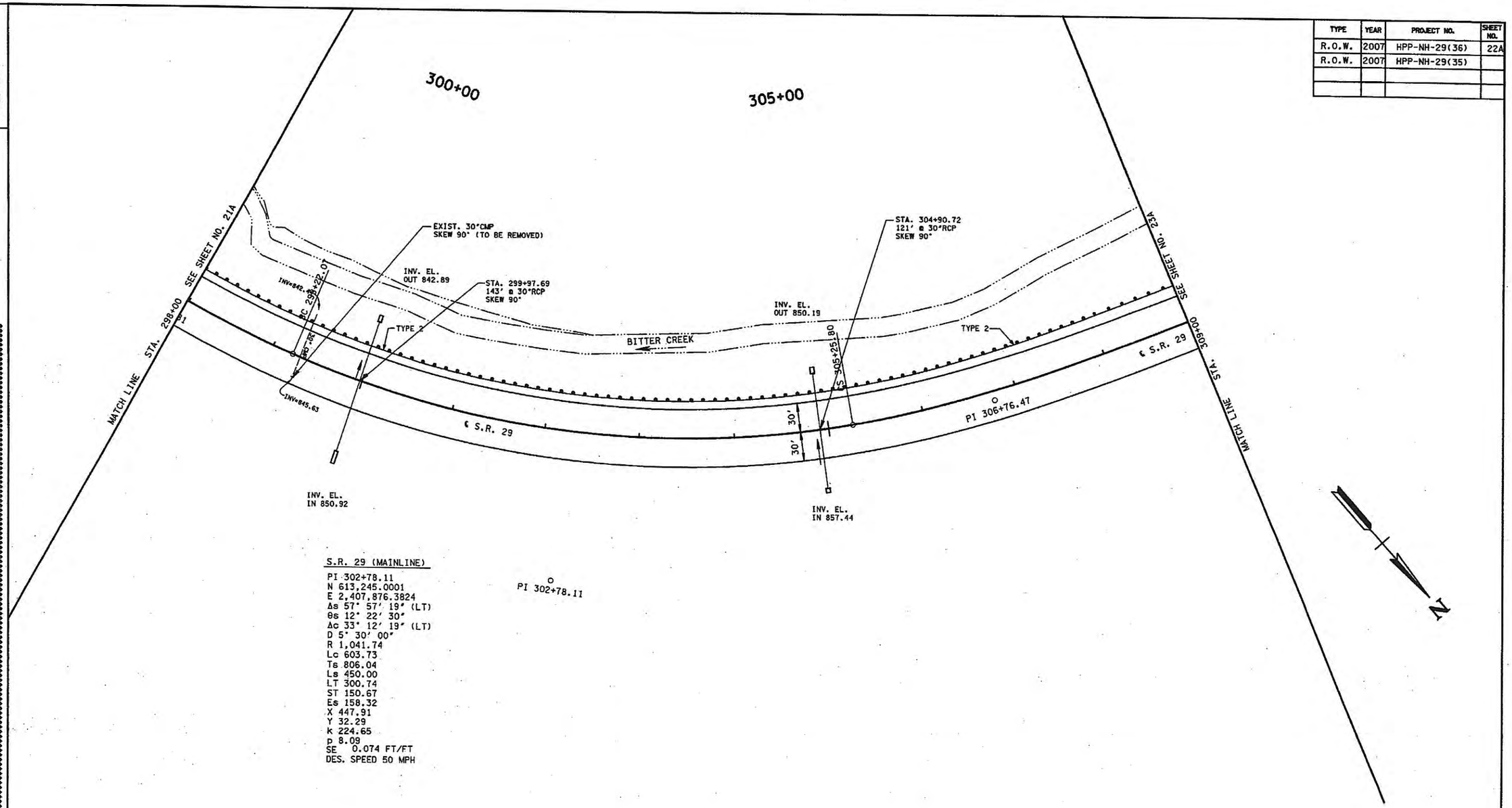
STA. 298+00 TO STA. 309+00

SCALE: 1"= 50'

****SYTIME********
****DGNSPEC********

TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2007	HPP-NH-29(36)	22A
R.O.W.	2007	HPP-NH-29(35)	



S.R. 29 (MAINLINE)

PI 302+78.11
N 613,245.0001
E 2,407,876.3824
Δs 57° 57' 19" (LT)
θs 12° 22' 30"
Δc 33° 12' 19" (LT)
D 5° 30' 00"
R 1,041.74
Lc 603.73
Ts 806.04
Ls 450.00
LT 300.74
ST 150.67
Es 158.32
X 447.91
Y 32.29
k 224.65
p 8.09
SE 0.074 FT/FT
DES. SPEED 50 MPH

COORDINATE VALUES ARE NAD/83(1995) AND ARE DATUM ADJUSTED BY THE FACTOR 1.00000900 & TIED TO THE TGRN.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
BUREAU OF PLANNING & DEVELOPMENT

PROPOSED LAYOUT

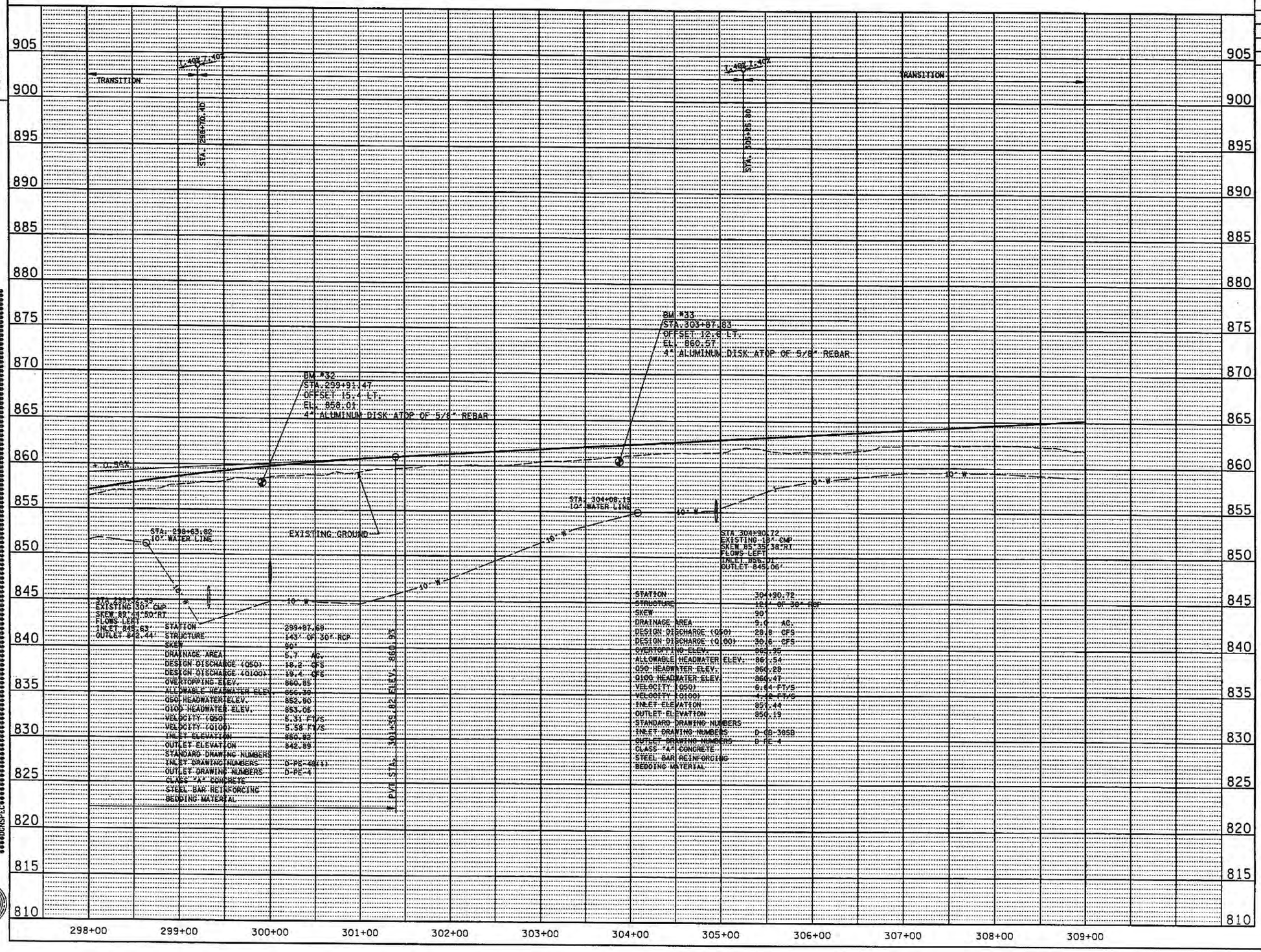
STA. 298+00 TO STA. 309+00

SCALE: 1"= 50'

$$SYTIME$$
$$DGNSPEC$$

TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2004	HPP-NH-29(36)	22B
R.O.W.	2004	HPP-NH-29(35)	



STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
BUREAU OF PLANNING & DEVELOPMENT

PROFILE

STA. 298+00 TO STA. 309+00
SCALE: 1"= 50' HORIZ.
1"= 5' VERT.

$$$$SYTIME$$$$$$$
$$$$DGNSPEC$$$$$$$

TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2007	HPP-NH-29(36)	324
R.O.W.	2007	HPP-NH-29(35)	359

320+00

325+00

330+00

POC STA. 328+19.91 S.R. 29 =
POT STA. 57+00.00 HANGING ROCK ROAD
N 614527.7338
E 2405632.5326

PRES. AND PROP. R.O.W.

MATCH LINE
STA. 320+00
SEE SHEET NO. 323

CUT

FILL

PRES. AND PROP. R.O.W.

SEE SHEET NO. 325
STA. 331+00
MATCH LINE

N 40° 29' 15" W

℄ S.R. 29

PRESENT R.O.W.

PRESENT R.O.W.

60+00

N

COORDINATE VALUES ARE NAD/83(1995) AND ARE DATUM ADJUSTED BY THE FACTOR 1.00000900 & TIED TO THE TGRN.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
BUREAU OF PLANNING & DEVELOPMENT

EROSION CONTROL PLAN PHASE I

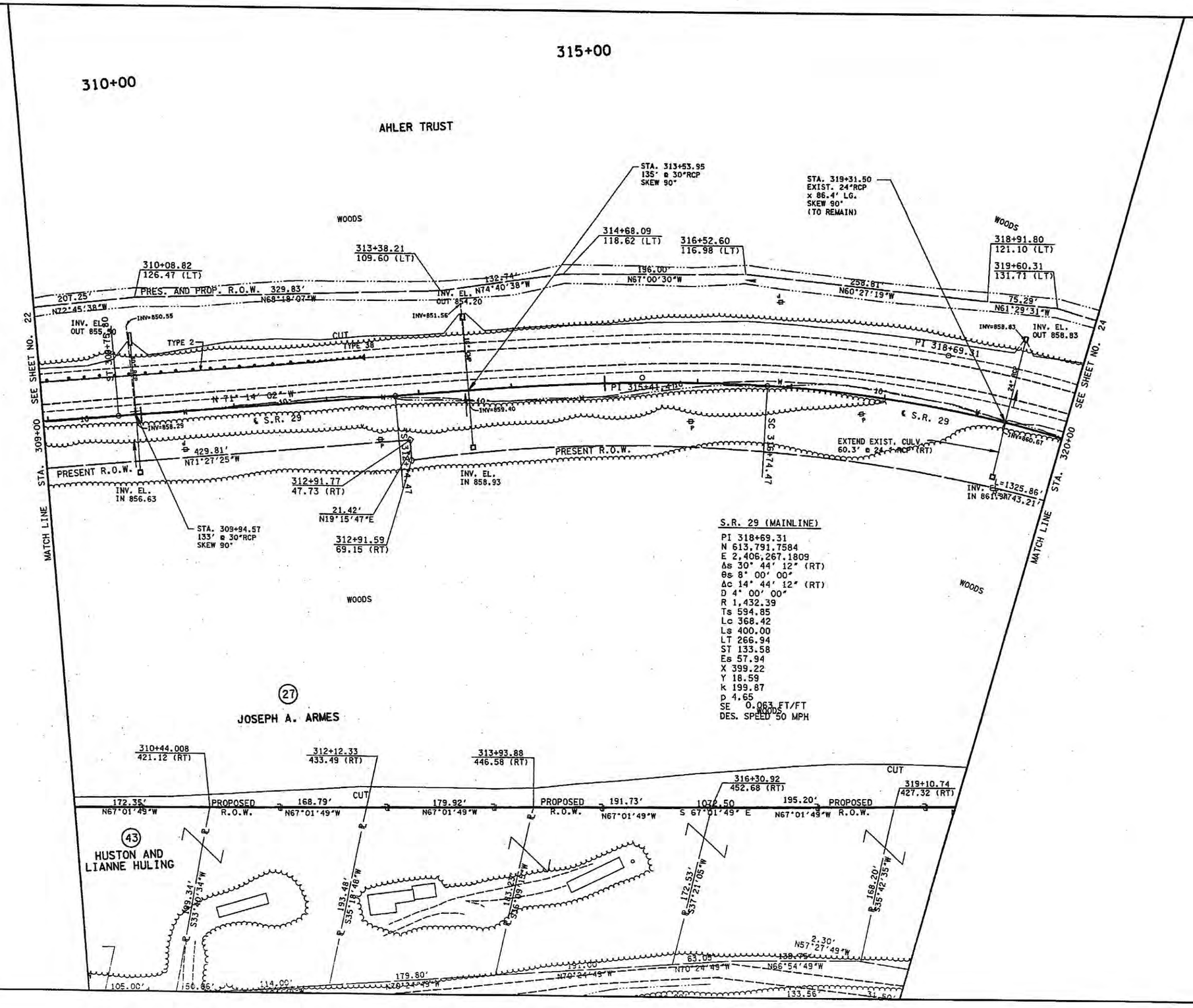
STA. 320+00 TO STA. 331+00

SCALE: 1"= 50'

$$SYTIME$$
$$DGNSPEC$$

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2007	HPP-NH-29(36)	23
R.O.W.	2007	HPP-NH-29(35)	

TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.



COORDINATE VALUES ARE NAD/83(1995) AND ARE DATUM ADJUSTED BY THE FACTOR 1.00000900 & TIED TO THE TGRN.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
BUREAU OF PLANNING & DEVELOPMENT

PRESENT LAYOUT

STA. 309+00 TO STA. 320+00

SCALE: 1"= 50'

TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2007	HPP-NH-29(36)	23A
R.O.W.	2007	HPP-NH-29(35)	

310+00

315+00

STA. 313+53.95
135' @ 30"RCP
SKEW 90°

STA. 319+31.50
EXIST. 24"RCP
x 86.4' LG.
SKEW 90°
(TO REMAIN)

BITTER CREEK

INV. EL.
OUT 854.20

INV. EL.
OUT 855.90

INV. EL.
OUT 858.83

TYPE 2

TYPE 38

ST 309+75

PI 318+69.31

N 71° 14' 02" W

PI 315+41.41

℄ S.R. 29

30'

30'

℄ S.R. 29

TS 312+74.47

SC 316+74.47

EXTEND EXIST. CULV.
60.3' @ 24 " RCP (RT)

INV. EL.
IN 856.63

INV. EL.
IN 858.93

INV. EL.
IN 861.94

STA. 309+94.57
133' @ 30"RCP
SKEW 90°

SEE SHEET NO. 22

STA. 309+00

MATCH LINE

SEE SHEET NO. 24A

STA. 320+00

MATCH LINE

S.R. 29 (MAINLINE)

PI 318+69.31
N 613,791.7584
E 2,406,267.1809
Δs 30° 44' 12" (RT)
θs 8° 00' 00"
Δc 14° 44' 12" (RT)
D 4° 00' 00"
R 1,432.39
Ts 594.85
Lc 368.42
Ls 400.00
LT 266.94
ST 133.58
Es 57.94
X 399.22
Y 18.59
k 199.87
p 4.65
SE 0.063 FT/FT
DES. SPEED 50 MPH

N

COORDINATE VALUES ARE NAD/830995)
AND ARE DATUM ADJUSTED BY THE
FACTOR L00000900 & TIED TO THE TGRN.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
BUREAU OF PLANNING & DEVELOPMENT

PROPOSED LAYOUT

STA. 309+00 TO STA. 320+00

SCALE: 1"= 50'

@@@@SYTIME@@@@@@@
@@@@@DGNSPEC@@@@@@@

TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

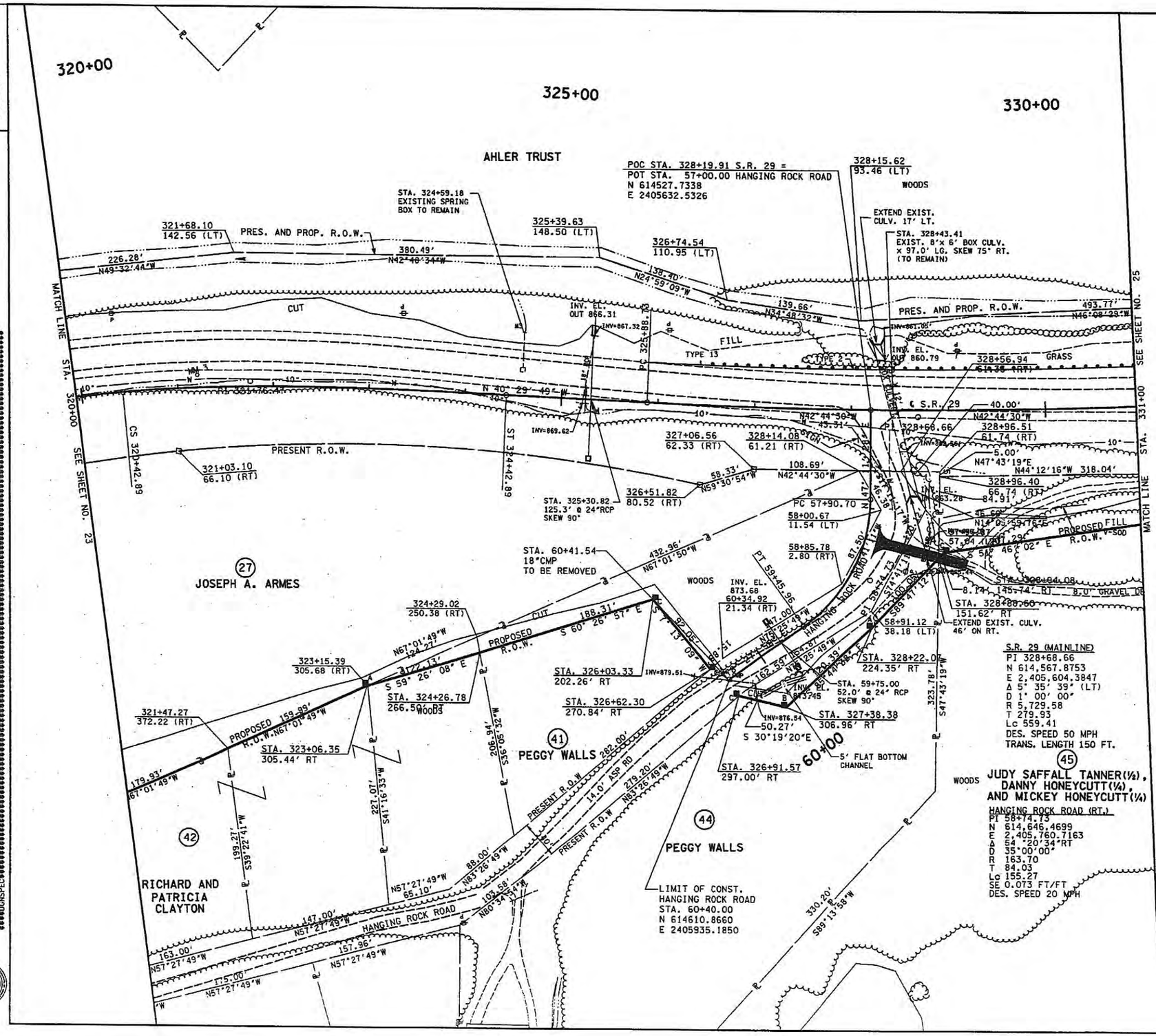
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2004	HPP-NH-29(36)	23B
R.O.W.	2004	HPP-NH-29(35)	

TRANSITION
NORMAL CROWN
TRANSITION

STA. 309+15.80
STA. 312+78.47
STA. 316+00.00
STA. 316+00.00
STA. 316+00.00

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2007	HPP-NH-29(36)	24
R.O.W.	2007	HPP-NH-29(35)	

TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.



COORDINATE VALUES ARE NAD/83(1995)
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FACTOR 1.00000900 & TIED TO THE TGRN.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
BUREAU OF PLANNING & DEVELOPMENT

PRESENT LAYOUT

STA. 320+00 TO STA. 331+00

SCALE: 1"= 50'

TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2007	HPP-NH-29(36)	24A
R.O.W.	2007	HPP-NH-29(35)	

320+00

325+00

330+00

POC STA. 328+19.91 S.R. 29 =
POT STA. 57+00.00 HANGING ROCK ROAD
N 614527.7338
E 2405632.5326

STA. 324+59.18
EXISTING SPRING
BOX TO REMAIN

EXTEND EXIST.
CULV. 17' LT.

STA. 328+43.41
EXIST. 8'x 6' BOX CULV.
x 97.0' LG. SKEW 75° RT.
(TO REMAIN)

BITTER CREEK

INV. EL.
OUT 866.31

PC 325+88.73

TYPE 13

TYPE 2

INV. EL.
OUT 860.79

MATCH LINE STA. 320+00
SEE SHEET NO. 23A

PI 321+76.47

N 40° 29' 49" W

30'

30'

℄ S.R. 29

PI 328+68.66

SEE SHEET NO. 25A

MATCH LINE STA. 331+00

CS 320+42.89

ST 324+42.89

INV. EL.
IN 869.44

SIGHT TRIANGLE

SIGHT TRIANGLE

STA. 325+30.82
125.3' @ 24"RCP
SKEW 90°

PC 57+90.70

N 47° 11' 28" E

INV. EL.
IN 863.28

12'

R 15'

V-SOD

PT 59+45.96

INV. EL.
873.68

BEGIN TAPER STA. 60+00.00
12' LT. & RT.

END TAPER STA. 60+40.00
MATCH EXISTING

S 58° 12' 58" E

HANGING ROCK ROAD

PI 58+74.73

R 15'

12'

STA. 58+31.68
10.0' PVI. DR.

LIMIT OF CONST.
STA. 11+08.00

EXTEND EXIST. CULV.
46' ON RT.

INV. EL.
873.45

STA. 59+75.00
52.0' @ 24" RCP
SKEW 90°

60+00

5' FLAT BOTTOM
CHANNEL

S.R. 29 (MAINLINE)
PI 328+68.66
N 614,567.8753
E 2,405,604.3847
Δ 5° 35' 39" (LT)
D 1° 00' 00"
R 5,729.58
T 279.93
Lc 559.41
DES. SPEED 50 MPH
TRANS. LENGTH 150 FT.

HANGING ROCK ROAD (RT.)
PI 58+74.73
N 614,646.4699
E 2,405,760.7163
Δ 54° 20' 34" RT
D 35° 00' 00"
R 163.70
T 84.03
Lc 155.27
SE 0.073 FT/FT
DES. SPEED 20 MPH

HANGING ROCK ROAD

LIMIT OF CONST.
HANGING ROCK ROAD
STA. 60+40.00
N 614610.8660
E 2405935.1850

N

COORDINATE VALUES ARE NAD/83(1995)
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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
BUREAU OF PLANNING & DEVELOPMENT

PROPOSED LAYOUT

STA. 320+00 TO STA. 331+00

SCALE: 1"= 50'

$$SYTIME$$
$$DGNSPEC$$

TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2004	HPP-NH-29(36)	24B
R.O.W.	2004	HPP-NH-29(35)	

925 920 915 910 905 900 895 890 885 880 875 870 865 860 855 850 845 840 835 830

320+00 321+00 322+00 323+00 324+00 325+00 326+00 327+00 328+00 329+00 330+00 331+00

TRANSITION
P-30x
P-30z
STA. 320+42.49
TRANSITION
NORMAL CROWN
STA. 324+48.49
STA. 324+56.71
TRANSITION
2.10%
2.10%
STA. 327+20.13
TRANSITION
2.10%
2.10%
STA. 330+18.14
K = 57.2
VC = 200.00
60x mph
PVC STA. 327+20.00 ELEV. 879.19
PVT STA. 329+20.00 ELEV. 881.34
STA. 328+22.66 S R-23 = 5'+00.00 RINGING ROCK ROAD
STA. 328+22.66 ELEV. 880.21
STA. 328+95.25
LOW WIRE ELEV= 888.24'
POWER
TELEPHONE
PVI STA. 328+26.00 ELEV. 880.09
2.50%
10" W
EXISTING GROUND
STA. 322+12.50
10" WATER LINE
STA. 325+30.82
EXISTING 18" RCP
SKEW 81°52'21"LT
FLOWS LEFT
INLET 869.62'
OUTLET 867.32'
BM #35
STA. 324+53.92
OFFSET 49.8 LT.
EL. 875.13
4" ALUMINUM DISK ATOP OF 5/8" REBAR
FINISHED GRADE

STATION	325+30.82
STRUCTURE	125' OF 24" RCP
SKEW	90
DRAINAGE AREA	4.3 AC.
DESIGN DISCHARGE (Q50)	13.8 CFS
DESIGN DISCHARGE (Q100)	14.8 CFS
OVERTOPPING ELEV.	875.83
ALLOWABLE HEADWATER ELEV.	877.28
Q50 HEADWATER ELEV.	871.34
Q100 HEADWATER ELEV.	871.46
VELOCITY (Q50)	5.48 FT/S
VELOCITY (Q100)	5.55 FT/S
INLET ELEVATION	869.44
OUTLET ELEVATION	866.31
STANDARD DRAWING NUMBERS	
INLET DRAWING NUMBERS	D-CB-38SB
OUTLET DRAWING NUMBERS	D-PP-38(1)
CLASS "A" CONCRETE	
STEEL BAR REINFORCING	
BEDDING MATERIAL	

EXISTING STRUCTURE
STA. 328+43.41
EXISTING 8' X 6' BOX CULVERT
SKEW 76°03'25"RT
FLOWS LEFT
INLET 862.56'
OUTLET 861.05'

SPECIAL DITCH (RT)
STA. 328+72.80
ELEV. 863.28

BM #36
STA. 329+05.05
OFFSET 33.1 LT.
EL. 879.35
4" ALUMINUM DISK ATOP OF ½" REBAR

STATION	328+43.41
STRUCTURE	8'X 6'X 63' R.C.B.C.
SKEW	75°(RT)
DRAINAGE AREA	231 AC.
DESIGN DISCHARGE (Q50)	213.8 CFS
DESIGN DISCHARGE (Q100)	259.3 CFS
OVERTOPPING ELEV.	880.06
ALLOWABLE HEADWATER ELEV.	889.58
Q50 HEADWATER ELEV.	867.62
Q100 HEADWATER ELEV.	868.16
VELOCITY (Q50)	8.92 FT/S
VELOCITY (Q100)	9.56 FT/S
INLET ELEVATION	862.28
OUTLET ELEVATION	860.79
STANDARD DRAWING NUMBERS	K-38-58
INLET DRAWING NUMBERS	
OUTLET DRAWING NUMBERS	
CLASS "A" CONCRETE	
STEEL BAR REINFORCING	
BEDDING MATERIAL	

$$$$STYTIME$$$$
$$$$DONSPEC$$$$

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
BUREAU OF PLANNING & DEVELOPMENT

PROFILE

STA. 320+00 TO STA. 331+00
SCALE: 1"= 50' HORIZ.
1"= 5' VERT.

TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2007	HPP-NH-29(36)	25
R.O.W.	2007	HPP-NH-29(35)	

WOODS
AHLER TRUST
335+00
(45) WOODS JUDY SAFFALL TANNER
(46) DAVID TECUMSEH LEE
340+00
TREES
RUIN
8.0' GRAVEL DR
BRUSH
GRASS
FILL
FIELD GRASS
EXTEND EXIST. CULV. 42" LT.
PRES. AND PROP. R.O.W.
INV. EL. OUT 867.37
STA. 335+75.67
254' @ 48"RCP
SKEW 90°
INV=920.93
INV=917.09
INV=869.42
INV=886.68
INV=871.83
INV. EL. IN 873.03
PI 337+30.77
PI 340+22.35
N 46° 05' 28" W
℄ S.R. 29
PROPOSED R.O.W.
CUT
BRUSH
TANK
S-F
GRASS
WOODS
TREES
333+15.11 103.73 (LT)
334+53.59 162.04 (LT)
336+31.53 222.21 (LT)
337+66.38 246.80 (LT)
339+36.06 259.97 (LT)
340+33.06 262.45 (LT)
339+96.41 274.52 (LT)
340+66.45 242.78 (LT)
340+97.24 224.33 (LT)
341+32.77 186.16 (LT)
341+49.09 151.47 (LT)
76+76.21 159.49 (LT)
341+69.94 100.99 (RT)
STA. 330+95.09 119.72' RT
332+11.32 71.34 (RT)
336+00.22 70.86 (RT)
STA. 335+94.01 137.71' RT
336+00.37 105.86 (RT)
STA. 338+12.25 103.45' RT
STA. 340+37.03 126.52' RT
STA. 340+88.93 179.82' RT
SEE SHEET NO. 24
SEE SHEET NO. 26
MATCH LINE STA. 331+00
MATCH LINE STA. 342+00

S.R. 29 (MAINLINE)
PI 340+22.35
N 615,368.2894
E 2,404,772.8910
Δs 28° 01' 36" (RT)
θs 8° 00' 00"
Δc 12° 01' 36" (RT)
D 4° 00' 00"
R 1,432.39
Lc 300.67
Ts 558.52
Ls 400.00
LT 266.94
ST 133.58
Es 48.73
X 399.22
Y 18.59
k 199.87
p 4.65
SE 0.063 FT/FT
DES. SPEED 50 MPH

(45) JUDY SAFFALL TANNER(½), DANNY HONEYCUTT(¼), AND MICKEY HONEYCUTT(¼)

COORDINATE VALUES ARE NAD/83(1995) AND ARE DATUM ADJUSTED BY THE FACTOR L00000900 & TIED TO THE TGRN.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
BUREAU OF PLANNING & DEVELOPMENT

PRESENT LAYOUT

STA. 331+00 TO STA. 342+00

SCALE: 1"= 50'

$$SYTIME$$
$$ROADSPEC$$

TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2007	HPP-NH-29(36)	25A
R.O.W.	2007	HPP-NH-29(35)	

335+00

340+00

BITTER CREEK

INV. EL.
OUT 867.37

STA. 340+60.27
10.0' PVT. DR.

LIMIT OF CONST.
STA. 12+12.00

EXTEND EXIST.
CULV. 42' LT.

R 45'

PI 340+22.35

R15'

TYPE 2
TYPE 13

STA. 335+75.67
254' @ 48"RCP
SKEW 90°

TYPE 38

TYPE 2

FT 331+48.14

N 46° 05' 28" W

℄ S.R. 29

PI 337+30.77

30'

TS 334+63.83

R 15'

R 15'

SC 338+63.83

R 45'

STA. 338+15.26
10.0' PVT. DR.

INV. EL.
IN 873.03

V-SOD

LIMIT OF CONST.
STA. 10+68.00

TYPE 38
TYPE 2

℄ 341+64.50

STA. 331+00

SEE SHEET NO. 24A

MATCH LINE

STA. 342+00

SEE SHEET NO. 26A

MATCH LINE

N

S.R. 29 (MAINLINE)

PI 340+22.35
N 615,368.2894
E 2,404,772.8910
Δs 28° 01' 36" (RT)
θs 8° 00' 00"
Δc 12° 01' 36" (RT)
D 4° 00' 00"
R 1,432.39
Lc 300.67
Ts 558.52
Ls 400.00
LT 266.94
ST 133.58
Es 48.73
X 399.22
Y 18.59
k 199.87
p 4.65
SE 0.063 FT/FT
DES. SPEED 50 MPH

COORDINATE VALUES ARE NAD/83(1995) AND ARE DATUM ADJUSTED BY THE FACTOR L00000900 & TIED TO THE TGRN.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
BUREAU OF PLANNING & DEVELOPMENT

PROPOSED LAYOUT

STA. 331+00 TO STA. 342+00

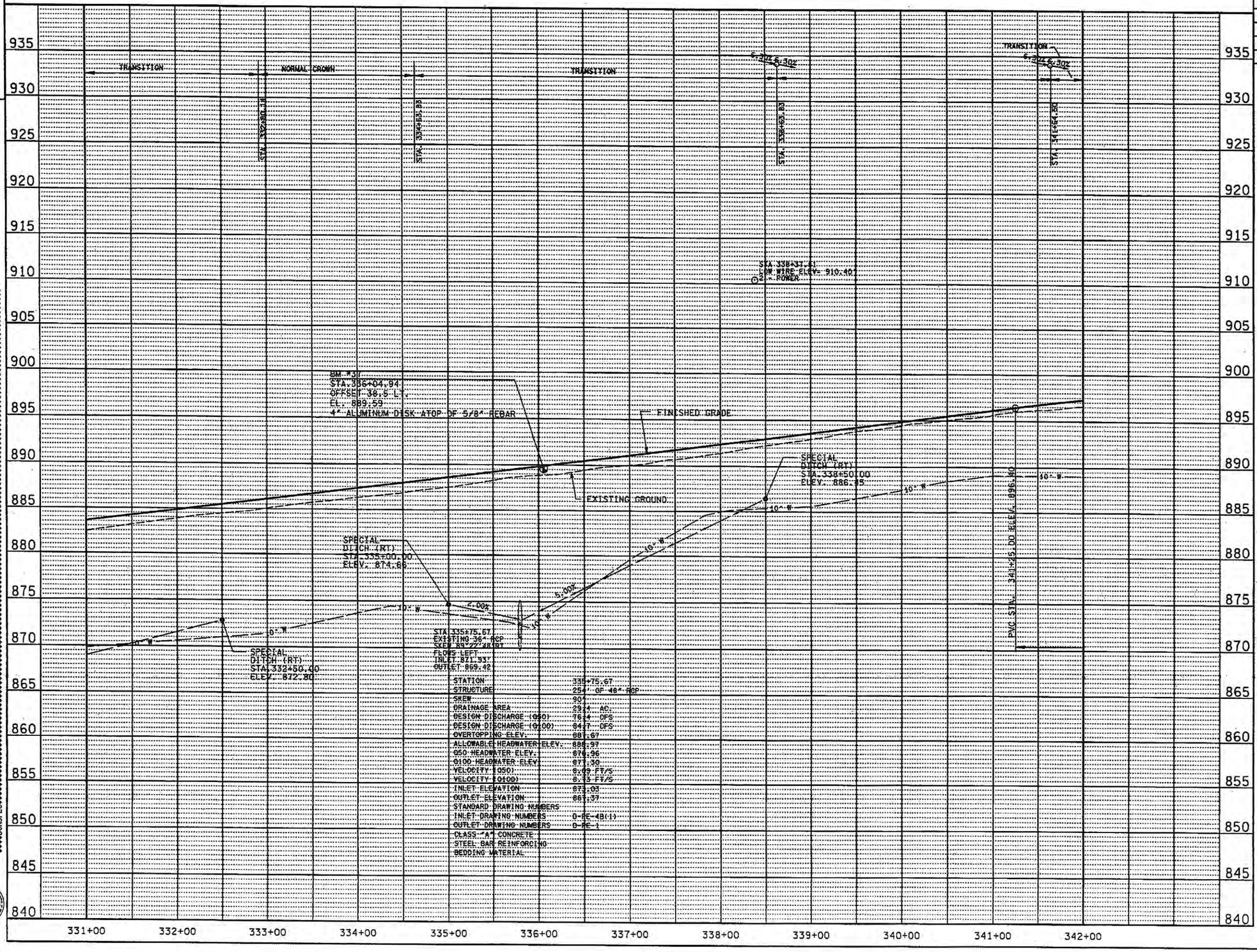
SCALE: 1"= 50'

Survey & Design Division

$$SYTIME$$
$$DGNSPEC$$

TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

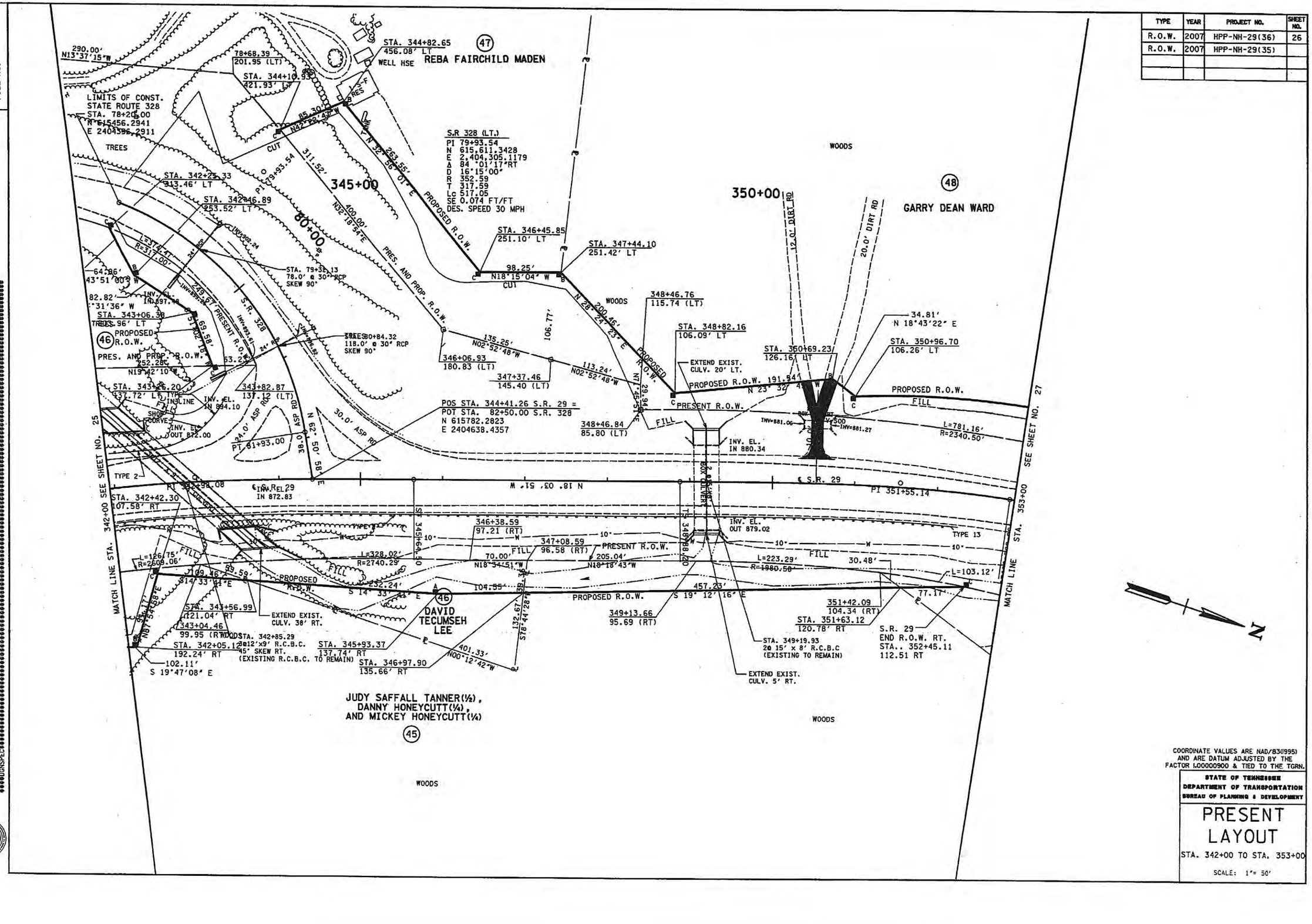
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2004	HPP-NH-29(36)	25B
R.O.W.	2004	HPP-NH-29(35)	



\$\$\$\$SYTIME\$\$\$\$\$\$\$
\$\$\$\$DONSPEC\$\$\$\$\$\$\$

TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2007	HPP-NH-29(36)	26
R.O.W.	2007	HPP-NH-29(35)	



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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
BUREAU OF PLANNING & DEVELOPMENT

PRESENT LAYOUT

STA. 342+00 TO STA. 353+00

SCALE: 1"= 50'

$$SYTIME$$
$$DGNSPEC$$

TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2007	HPP-NH-29(36)	325
R.O.W.	2007	HPP-NH-29(35)	360

335+00

340+00

PRES. AND PROP. R.O.W.

SEE SHEET NO. 324

STA. 331+00

MATCH LINE

N 46° 05' 28" W

℄ S.R. 29

FILL

PROPOSED R.O.W.

CUT

PRESENT R.O.W.

CUT

MATCH LINE

STA. 342+00

SEE SHEET NO. 326

N

COORDINATE VALUES ARE NAD/83(1995) AND ARE DATUM ADJUSTED BY THE FACTOR 1.00000900 & TIED TO THE TGRN.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
BUREAU OF PLANNING & DEVELOPMENT

EROSION CONTROL PLAN PHASE I

STA. 331+00 TO STA. 342+00

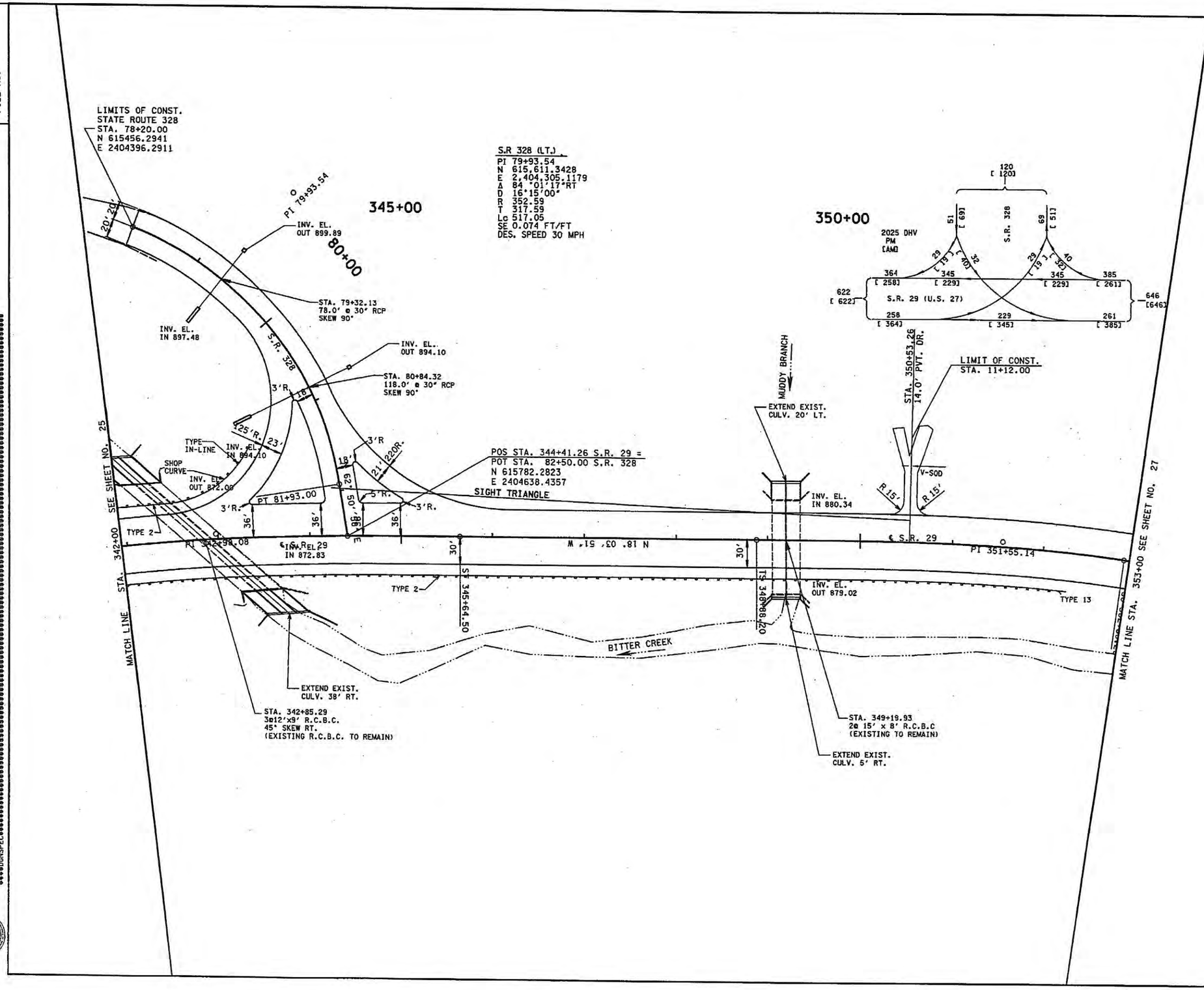
SCALE: 1"= 50'

$$$$SYTIME$$$$

$$$$DONSPEC$$$$

TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2007	HPP-NH-29(36)	26A
R.O.W.	2007	HPP-NH-29(35)	



COORDINATE VALUES ARE NAD/83(1995) AND ARE DATUM ADJUSTED BY THE FACTOR 1.00000900 & TIED TO THE TGRN.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
BUREAU OF PLANNING & DEVELOPMENT

PROPOSED LAYOUT

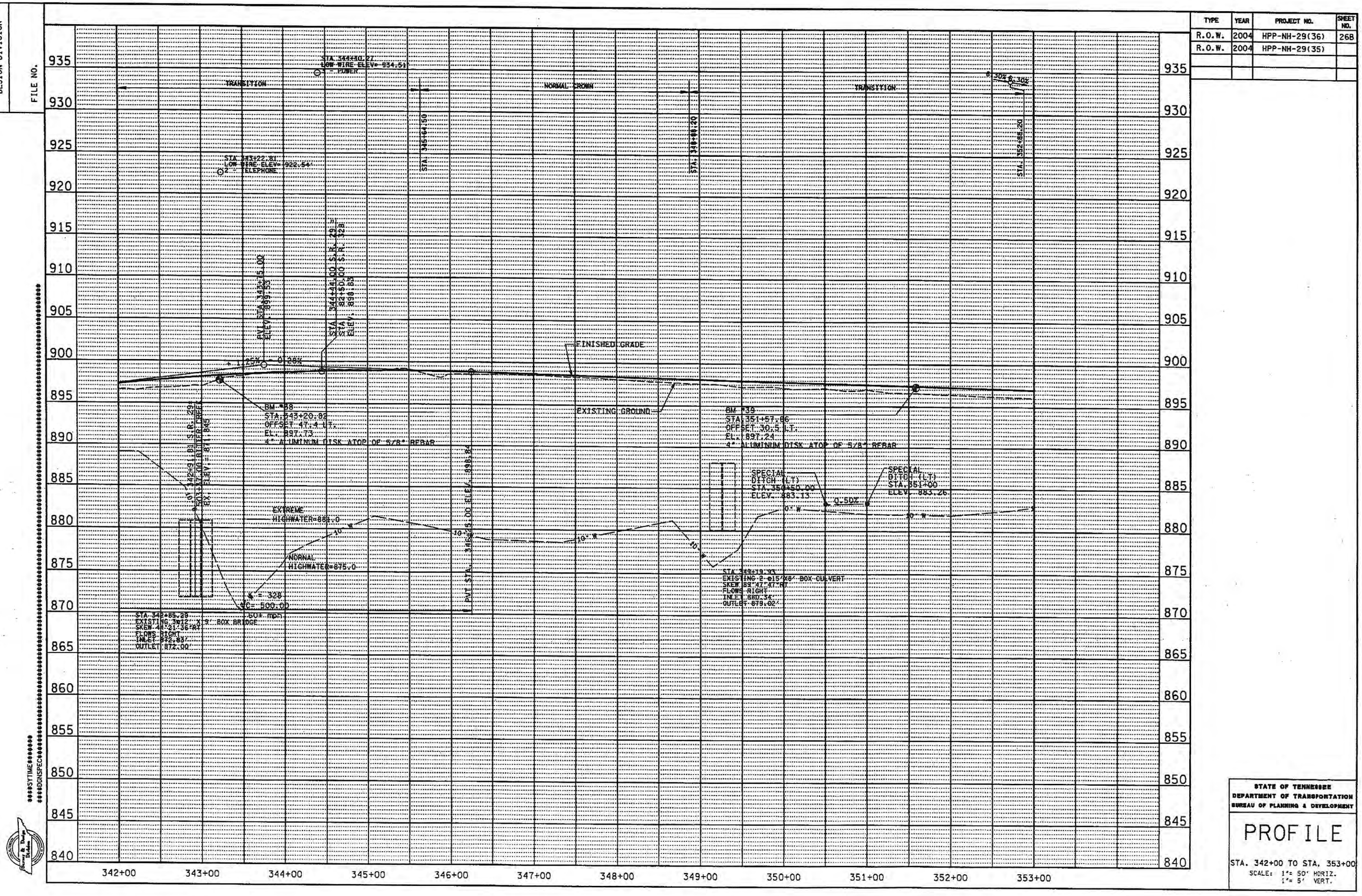
STA. 342+00 TO STA. 353+00

SCALE: 1"= 50'

$$SYTIME$$
$$DGNSPEC$$

TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2004	HPP-NH-29(36)	26B
R.O.W.	2004	HPP-NH-29(35)	



STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
BUREAU OF PLANNING & DEVELOPMENT

PROFILE

STA. 342+00 TO STA. 353+00

SCALE: 1"= 50' HORIZ.
1"= 5' VERT.

$$SYTIME$$
$$DGNSPEC$$

TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2007	HPP-NH-29(36)	27
R.O.W.	2007	HPP-NH-29(35)	

WOODS

355+00

360+00

(48)
GARRY DEAN WARD

WOODS

WOODS

S 29° 16' 15" E
(TOTAL 1177.83')
467.93'

S.R. 29
END R.O.W. PROJECT
NO. 65001-2257-14
STA. 357+48.10
101.52 (LT)

(50)
LARRY WILL

STA. 356+44.14
92.65' LT

108.20'
N 0° 05' 12" W

356+02.05
73.38 (LT)

R= 1100.00
S 5° 16' 24" E
Lc.=584.73

BEGIN PROJECT NO. STP-NHE-29(47) CONST.
STA. 357+48.09 S.R. 29
N 617050.5241
E 2404382.7436

STA. 357+48.09
101.52' LT

PROPOSED R.O.W.
PRESENT R.O.W.
FILL
10.01'
S82°37'01"E
76.80'

WOODS

445.91'
N06°26'23"E

INV=920.34
INV=918.67

356+01.13
63.41 (LT)

356+92.41
58.17 (LT)

PI 354+09.02

℄ S.R. 29

PI 356+51.27

℄ S.R. 29

N 7° 06' 55" E

S25°55'48"E
425.89'

INV=905.08

485.09'
N07°10'41"E

PRESENT R.O.W.

N 7° 06' 55" E

MATCH LINE STA. 353+00

SEE SHEET NO. 26

℄ S.R. 29 355+71.69

FILL

INV=888.70

INV=889.68

355+80.17
137.83 (RT)

358+21.40
97.07 (RT)

FILL
219.50'
N07°18'35"E

℄ S.R. 29 356+17.69 BACK
℄ S.R. 29 355+20.45 AHEAD

45.33'
N82°28'20"W

INV=900.38

511.11'
N06°53'36"E

PRESENT R.O.W.

(23' ASP.)
ASP. SHLD

10' GRAVEL DRIVE

SHED

MOBILE HOME (REMOVED)

L=404.98'
R=1367.02'

INV=890.51

228.19'
N05°52'27"E

358+21.53
143.64 (RT)

INV=896.65

46.57'
N83°33'37"W

END CONST. S.R. 29
STA. 357+48.09
N 617050.5241
E 2404382.7436

(27)
JOSEPH A. ARMES

℄ M.SE.00.81S
.60'116

S.R. 29 (MAINLINE)

PI 354+09.02
N 616,702.1747
E 2,404,337.8298
Δs 25° 10' 46" (RT)
θs 8° 00' 00"
Δc 9° 10' 46" (RT)
D 4° 00' 00"
R 1,432.39
Lc 229.49
Ts 520.82
Ls 400.00
LT 266.94
ST 133.58
Es 40.06
X 399.22
Y 18.59
k 199.87
p 4.65
SE 0.063 FT/FT
DES. SPEED 50 MPH

WOODS

WOODS

N

COORDINATE VALUES ARE NAD/83(1995)
AND ARE DATUM ADJUSTED BY THE
FACTOR 1.00000900 & TIED TO THE TGRN.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
BUREAU OF PLANNING & DEVELOPMENT

PRESENT LAYOUT

STA. 353+00 TO STA. 364+74

SCALE: 1"= 50'

SYTIME**
DGNSPEC**

TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2007	HPP-NH-29(36)	27A
R.O.W.	2007	HPP-NH-29(35)	

355+00

360+00

LIMIT OF CONST.
STA. 11+50.00

STA. 357+28.26
10.0' PVT. DR.

BEGIN PROJECT NO. STP-NHE-29(47) CONST.
STA. 357+48.09 S.R. 29
N 617050.5241
E 2404382.7436

R 20'
R 15'
R 15'
T-SOD

MATCH LINE STA. 353+00
SEE SHEET NO. 26

PI 354+09.02

30'
℄ S.R. 29

PI 356+51.27

℄ S.R. 29 N 7° 06' 55" E

S.R. 29 N 7° 06' 55" E

R 25'
R 25'

CS 355+17.69

ST 359+17.69 BACK
ST 359+20.43 AHEAD

BITTER CREEK

CONSTRUCTED IN PROJECT
NO. 65001-1259-14
SR 29 (US 27)

END CONST. S.R. 29
STA. 357+48.09
N 617050.5241
E 2404382.7436

LIMIT OF CONST.
STA. 11+42.43

STA. 356+68.26
20.0' PVT. DR.

N

S.R. 29 (MAINLINE)

PI 354+09.02
N 616,702.1747
E 2,404,337.8298
Δs 25° 10' 46" (RT)
θs 8° 00' 00"
Δc 9° 10' 46" (RT)
D 4° 00' 00"
R 1,432.39
Lc 229.49
Ts 520.82
Ls 400.00
LT 266.94
ST 133.58
Es 40.06
X 399.22
Y 18.59
k 199.87
p 4.65
SE 0.063 FT/FT
DES. SPEED 50 MPH

COORDINATE VALUES ARE NAD/83(1995)
AND ARE DATUM ADJUSTED BY THE
FACTOR L00000900 & TIED TO THE TGRN.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
BUREAU OF PLANNING & DEVELOPMENT

PROPOSED LAYOUT

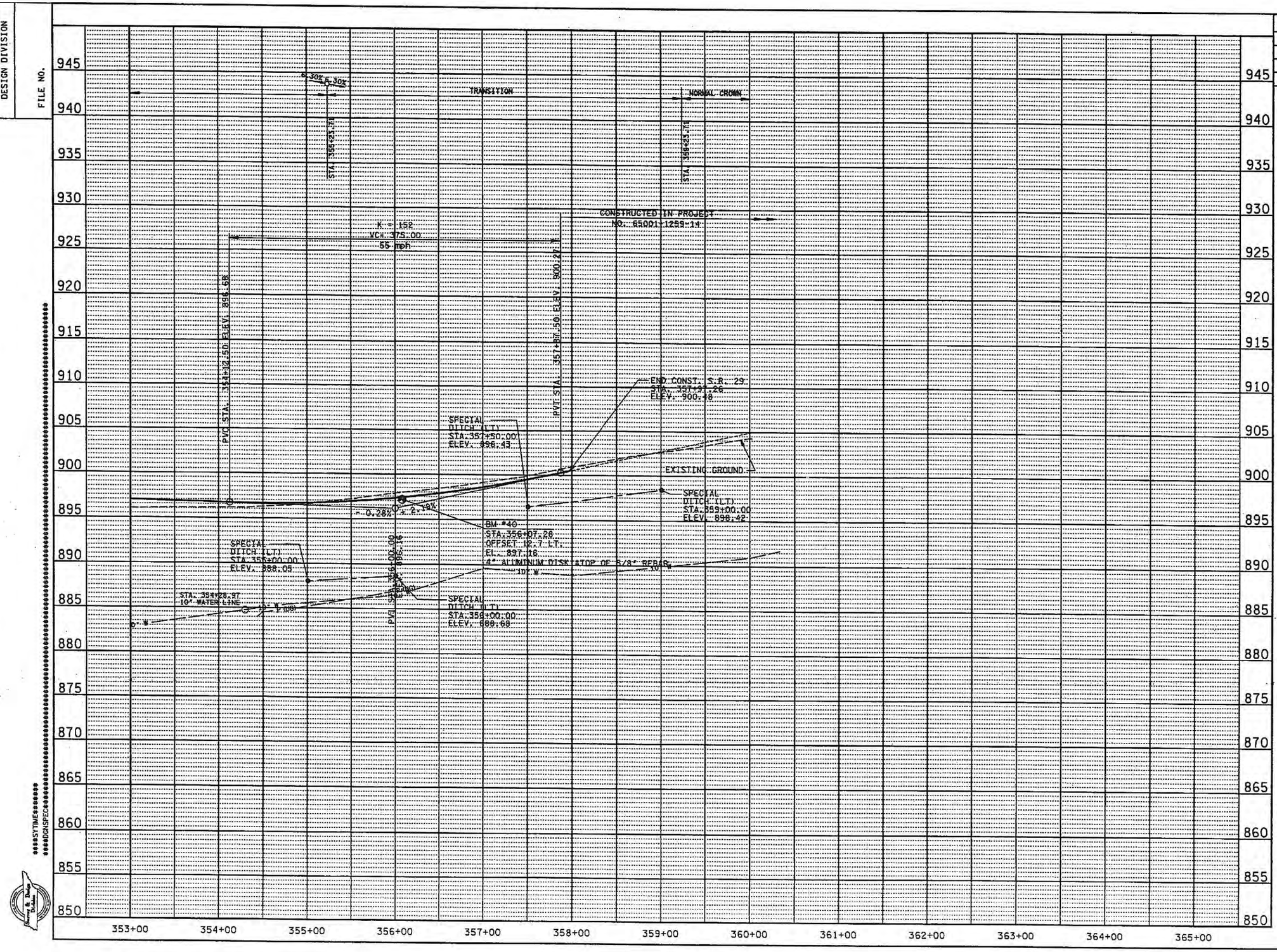
STA. 353+00 TO STA. 360+00

SCALE: 1"= 50'

$$$$SYTIME$$$$$$$
$$$$DGNSPEC$$$$$$$

TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2004	HPP-NH-29(36)	27B
R.O.W.	2004	HPP-NH-29(35)	



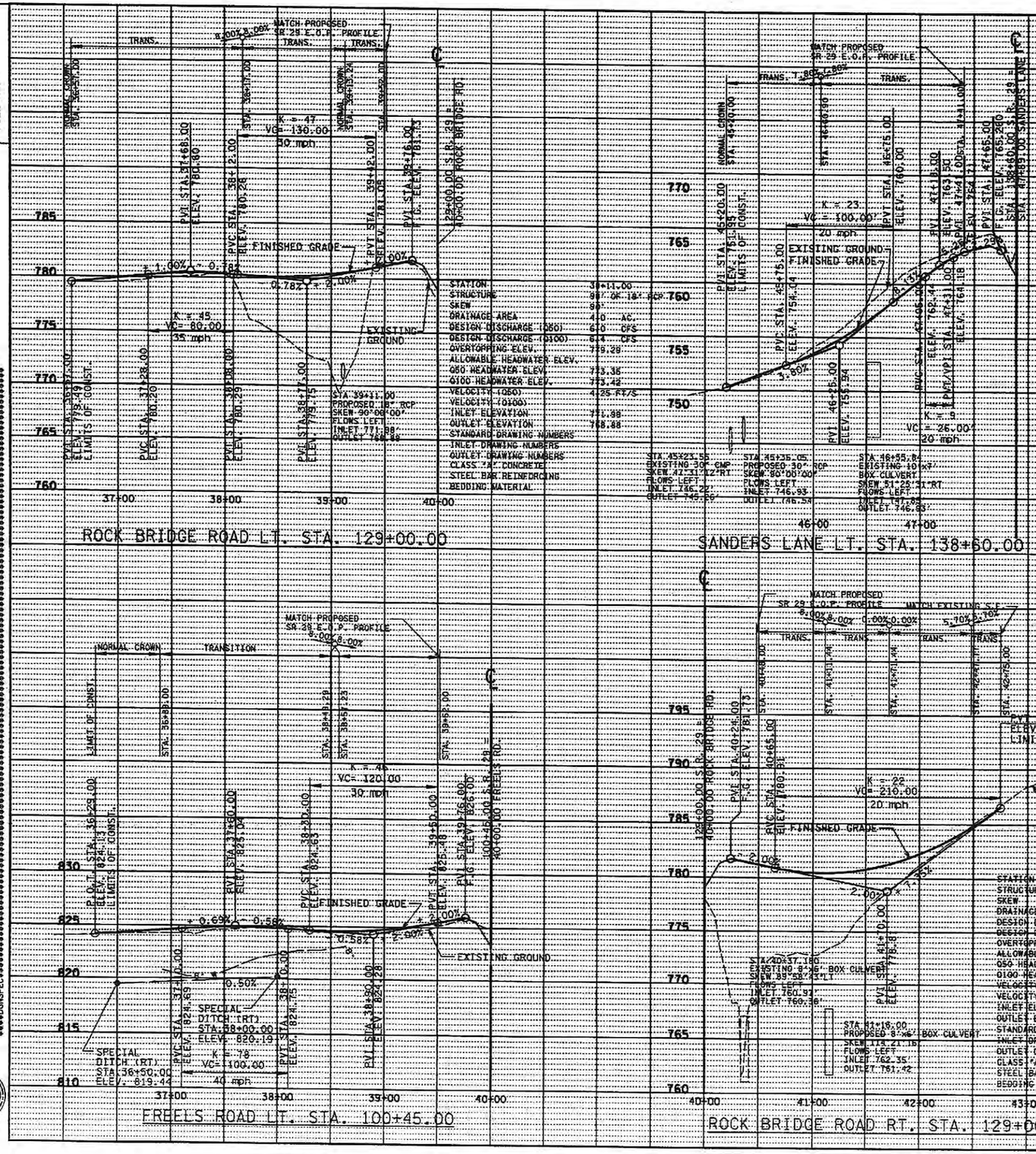
STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
BUREAU OF PLANNING & DEVELOPMENT

PROFILE

STA. 353+00 TO STA. 360+00
SCALE: 1"= 50' HORIZ.
1"= 5' VERT.

TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2004	HPP-NH-29(36)	28
R.O.W.	2004	HPP-NH-29(35)	



STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
BUREAU OF PLANNING & DEVELOPMENT

PROFILE OF SIDE ROADS AND STREETS

SCALE: 1"= 50' HORIZ.
1"= 5' VERT.

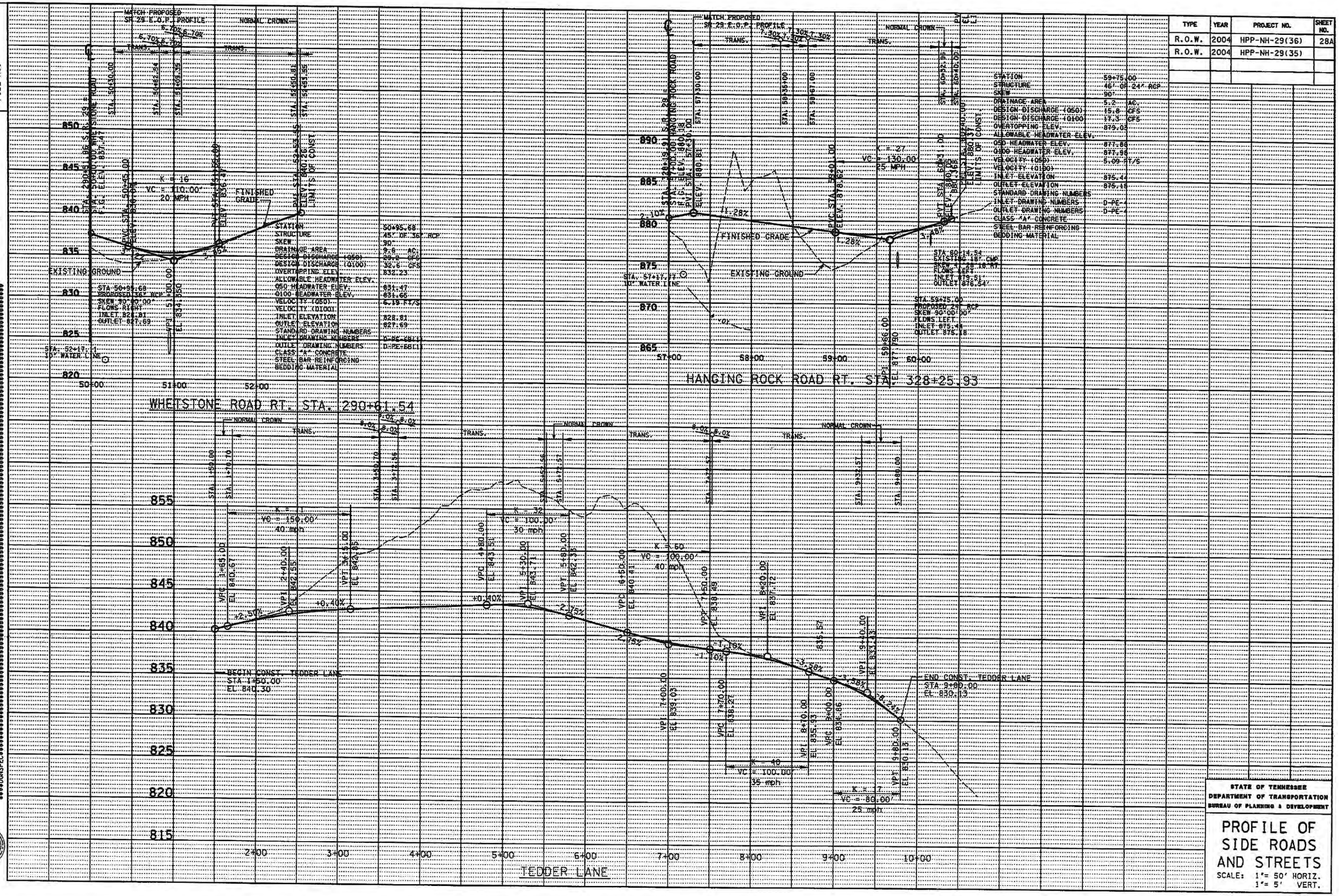
$TIME
DGNSPEC

TENNESSEE D.O.T.

DESIGN DIVISION

FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2004	HPP-NH-29(36)	28A
R.O.W.	2004	HPP-NH-29(35)	



STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
BUREAU OF PLANNING & DEVELOPMENT

PROFILE OF SIDE ROADS AND STREETS

SCALE: 1"= 50' HORIZ.
1"= 5' VERT.

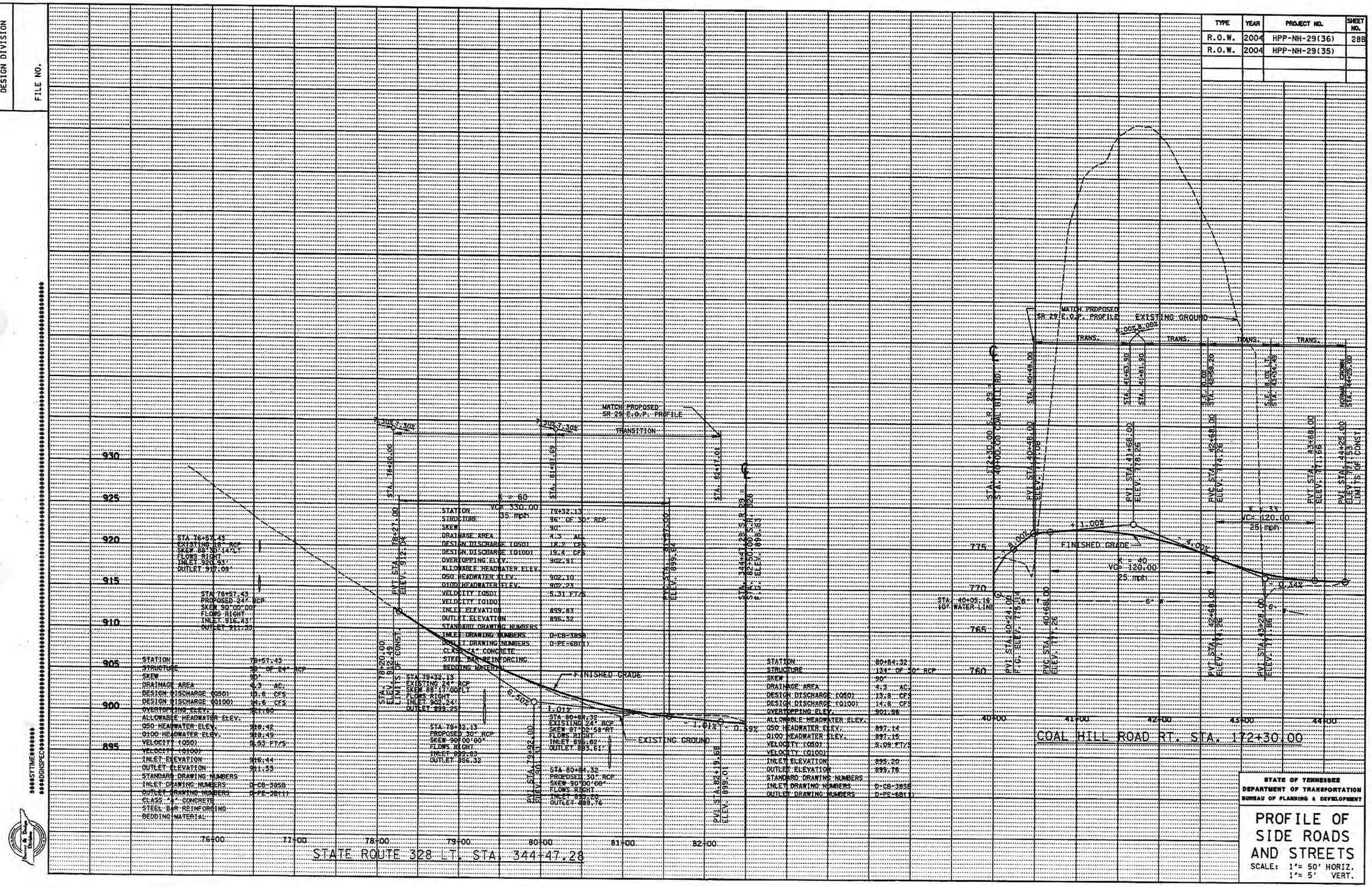
Design & Drafting Division

SYTIME

DONSPEC

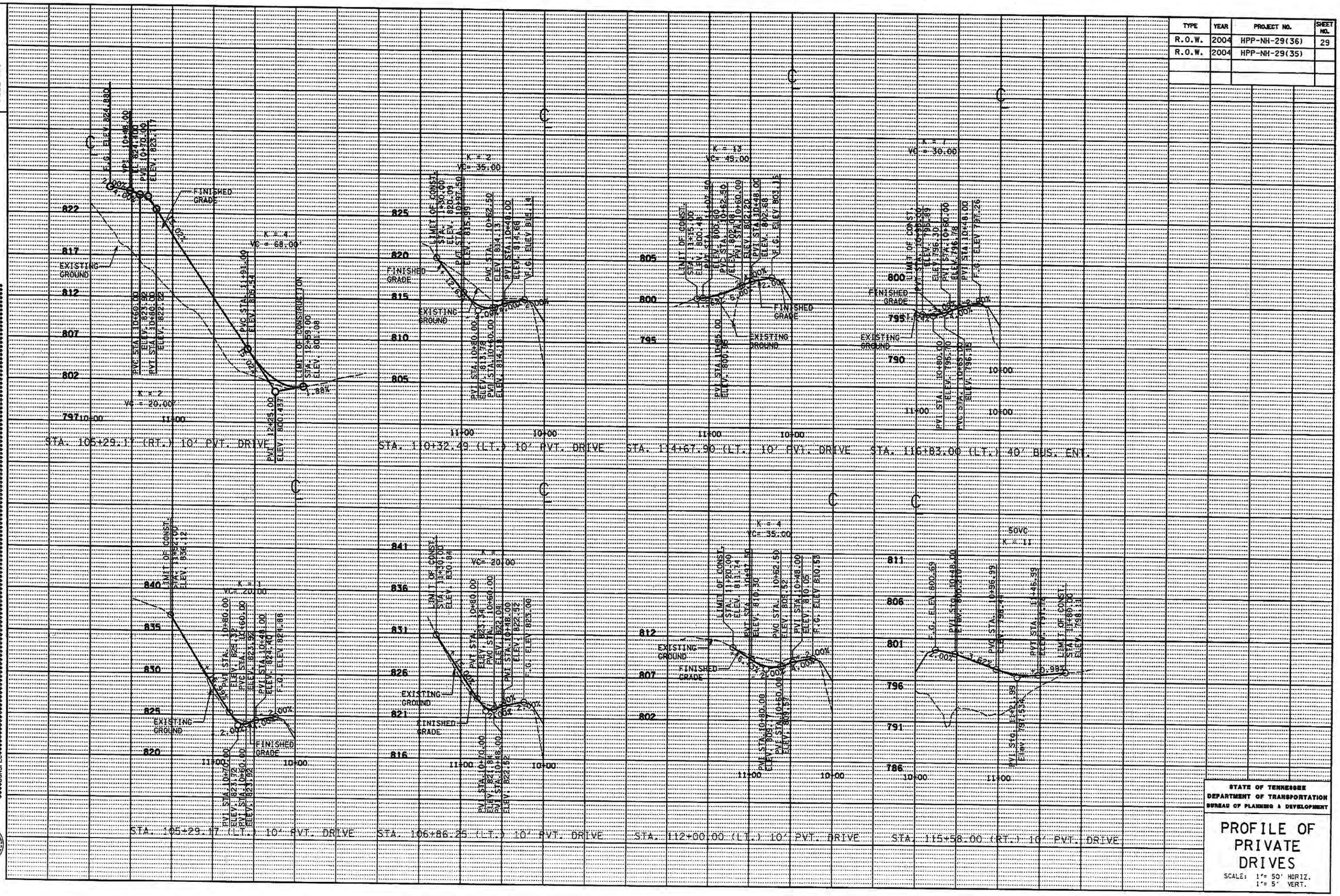
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2004	HPP-NH-29(36)	28B
R.O.W.	2004	HPP-NH-29(35)	


MATCH PROPOSED SR-29 E.O.P. PROFILE
EXISTING GROUND
TRANSITION
FINISHED GRADE
EXISTING GROUND
STA 76+57.43
EXISTING 42" RCP
SKEW 88°30'14"LT
FLOWS RIGHT
INLET 912.43
OUTLET 910.09
STA 76+57.43
PROPOSED 24" RCP
SKEW 90°00'00"
FLOWS RIGHT
INLET 910.43
OUTLET 911.33
STATION 76+57.43
STRUCTURE 30" OF 24" RCP
SKEW 90°
DRAINAGE AREA 4.3 AC.
DESIGN DISCHARGE (Q50) 13.8 CFS
DESIGN DISCHARGE (Q100) 14.8 CFS
OVERTOPPING ELEV. 921.00
ALLOWABLE HEADWATER ELEV.
Q50 HEADWATER ELEV. 918.12
Q100 HEADWATER ELEV. 918.49
VELOCITY (Q50) 5.53 FT/S
VELOCITY (Q100)
INLET ELEVATION 910.44
OUTLET ELEVATION 911.33
STANDARD DRAWING NUMBERS
INLET DRAWING NUMBERS 0-CB-3858
OUTLET DRAWING NUMBERS 0-PE-3617
CLASS "A" CONCRETE
STEEL BAR REINFORCING
BEDDING MATERIAL
STA 78+20.00
ELEV. 919.49
LIMITS OF CONST
PVI STA 78+21.00
ELEV. 919.24
STA 76+40.00
STA 78+32.13
EXISTING 24" RCP
SKEW 88°17'00"LT
FLOWS RIGHT
INLET 902.24
OUTLET 899.25
STA 78+32.13
PROPOSED 30" RCP
SKEW 90°00'00"
FLOWS RIGHT
INLET 899.83
OUTLET 896.32
PVI STA 79+92.00
ELEV. 901.90
STA 81+07.89
STA 82+17.01
PVI STA 82+19.68
ELEV. 899.01
STATION 78+32.13
STRUCTURE 96" OF 30" RCP
SKEW 90°
DRAINAGE AREA 4.3 AC.
DESIGN DISCHARGE (Q50) 18.2 CFS
DESIGN DISCHARGE (Q100) 19.4 CFS
OVERTOPPING ELEV. 902.91
ALLOWABLE HEADWATER ELEV.
Q50 HEADWATER ELEV. 902.10
Q100 HEADWATER ELEV. 902.23
VELOCITY (Q50) 5.31 FT/S
VELOCITY (Q100)
INLET ELEVATION 899.83
OUTLET ELEVATION 896.32
STANDARD DRAWING NUMBERS
INLET DRAWING NUMBERS 0-CB-3858
OUTLET DRAWING NUMBERS 0-PE-6800
CLASS "A" CONCRETE
STEEL BAR REINFORCING
BEDDING MATERIAL
STA 80+84.32
EXISTING 24" RCP
SKEW 87°02'58"RT
FLOWS RIGHT
INLET 896.82
OUTLET 893.61
STA 80+84.32
PROPOSED 30" RCP
SKEW 90°00'00"
FLOWS RIGHT
INLET 937.20
OUTLET 889.76
STA 80+84.32
EXISTING 24" RCP
SKEW 87°02'58"RT
FLOWS RIGHT
INLET 896.82
OUTLET 893.61
STA 344+47.28 P.O.T. 82+50.00 S.R. 29 = P.O.T. 344+47.28 S.R. 328
ELEV. 899.83
STATION 80+84.32
STRUCTURE 134" OF 30" RCP
SKEW 90°
DRAINAGE AREA 4.3 AC.
DESIGN DISCHARGE (Q50) 13.8 CFS
DESIGN DISCHARGE (Q100) 14.8 CFS
OVERTOPPING ELEV. 901.96
ALLOWABLE HEADWATER ELEV.
Q50 HEADWATER ELEV. 897.14
Q100 HEADWATER ELEV. 897.35
VELOCITY (Q50) 5.08 FT/S
VELOCITY (Q100)
INLET ELEVATION 893.20
OUTLET ELEVATION 893.76
STANDARD DRAWING NUMBERS
INLET DRAWING NUMBERS 0-CB-3858
OUTLET DRAWING NUMBERS 0-PE-6811
STA 40+24.00
ELEV. 775.86
PVI STA 40+28.00
ELEV. 777.06
STA 40+06.00
PVI STA 40+46.00
ELEV. 777.06
PVC STA 41+66.00
ELEV. 774.26
PVI STA 42+66.00
ELEV. 771.26
PVC STA 43+66.00
ELEV. 771.26
PVI STA 43+68.00
ELEV. 771.66
PVI STA 44+28.00
ELEV. 771.86
LIMITS OF CONST
STA 40+05.18
10" WATER LINE
+1.00%
-4.00%
+4.00%
-6.00%
+6.00%
-6.00%
+6.00%
-6.34%
VC = 120.00
25 mph
K = 40
VC = 120.00
25 mph
STA 41+62.50
STA 41+81.50
STA 42+58.20
STA 43+31.78
STA 44+25.00
NORMAL CROWN
STA 44+53.55
LIMITS OF CONST
6.00%
6.00%
6.00%

TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2004	HPP-NH-29(36)	29
R.O.W.	2004	HPP-NH-29(35)	



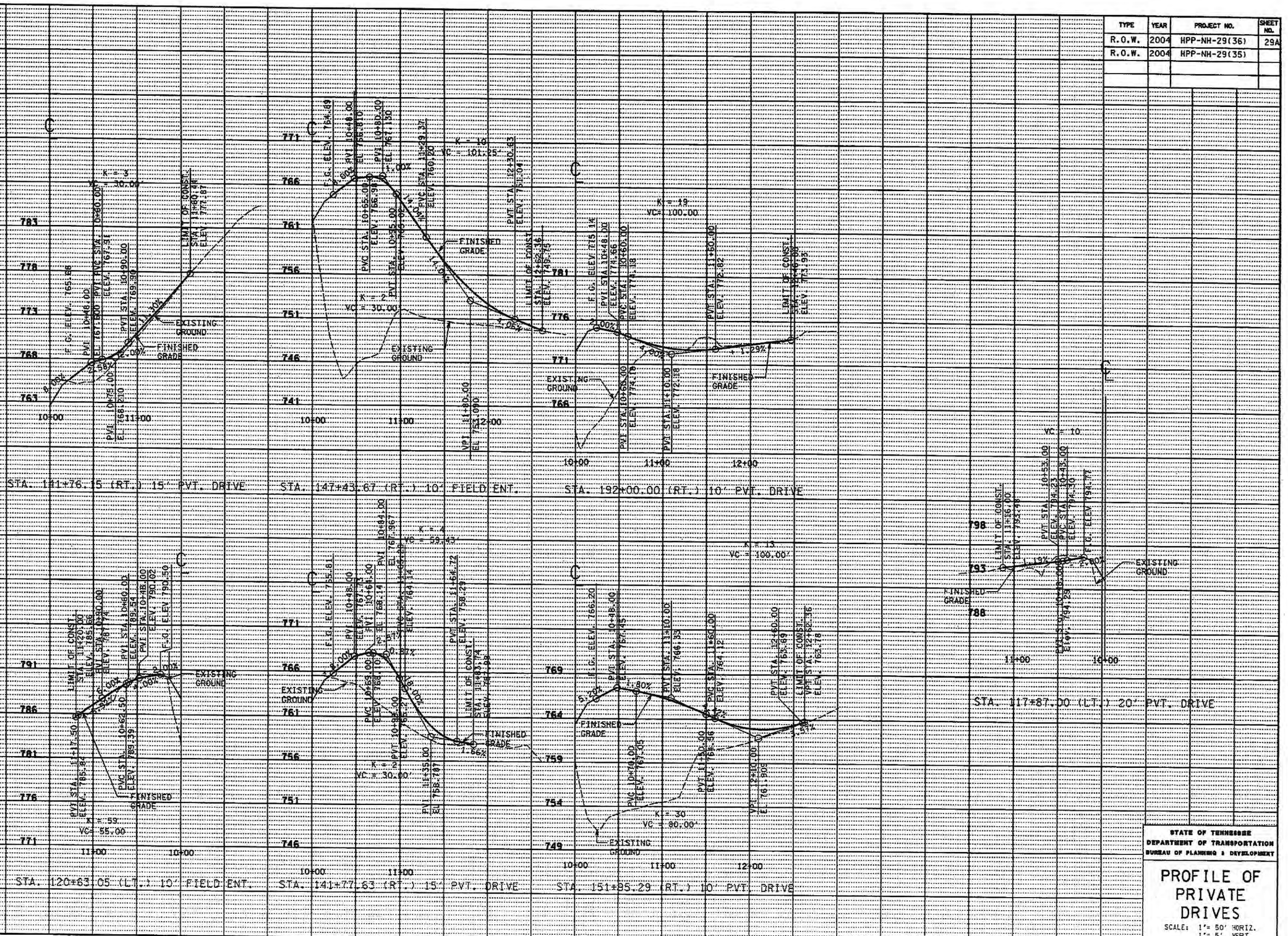
STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
BUREAU OF PLANNING & DEVELOPMENT

PROFILE OF PRIVATE DRIVES

SCALE: 1"= 50' HORIZ.
1"= 5' VERT.

TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2004	HPP-NH-29(36)	29A
R.O.W.	2004	HPP-NH-29(35)	



STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
BUREAU OF PLANNING & DEVELOPMENT

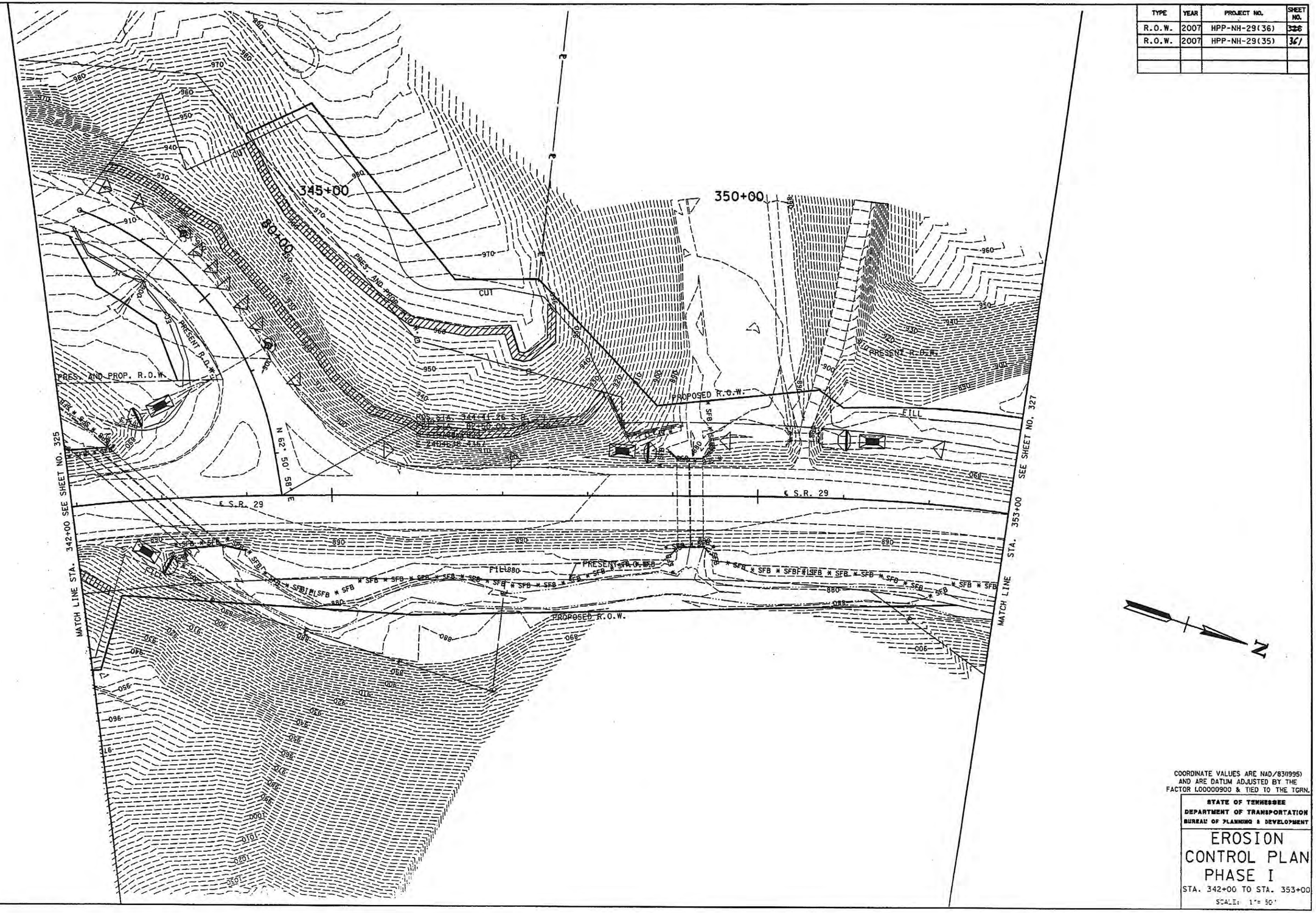
PROFILE OF PRIVATE DRIVES

SCALE: 1"= 50' HORIZ.
1"= 5' VERT.

SYTIME
DGNSPEC

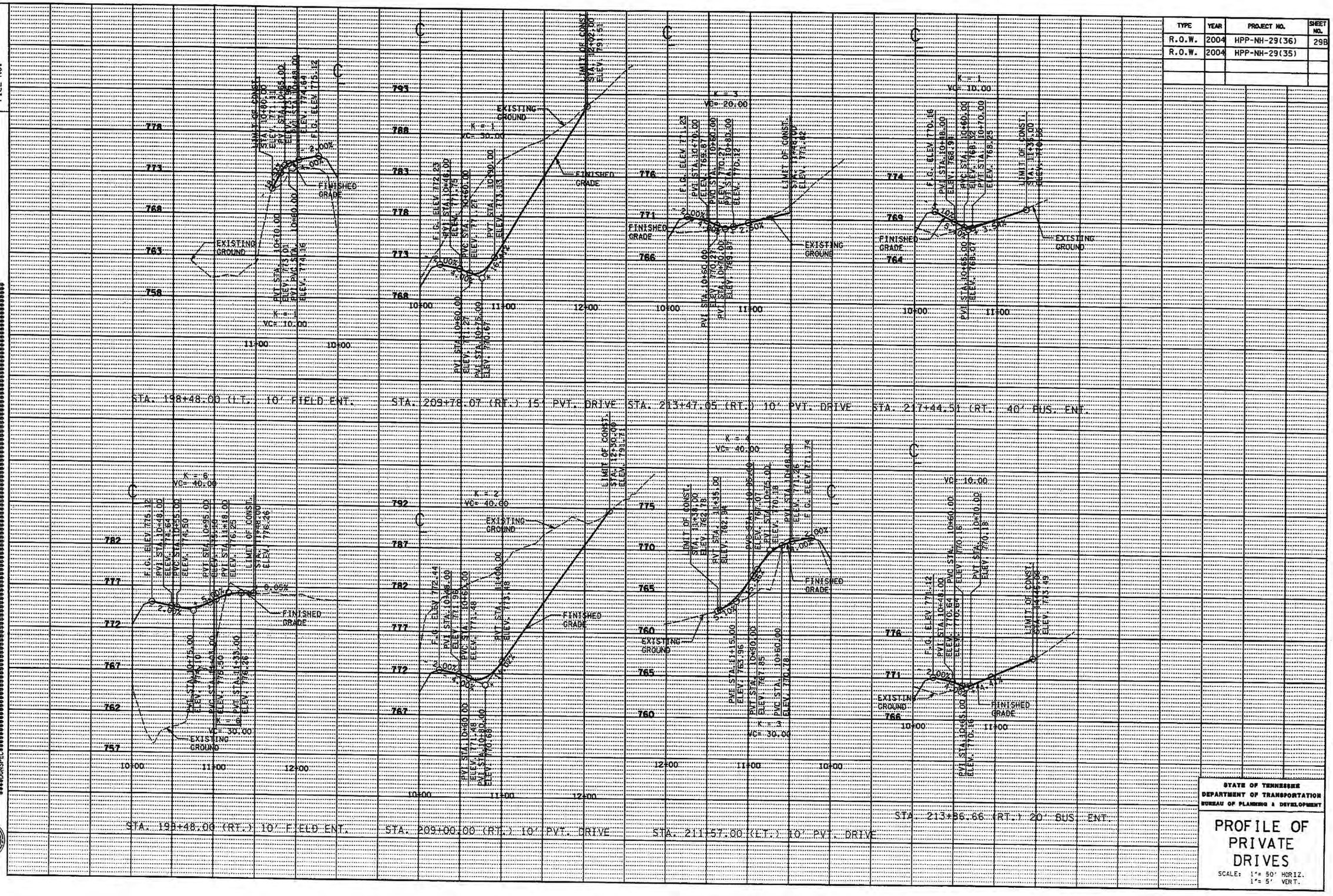
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2007	HPP-NH-29(36)	~~326~~
R.O.W.	2007	HPP-NH-29(35)	361


345+00
350+00
80+00
PRES. AND PROP. R.O.W.
PRESENT R.O.W.
PROPOSED R.O.W.
CUT
FILL
℄ S.R. 29
N 62° 50' 58" E
MATCH LINE STA. 342+00 SEE SHEET NO. 325
MATCH LINE STA. 353+00 SEE SHEET NO. 327
SFB * SFB * SFB *

TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2004	HPP-NH-29(36)	29B
R.O.W.	2004	HPP-NH-29(35)	



STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
BUREAU OF PLANNING & DEVELOPMENT

PROFILE OF PRIVATE DRIVES

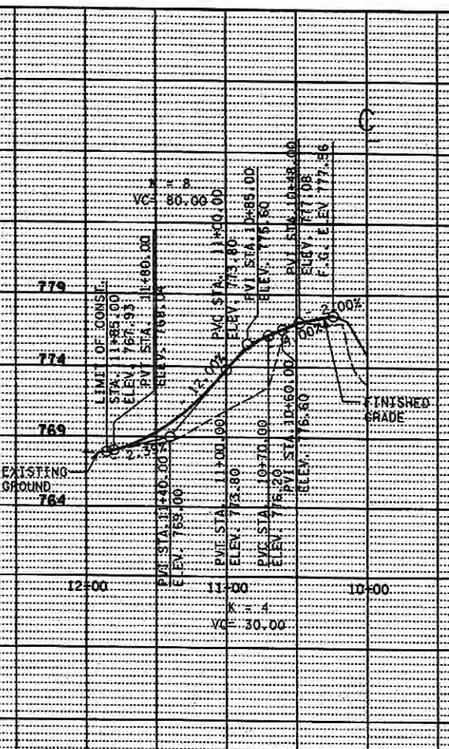
SCALE: 1"= 50' HORIZ.
1"= 5' VERT.

$$SYTIME$$
$$DGNSPEC$$

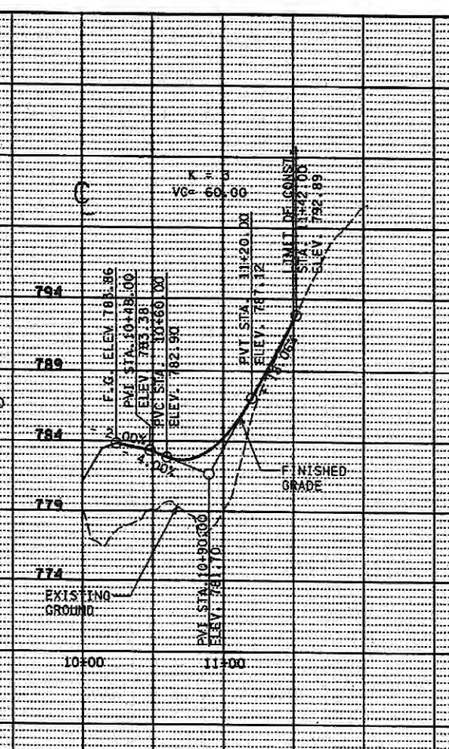
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2004	HPP-NH-29(36)	29C
R.O.W.	2004	HPP-NH-29(35)	

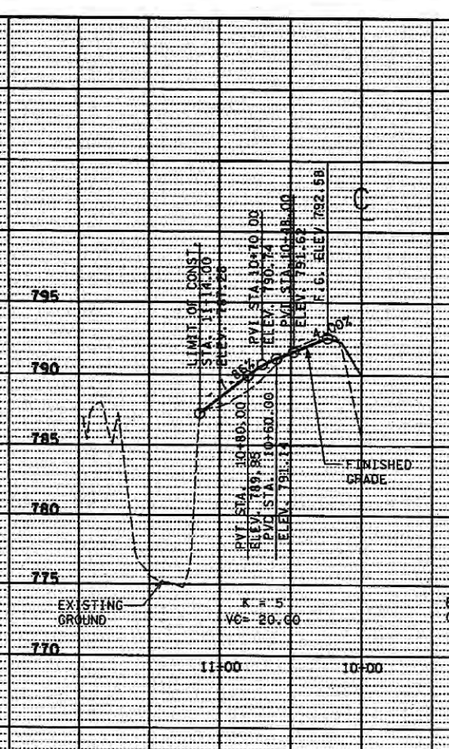
STA. 233+00.00 (LT.) 10' PVT. DRIVE



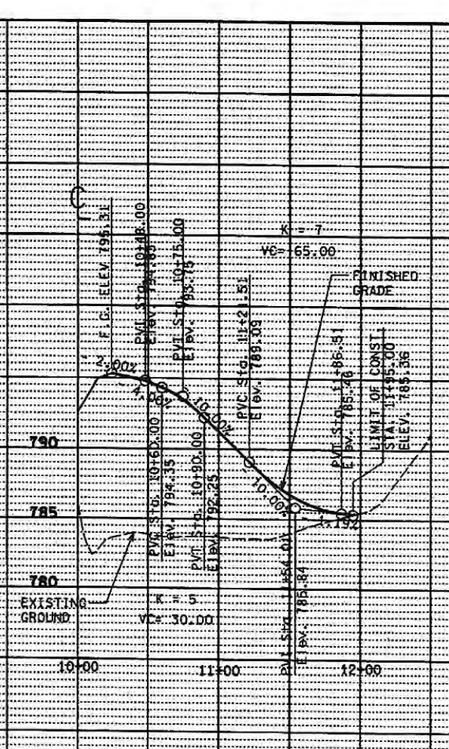
STA. 240+41.06 (RT.) 10' PVT. DRIVE



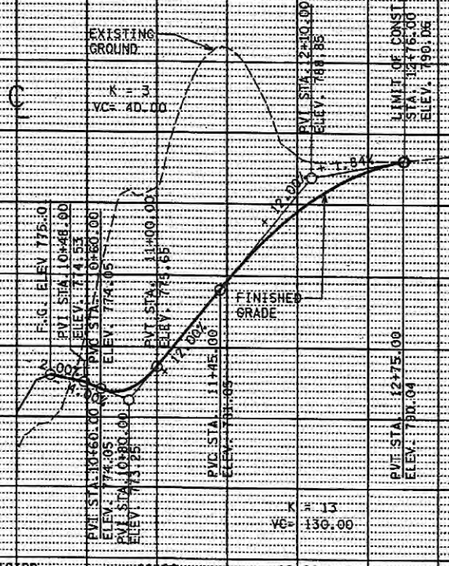
STA. 250+67.00 (LT.) 15' PVT. DRIVE



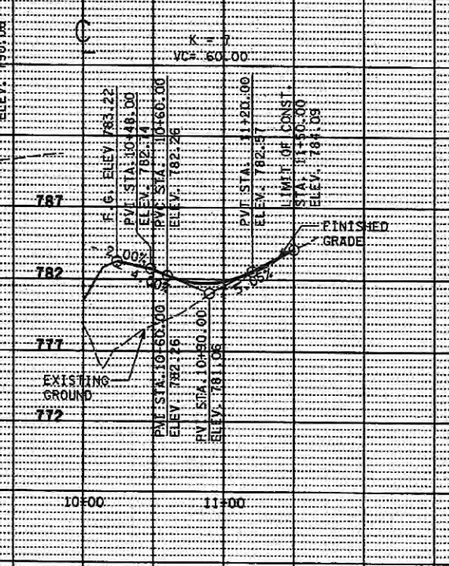
STA. 253+58.00 (RT.) 10' FIELD ENT.



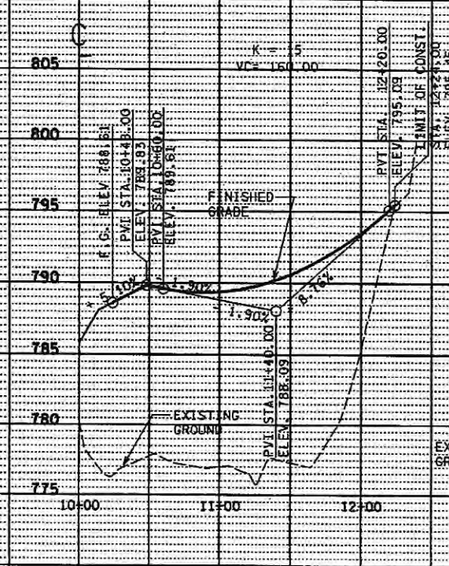
STA. 230+00.00 (RT.) 10' PVT. DRIVE



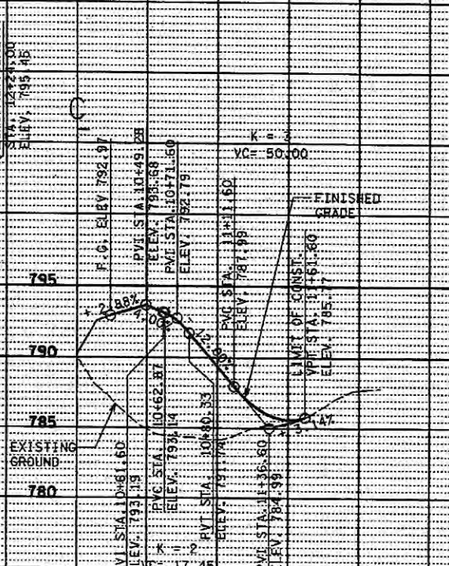
STA. 239+65.74 (RT.) 10' PVT. DRIVE



STA. 246+00.00 (RT.) 10' FIELD ENT.



STA. 251+07.05 (RT.) 10' PVT. DRIVE



STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
BUREAU OF PLANNING & DEVELOPMENT

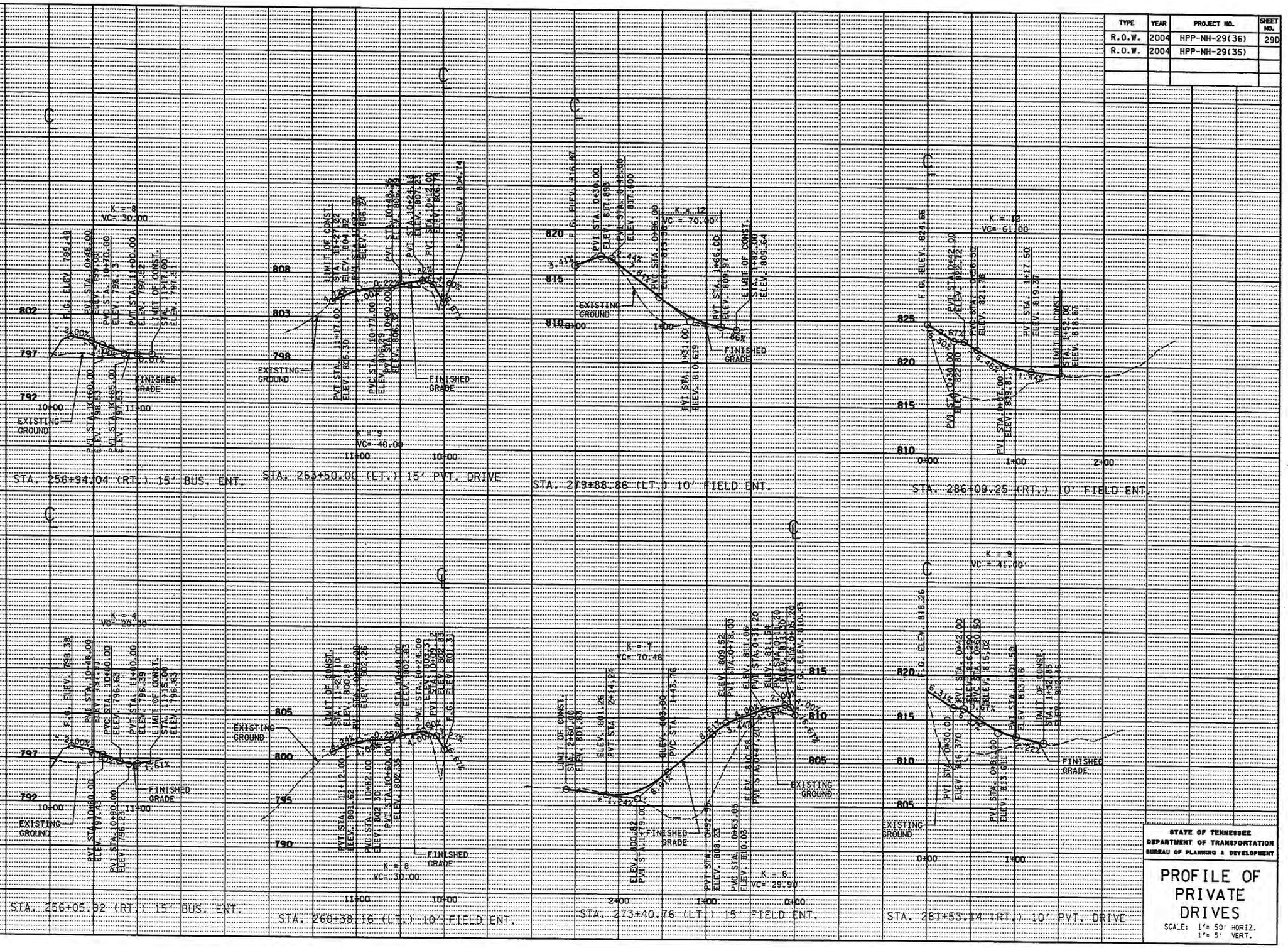
PROFILE OF PRIVATE DRIVES

SCALE: 1"= 50' HORIZ.
1"= 5' VERT.

$$$$SYTIME
$$$$DGNSPEC

TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2004	HPP-NH-29(36)	29D
R.O.W.	2004	HPP-NH-29(35)	



STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
BUREAU OF PLANNING & DEVELOPMENT

PROFILE OF PRIVATE DRIVES

SCALE: 1"= 50' HORIZ.
1"= 5' VERT.

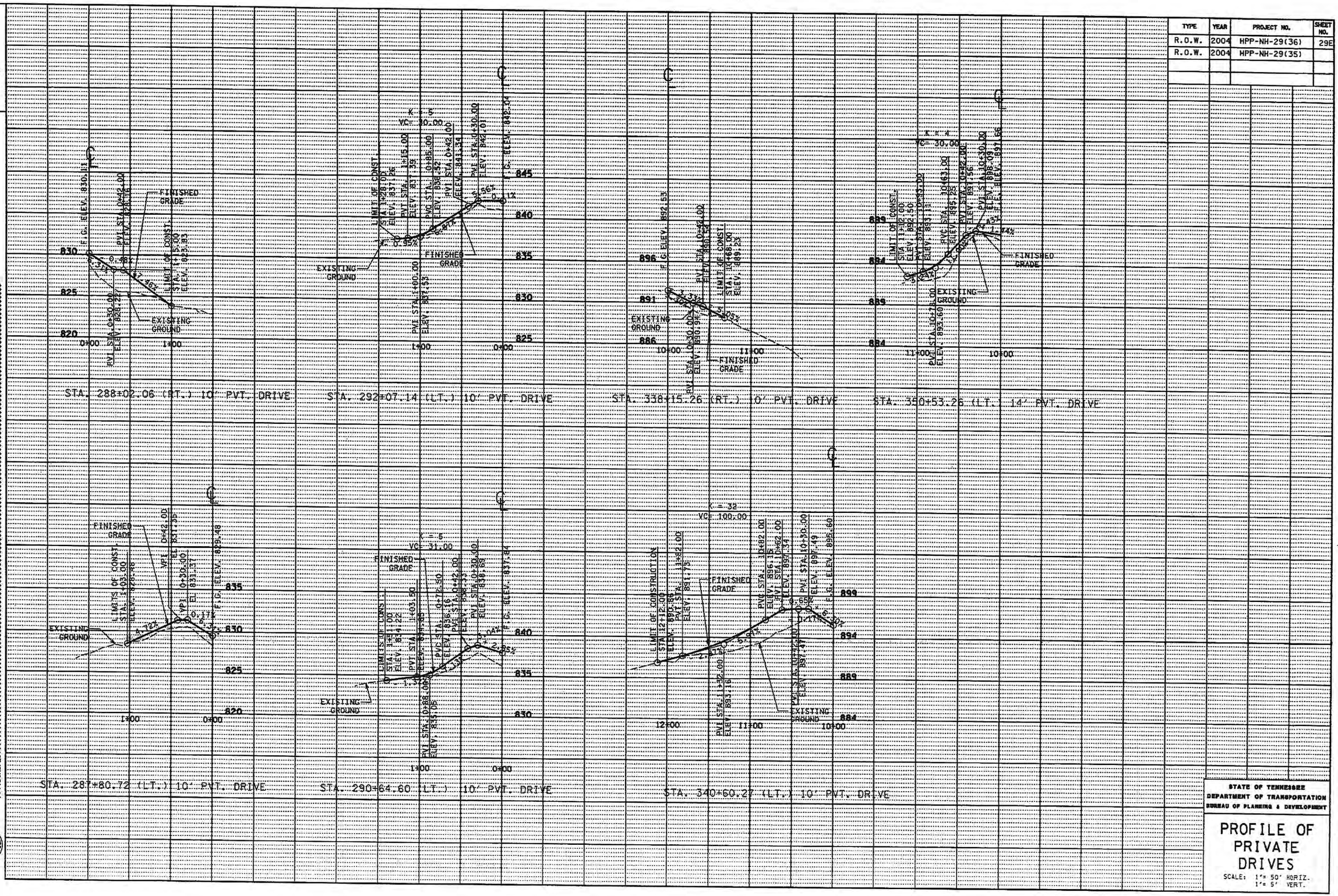
@@@@SYSTIME@@@@@@@
@@@@DGNSPEC@@@@@@@

TENNESSEE D.O.T.

DESIGN DIVISION

FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2004	HPP-NH-29(36)	29E
R.O.W.	2004	HPP-NH-29(35)	



STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
BUREAU OF PLANNING & DEVELOPMENT

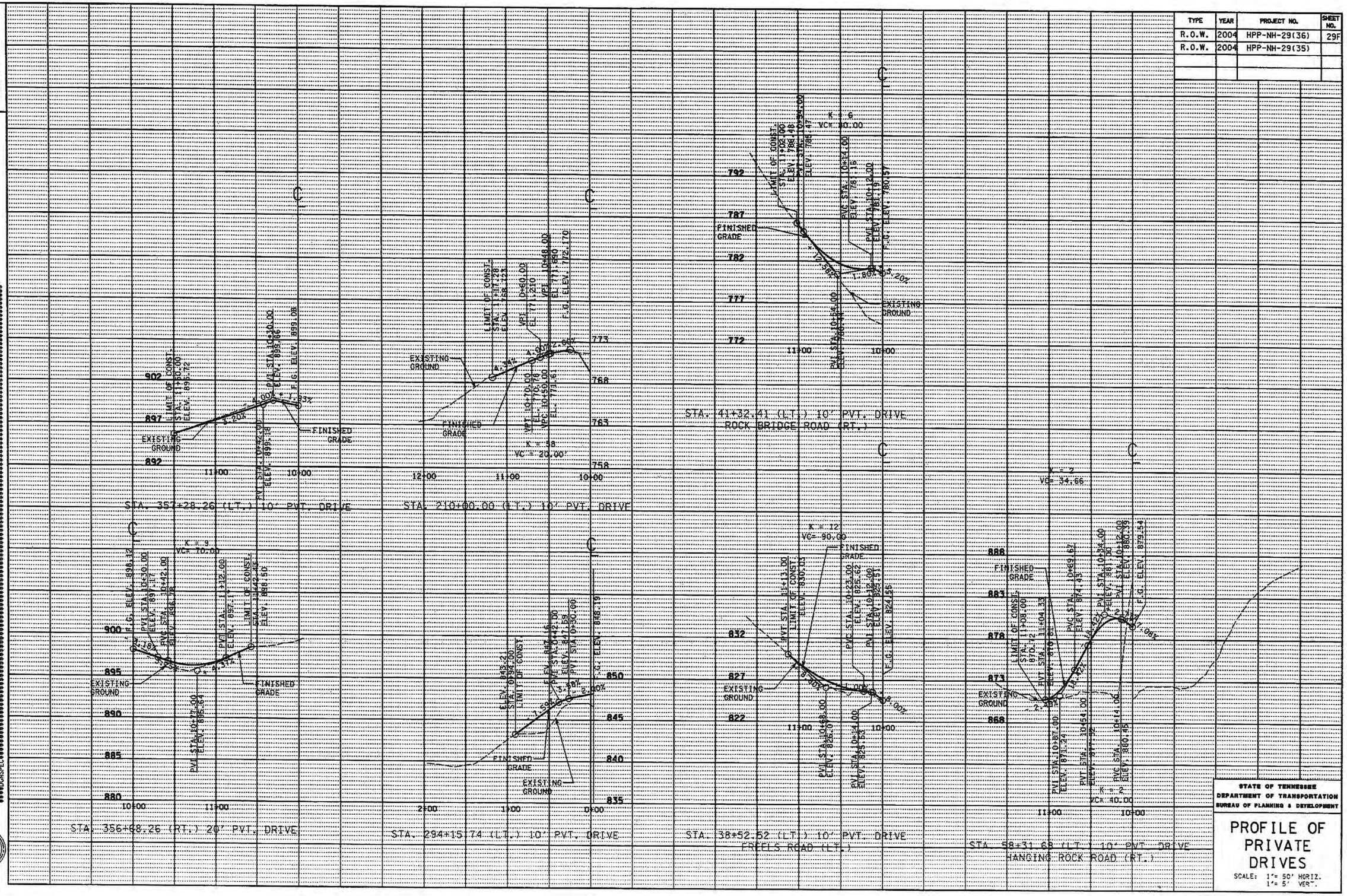
PROFILE OF PRIVATE DRIVES

SCALE: 1"= 50' HORIZ.
1"= 5' VERT.

$$SYTIME$$
$$DGNSPEC$$

TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2004	HPP-NH-29(36)	29F
R.O.W.	2004	HPP-NH-29(35)	

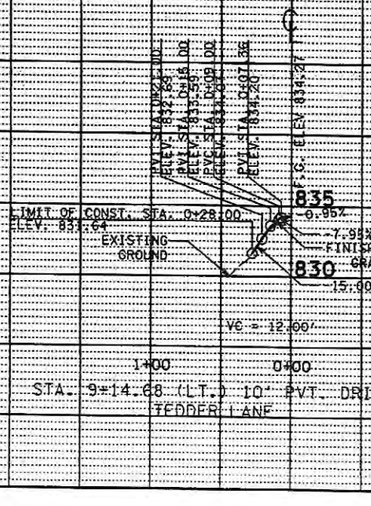

902
897
892
887
882
877
872
867
862
857
852
847
842
837
832
827
822
817
812
807
802
797
792
787
782
777
772
768
763
758
900
895
890
885
880
850
845
840
835
827
822
888
883
878
873
868
EXISTING GROUND
FINISHED GRADE
LIMIT OF CONST.
STA. 11+06.00
ELEV. 788.48
PVC STA. 10+34.00
ELEV. 784.47
K = 6
VC= 10.00
PVC STA. 10+84.00
ELEV. 781.76
PVI STA. 10+92.00
ELEV. 780.97
PVT STA. 11+00.00
ELEV. 780.59
PVI STA. 10+89.62
ELEV. 879.45
PVT STA. 10+54.00
ELEV. 881.32
PVC STA. 10+34.00
ELEV. 880.98
PVI STA. 10+13.00
ELEV. 880.03
K = 12
VC= 90.00
PVC STA. 10+23.00
ELEV. 825.62
PVI STA. 10+32.00
ELEV. 825.51
PVT STA. 10+41.00
ELEV. 825.56
PVI STA. 10+89.00
ELEV. 825.07
PVT STA. 10+97.00
ELEV. 825.58
PVI STA. 10+87.24
ELEV. 871.24
PVC STA. 10+69.62
ELEV. 874.45
PVT STA. 10+54.00
ELEV. 881.32
PVC STA. 10+34.00
ELEV. 880.98
PVI STA. 10+13.00
ELEV. 880.03
PVC STA. 10+42.00
ELEV. 899.18
PVI STA. 10+30.00
ELEV. 899.08
PVT STA. 10+17.00
ELEV. 899.72
PVC STA. 10+42.00
ELEV. 896.78
PVI STA. 10+30.00
ELEV. 897.17
PVT STA. 10+17.00
ELEV. 896.54
PVC STA. 10+42.00
ELEV. 896.78
PVI STA. 10+32.00
ELEV. 897.17
PVT STA. 10+22.00
ELEV. 897.58

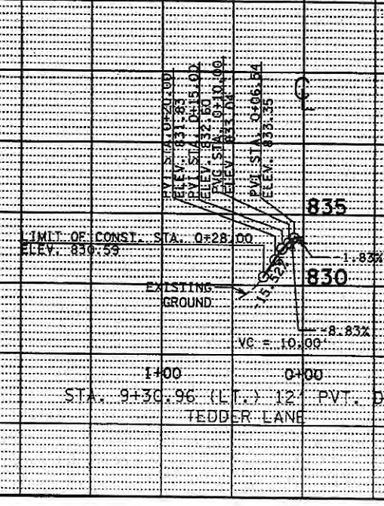
TENNESSEE D.O.T.

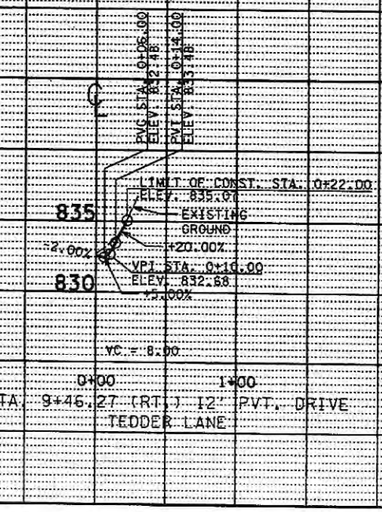
DESIGN DIVISION

FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2004	HPP-NH-29(36)	29G
R.O.W.	2004	HPP-NH-29(35)	







SYTIMES

DOINSPEC

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
BUREAU OF PLANNING & DEVELOPMENT

PROFILE OF PRIVATE DRIVES

SCALE: 1"= 50' HORIZ.
1"= 5' VERT.

TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2007	HPP-NH-29(36)	30
R.O.W.	2007	HPP-NH-29(35)	

BEGIN S.R. 29 RAMP C
STA. 25+00.00
N 599829.1419
E 2413264.0762

BEGIN S.R. 29 RAMP B
STA. 10+00.00
N 599522.4775
E 2413183.9672

BEGIN S.R. 29 RAMP A
STA. 2+00.00
N 599458.8810
E 2413666.5310

S.R. 29 RAMP A STA. 7+03.38 =
S.R. 29 RAMP B STA. 17+60.00
OFFSET 15.98' RT,
N 599891.2060
E 2413848.0580

POT STA. 22+61.84 S.R. 29 RAMP B=
POT STA. 100+00.00 S.R. 29
OFFSET 48.00' RT.
N 600169.4271
E 2414266.6640

POT STA. 100+00.00 S.R. 29
N 600209.4836
E 2414240.2164

POT STA. 35+44.13 S.R. 29 RAMP C=
POT STA. 100+00.00 S.R. 29
OFFSET 48.00' LT.
N 600249.5402
E 2414213.7688

MATCH LINE STA. 250+00 SEE SHEET NO. 31

N

EX. 54" RCP
EX. 18" RCP
EX. 18" RCP
EX. 5' X 10' BOX CULVERT
EX. 8' X 6' BOX CULVERT
EX. 18" CMP
EX. 10' X 7' BOX CULVERT
EX. 30" CMP
EX. BRIDGE
EX. 24" RCP
EX. 30" RCP
EX. 10' X 6' BOX CULVERT
EX. 2024" RCP
EX. 72" CMP
EX. 24" RCP
EX. 6' X 5' BOX CULVERT
EX. 36" RCP
EX. 30" CMP
EX. 6' X 5' BOX CULVERT
EX. 60" RCP
EX. 24" CMP
EX. 54" RCP
EX. 24" CMP
EX. BRIDGE
EX. 30" CMP
EX. BRIDGE

D.A.= 5.7Ac.
AREA 48
MIXED COVER
C= 0.40
Q50= 18.20 cfs
Q100= 19.4 cfs

D.A.= 5.7Ac.
AREA 47
MIXED COVER
C= 0.30
Q50= 12.50 cfs
Q100= 13.70 cfs

D.A.= 5.7Ac.
AREA 46
MIXED COVER
C= 0.20
Q50= 8.60 cfs
Q100= 9.20 cfs

D.A.= 7.1Ac.
AREA 44
MIXED COVER
C= 0.20
Q50= 10.20 cfs
Q100= 11.10 cfs

D.A.= 5.7Ac.
AREA 43
MIXED COVER
C= 0.20
Q50= 8.30 cfs
Q100= 9.00 cfs

D.A.= 173.4Ac.
AREA 45, 46, & 47
MIXED COVER
Q50= 180.20 cfs
Q100= 215.40 cfs

D.A.= 268.7Ac.
AREA 50, 42, 43, 44, 45, 46, & 47
MIXED COVER
Q50= 222.80 cfs
Q100= 267.80 cfs

D.A.= 11.4Ac.
AREA 41
MIXED COVER
C= 0.30
Q50= 27.40 cfs
Q100= 29.10 cfs

D.A.= 13.3Ac.
AREA 36
MIXED COVER
C= 0.40
Q50= 42.60 cfs
Q100= 45.20 cfs

D.A.= 6.6Ac.
AREA 35
MIXED COVER
C= 0.40
Q50= 21.10 cfs
Q100= 22.40 cfs

D.A.= 11.4Ac.
AREA 34
MIXED COVER
C= 0.40
Q50= 36.50 cfs
Q100= 38.80 cfs

D.A.= 46.0Ac.
AREA 29
MIXED COVER
C= 0.40
Q50= 121.40 cfs
Q100= 136.20 cfs

D.A.= 12.3Ac.
AREA 30
MIXED COVER
C= 0.30
Q50= 25.80 cfs
Q100= 27.70 cfs

D.A.= 71.6Ac.
AREA 27
MIXED COVER
C= 0.40
Q50= 160.40 cfs
Q100= 174.70 cfs

D.A.= 25.2Ac.
AREA 24
MIXED COVER
C= 0.30
Q50= 56.70 cfs
Q100= 60.50 cfs

D.A.= 47.5Ac.
AREA 22
MIXED COVER
C= 0.40
Q50= 121.60 cfs
Q100= 133.00 cfs

D.A.= 11.8Ac.
AREA 28
MIXED COVER
C= 0.40
Q50= 35.90 cfs
Q100= 40.10 cfs

D.A.= 144.3Ac.
AREA 26 & 25
MIXED COVER
Q50= 160.40 cfs
Q100= 192.10 cfs

D.A.= 23.3Ac.
AREA 25
MIXED COVER
C= 0.40
Q50= 60.60 cfs
Q100= 66.20 cfs

D.A.= 173.7Ac.
AREA 22, 23, & 24
MIXED COVER
Q50= 180.40 cfs
Q100= 215.60 cfs

D.A.= 121.5Ac.
AREA 21 & 22
MIXED COVER
Q50= 143.40 cfs
Q100= 171.90 cfs

ROCK BRIDGE ROAD
SANDERS LANE
COAL HILL ROAD
CHANNEL CHANGE

100+00 110+00 120+00 130+00 140+00 150+00 160+00 190+00 200+00 210+00 220+00 230+00 240+00

COORDINATE VALUES ARE NAD/83(1995) AND ARE DATUM ADJUSTED BY THE FACTOR L00000900 & TIED TO THE TGRN.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
BUREAU OF PLANNING & DEVELOPMENT

DRAINAGE MAP

STA. 10+00 TO STA. 250+00
SCALE: 1"=500'

$$SYTIME$$
$$ONSPEC$$

TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2007	HPP-NH-29(36)	31
R.O.W.	2007	HPP-NH-29(35)	

N

MATCH LINE 250+00

SEE SHEET NO. 30

D.A.= 21.3Ac.
AREA 20
MIXED COVER
C= 0.40
Q50= 64.80 cfs
Q100= 70.70 cfs

EX. 30" RCP
EX. 24" RCP
EX. 18" CMP
EX. 36" RCP
EX. 18" RCP
EX. 3@12' X 5' BOX CULVERT

D.A.= 8.5Ac.
AREA 19
MIXED COVER
C= 0.40
Q50= 25.80 cfs
Q100= 28.20 cfs

D.A.= 6.2Ac.
AREA 18
MIXED COVER
C= 0.40
Q50= 18.80 cfs
Q100= 20.60 cfs

D.A.= 12.8Ac.
AREA 17
MIXED COVER
C= 0.40
Q50= 37.90 cfs
Q100= 41.00 cfs

EX. 18" CMP
D.A.= 8.5Ac.
AREA 16
MIXED COVER
C= 0.40
Q50= 27.20 cfs
Q100= 28.90 cfs

D.A.= 8.5Ac.
AREA 14
MIXED COVER
C= 0.40
Q50= 27.20 cfs
Q100= 28.90 cfs

D.A.= 5.7Ac.
AREA 13
MIXED COVER
C= 0.40
Q50= 18.20 cfs
Q100= 19.40 cfs

EX. 18" CMP

D.A.= 9.0Ac.
AREA 12
MIXED COVER
C= 0.40
Q50= 28.80 cfs
Q100= 30.60 cfs

D.A.= 2.8Ac.
AREA 11
MIXED COVER
C= 0.40
Q50= 9.00 cfs
Q100= 9.50 cfs

D.A.= 2.8Ac.
AREA 9
MIXED COVER
C= 0.40
Q50= 9.00 cfs
Q100= 9.50 cfs

EX. 30" RCP
EX. 30" CMP
EX. 24" RCP
EX. 18" CMP
EX. 30" RCP
EX. 8' X 12' BOX CULVERT
EX. 18" CMP
EX. 18" RCP

D.A.= 5.7Ac.
AREA 10
MIXED COVER
C= 0.40
Q50= 18.20 cfs
Q100= 19.40 cfs

D.A.= 4.3Ac.
AREA 8
MIXED COVER
C= 0.40
Q50= 13.80 cfs
Q100= 14.60 cfs

D.A.= 231.0Ac.
AREA 7
MIXED COVER
Q50= 213.80 cfs
Q100= 255.30 cfs

D.A.= 29.4Ac.
AREA 6
MIXED COVER
C= 0.40
Q50= 76.40 cfs
Q100= 84.70 cfs

EX. 36" RCP

EX. 18" RCP
EX. 24" RCP
EX. 3@12' X 9' BOX CULVERT
EX. 24" RCP
EX. 2@15'X8' BOX CULVERT

EX. 24" RCP

D.A.= 9.9Ac.
AREA 1A
MIXED COVER
C= 0.40
Q50= 30.00 cfs
Q100= 33.30 cfs

END CONST. S.R. 29
STA. 360+03.28
N 617297.9350
E 2404412.1973

250+00 260+00 270+00 280+00 290+00 300+00 310+00 320+00 330+00 340+00 350+00 360+00

COORDINATE VALUES ARE NAD/83(1995) AND ARE DATUM ADJUSTED BY THE FACTOR 1.00000900 & TIED TO THE TGRN.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
BUREAU OF PLANNING & DEVELOPMENT

DRAINAGE MAP

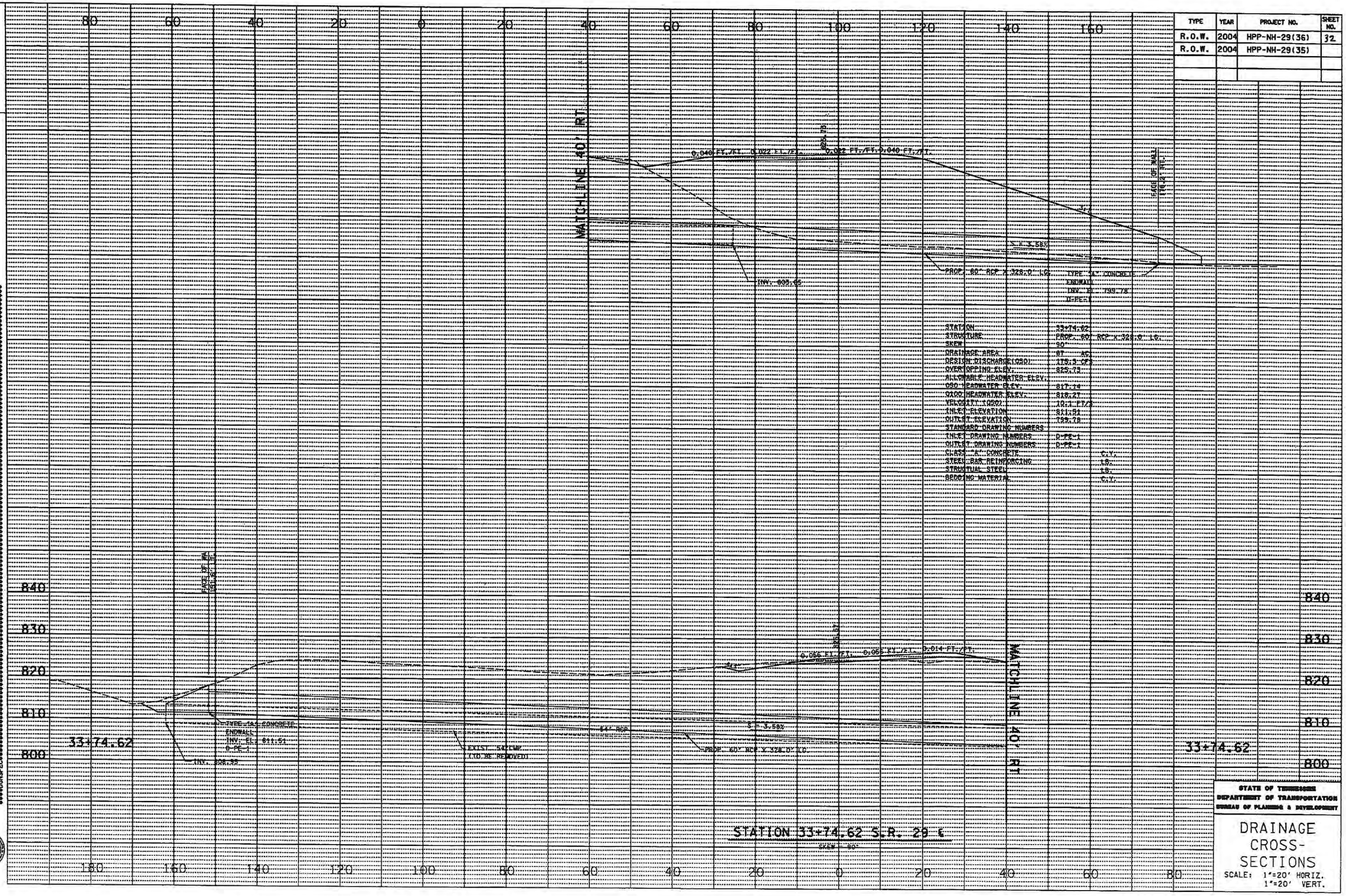
STA. 250+00 TO STA. 360+00

SCALE: 1"=500'

****SYTIME****
****DGNSPEC****

TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2004	HPP-NH-29(36)	32
R.O.W.	2004	HPP-NH-29(35)	



STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
BUREAU OF PLANNING & DEVELOPMENT

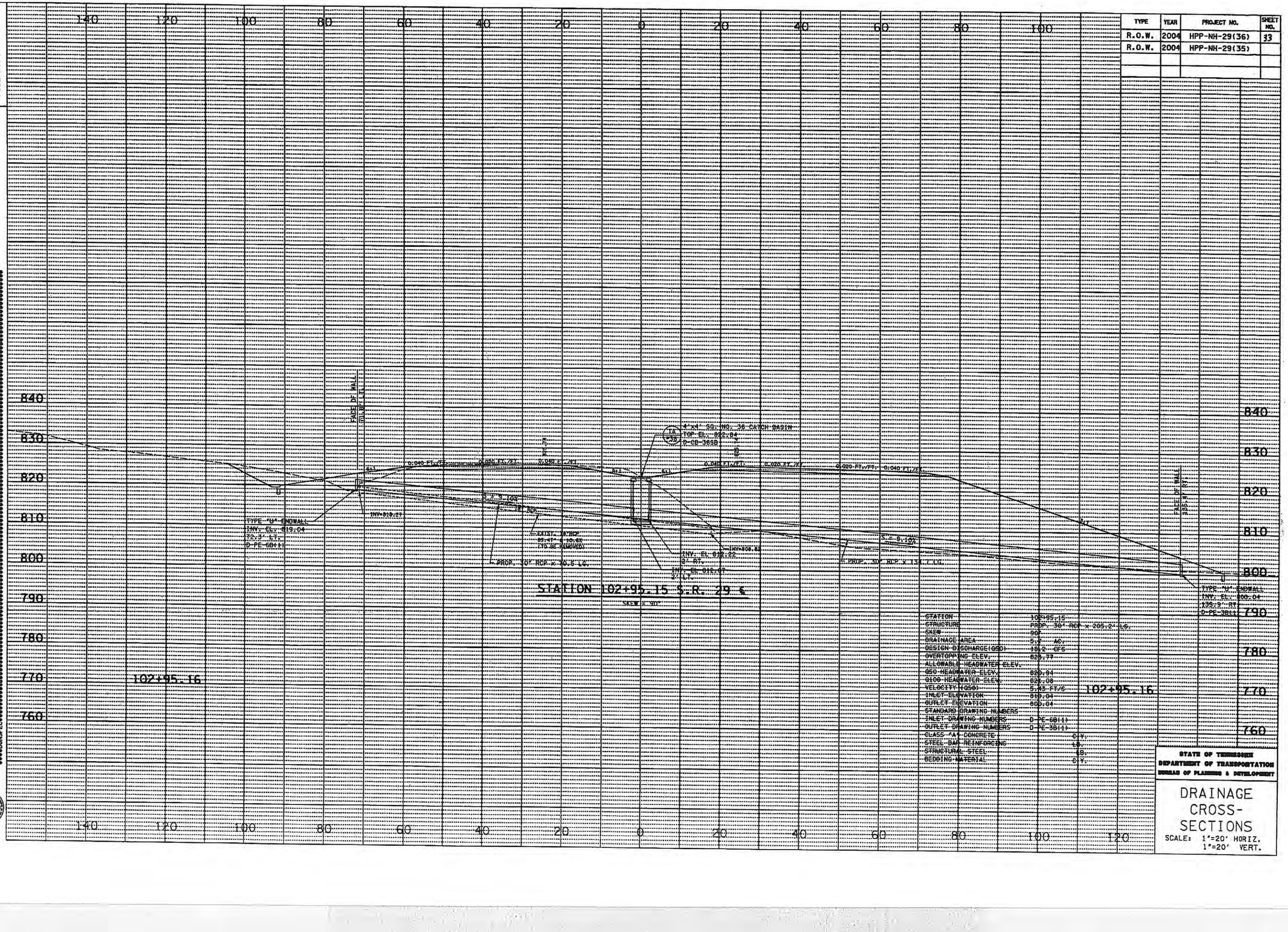
DRAINAGE CROSS-SECTIONS

SCALE: 1"=20' HORIZ.
1"=20' VERT.

◆◆◆◆SYSTIME◆◆◆◆◆◆◆
◆◆◆◆DGNSPEC◆◆◆◆◆◆◆◆

TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2004	HPP-NH-29(36)	33
R.O.W.	2004	HPP-NH-29(35)	



STATION	102+95.15
STRUCTURE	PROP. 30" RCP x 205.2' LG.
SKEW	90°
DRAINAGE AREA	5.7 AC.
DESIGN DISCHARGE(Q50)	18.2 CFS
OVERTOPPING ELEV.	825.77
ALLOWABLE HEADWATER ELEV.	
Q50 HEADWATER ELEV.	820.94
Q100 HEADWATER ELEV.	821.08
VELOCITY (Q50)	5.43 FT/S
INLET ELEVATION	819.04
OUTLET ELEVATION	800.04
STANDARD DRAWING NUMBERS	
INLET DRAWING NUMBERS	0-PE-6B(1)
OUTLET DRAWING NUMBERS	0-PE-3B(1)
CLASS "A" CONCRETE	C.Y.
STEEL BAR REINFORCING	LB.
STRUCTURAL STEEL	LB.
BEDDING MATERIAL	C.Y.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
BUREAU OF PLANNING & DEVELOPMENT

DRAINAGE CROSS-SECTIONS

SCALE: 1"=20' HORIZ.
1"=20' VERT.

$SYTIME
DGNSPEC

TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2007	HPP-NH-29(36)	327
R.O.W.	2007	HPP-NH-29(35)	362

355+00

360+00

MATCH LINE STA. 353+00 SEE SHEET NO. 326

FILL

℄ S.R. 29

N 7°-06' 55" E

PRESENT R.O.W.

PRESENT R.O.W.

N

COORDINATE VALUES ARE NAD/83(1995) AND ARE DATUM ADJUSTED BY THE FACTOR 1.00000900 & TIED TO THE TGRN.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
BUREAU OF PLANNING & DEVELOPMENT

EROSION CONTROL PLAN PHASE I

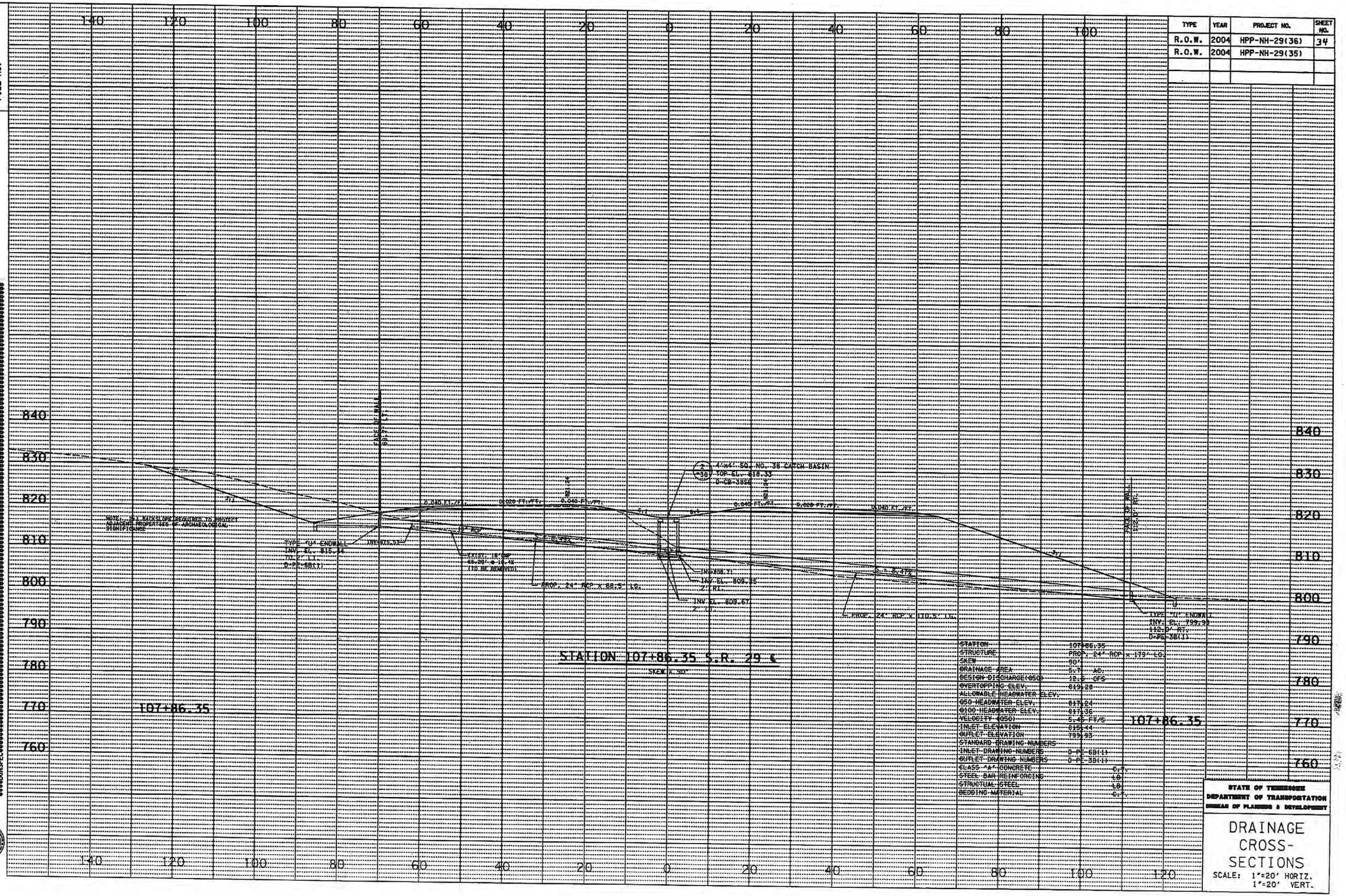
STA. 353+00 TO STA. 364+74

SCALE: 1"= 50'

$$$$SYTIME$$$$$$
@@@@DGNSPEC@@@@

TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2004	HPP-NH-29(36)	34
R.O.W.	2004	HPP-NH-29(35)	



STATION	107+86.35
STRUCTURE	PROP. 24" RCP x 179' LG.
SKEW	30°
DRAINAGE AREA	5.7 AC.
DESIGN DISCHARGE(Q50)	12.5 CFS
OVERTOPPING ELEV.	819.28
ALLOWABLE HEADWATER ELEV.	
Q50 HEADWATER ELEV.	817.24
Q100 HEADWATER ELEV.	817.36
VELOCITY (Q50)	5.45 FT/S
INLET ELEVATION	815.44
OUTLET ELEVATION	799.93
STANDARD DRAWING NUMBERS	
INLET DRAWING NUMBERS	D-PE-6B(1)
OUTLET DRAWING NUMBERS	D-PE-3B(1)
CLASS "A" CONCRETE	0.7
STEEL BAR REINFORCING	1.0
STRUCTUAL STEEL	1.0
BEDDING MATERIAL	0.7

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
BUREAU OF PLANNING & DEVELOPMENT

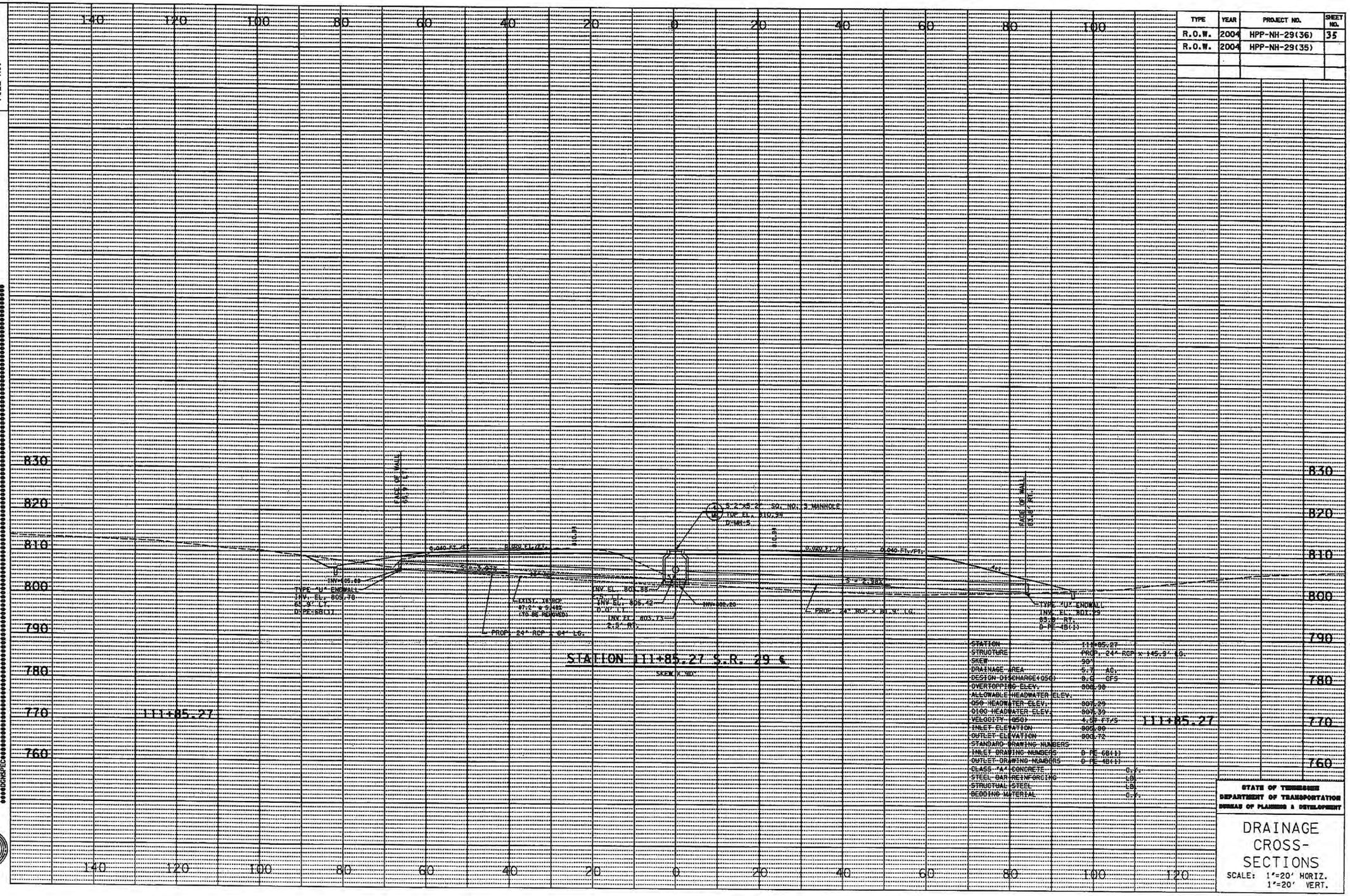
DRAINAGE CROSS-SECTIONS

SCALE: 1"=20' HORIZ.
1"=20' VERT.

SYTIME
DONSPEC

TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2004	HPP-NH-29(36)	35
R.O.W.	2004	HPP-NH-29(35)	



STATION	111+85.27
STRUCTURE	PROP. 24" RCP x 145.9' Lg.
SKEW	90°
DRAINAGE AREA	5.7 AC.
DESIGN DISCHARGE (Q50)	8.6 CFS
OVERTOPPING ELEV.	808.98
ALLOWABLE HEADWATER ELEV:	
Q50 HEADWATER ELEV.	807.29
Q100 HEADWATER ELEV.	807.39
VELOCITY (Q50)	4.57 FT/S
INLET ELEVATION	805.80
OUTLET ELEVATION	805.72
STANDARD DRAWING NUMBERS:	
INLET DRAWING NUMBERS	D-PE-6B(I)
OUTLET DRAWING NUMBERS	D-PE-4B(I)
CLASS "A" CONCRETE	C.Y.
STEEL BAR REINFORCING	LB.
STRUCTUAL STEEL	LB.
BEDDING MATERIAL	C.Y.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
BUREAU OF PLANNING & DEVELOPMENT

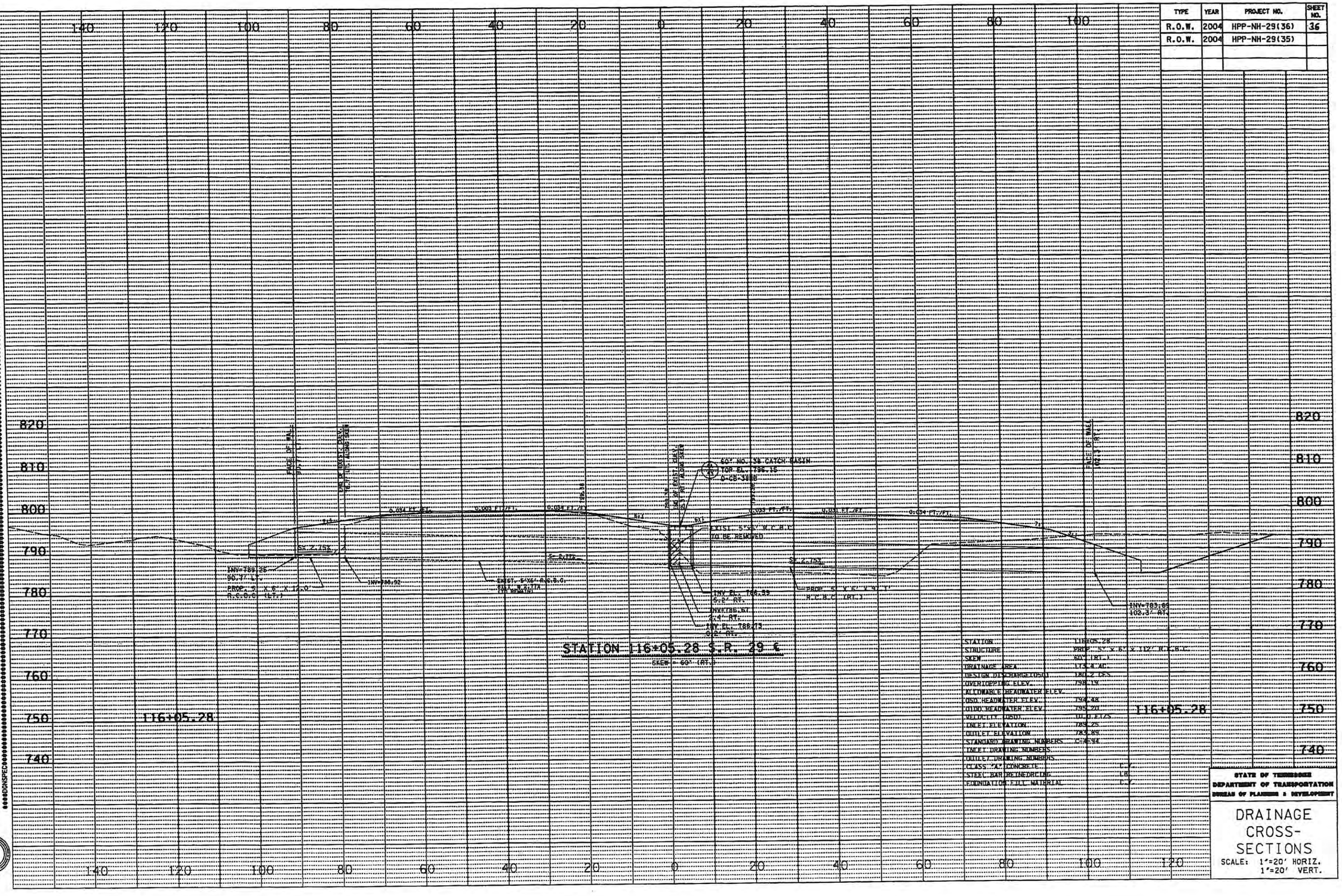
DRAINAGE CROSS-SECTIONS

SCALE: 1"=20' HORIZ.
1"=20' VERT.

@@@SYTIME@@@@@@
@@@DGNSPEC@@@@@@

TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2004	HPP-NH-29(36)	36
R.O.W.	2004	HPP-NH-29(35)	



STATION	116+05.28
STRUCTURE	PROP. 5'X 5' X 12'-0" R.C.B.C.
SKEW	60° (RT.)
DRAINAGE AREA	175.4 AC.
DESIGN DISCHARGE (DES.)	1300.2 CFS
OVERTOPPING ELEV.	798.19
ALLOWABLE HEADWATER ELEV.	
DES. HEADWATER ELEV.	794.44
CHECK HEADWATER ELEV.	795.20
VELOCITY (DES.)	20.0 FT/S
INLET ELEVATION	789.25
OUTLET ELEVATION	780.92
STANDARD DRAWING NUMBERS	C-4-94
FACE DRAWING NUMBERS	
WING DRAWING NUMBERS	
CLASS "A" CONCRETE	C.Y.
STEEL BAR REINFORCING	LB.
FOUNDATION FILL MATERIAL	C.Y.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
BUREAU OF PLANNING & DEVELOPMENT

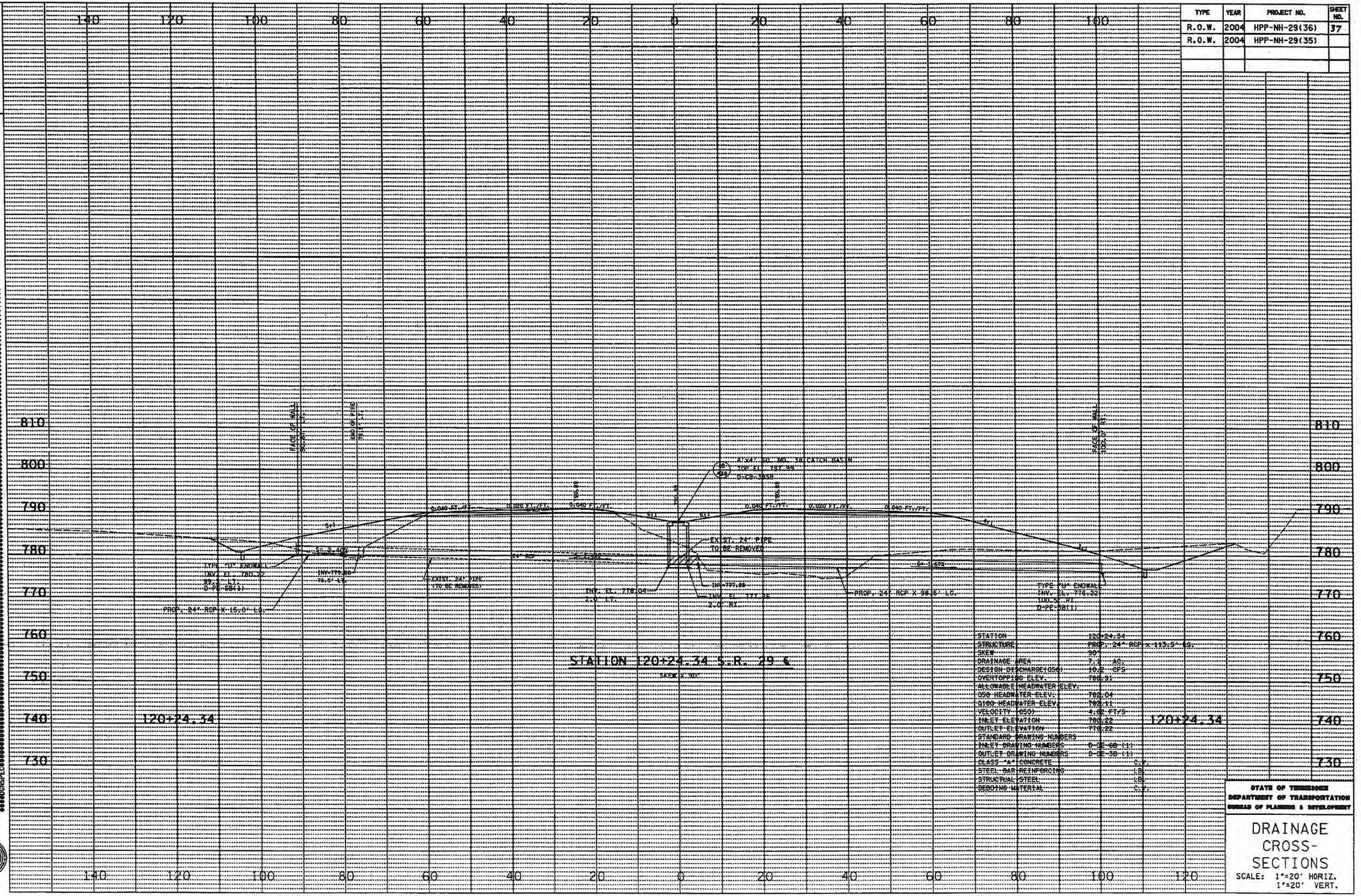
DRAINAGE CROSS-SECTIONS

SCALE: 1"=20' HORIZ.
1"=20' VERT.

@@@SYTM@@@@@@@
@@@DGNSPEC@@@@@@@

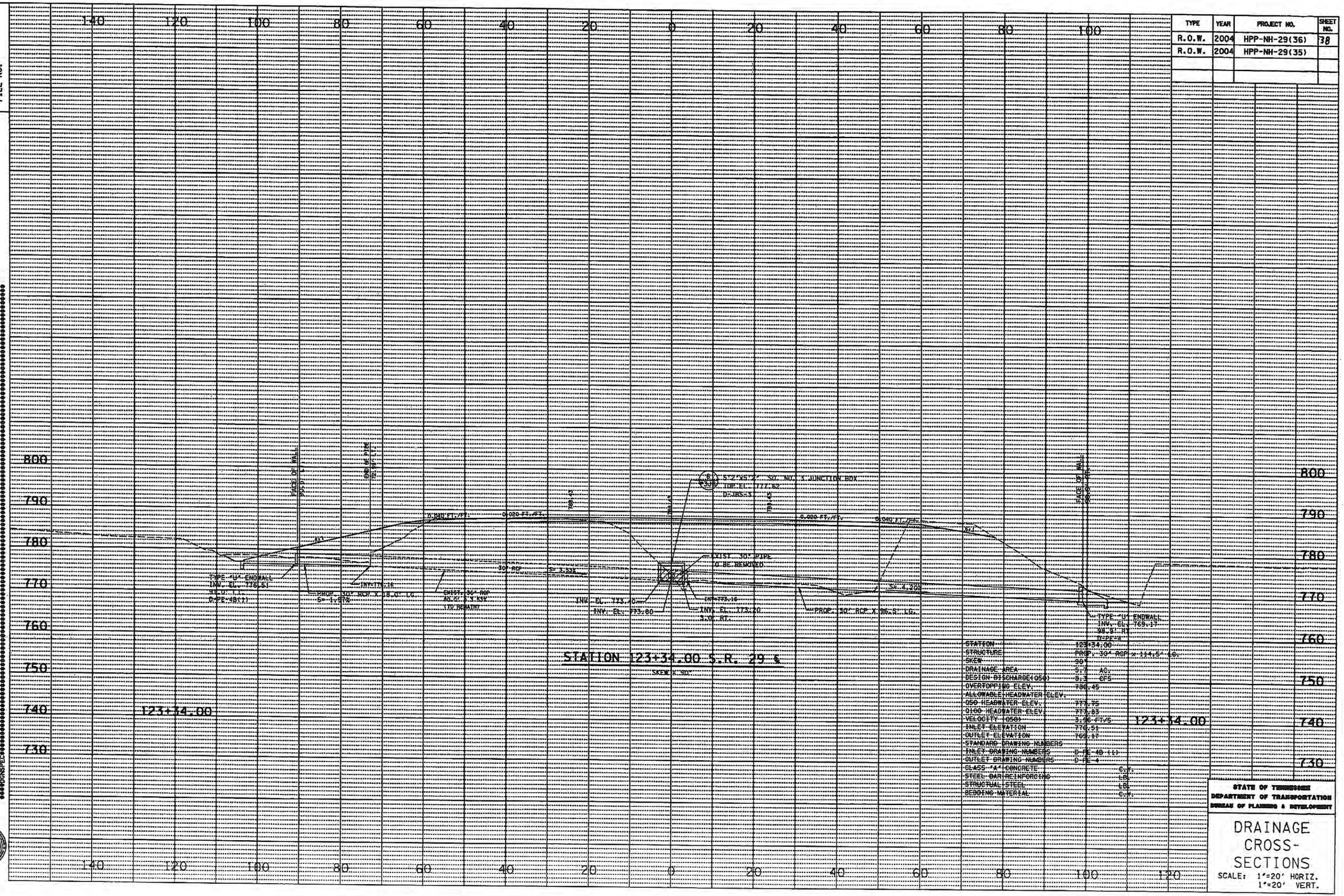
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2004	HPP-NH-29(36)	37
R.O.W.	2004	HPP-NH-29(35)	



TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2004	HPP-NH-29(36)	38
R.O.W.	2004	HPP-NH-29(35)	



STATION 123+34.00 S.R. 29 $

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
BUREAU OF PLANNING & DEVELOPMENT

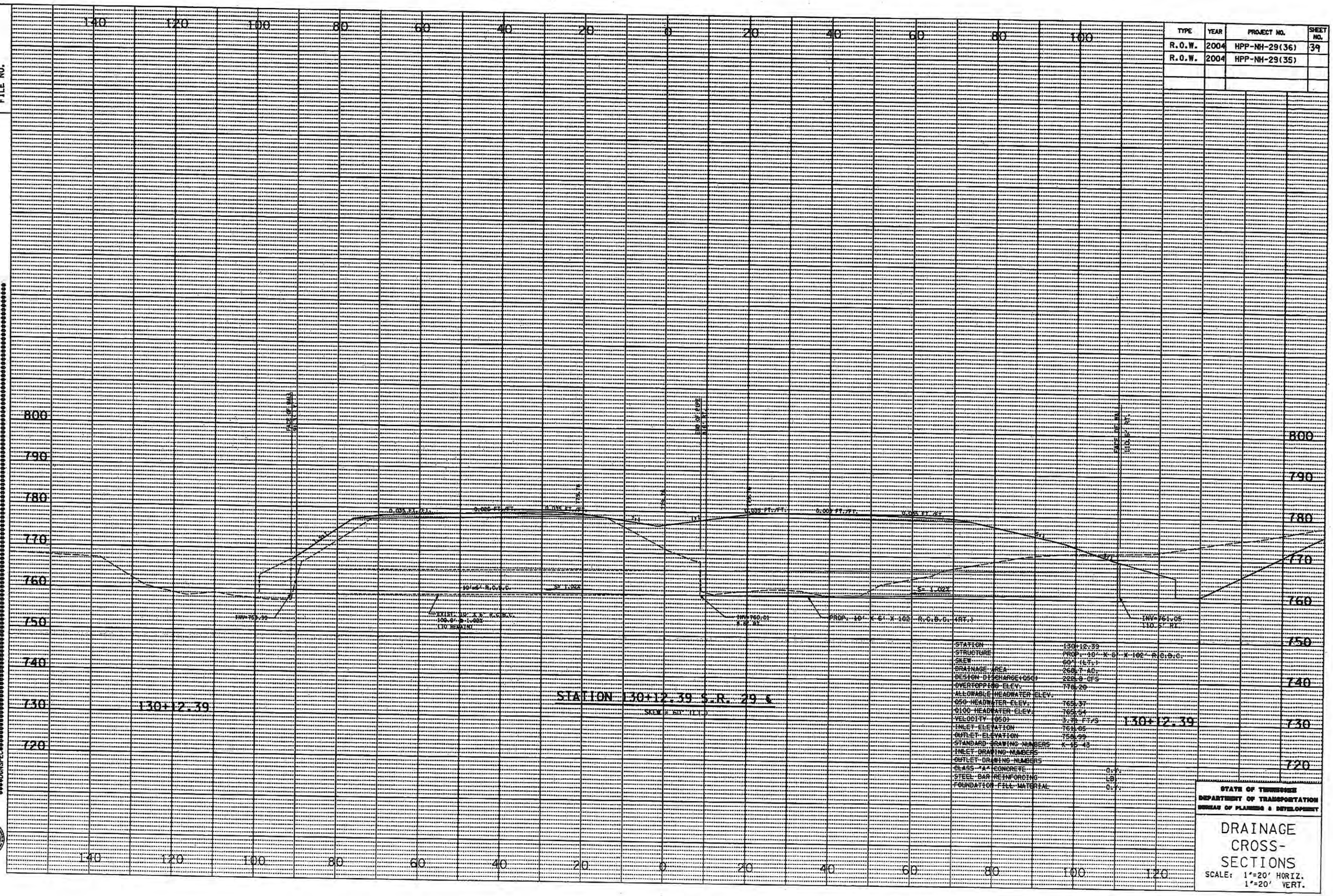
DRAINAGE CROSS-SECTIONS

SCALE: 1"=20' HORIZ.
1"=20' VERT.

$$USERNAME$$
$$DGNSPEC$$
$$DATE$$
$$TIME$$

TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2004	HPP-NH-29(36)	39
R.O.W.	2004	HPP-NH-29(35)	



SYTIME
ADGNSPEC

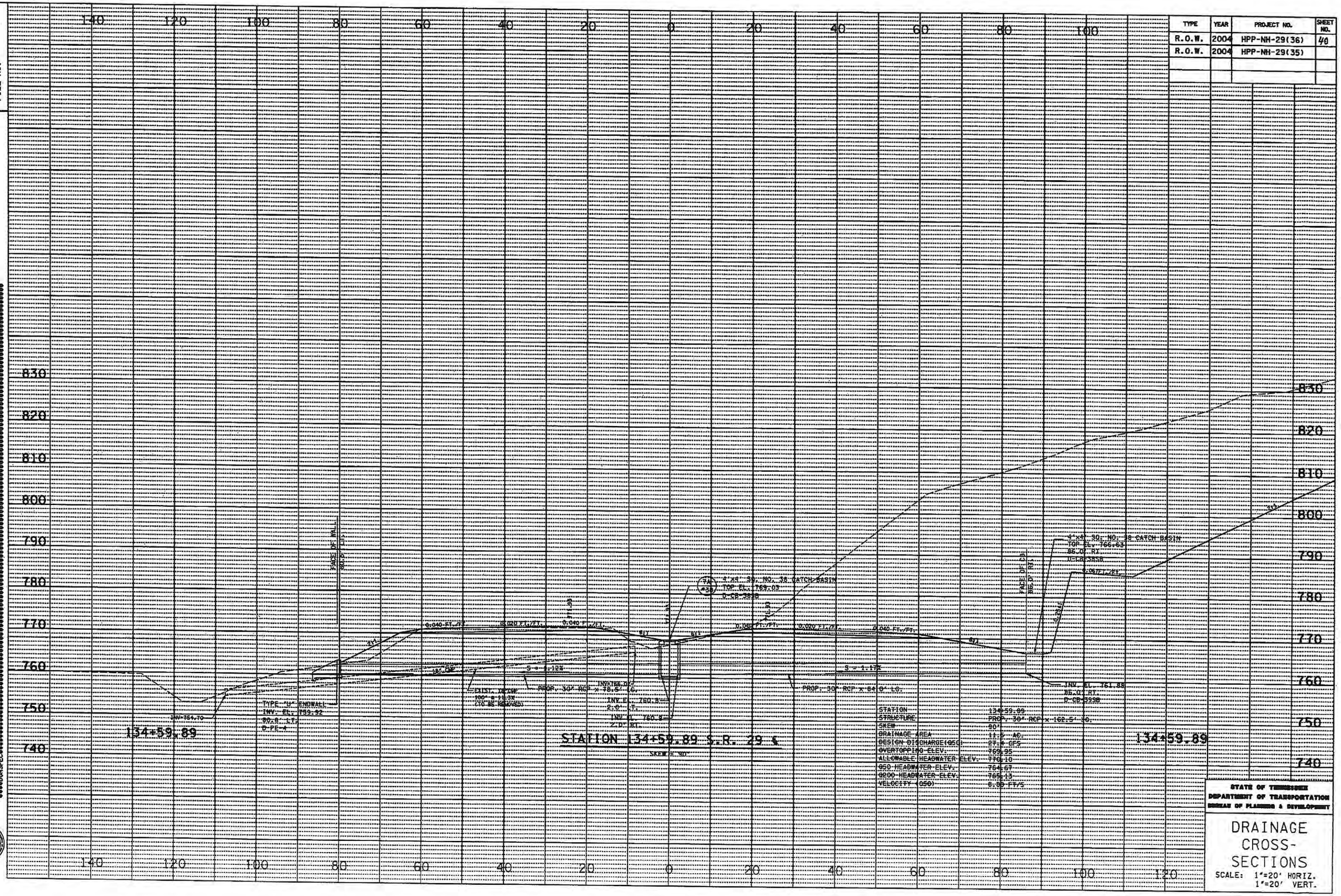
STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
BUREAU OF PLANNING & DEVELOPMENT

DRAINAGE CROSS-SECTIONS

SCALE: 1"=20' HORIZ.
1"=20' VERT.

TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2004	HPP-NH-29(36)	40
R.O.W.	2004	HPP-NH-29(35)	



STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
BUREAU OF PLANNING & DEVELOPMENT

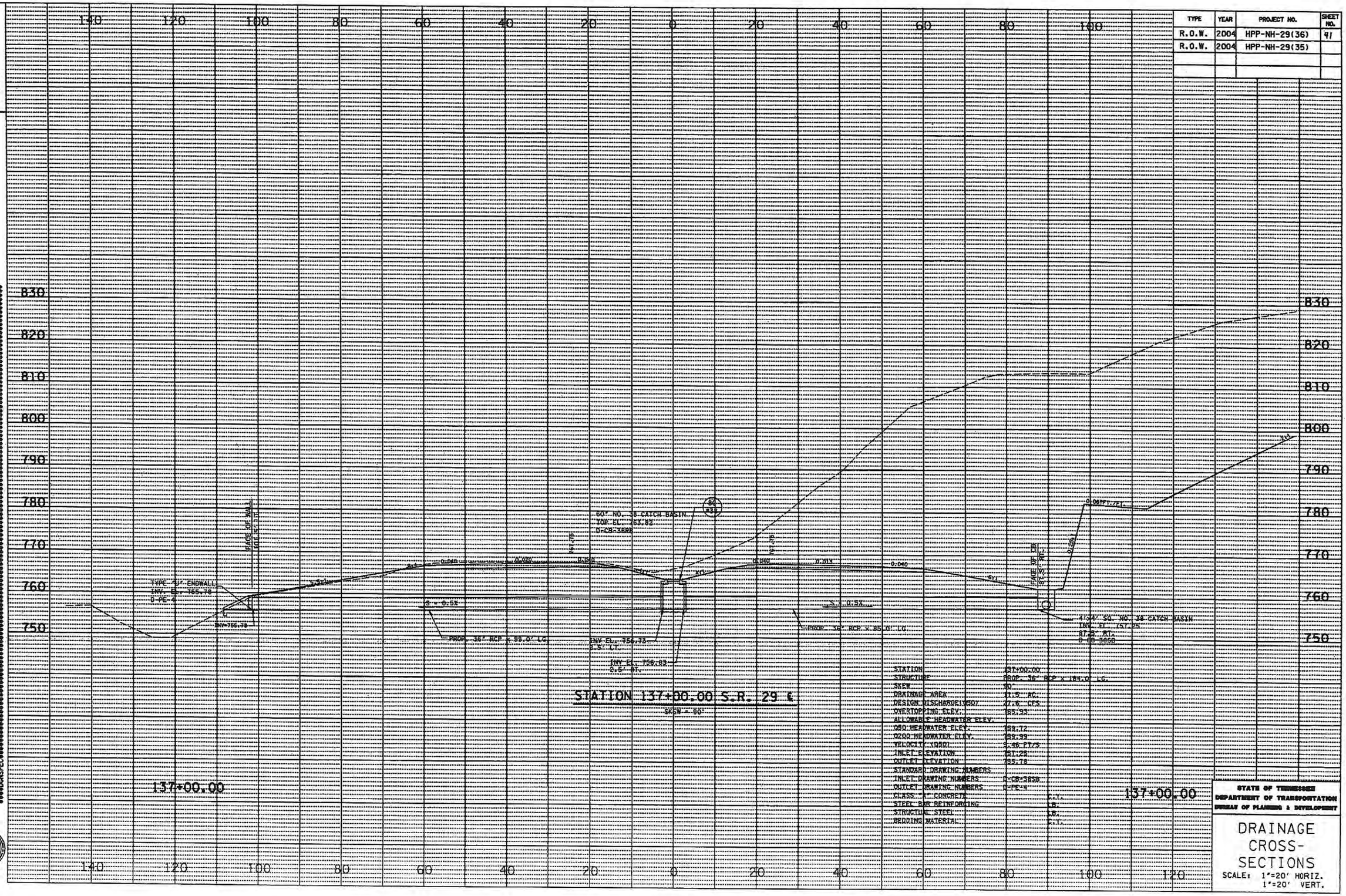
DRAINAGE CROSS-SECTIONS

SCALE: 1"=20' HORIZ.
1"=20' VERT.

@@SYTIME@@@@@
@@CHKSPEC@@@@@

TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2004	HPP-NH-29(36)	9
R.O.W.	2004	HPP-NH-29(35)	



STATION	137+00.00
STRUCTURE	PROP. 36" RCP x 184.0' LG.
SKEW	80°
DRAINAGE AREA	11.5 AC.
DESIGN DISCHARGE(Q50)	27.6 CFS
OVERTOPPING ELEV.	785.39
ALLOWABLE HEADWATER ELEV.	
Q50 HEADWATER ELEV.	783.72
Q200 HEADWATER ELEV.	784.39
VELOCITY (Q50)	5.36 FT/S
INLET ELEVATION	781.28
OUTLET ELEVATION	765.78
STANDARD DRAWING NUMBERS	
INLET DRAWING NUMBERS	D-CB-3858
OUTLET DRAWING NUMBERS	D-PE-1
CLASS "A" CONCRETE	C.Y.
STEEL BAR REINFORCING	LB.
STRUCTURAL STEEL	LB.
BEDDING MATERIAL	C.Y.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
BUREAU OF PLANNING & DEVELOPMENT

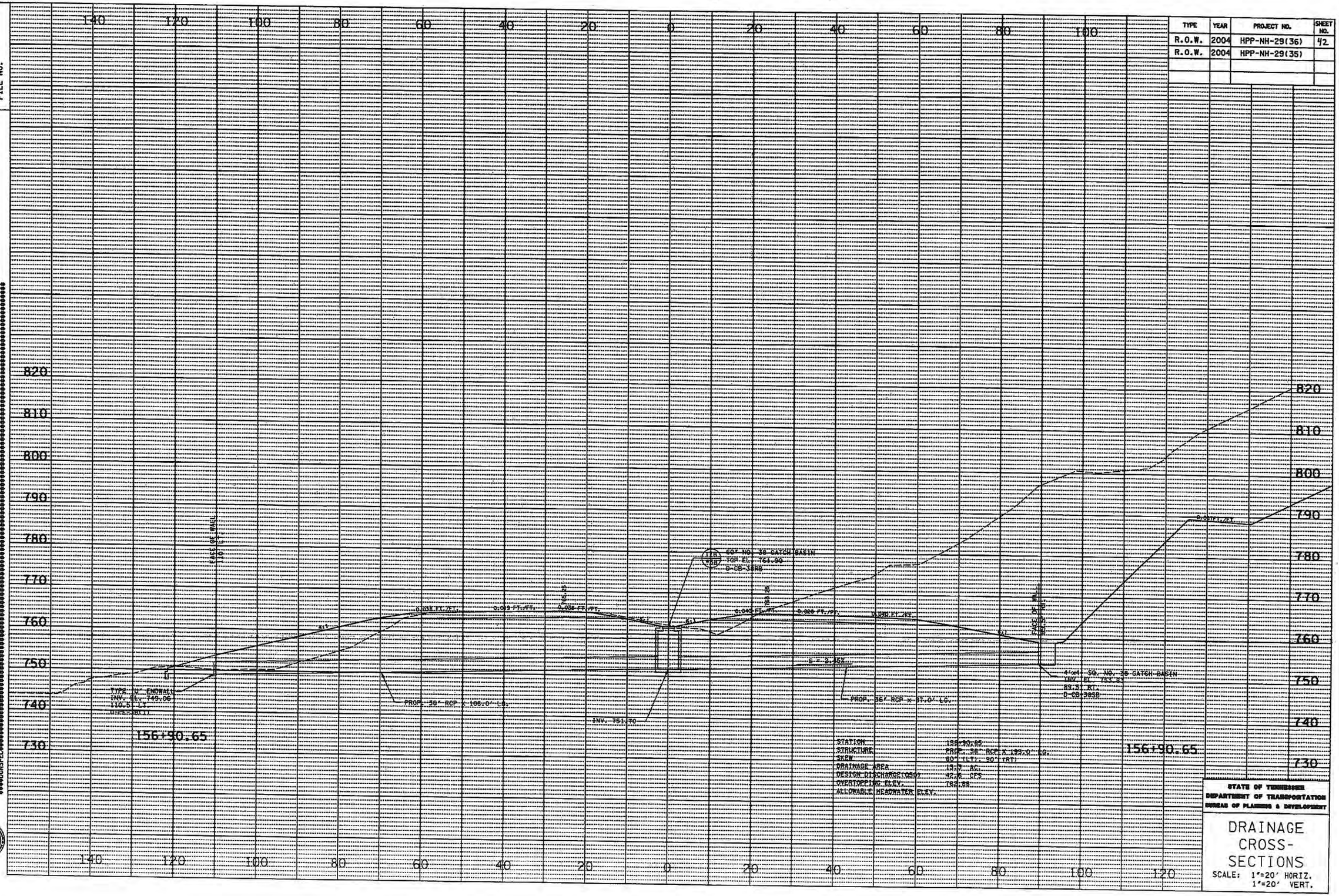
DRAINAGE CROSS-SECTIONS

SCALE: 1"=20' HORIZ.
1"=20' VERT.

####SYTIME####
####DGNSPEC####

TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2004	HPP-NH-29(36)	42
R.O.W.	2004	HPP-NH-29(35)	



STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
BUREAU OF PLANNING & DEVELOPMENT

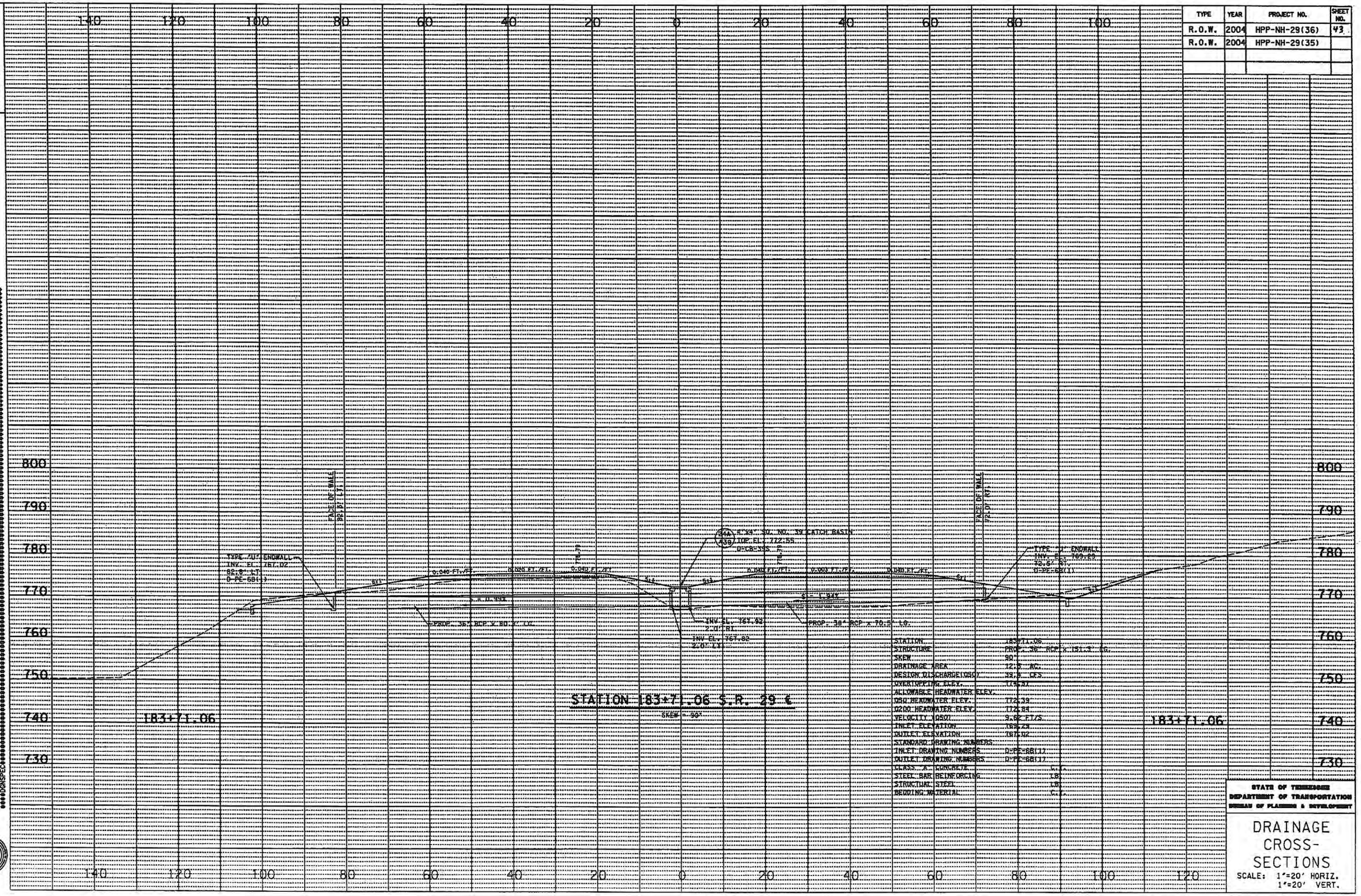
DRAINAGE CROSS-SECTIONS

SCALE: 1"=20' HORIZ.
1"=20' VERT.

$$SYTIME$$
$$DGNSPEC$$

TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2004	HPP-NH-29(36)	43
R.O.W.	2004	HPP-NH-29(35)	



STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
BUREAU OF PLANNING & DEVELOPMENT

DRAINAGE CROSS-SECTIONS

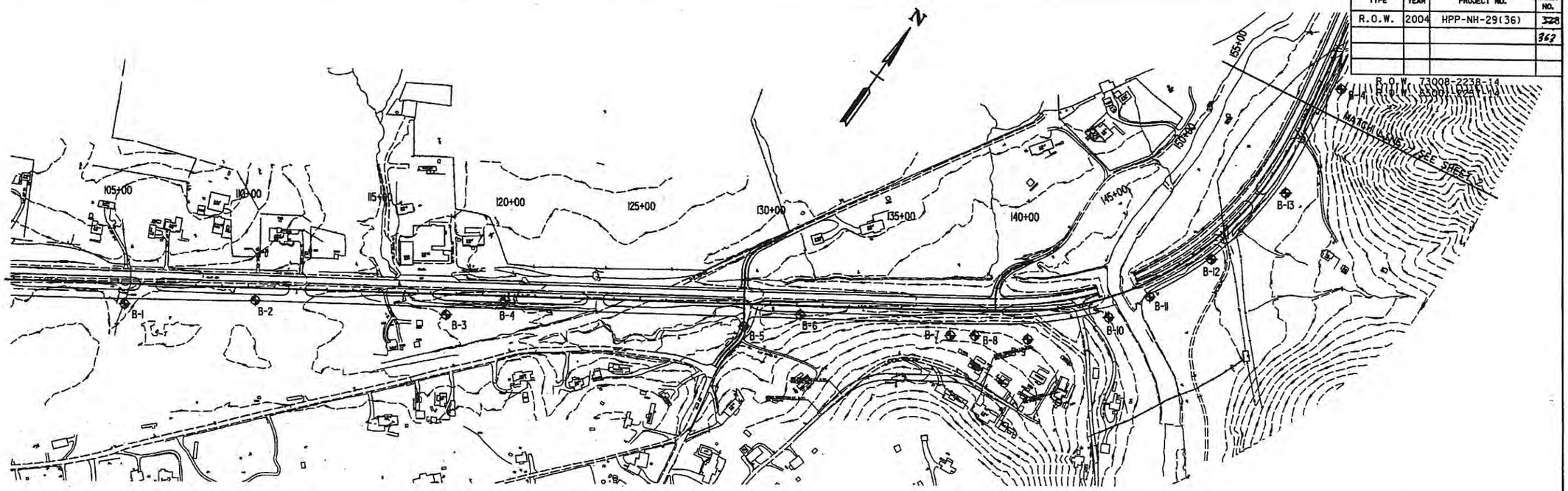
SCALE: 1"=20' HORIZ.
1"=20' VERT.

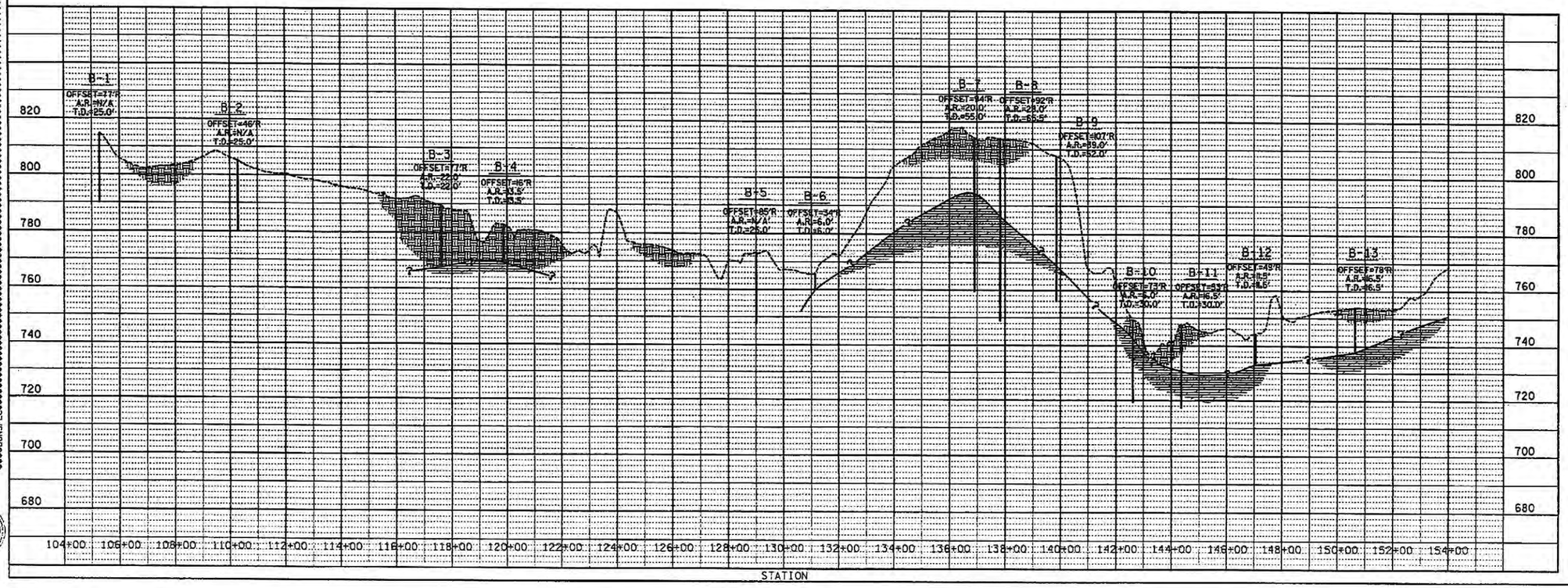
$$SYTIME$$
$$DGNSPEC$$

TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2004	HPP-NH-29(36)	328
			363

R.O.W. 73008-2238-14
R.O.W. 65001-2241-14





LEGEND

- OVERBURDEN
- PARTIALLY WEATHERED ROCK
- BEDROCK
- B-12 - BORING NO.
- OFFSET - DISTANCE FROM CENTERLINE
- A.R. - AUGER REFUSAL
- T.D. - TERMINATION DEPTH

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
BUREAU OF PLANNING & DEVELOPMENT

SOILS PROFILE

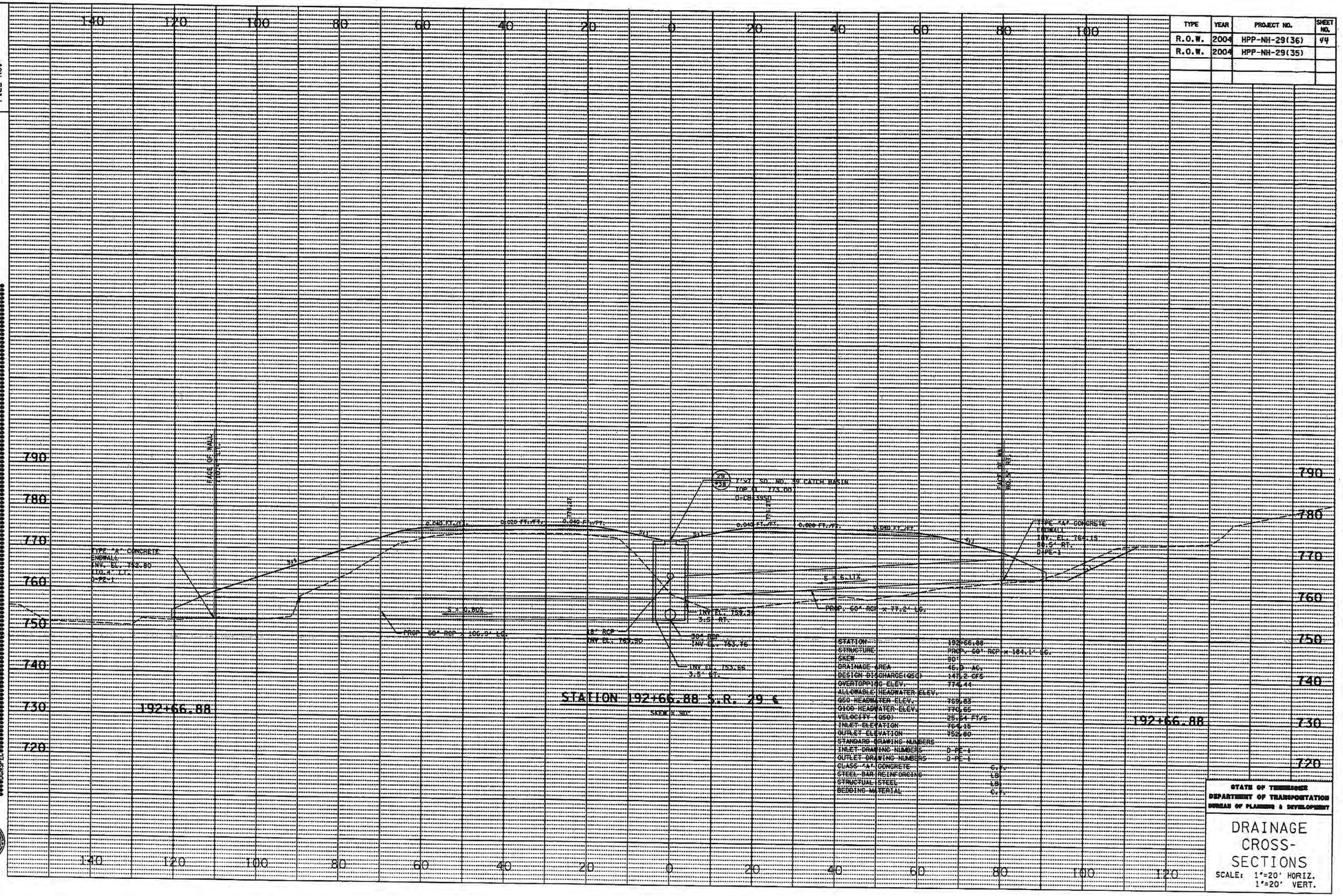
STA. 105+00 TO STA. 154+00

SHEET 2 OF 5

$$STYTIME$$
$$DGNSPEC$$

TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2004	HPP-NH-29(36)	44
R.O.W.	2004	HPP-NH-29(35)	



STATION	192+66.88
STRUCTURE	PROP. 60" RCP x 184.1' LG.
SKEW	90°
DRAINAGE AREA	46.9 AC.
DESIGN DISCHARGE(Q50)	147.2 CFS
OVERTOPPING ELEV.	774.44
ALLOWABLE HEADWATER ELEV.	
Q50 HEADWATER ELEV.	769.83
Q100 HEADWATER ELEV.	770.65
VELOCITY (Q50)	25.51 FT/S
INLET ELEVATION	764.15
OUTLET ELEVATION	752.80
STANDARD DRAWING NUMBERS	
INLET DRAWING NUMBERS	D-PE-1
OUTLET DRAWING NUMBERS	D-PE-1
CLASS "A" CONCRETE	C.Y.
STEEL BAR REINFORCING	LB.
STRUCTUAL STEEL	LB.
BEDDING MATERIAL	C.Y.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
BUREAU OF PLANNING & DEVELOPMENT

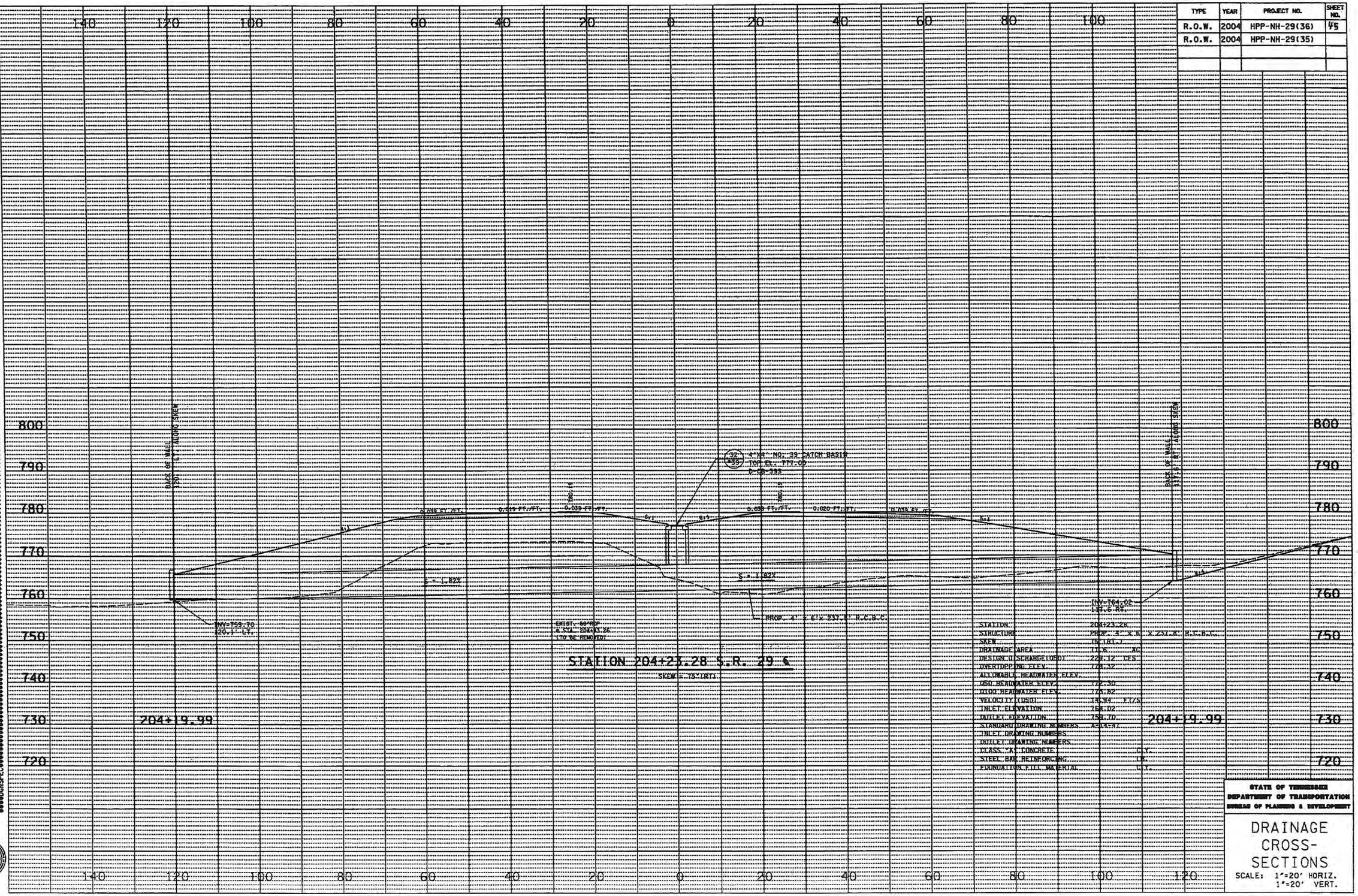
DRAINAGE CROSS-SECTIONS

SCALE: 1"=20' HORIZ.
1"=20' VERT.

DGNSPEC
SYTIME

TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2004	HPP-NH-29(36)	45
R.O.W.	2004	HPP-NH-29(35)	



STATION	204+23.28
STRUCTURE	PROP. 4' X 6' X 237.3' R.C.B.C.
SKEW	(R.181.)
DRAINAGE AREA	111.6 AC
DESIGN DISCHARGE (Q50)	229.12 CFS
OVERTOPPING ELEV.	778.32
ALLOWABLE HEADWATER ELEV.	
Q50 HEADWATER ELEV.	772.30
Q100 HEADWATER ELEV.	775.82
VELOCITY (Q50)	18.34 FT/S
INLET ELEVATION	758.02
OUTLET ELEVATION	758.70
STANDARD DRAWING NUMBERS	A-SM-47
INLET DRAWING NUMBERS	
OUTLET DRAWING NUMBERS	
CLASS "A" CONCRETE	C.Y.
STEEL BAR REINFORCING	LB.
FOUNDATION FILL MATERIAL	C.Y.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
BUREAU OF PLANNING & DEVELOPMENT

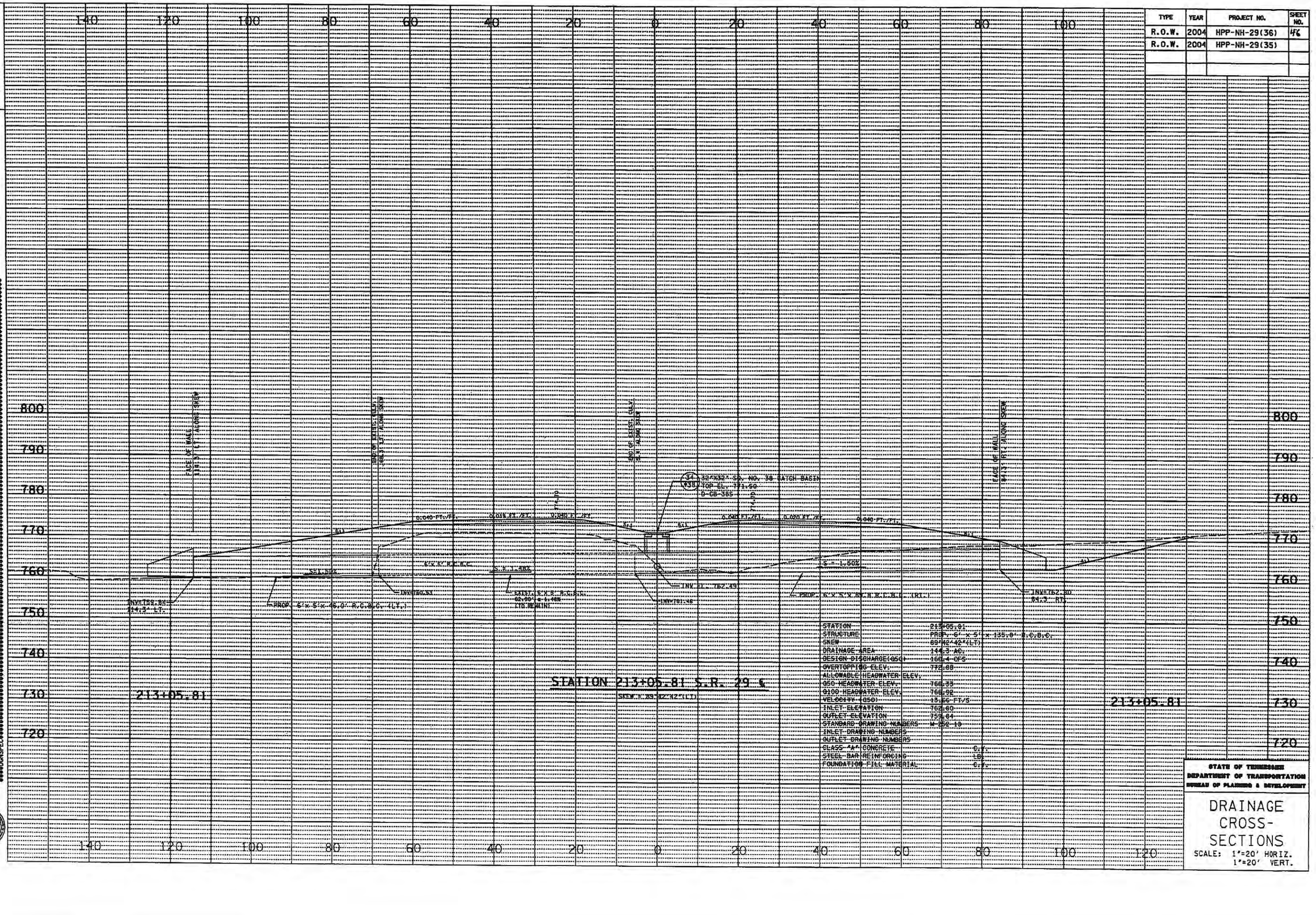
DRAINAGE CROSS-SECTIONS

SCALE: 1"=20' HORIZ.
1"=20' VERT.

DGNSPEC
STYTIME

TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2004	HPP-NH-29(36)	4F6
R.O.W.	2004	HPP-NH-29(35)	



STATION	213+05.81
STRUCTURE	PROP. 6' x 5' x 135.8' R.C.B.C.
SKEW	89°40'42"(LT)
DRAINAGE AREA	144.3 AC.
DESIGN DISCHARGE(Q50)	166.4 CFS
OVERTOPPING ELEV.	772.68
ALLOWABLE HEADWATER ELEV.	
Q50 HEADWATER ELEV.	766.33
Q100 HEADWATER ELEV.	766.92
VELOCITY (Q50)	13.66 FT/S
INLET ELEVATION	762.60
OUTLET ELEVATION	759.84
STANDARD DRAWING NUMBERS	M 802.10
INLET DRAWING NUMBERS	
OUTLET DRAWING NUMBERS	
CLASS "A" CONCRETE	C.Y.
STEEL BAR REINFORCING	LB.
FOUNDATION FILL MATERIAL	C.Y.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
BUREAU OF PLANNING & DEVELOPMENT

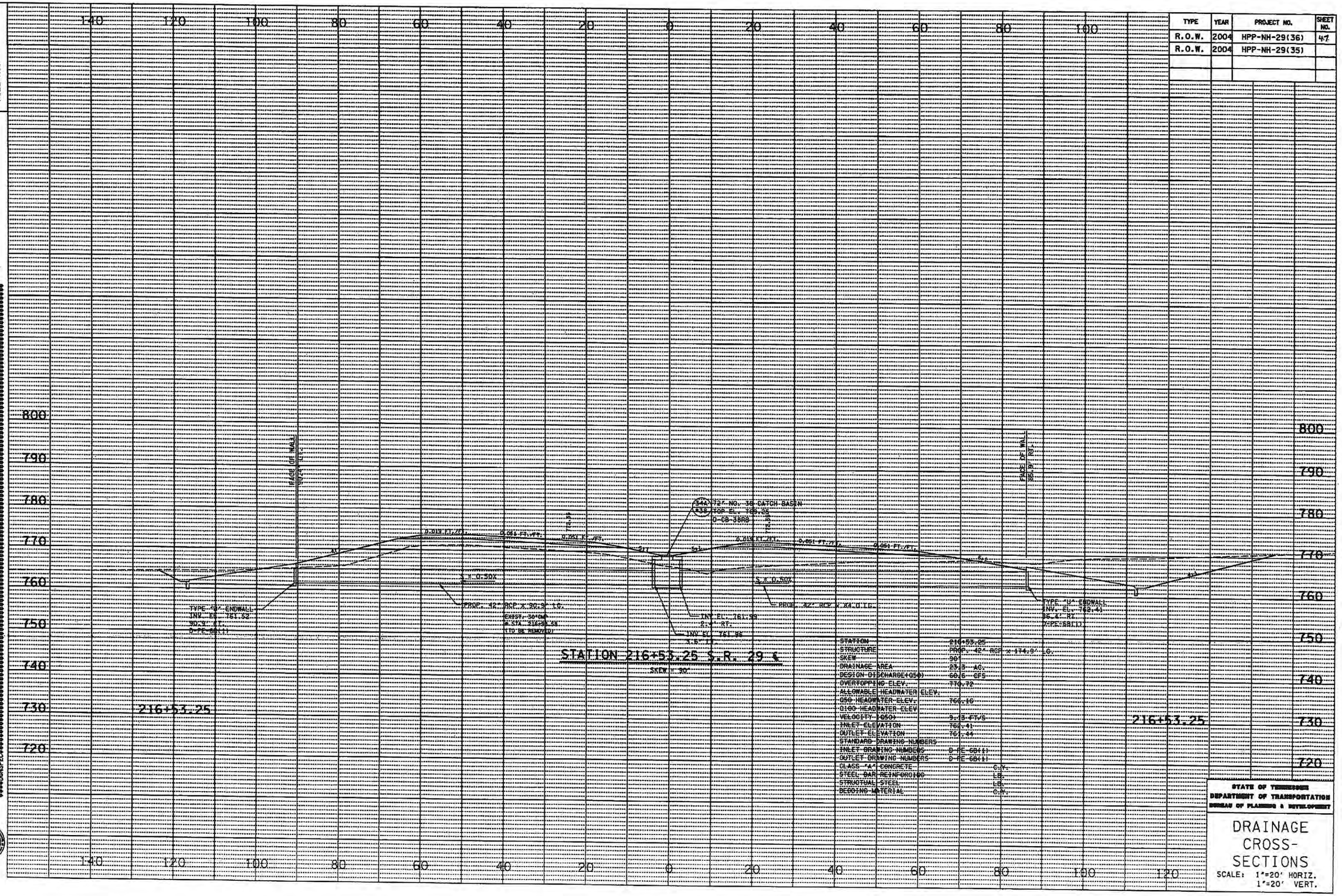
DRAINAGE CROSS-SECTIONS

SCALE: 1"=20' HORIZ.
1"=20' VERT.

$STYTIME$
$DGNSPEC$

TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2004	HPP-NH-29(36)	47
R.O.W.	2004	HPP-NH-29(35)	



STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
BUREAU OF PLANNING & DEVELOPMENT

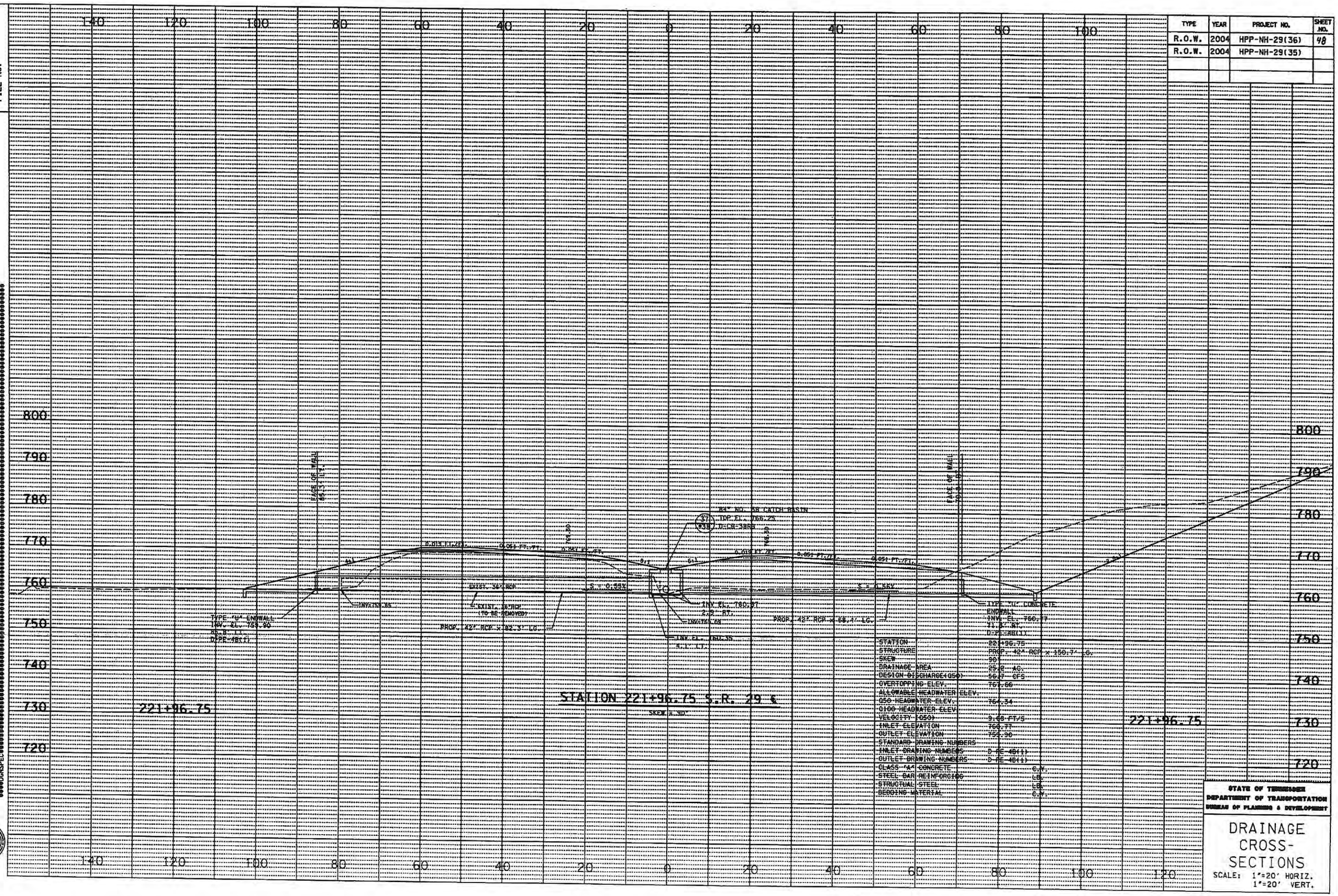
DRAINAGE CROSS-SECTIONS

SCALE: 1"=20' HORIZ.
1"=20' VERT.

****SYTIME****
****DGNSPEC****

TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2004	HPP-NH-29(36)	48
R.O.W.	2004	HPP-NH-29(35)	



STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
BUREAU OF PLANNING & DEVELOPMENT

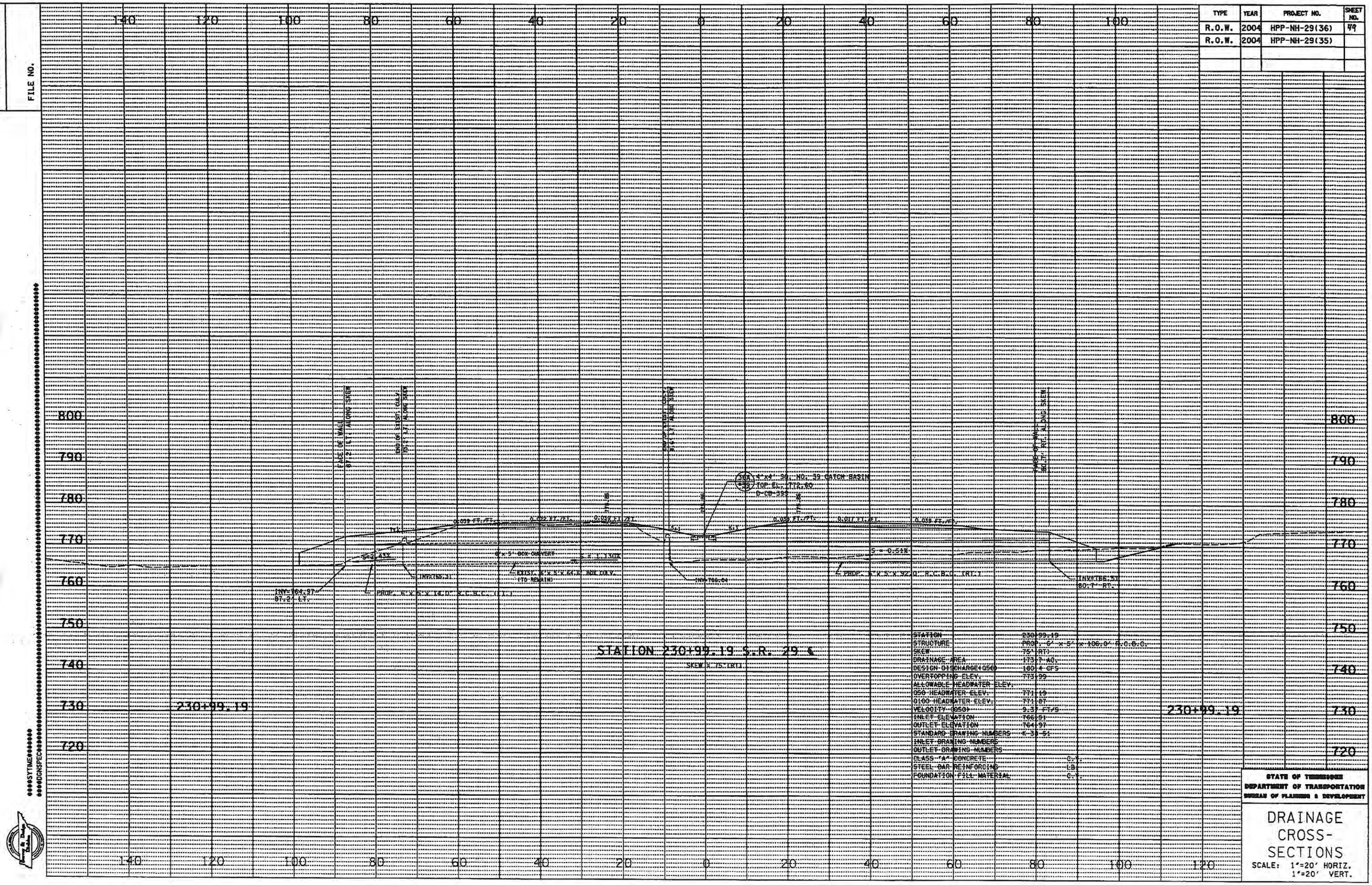
DRAINAGE CROSS-SECTIONS

SCALE: 1"=20' HORIZ.
1"=20' VERT.

$$SYTIME$$
$$DGNSPEC$$

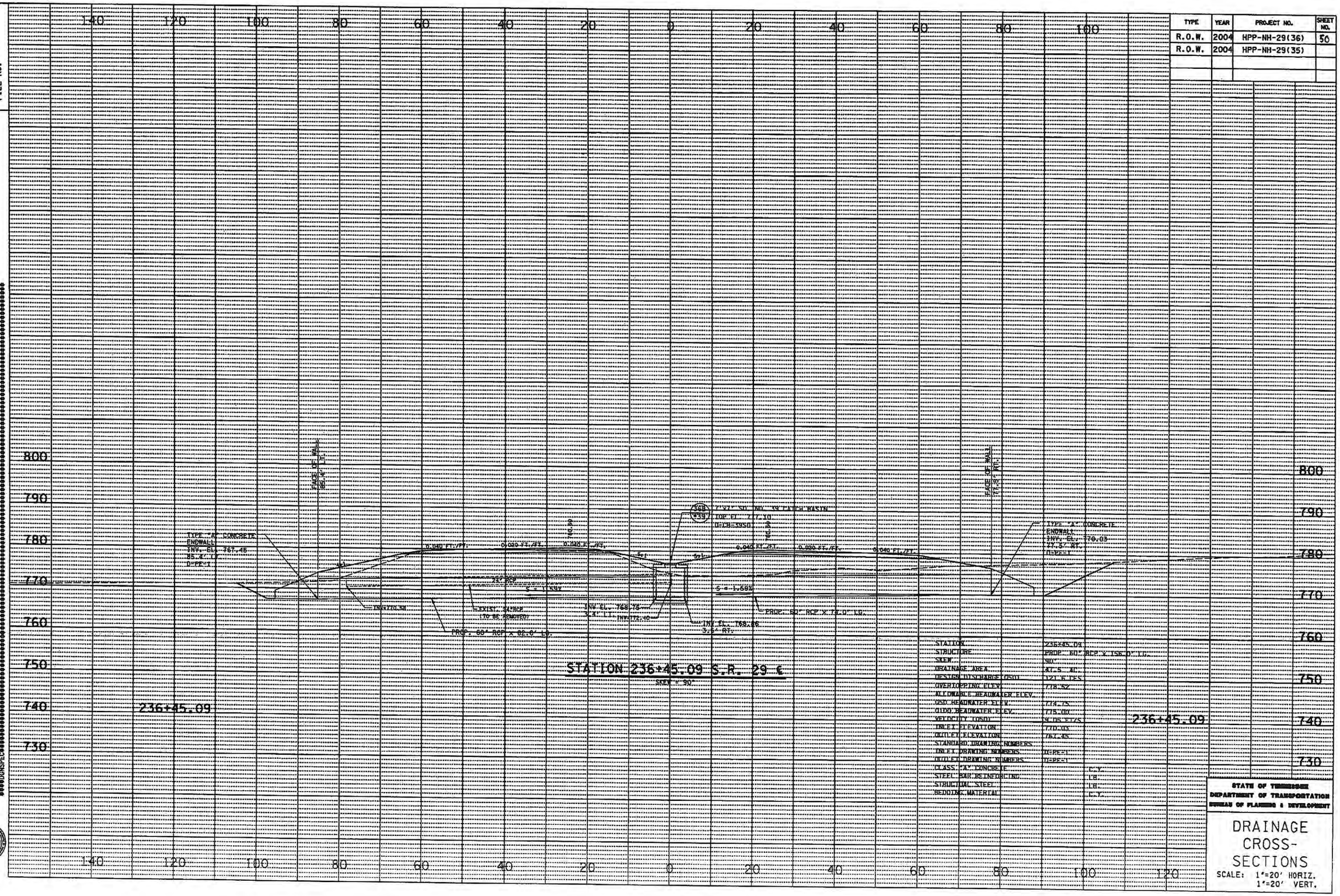
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2004	HPP-NH-29(36)	89
R.O.W.	2004	HPP-NH-29(35)	


140
120
100
80
60
40
20
0
20
40
60
80
100
800
790
780
770
760
750
740
730
720
EDGE OF WALL
97.2' LT. ALONG SKEW
END OF RET. WALL
75'-1" RT. ALONG SKEW
EDGE OF WALL
75'-1" RT. ALONG SKEW
0.059 FT./FT.
0.022 FT./FT.
0.039 FT./FT.
0.059 FT./FT.
0.039 FT./FT.
0.059 FT./FT.
S=0.51ft
S=0.51ft
S=0.51ft

TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2004	HPP-NH-29(36)	50
R.O.W.	2004	HPP-NH-29(35)	



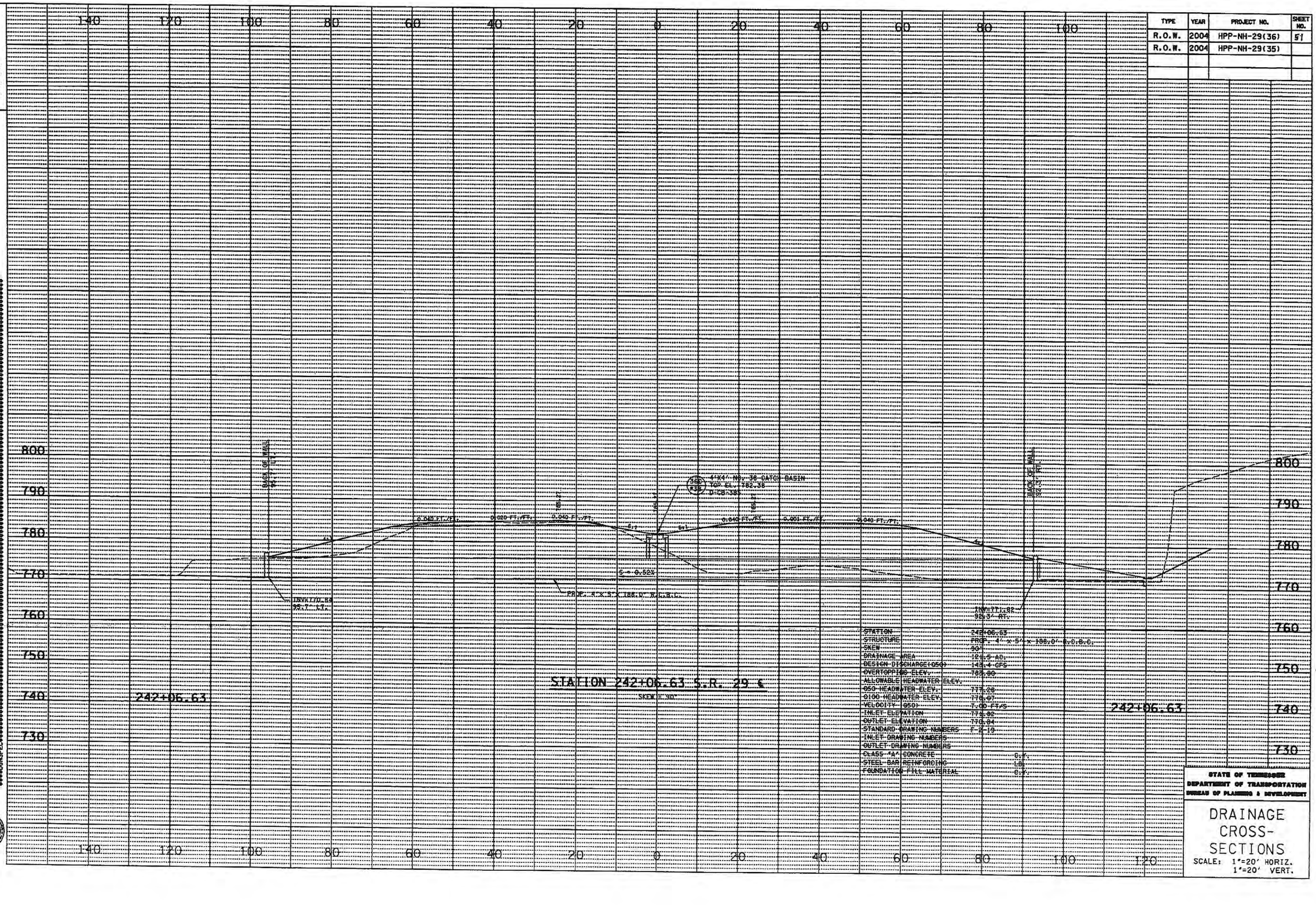
STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
BUREAU OF PLANNING & DEVELOPMENT

DRAINAGE CROSS-SECTIONS

SCALE: 1"=20' HORIZ.
1"=20' VERT.

TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2004	HPP-NH-29(36)	51
R.O.W.	2004	HPP-NH-29(35)	



STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
BUREAU OF PLANNING & DEVELOPMENT

DRAINAGE CROSS-SECTIONS

SCALE: 1"=20' HORIZ.
1"=20' VERT.

$$SYTIME$$
$$OGNSPEC$$

TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2004	HPP-NH-29(36)	52
R.O.W.	2004	HPP-NH-29(35)	

140 120 100 80 60 40 20 0 20 40 60 80 100

850 840 830 820 810 800 790 780 770 760

260+05.13

STATION 260+05.13 S.R. 29 &

SKEW = 75.1RT.

TYPE "A" CONCRETE ENDWALL INV. EL. 793.78 77.5' LT. 0-PE-48"

1INV=793.42

0.038 FT/FT

0.038 FT/FT

30" RCP

S= 0.305

EXIST. 30" RCP 57.86' @ 1.76% TO BE REMOVED

PROP. 42" RCP x 71.0

INV=795.43

INV. EL. 794.2 3.7' LT.

44A 436 72" NO. 38 CATCH BASIN TOP EL. 800.47 0-CB-38RB

PROP. 42" RCP

0.038 FT/FT

0.016 FT/FT

0.038 FT/FT

S = 3.16%

PROP. 48" RCP x 78.7' LG.

1INV EL. 794.22 2.5' RT.

PROP. 48" RCP x 152.7' LG.

TYPE "A" CONCRETE ENDWALL INV. EL. 794.65 61.1' RT. 0-PE-1

FACE OF WALL ALONG SKEW

FACE OF WALL ALONG SKEW

STATION	260+05.13
STRUCTURE	PROP. 48" RCP x 152.7' LG.
SKEW	75° (RT)
DRAINAGE AREA	21.7 AC.
DESIGN DISCHARGE(Q50)	65.0 CFS
OVERTOPPING ELEV.	801.57
ALLOWABLE HEADWATER ELEV.	
Q50 HEADWATER ELEV.	795.67
Q100 HEADWATER ELEV.	799.93
VELOCITY (Q50)	7.21 FT/S
INLET ELEVATION	786.65
OUTLET ELEVATION	783.76
STANDARD DRAWING NUMBERS	

260+05.13

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
BUREAU OF PLANNING & DEVELOPMENT

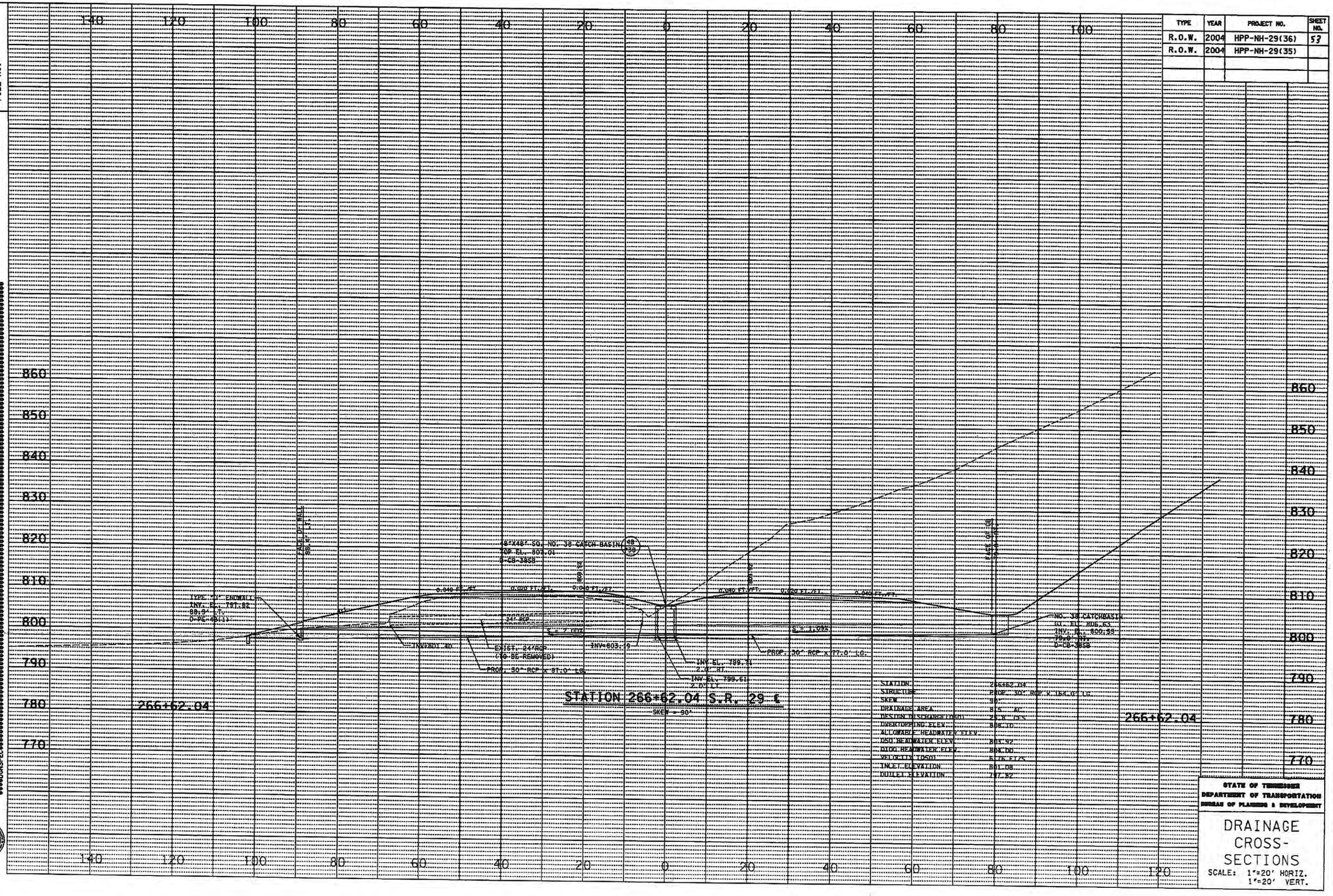
DRAINAGE CROSS-SECTIONS

SCALE: 1"=20' HORIZ.
1"=20' VERT.

$$SYSTIME$$
$$DONSPEC$$

TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

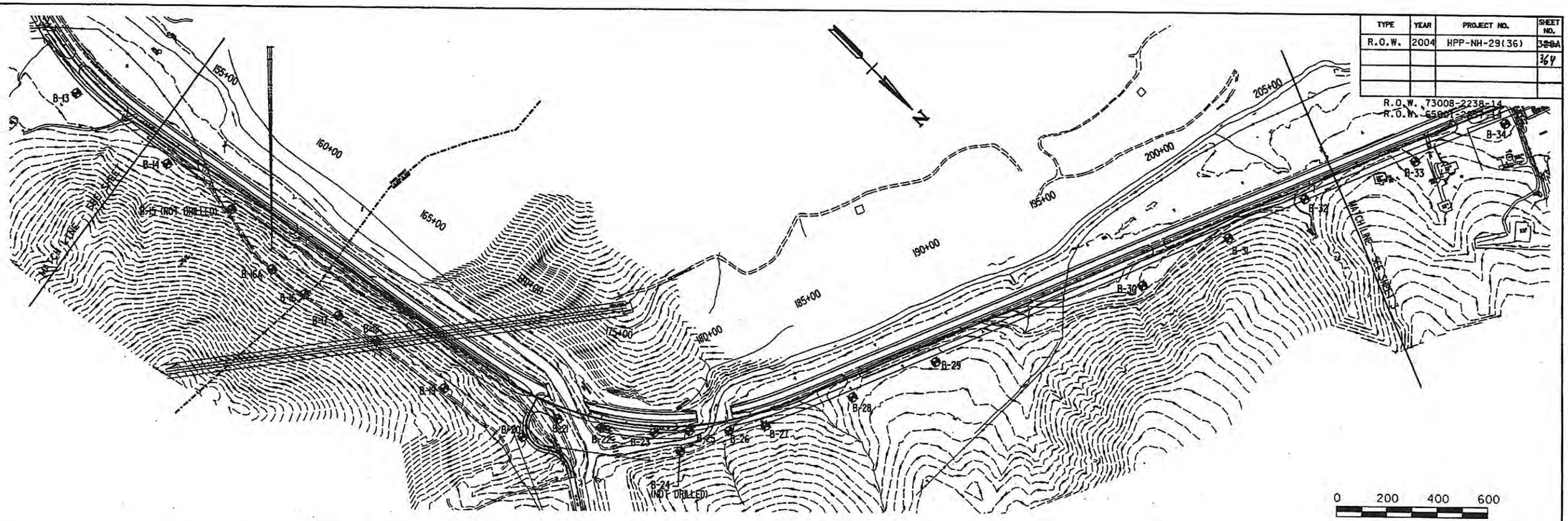
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2004	HPP-NH-29(36)	53
R.O.W.	2004	HPP-NH-29(35)	

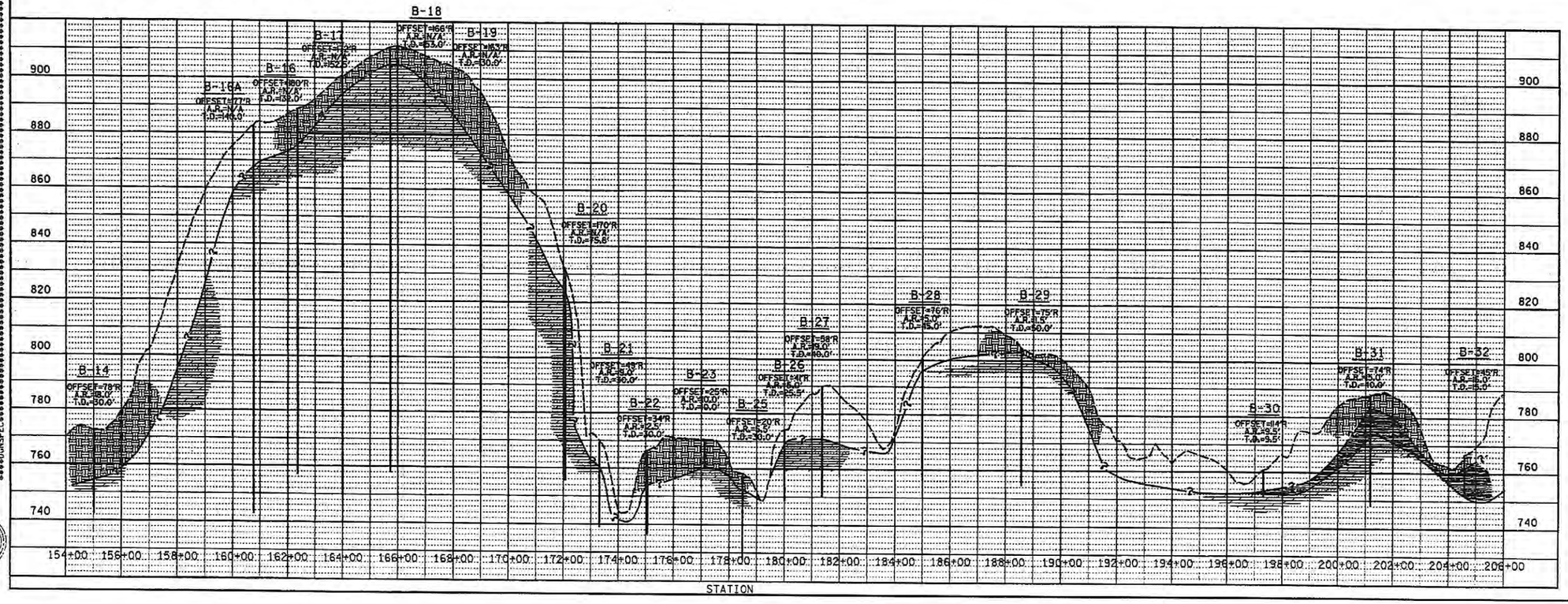

140
120
100
80
60
40
20
0
20
40
60
80
100
120
860
850
840
830
820
810
800
790
780
770
266+62.04
TYPE "D" ENDWALL
INV'S: R.: 797.82
L.: 800.04
D=96"x60"(H.)
INVERT
INVERT
INVERT

TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2004	HPP-NH-29(36)	~~328A~~ 364

R.O.W. 73008-2238-14
R.O.W. 65001-2251-14





LEGEND

- OVERBURDEN
- PARTIALLY WEATHERED ROCK
- BEDROCK
- B-12 - BORING NO.
- OFFSET - DISTANCE FROM CENTERLINE
- A.R. - AUGER REFUSAL
- T.D. - TERMINATION DEPTH

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
BUREAU OF PLANNING & DEVELOPMENT

SOILS PROFILE

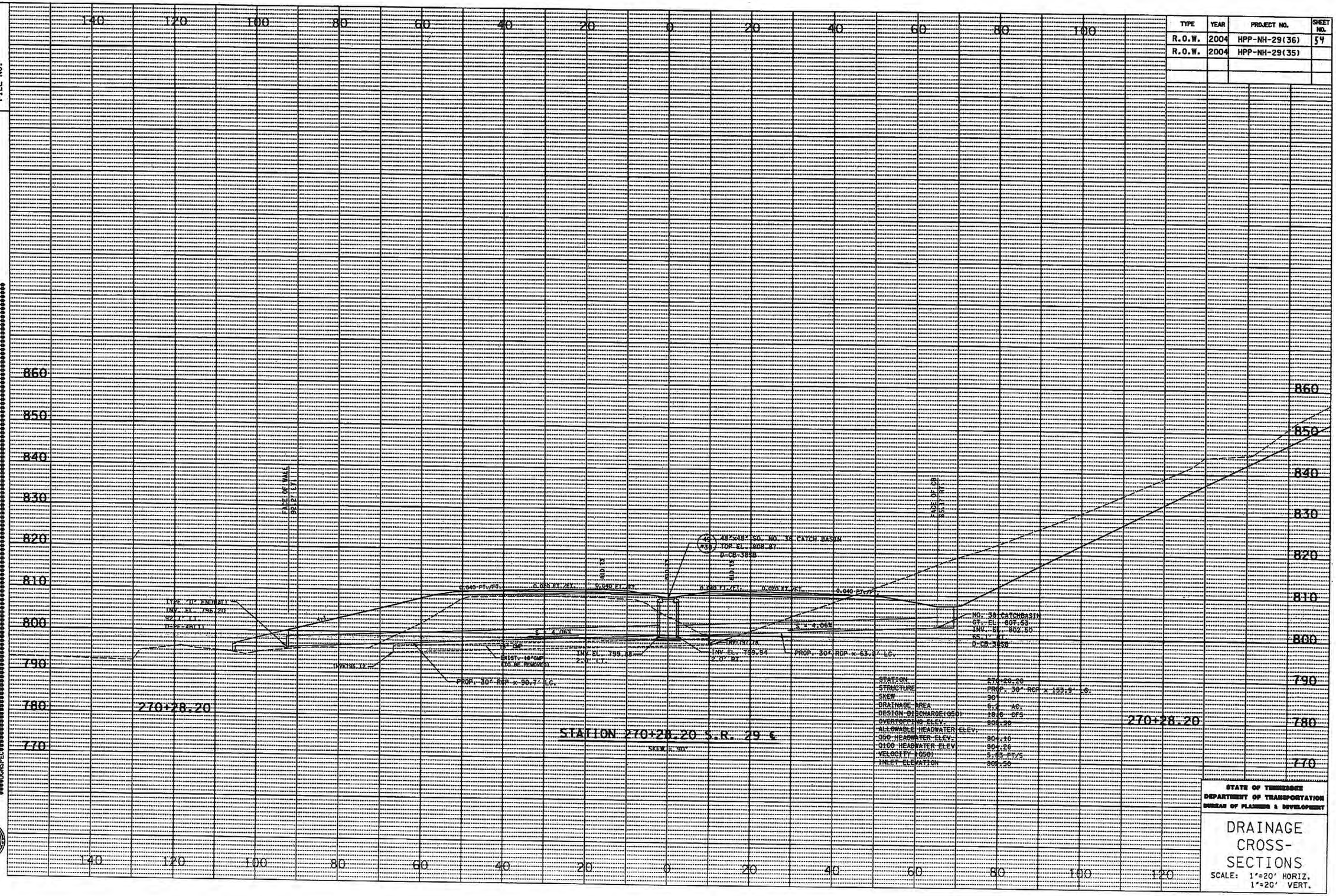
STA. 154+00 TO STA. 206+00

SHEET 2 OF 5

$$SYTIME$$
$$ONSPEC$$

TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2004	HPP-NH-29(36)	59
R.O.W.	2004	HPP-NH-29(35)	



STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
BUREAU OF PLANNING & DEVELOPMENT

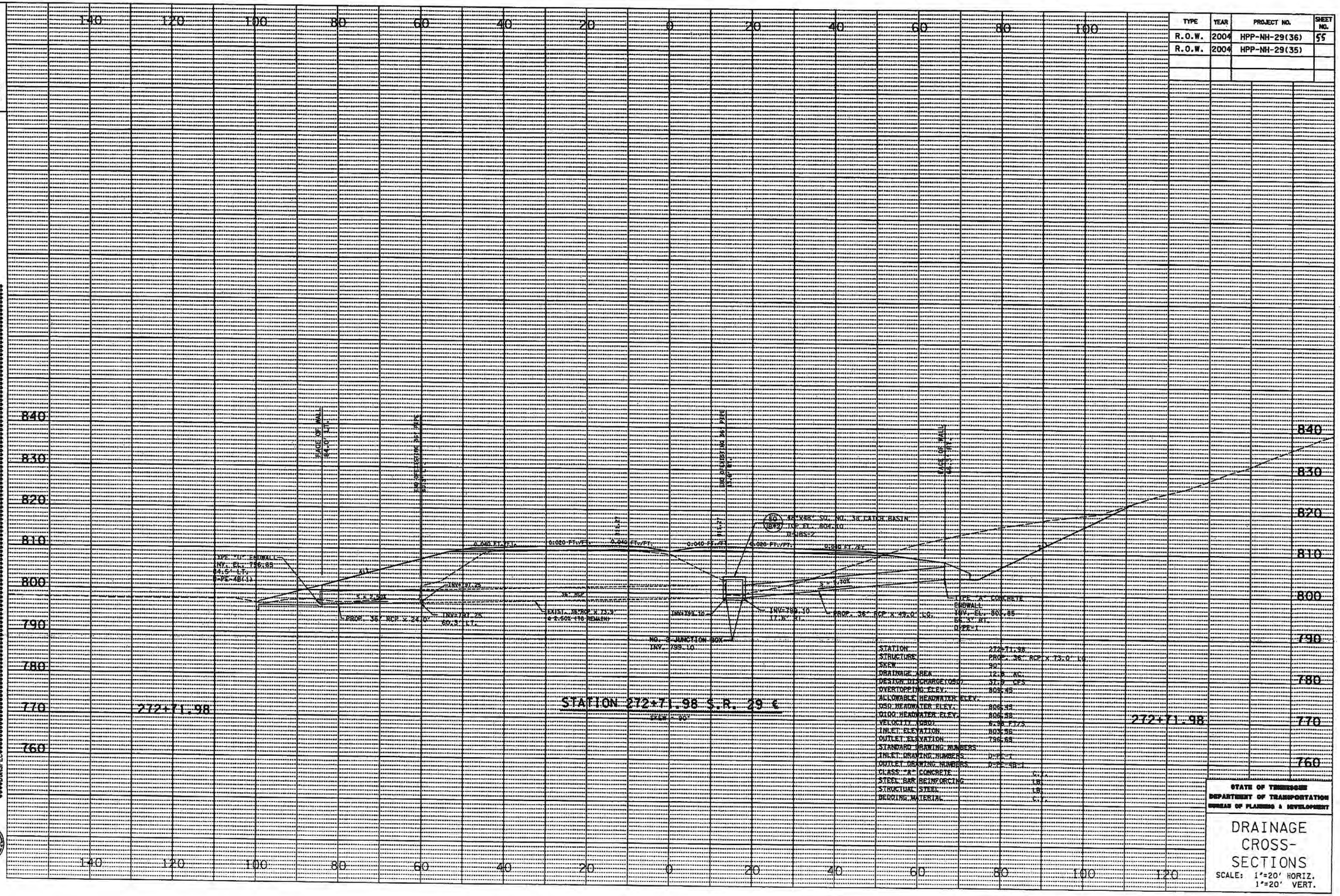
DRAINAGE CROSS-SECTIONS

SCALE: 1"=20' HORIZ.
1"=20' VERT.

SYTIME
DGNSPEC

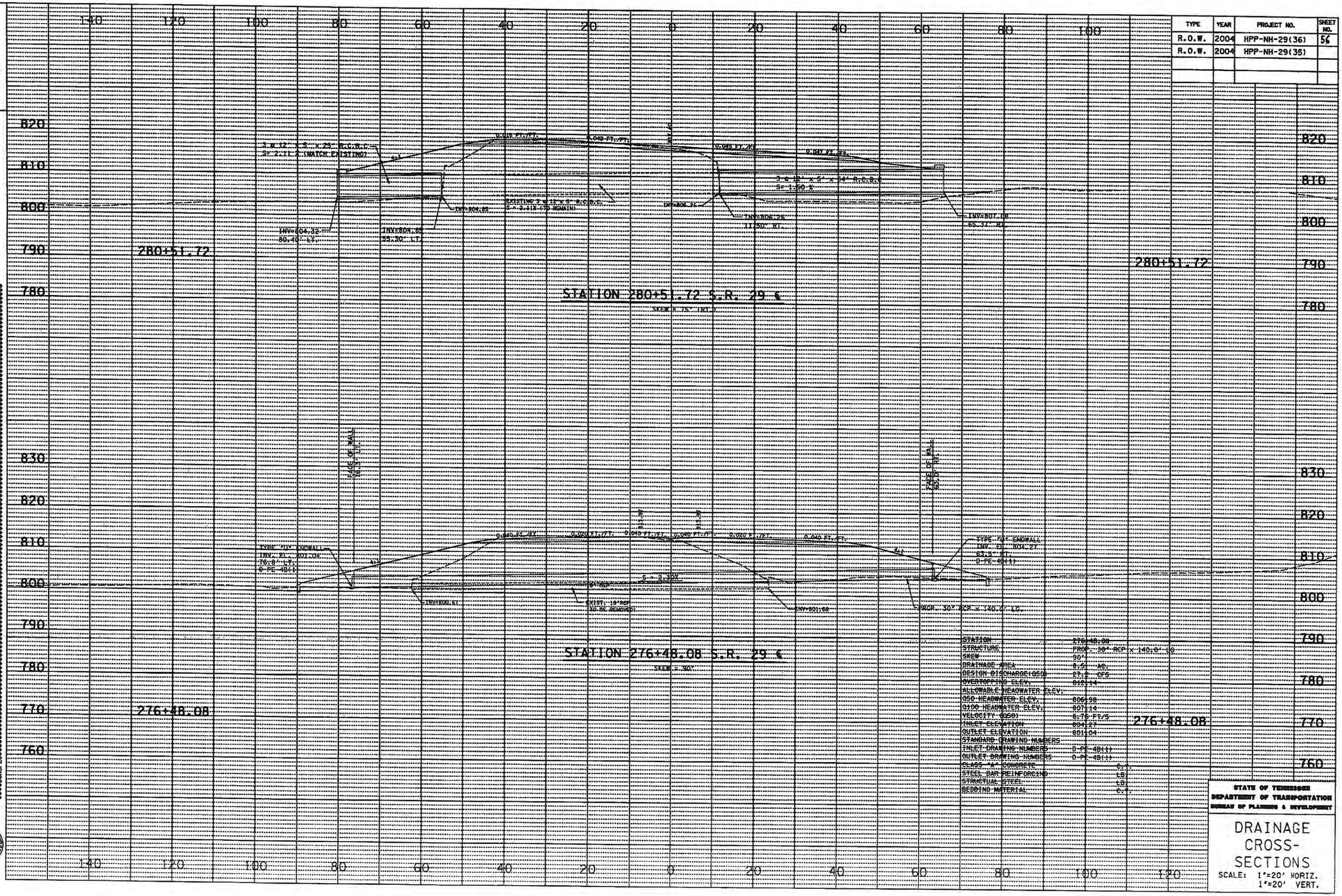
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2004	HPP-NH-29(36)	55
R.O.W.	2004	HPP-NH-29(35)	


140
120
100
80
60
40
20
0
20
40
60
80
100
120
840
830
820
810
800
790
780
770
760
272+71.98
STATION 272+71.98 S.R. 29 €
SKEW 90°
TYPE "C" HEADWALL
INV. EL. 796.88
84.5° LT.
1-PE-48(1)
EXIST. 36" RCP X 73.3'
@ 2.50% (TO REMAIN)
PROP. 36" RCP X 24.0'
@ 2.50%
INV=797.25
60.8° LT.
INV=797.10
NO. 2 JUNCTION BOX
INV. 799.10
PROP. 36" RCP X 49.0' @
INV=799.10
17.6° RT.
TYPE "A" CONCRETE
HEADWALL
INV. EL. 802.85
84.5° RT.
1-PE-1
EDGE OF PAVEMENT
EDGE OF WALL
EDGE OF SHOULDER
EDGE OF WALL
0.020 FT./FT.
0.040 FT./FT.
0.040 FT./FT.
0.020 FT./FT.

TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2004	HPP-NH-29(36)	56
R.O.W.	2004	HPP-NH-29(35)	



STATION	276+48.08
STRUCTURE	PROP. 30" RCP x 140.0' Lt.
SKEW	90°
DRAINAGE AREA	8.5 AC.
DESIGN DISCHARGE(Q50)	27.2 CFS
OVERTOPPING ELEV.	812.14
ALLOWABLE HEADWATER ELEV.	
Q50 HEADWATER ELEV.	806.98
Q100 HEADWATER ELEV.	807.14
VELOCITY (Q50)	6.76 FT/S
INLET ELEVATION	804.27
OUTLET ELEVATION	801.04
STANDARD DRAWING NUMBERS	
INLET DRAWING NUMBERS	D-PE-4B(1)
OUTLET DRAWING NUMBERS	D-PE-4B(1)
CLASS "A" CONCRETE	C.Y.
STEEL BAR REINFORCING	LB.
STRUCTUAL STEEL	LB.
BEDDING MATERIAL	C.Y.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
BUREAU OF PLANNING & DEVELOPMENT

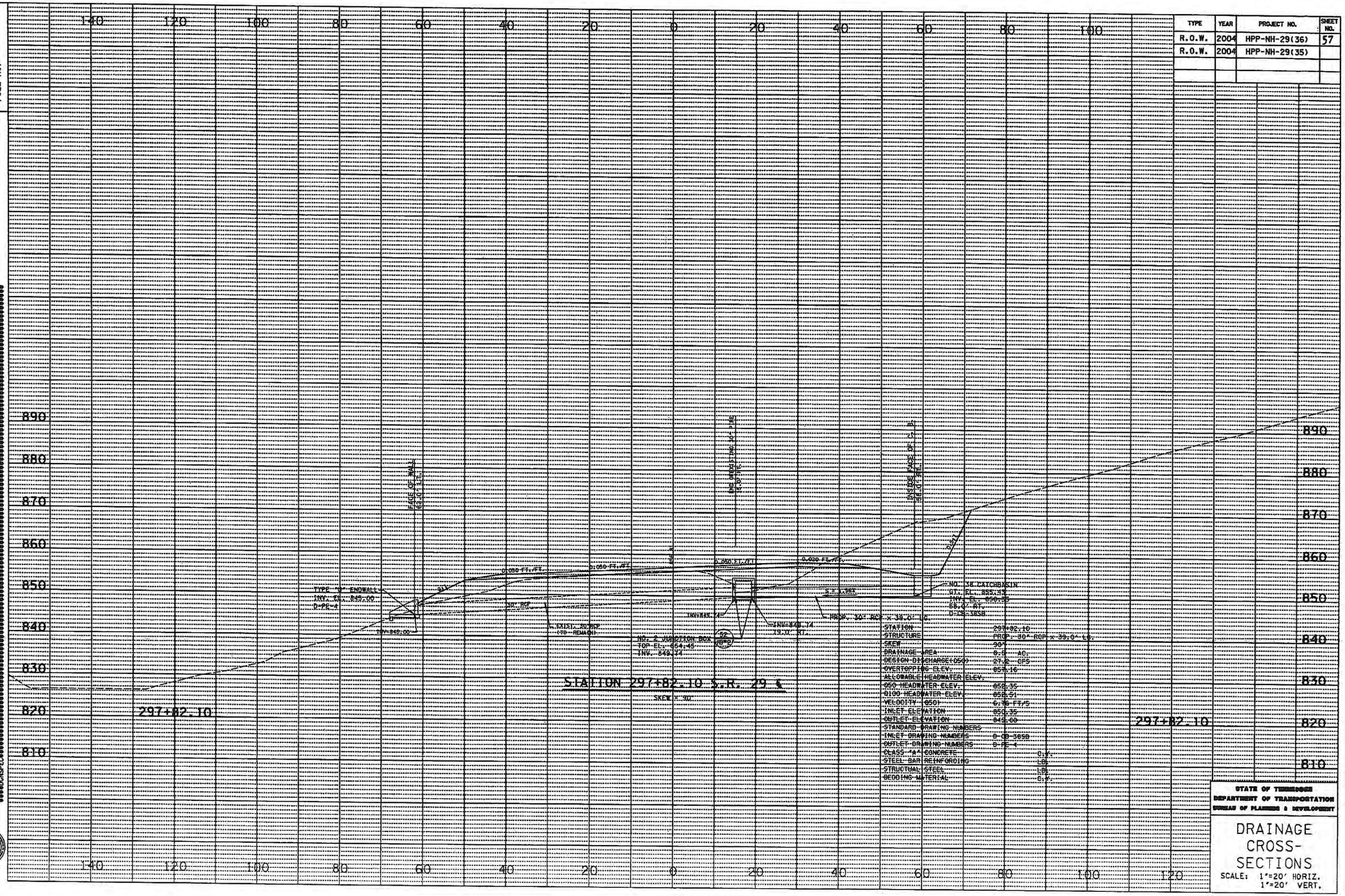
DRAINAGE CROSS-SECTIONS

SCALE: 1"=20' HORIZ.
1"=20' VERT.

SYTIME
DGNSPEC

TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2004	HPP-NH-29(36)	57
R.O.W.	2004	HPP-NH-29(35)	



STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
BUREAU OF PLANNING & DEVELOPMENT

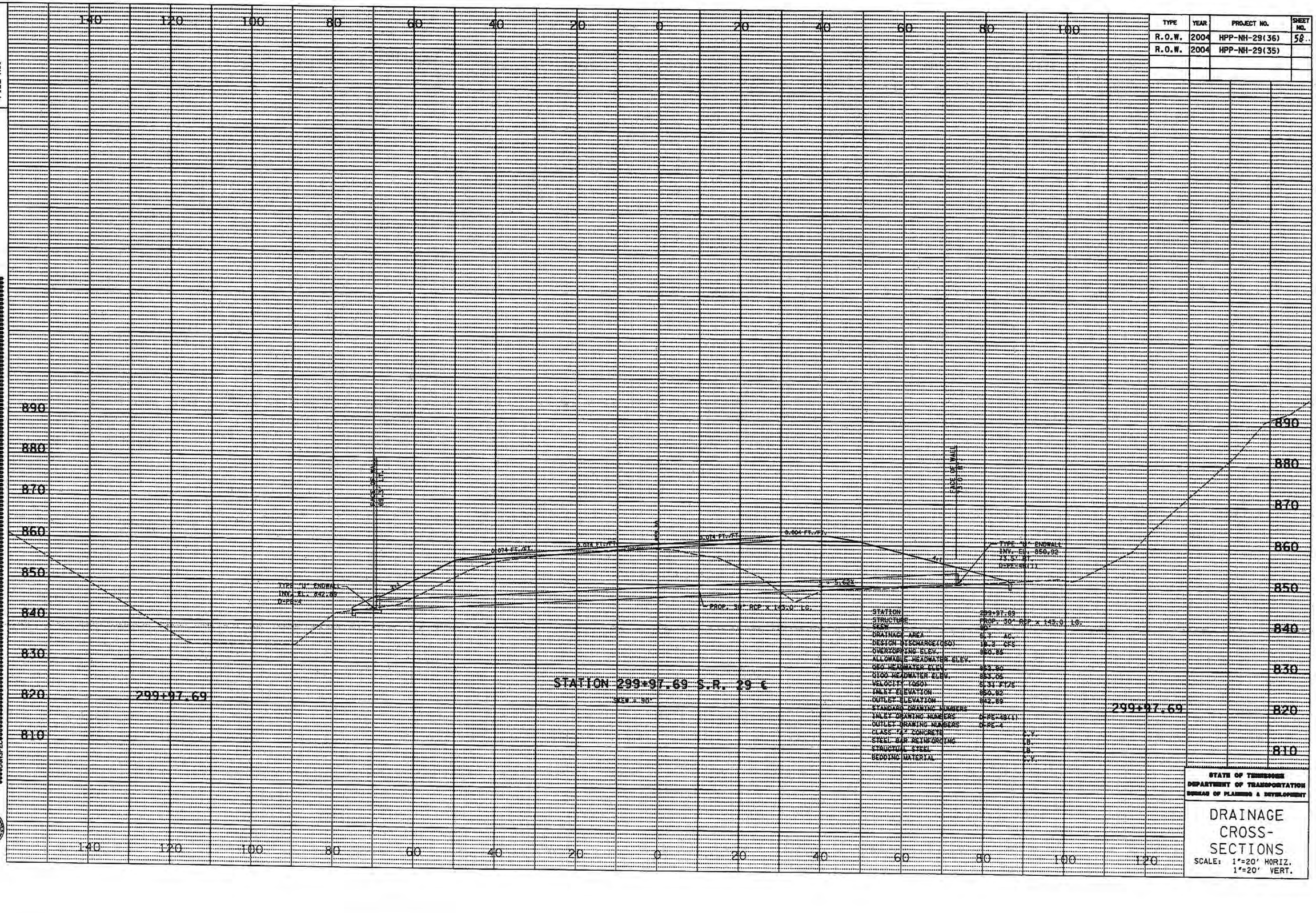
DRAINAGE CROSS-SECTIONS

SCALE: 1"=20' HORIZ.
1"=20' VERT.

SYTIME
DONSPEC

TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2004	HPP-NH-29(36)	58
R.O.W.	2004	HPP-NH-29(35)	



STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
BUREAU OF PLANNING & DEVELOPMENT

DRAINAGE CROSS-SECTIONS

SCALE: 1"=20' HORIZ.
1"=20' VERT.

$$SYTIME$$
$$DGNSPEC$$

TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2004	HPP-NH-29(36)	59
R.O.W.	2004	HPP-NH-29(35)	

140 120 100 80 60 40 20 0 20 40 60 80 100 120

900 890 880 870 860 850 840 830 820

304+90.72

STATION 304+90.72 S.R. 29 ℄

SKEW = 90°

TYPE "U" ENDWALL
INV. EL. 850.19
0-PE-4

FACE OF WALL
62.8' LT.

0.014 FT./FT.

0.018 FT./FT.

0.004 FT./FT.

0.042 FT./FT.

S = 6.00%

18" CMP

FAIRED INTAKE
(TO BE REMOVED)

INTAKE OF

PROV. 30" RCP x 121.0' @

INSIDE FACE OF PIPE
58.0' RT.

NO. 38 CATCHBASIN
INV. EL. 851.44
58.0' RT.
0-CB-36SB

STATION	304+90.72
STRUCTURE	PROP. 30" RCP x 121.0' @
SKEW	90°
DRAINAGE AREA	2.0 AC.
DESIGN DISCHARGE(Q50)	20.8 CFS
OVERTOPPING ELEV.	863.95
ALLOWABLE HEADWATER ELEV.	
Q50 HEADWATER ELEV.	860.28
Q100 HEADWATER ELEV.	863.47
VELOCITY - Q50=	9.84 FT/S
INLET ELEVATION	851.44
OUTLET ELEVATION	850.19
STANDARD DRAWING NUMBERS	
INLET DRAWING NUMBERS	0-CB-36SB
OUTLET DRAWING NUMBERS	0-PE-4
CLASS "A" CONCRETE	C.Y.
STEEL BAR REINFORCING	LBS.
STRUCTURAL STEEL	LBS.
BEDDING MATERIAL	C.Y.

304+90.72

900 890 880 870 860 850 840 830 820

140 120 100 80 60 40 20 0 20 40 60 80 100 120

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
BUREAU OF PLANNING & DEVELOPMENT

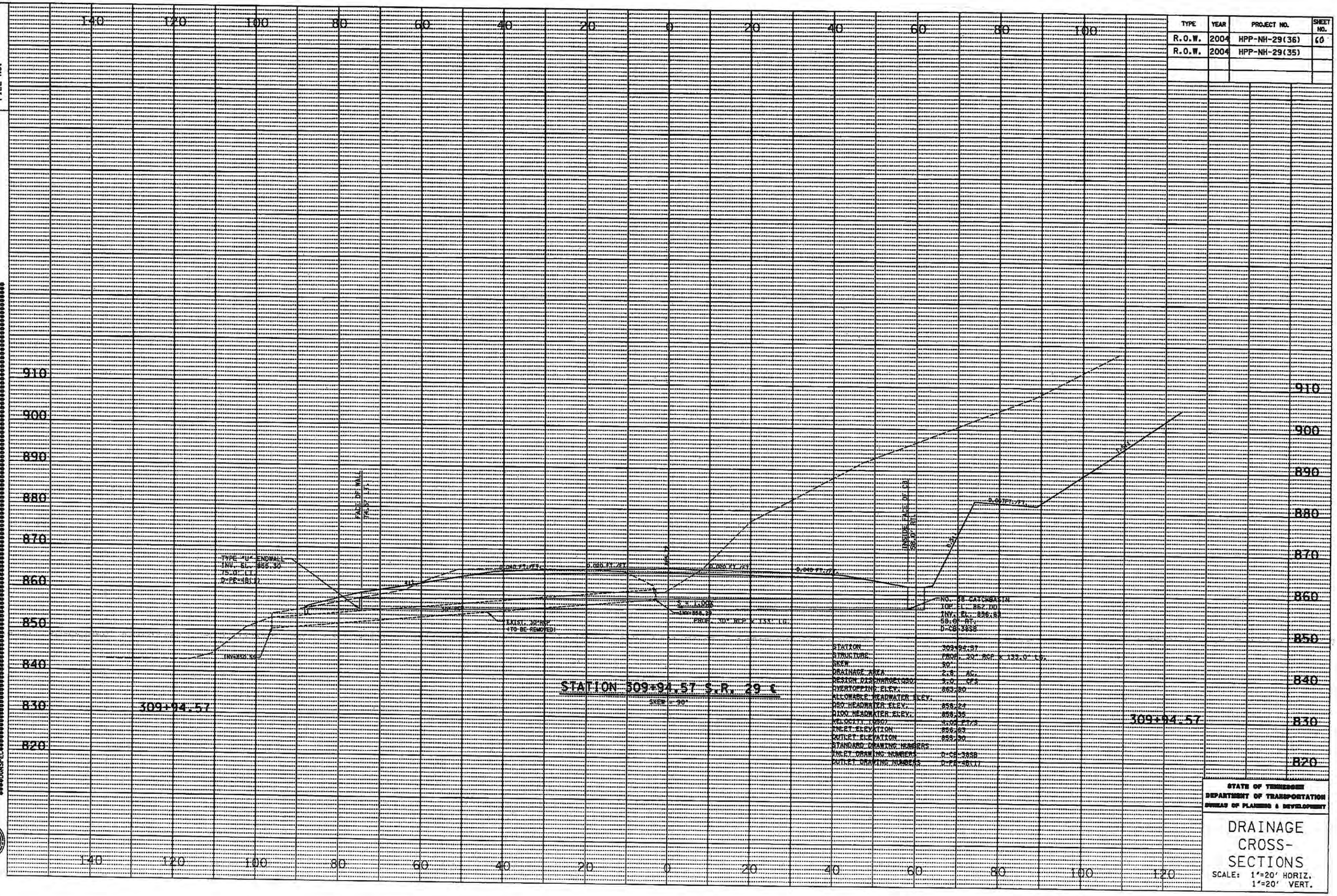
DRAINAGE CROSS-SECTIONS

SCALE: 1"=20' HORIZ.
1"=20' VERT.

$DGNSPEC$$$$$$$$
$$$$SYTIME$$$$$$$$

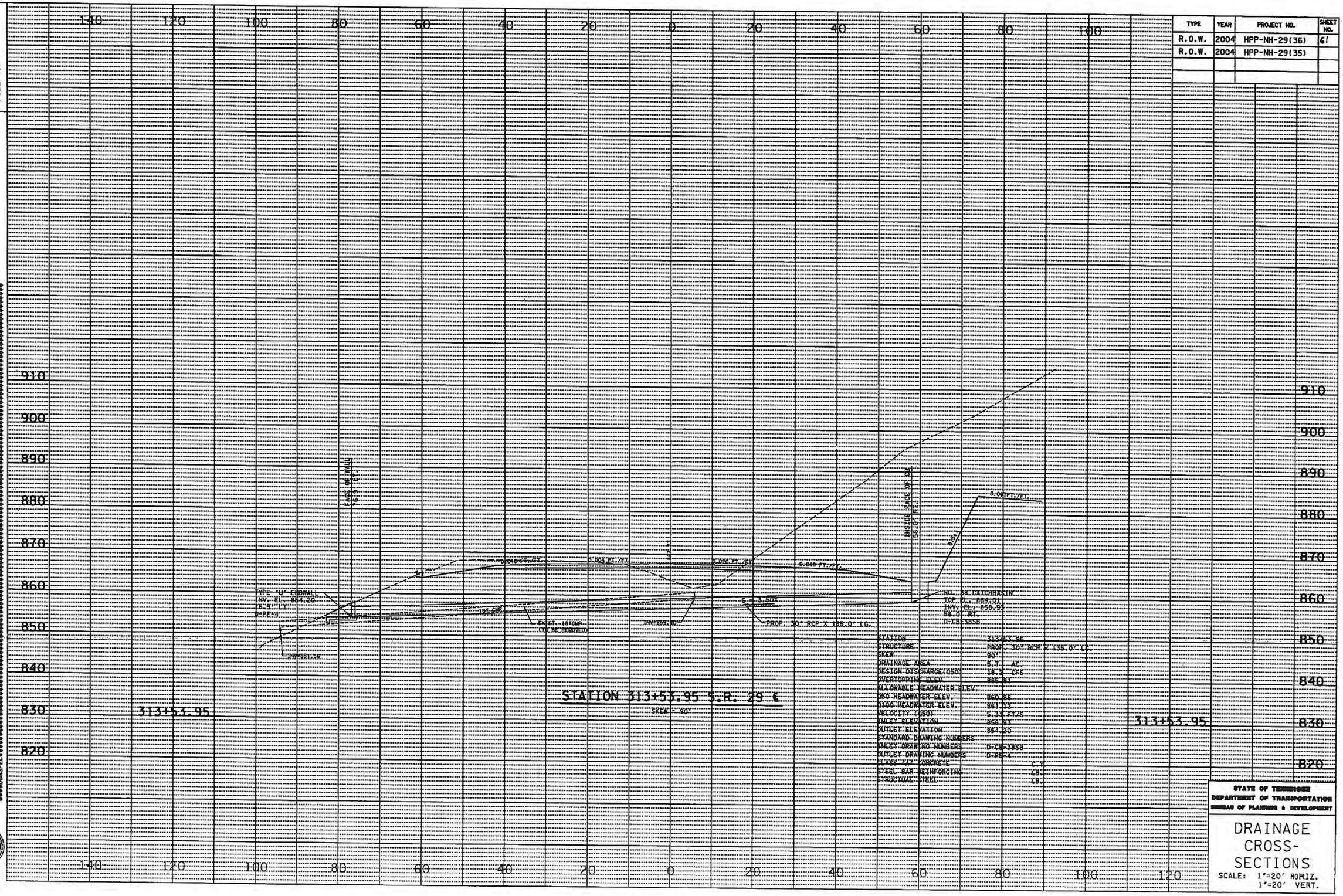
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2004	HPP-NH-29(36)	60
R.O.W.	2004	HPP-NH-29(35)	


140
120
100
80
60
40
20
0
20
40
60
80
100
120
910
900
890
880
870
860
850
840
830
820
309+94.57
TYPE "U" ENDWALL
INV. EL. 855.30
15.0' LT.
0-PF-18(1)
INVERSE SLP
FACE OF WALL
TYP. OF 2
0.040 FT./FT.
0.060 FT./FT.
0.040 FT./FT.
0.067FT./FT.
0.067FT./FT.
INVERSE SLP
3:1
3:1
3:1

TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2004	HPP-NH-29(36)	61
R.O.W.	2004	HPP-NH-29(35)	



STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
BUREAU OF PLANNING & DEVELOPMENT

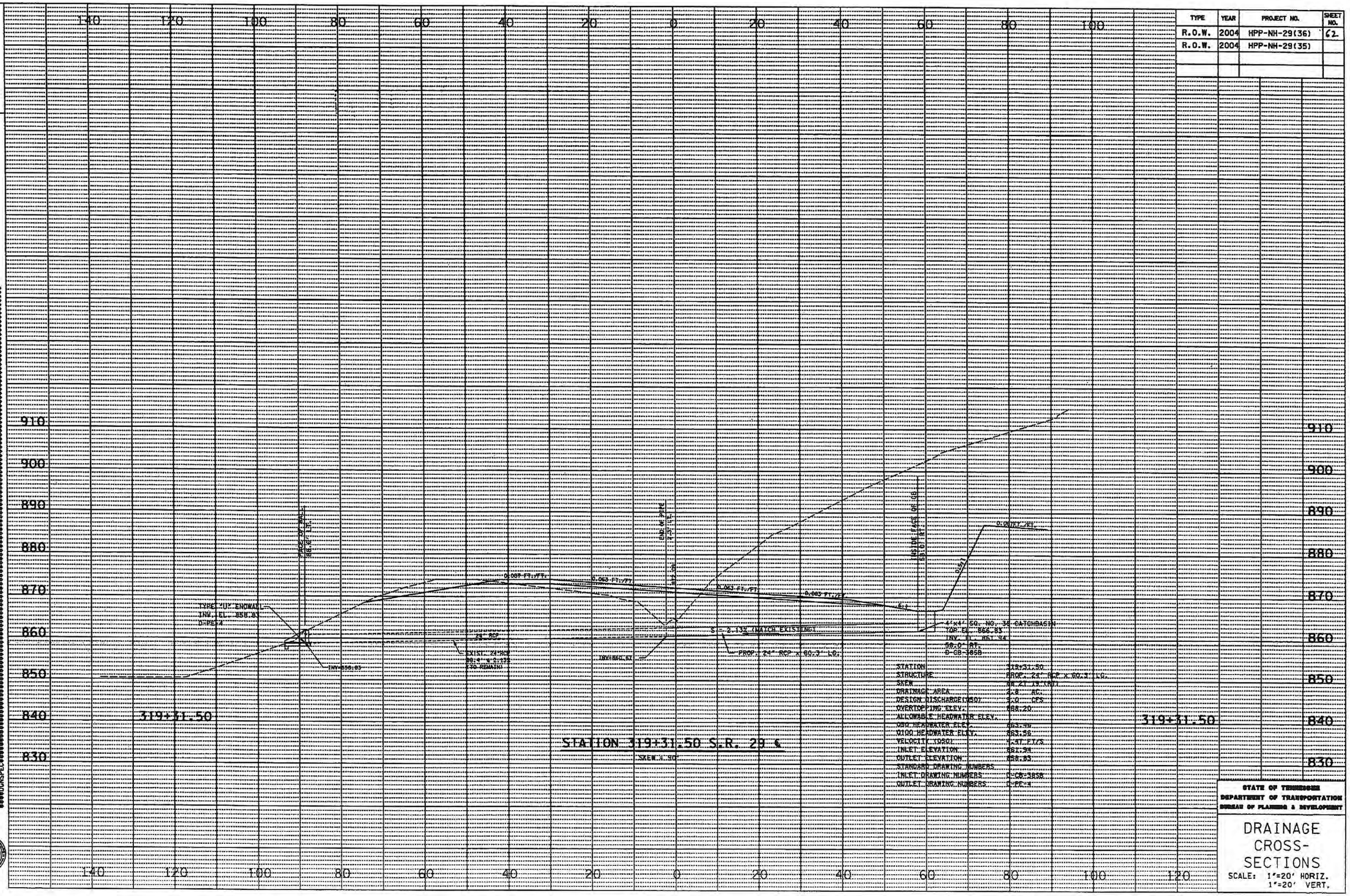
DRAINAGE CROSS-SECTIONS

SCALE: 1"=20' HORIZ.
1"=20' VERT.

$$SYTIME$$
$$DGNSPEC$$

TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2004	HPP-NH-29(36)	62.
R.O.W.	2004	HPP-NH-29(35)	



STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
BUREAU OF PLANNING & DEVELOPMENT

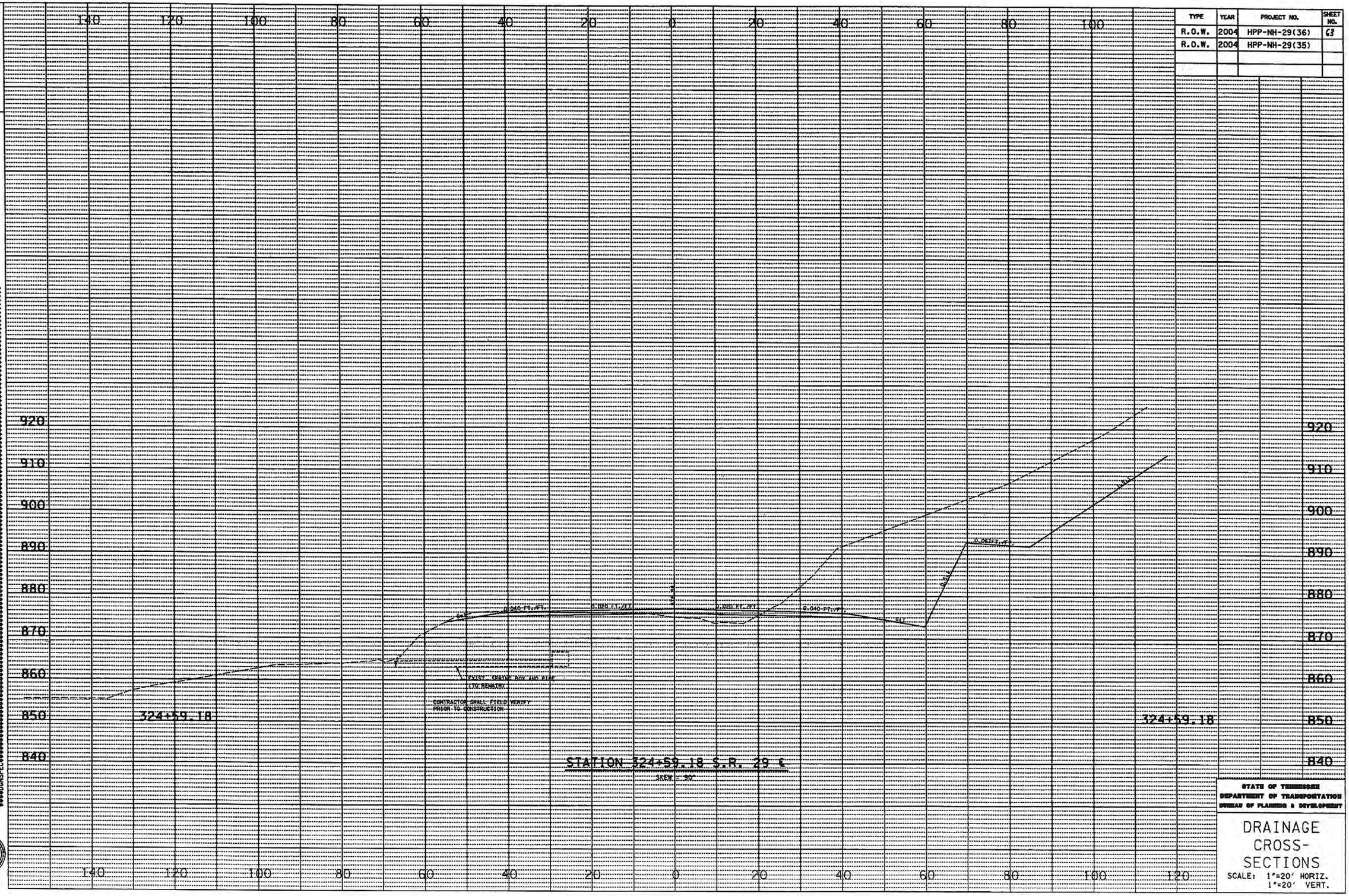
DRAINAGE CROSS-SECTIONS

SCALE: 1"=20' HORIZ.
1"=20' VERT.

SYSTIME
DGNSPEC

TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2004	HPP-NH-29(36)	63
R.O.W.	2004	HPP-NH-29(35)	



STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
BUREAU OF PLANNING & DEVELOPMENT

DRAINAGE CROSS-SECTIONS

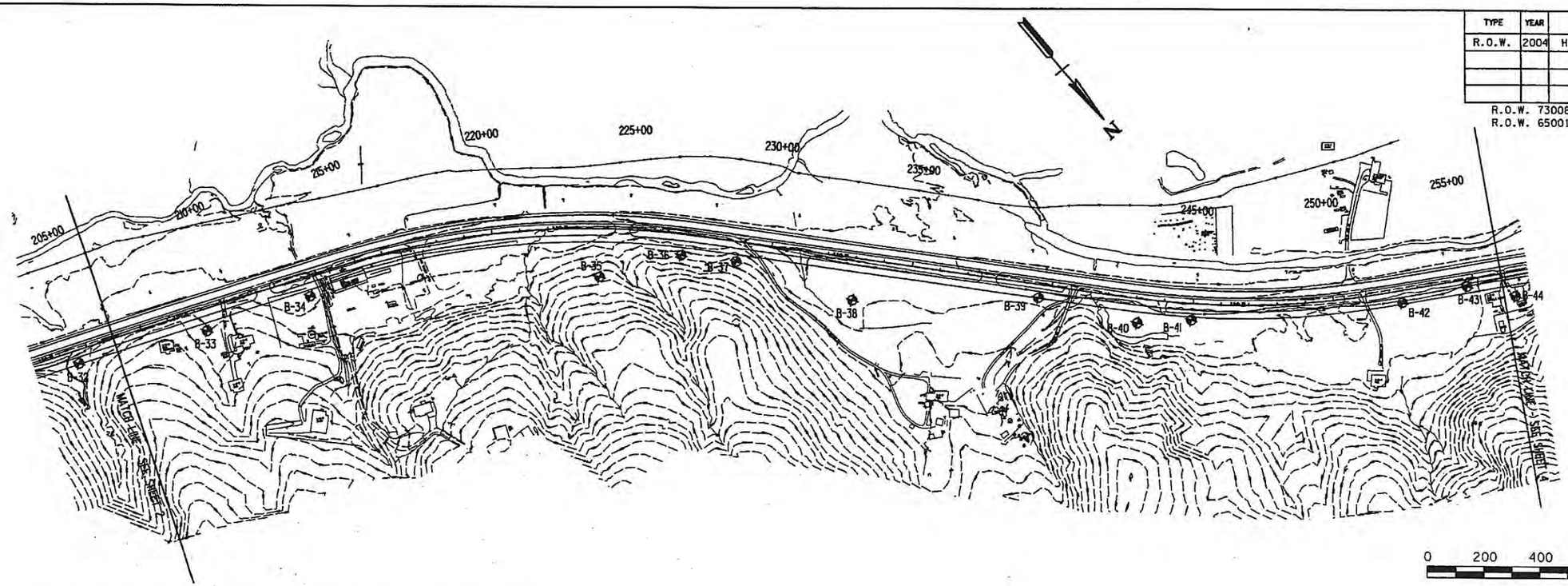
SCALE: 1"=20' HORIZ.
1"=20' VERT.

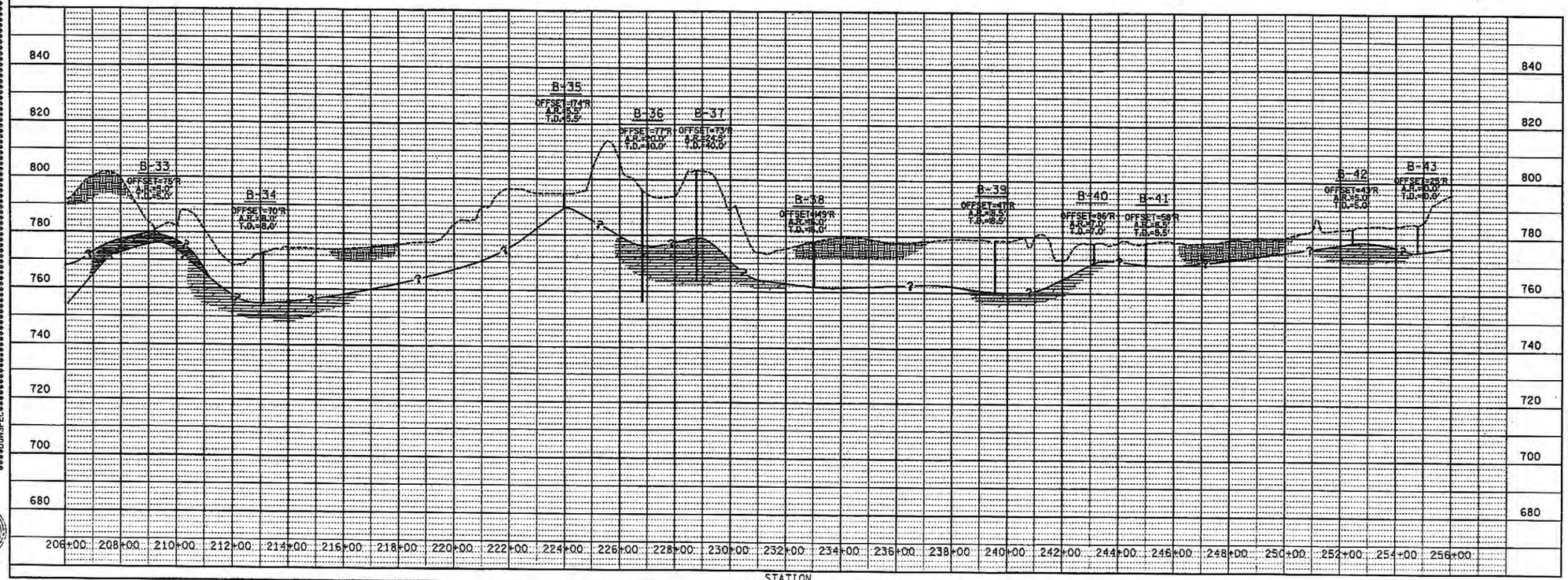
****SYTIME********
****DGNSPEC********

TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2004	HPP-NH-29(36)	3288
			365

R.O.W. 73008-2238-14
R.O.W. 65001-2257-14





LEGEND

- OVERBURDEN
- PARTIALLY WEATHERED ROCK
- BEDROCK
- B-12 - BORING NO.
- OFFSET - DISTANCE FROM CENTERLINE
- A.R. - AUGER REFUSAL
- T.D. - TERMINATION DEPTH

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
BUREAU OF PLANNING & DEVELOPMENT

SOILS PROFILE

STA. 206+00 TO STA. 256+00

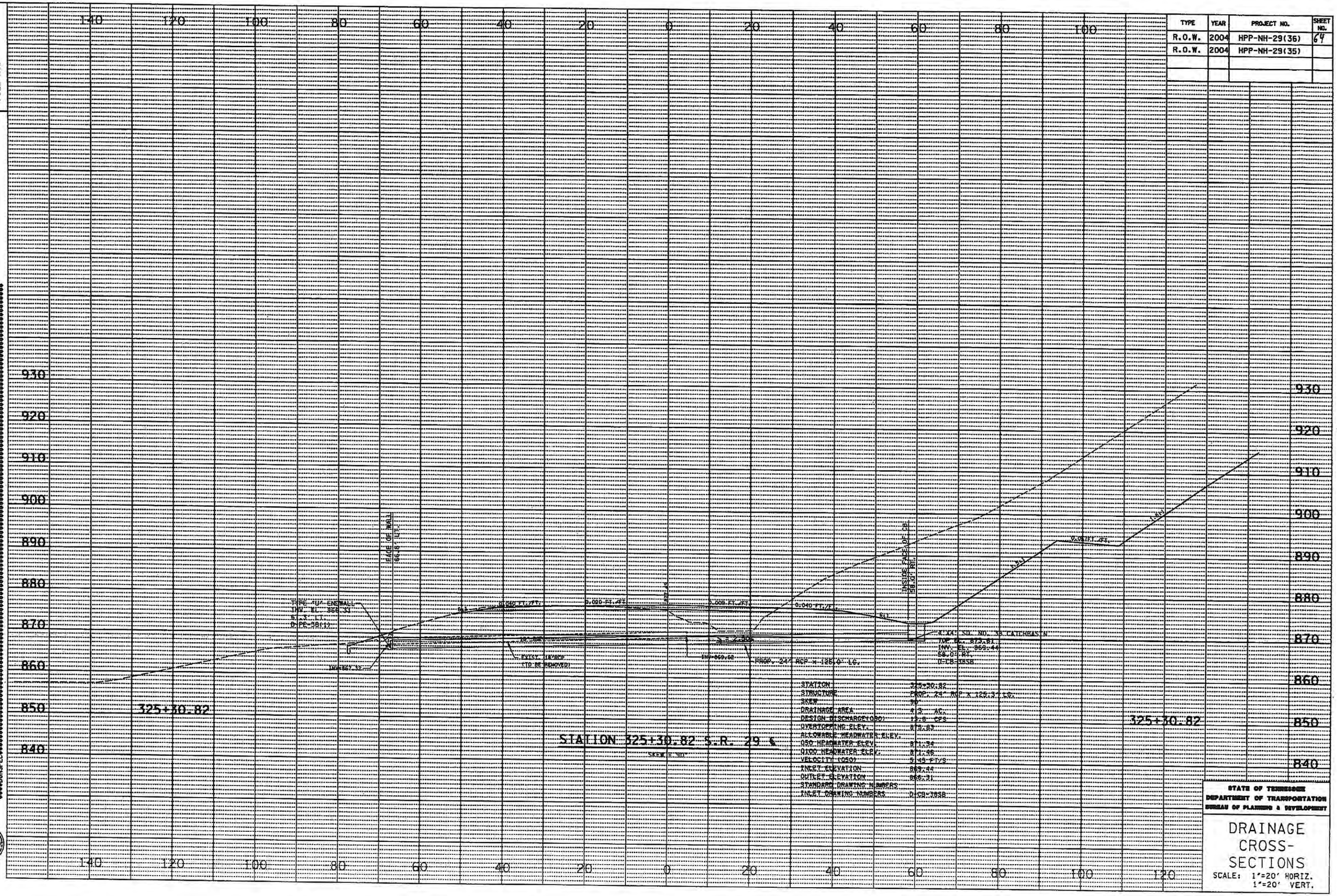
SHEET 3 OF 5

Nashville Area Metropolitan Planning Organization
Region 3 Data Division

$$SYTIME$$
$$DGNSPEC$$

TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2004	HPP-NH-29(36)	64
R.O.W.	2004	HPP-NH-29(35)	



STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
BUREAU OF PLANNING & DEVELOPMENT

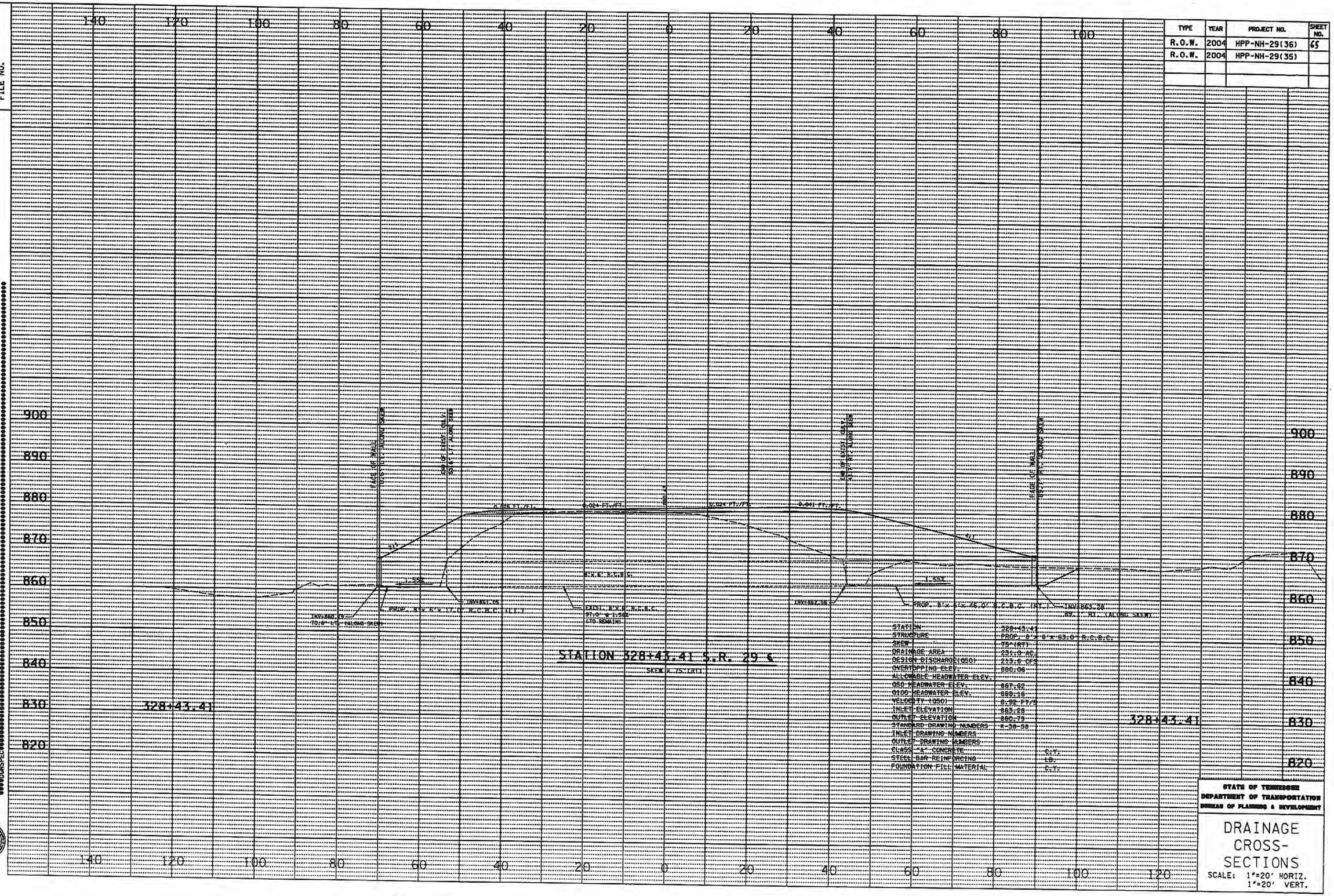
DRAINAGE CROSS-SECTIONS

SCALE: 1"=20' HORIZ.
1"=20' VERT.

****SYTIME****
****DGNSPEC****

TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2004	HPP-NH-29(36)	65
R.O.W.	2004	HPP-NH-29(35)	



STATION	328+43.41	
STRUCTURE	PROP. 8'x 6'x 63.6' R.C.B.C.	
SKEW	75 (RT)	
DRAINAGE AREA	231.0 AC.	
DESIGN DISCHARGE(Q50)	213.8 CFS	
OVERTOPPING ELEV.	880.06	
ALLOWABLE HEADWATER ELEV.		
Q50 HEADWATER ELEV.	867.62	
Q100 HEADWATER ELEV.	868.18	
VELOCITY (Q50)	8.92 FT/S	
INLET ELEVATION	863.28	
OUTLET ELEVATION	860.79	
STANDARD DRAWING NUMBERS	R-38-58	
INLET DRAWING NUMBERS		
OUTLET DRAWING NUMBERS		
CLASS "A" CONCRETE		C.Y.
STEEL BAR REINFORCING		LB.
FOUNDATION FILL MATERIAL		C.Y.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
BUREAU OF PLANNING & DEVELOPMENT

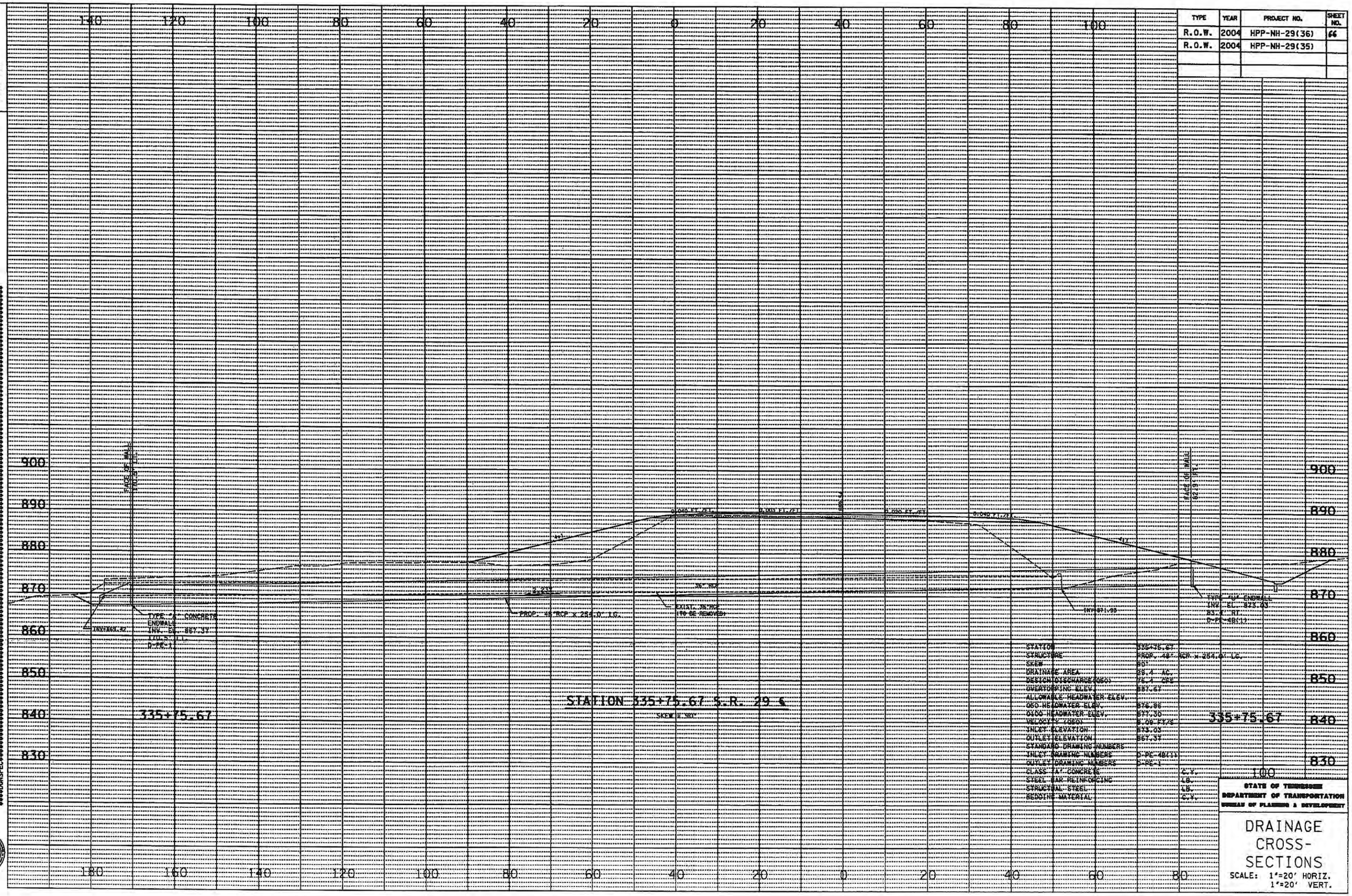
DRAINAGE CROSS-SECTIONS

SCALE: 1"=20' HORIZ.
1"=20' VERT.

SYTIME
DGNSPEC

TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2004	HPP-NH-29(36)	66
R.O.W.	2004	HPP-NH-29(35)	



STATION	335+75.67
STRUCTURE	PROP. 48" RCP x 254.0' LG.
SKEW	90°
DRAINAGE AREA	29.1 AC.
DESIGN DISCHARGE (Q50)	76.1 CFS
OVERTOPPING ELEV.	887.67
ALLOWABLE HEADWATER ELEV.	
Q50 HEADWATER ELEV.	876.86
Q100 HEADWATER ELEV.	877.30
VELOCITY (Q50)	6.06 FT/S
INLET ELEVATION	873.03
OUTLET ELEVATION	867.37
STANDARD DRAWING NUMBERS	
INLET DRAWING NUMBERS	S-PE-48(1)
OUTLET DRAWING NUMBERS	S-PE-1
CLASS 'A' CONCRETE	C.Y.
STEEL BAR REINFORCING	LB.
STRUCTURAL STEEL	LB.
BEDDING MATERIAL	C.Y.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
BUREAU OF PLANNING & DEVELOPMENT

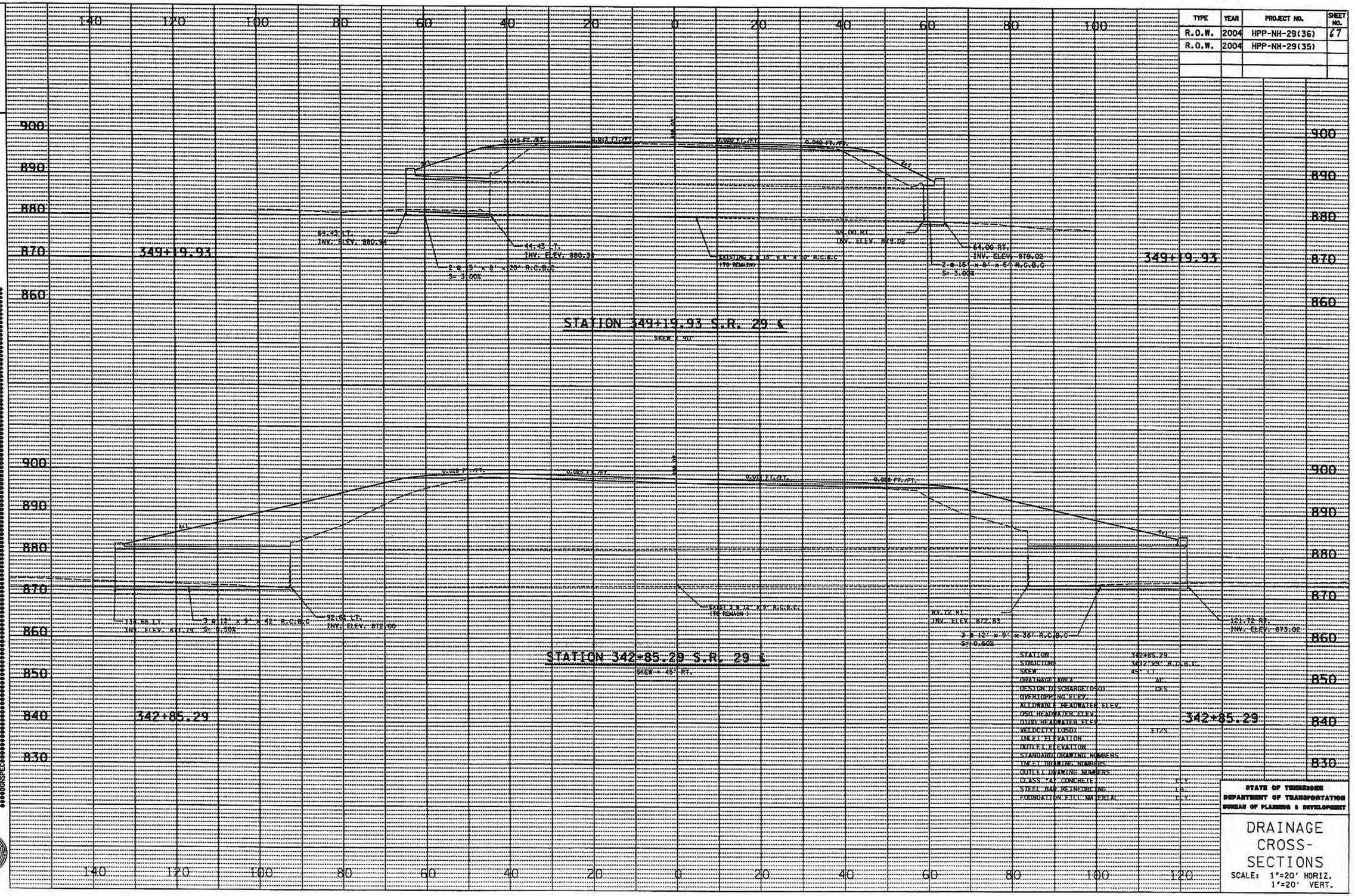
DRAINAGE CROSS-SECTIONS

SCALE: 1"=20' HORIZ.
1"=20' VERT.

SYTIME**
*DGNSPEC*****

TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2004	HPP-NH-29(36)	67
R.O.W.	2004	HPP-NH-29(35)	



STATION	342+85.29
STRUCTURE	3@12"X9" R.C.S.C.
SKEW	45° LT.
DRAINAGE AREA	AC.
DESIGN DISCHARGE (DSD)	CFS
OVERTOPPING ELEV.	
ALLOWABLE HEADWATER ELEV.	
DSD HEADWATER ELEV.	
DTOD HEADWATER ELEV.	
VELOCITY (DSD)	FT/S
INLET ELEVATION	
OUTLET ELEVATION	
STANDARD DRAWING NUMBERS	
INLET DRAWING NUMBERS	
OUTLET DRAWING NUMBERS	
CLASS "A" CONCRETE	C.Y.
STEEL BAR REINFORCING	LB.
FOUNDATION FILL MATERIAL	C.Y.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
BUREAU OF PLANNING & DEVELOPMENT

DRAINAGE CROSS-SECTIONS

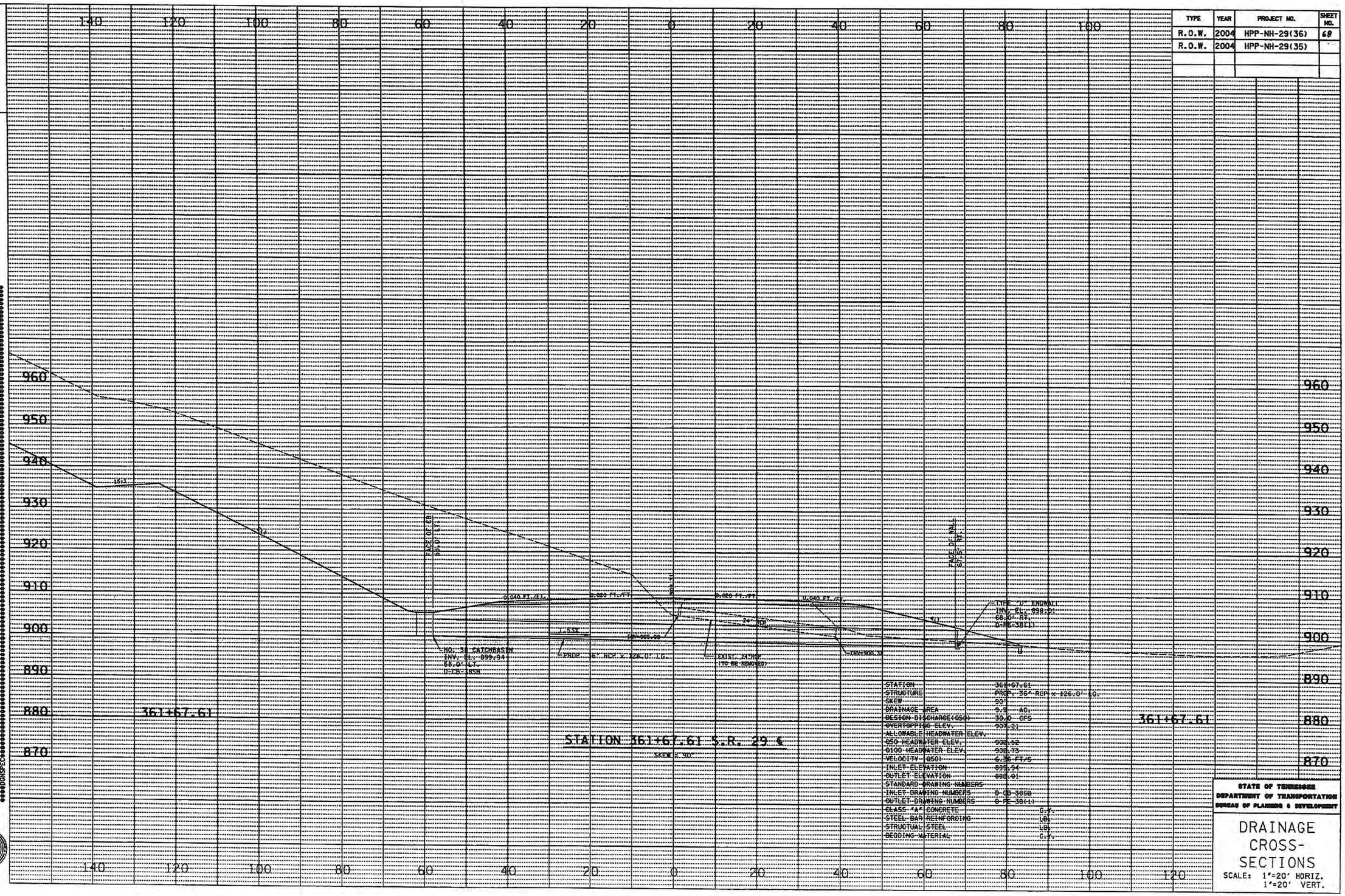
SCALE: 1"=20' HORIZ.
1"=20' VERT.

Bentley & Dodge

$$STYTME$$
$$ADDONSPEC$$

TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2004	HPP-NH-29(36)	68
R.O.W.	2004	HPP-NH-29(35)	



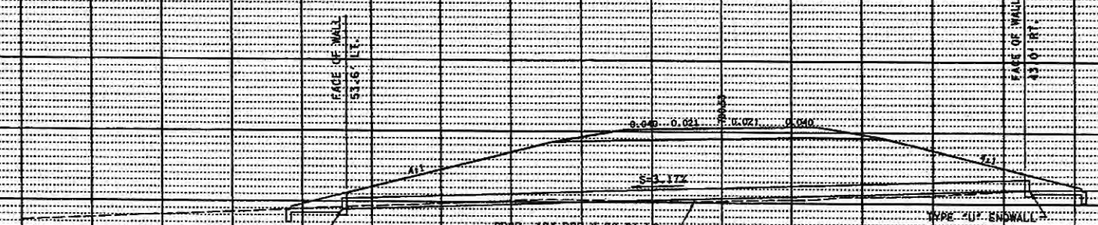
STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
BUREAU OF PLANNING & DEVELOPMENT

DRAINAGE CROSS-SECTIONS

SCALE: 1"=20' HORIZ.
1"=20' VERT.

TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2007	HPP-NH-29(36)	53
R.O.W.	2007	HPP-NH-29(35)	69



STATION 39+11.00 ROCK BRIDGE ROAD ℄

SKEW = 90°

STATION	39+11.00
STRUCTURE	PROP. 18" RCP x 98.0' LG.
SKEW	90°
DRAINAGE AREA	4.0 AC.
DESIGN DISCHARGE(Q50)	6.0 CFS
OVERTOPPING ELEV.	779.29
ALLOWABLE HEADWATER ELEV.	
Q50 HEADWATER ELEV.	775.35
Q100 HEADWATER ELEV.	775.93
VELOCITY (Q50)	4.23 FT/S
INLET ELEVATION	774.98
OUTLET ELEVATION	768.88
STANDARD DRAWING NUMBERS	
INLET DRAWING NUMBERS	D-PE-48(1)
OUTLET DRAWING NUMBERS	D-PE-48(1)
CLASS "A" CONCRETE	C.Y.
STEEL BAR REINFORCING	LB.
STRUCTURAL STEEL	LB.
BEDDING MATERIAL	C.Y.

STATION 41+16.00 ROCK BRIDGE ROAD ℄

STATION	41+16.00
STRUCTURE	PROP. 8'x 6'x 110.0' R.C.B.C.
SKEW	114°25'16"
DRAINAGE AREA	244.5 AC.
DESIGN DISCHARGE(Q50)	208.4 CFS
OVERTOPPING ELEV.	778.20
ALLOWABLE HEADWATER ELEV.	
Q50 HEADWATER ELEV.	767.90
Q100 HEADWATER ELEV.	768.18
VELOCITY (Q50)	4.34 FT/S
INLET ELEVATION	762.35
OUTLET ELEVATION	761.42
STANDARD DRAWING NUMBERS	
INLET DRAWING NUMBERS	
OUTLET DRAWING NUMBERS	
CLASS "A" CONCRETE	C.Y.
STEEL BAR REINFORCING	LB.
STRUCTUAL STEEL	LB.
BEDDING MATERIAL	C.Y.

790
780
770
760
750

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
BUREAU OF PLANNING & DEVELOPMENT

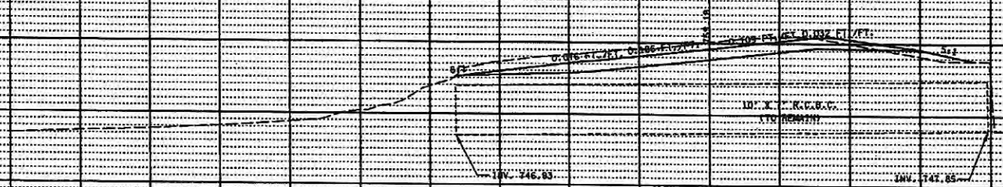
CULVERT CROSS-SECTIONS

SCALE: 1"=10' HORIZ.
1"=10' VERT.

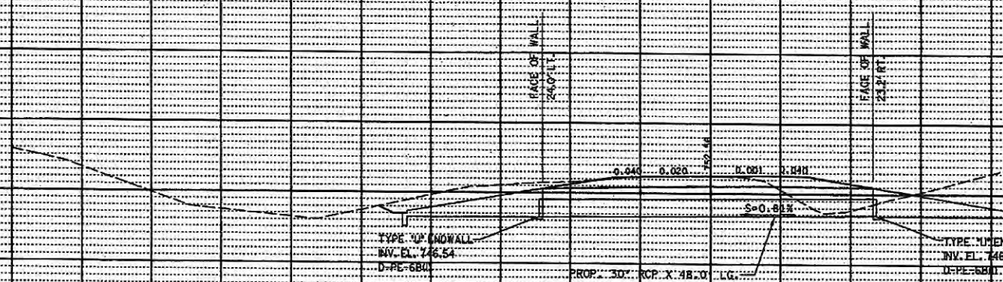
$$SYTIME$$
$$DGNSPEC$$

TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2007	HPP-NH-29(36)	5A
R.O.W.	2007	HPP-NH-29(35)	7D



STATION 46+55.84 SANDERS LANE ℄
SKEW = 90°



STATION 45+36.05 SANDERS LANE ℄
SKEW = 90°

STATION	45+36.05	
STRUCTURE	PROP. 30" RCP X 48.0' LG.	
SKEW	90°	
DRAINAGE AREA	2.8	AC.
DESIGN DISCHARGE(Q50)	8.9	CFS
OVERTOPPING ELEV.	750.82	
ALLOWABLE HEADWATER ELEV.		
Q50 HEADWATER ELEV.	749.1	
Q100 HEADWATER ELEV.	749.1	
VELOCITY (Q50)	1.71	FT/S
INLET ELEVATION	746.93	
OUTLET ELEVATION	746.54	
STANDARD DRAWING NUMBERS		
INLET DRAWING NUMBERS	D-PE-6BI1)	
OUTLET DRAWING NUMBERS	D-PE-6BI1)	
CLASS "A" CONCRETE		C.Y.
STEEL BAR REINFORCING		LB.
STRUCTUAL STEEL		LB.
BEDDING MATERIAL		C.Y.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
BUREAU OF PLANNING & DEVELOPMENT

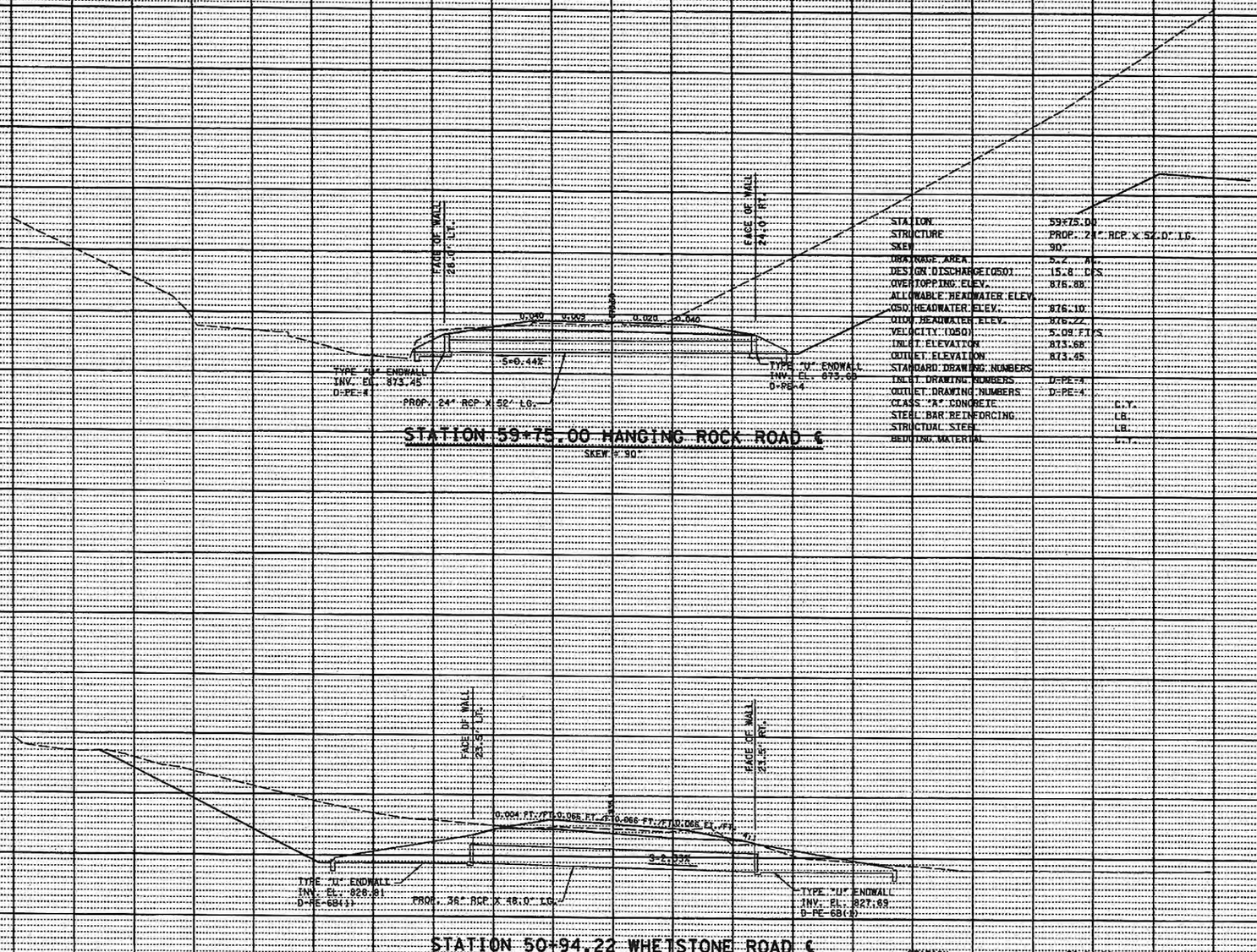
CULVERT CROSS-SECTIONS

SCALE: 1"=10 ' HORIZ.
1"=10' VERT.

$$SYTIME$$
$$OGNSPEC$$

TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2007	HPP-NH-29(36)	35
R.O.W.	2007	HPP-NH-29(35)	71



STATION	59+75.00	
STRUCTURE	PROP. 24" RCP X 52.0' LG.	
SKEW	90°	
DRAINAGE AREA	5.	AC.
DESIGN DISCHARGE(Q50)	15.8	CFS
OVERTOPPING ELEV.	876.60	
ALLOWABLE HEADWATER ELEV.		
Q50 HEADWATER ELEV.	876.10	
Q100 HEADWATER ELEV.	876.22	
VELOCITY (Q50)	5.09	FT/S
INLET ELEVATION	873.68	
OUTLET ELEVATION	873.45	
STANDARD DRAWING NUMBERS		
INLET DRAWING NUMBERS	D-PE-4	
OUTLET DRAWING NUMBERS	D-PE-4	
CLASS "A" CONCRETE		C.Y.
STEEL BAR REINFORCING		LB.
STRUCTURAL STEEL		LB.
BEDDING MATERIAL		C.Y.

STATION	50+94.22	
STRUCTURE	PROP. 36" RCP X 46.0' LG.	
SKEW	90°	
DRAINAGE AREA	9.6	AC.
DESIGN DISCHARGE(Q50)	29.2	CFS
OVERTOPPING ELEV.	832.93	
ALLOWABLE HEADWATER ELEV.		
Q50 HEADWATER ELEV.	832.7	
Q100 HEADWATER ELEV.	832.35	
VELOCITY (Q50)	6.18	FT/S
INLET ELEVATION	828.81	
OUTLET ELEVATION	827.69	
STANDARD DRAWING NUMBERS		
INLET DRAWING NUMBERS	D-PE-6B(1)	
OUTLET DRAWING NUMBERS	D-PE-6B(1)	
CLASS "A" CONCRETE		C.Y.
STEEL BAR REINFORCING		LB.
STRUCTURAL STEEL		LB.
BEDDING MATERIAL		C.Y.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
BUREAU OF PLANNING & DEVELOPMENT

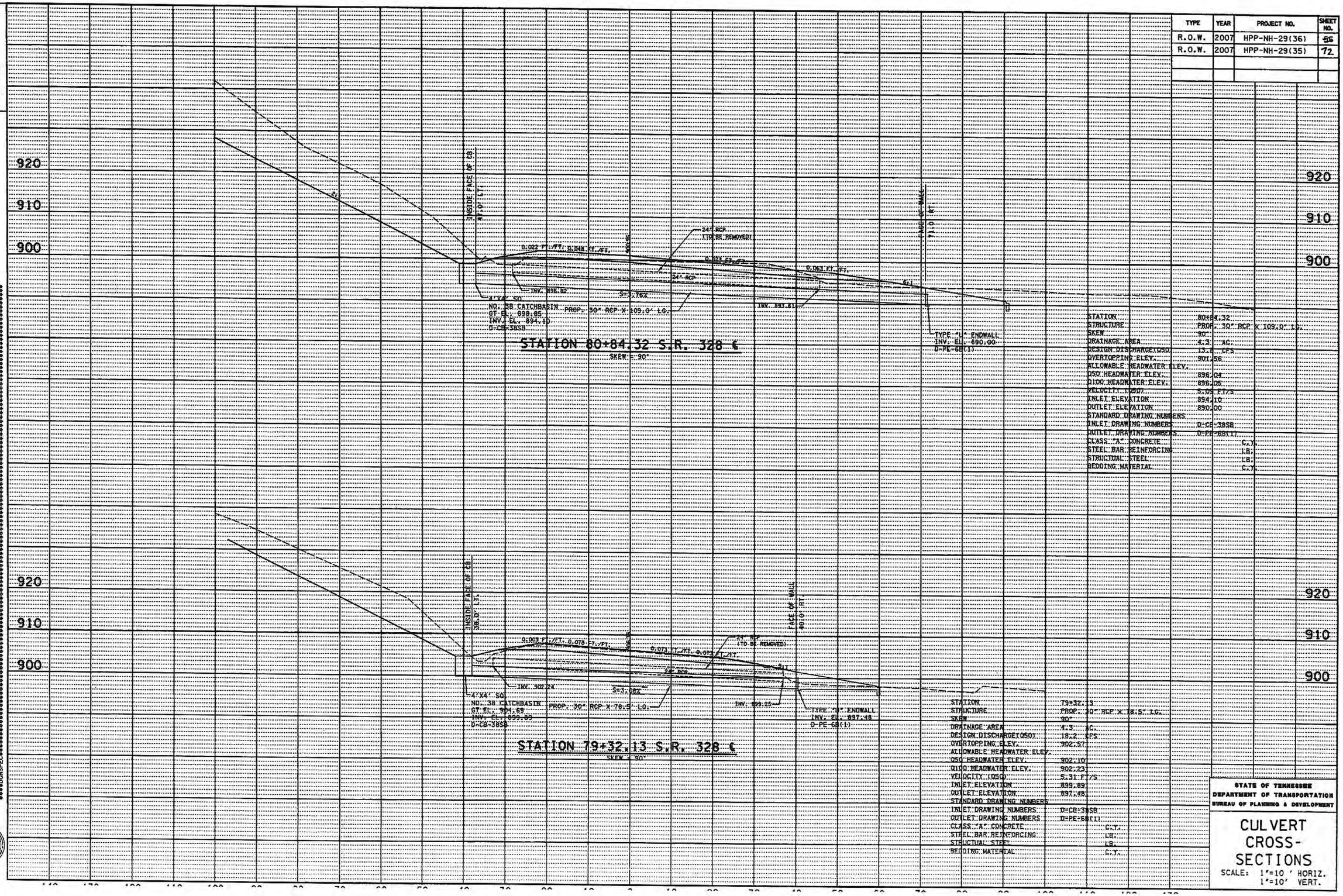
CULVERT CROSS-SECTIONS

SCALE: 1"=10 ' HORIZ.
1"=10' VERT.

$$SYTIME$$
$$DGNSPEC$$

TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2007	HPP-NH-29(36)	56
R.O.W.	2007	HPP-NH-29(35)	72



STATION	80+84.32
STRUCTURE	PROP. 30" RCP X 109.0' LG.
SKEW	90°
DRAINAGE AREA	4.3 AC.
DESIGN DISCHARGE(Q50)	15.6 CFS
OVERTOPPING ELEV.	901.56
ALLOWABLE HEADWATER ELEV.	
Q50 HEADWATER ELEV.	898.04
Q100 HEADWATER ELEV.	898.05
VELOCITY (Q50)	5.05 FT/S
INLET ELEVATION	894.10
OUTLET ELEVATION	890.00
STANDARD DRAWING NUMBERS	
INLET DRAWING NUMBERS	D-CB-3BSB
OUTLET DRAWING NUMBERS	D-PE-6B(1)
CLASS "A" CONCRETE	C.Y.
STEEL BAR REINFORCING	LB.
STRUCTURAL STEEL	LB.
BEDDING MATERIAL	C.Y.

STATION	79+32.13
STRUCTURE	PROP. 30" RCP X 78.5' LG.
SKEW	90°
DRAINAGE AREA	4.3 AC.
DESIGN DISCHARGE(Q50)	18.2 CFS
OVERTOPPING ELEV.	902.57
ALLOWABLE HEADWATER ELEV.	
Q50 HEADWATER ELEV.	902.10
Q100 HEADWATER ELEV.	902.23
VELOCITY (Q50)	5.31 FT/S
INLET ELEVATION	899.89
OUTLET ELEVATION	897.48
STANDARD DRAWING NUMBERS	
INLET DRAWING NUMBERS	D-CB-3BSB
OUTLET DRAWING NUMBERS	D-PE-6B(1)
CLASS "A" CONCRETE	C.Y.
STEEL BAR REINFORCING	LB.
STRUCTURAL STEEL	LB.
BEDDING MATERIAL	C.Y.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
BUREAU OF PLANNING & DEVELOPMENT

CULVERT CROSS-SECTIONS

SCALE: 1"=10 ' HORIZ.
1"=10' VERT.

****SYTIME****
****DONSPEC****

TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2007	HPP-NH-29(36)	~~301~~
R.O.W.	2007	HPP-NH-29(35)	310

PHASE 1 EROSION CONTROL SHOULD BE USED FOR CLEARING AND GRUBBING

BEGIN S.R. 29 RAMP C
STA. 25+00.00
N 599829.1419
E 2413264.0782

BEGIN S.R. 29 RAMP B
STA. 10+00.00
N 599522.4775
E 2413183.9672

BEGIN S.R. 29 RAMP A
STA. 2+00.00
N 599458.8810
E 2413666.5310

LIMIT OF CONST.
FREELS ROAD
STA. 36+29.00
N 600248.8742
E 2413974.3264

PROPOSED R.O.W.
S.R. 29 RAMP A STA. 7+03.38=
S.R. 29 RAMP B STA. 17+60.00
OFFSET 15.98' RT.
N 599981.2060
E 2413848.0580

POT STA. 35+48.13 S.R. 29 RAMP C=
POT STA. 100+00.00 S.R. 29
OFFSET 48.00' LT.
N 600249.5402
E 2414213.7688

POT STA. 22+61.84 S.R. 29 RAMP B=
POT STA. 100+00.00 S.R. 29
OFFSET 48.00' RT.
N 600169.4271
E 2414266.6640

POT STA. 100+45.00 S.R. 29
POT STA. 40+00.00 FREELS ROAD
N 600234.2782
E 2414277.7694

EROSION CONTROL LEGEND

SYMBOL	ITEM	STD. DWG.
SF SF SF SF	TEMPORARY SILT FENCE	EC-STR-3
FB FB FB	TEMPORARY FILTER BARRIER	EC-STR-3
SFB SFB SFB	TEMPORARY SILT FENCE WITH BACKING	EC-STR-3D
EC IV	TYPE IV EROSION CHECK	ESC-STR-5
EC VI	TYPE VI EROSION CHECK	ESC-STR-5
	TEMPORARY ROCK CHECK DAM IN V-DITCH	EC-STR-6
	TEMPORARY SEDIMENT TRAP WITH TEMPORARY SILT SCREEN CHECK DAM	EC-STR-7
	BRUSH BARRIER	ESC-STR-9
	TEMPORARY ROCK SILT SCREEN USED IN CHANNELS	ESC-STR-11
	TEMPORARY ROCK SILT SCREEN AT PIPE INLETS	EC-STR-11
	SEDIMENT BASIN WITH DAM	ESC-STR-17
TCE	TEMPORARY CONSTRUCTION ROAD ENTRANCE and/or EXIT	EC-STR-25
	TEMPORARY BERM	EC-STR-27
	TEMPORARY DIVERSION CHANNEL	ESC-STR-31
	TEMPORARY ROCK AND SEDIMENT DAM	EC-STR-13

COORDINATE VALUES ARE NAD/83(1995) AND ARE DATUM ADJUSTED BY THE FACTOR 1.00000900 & TIED TO THE TGRN.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
BUREAU OF PLANNING & DEVELOPMENT

EROSION CONTROL PLAN PHASE I

STA. 10+00 TO STA. 100+50

SCALE: 1"= 50'

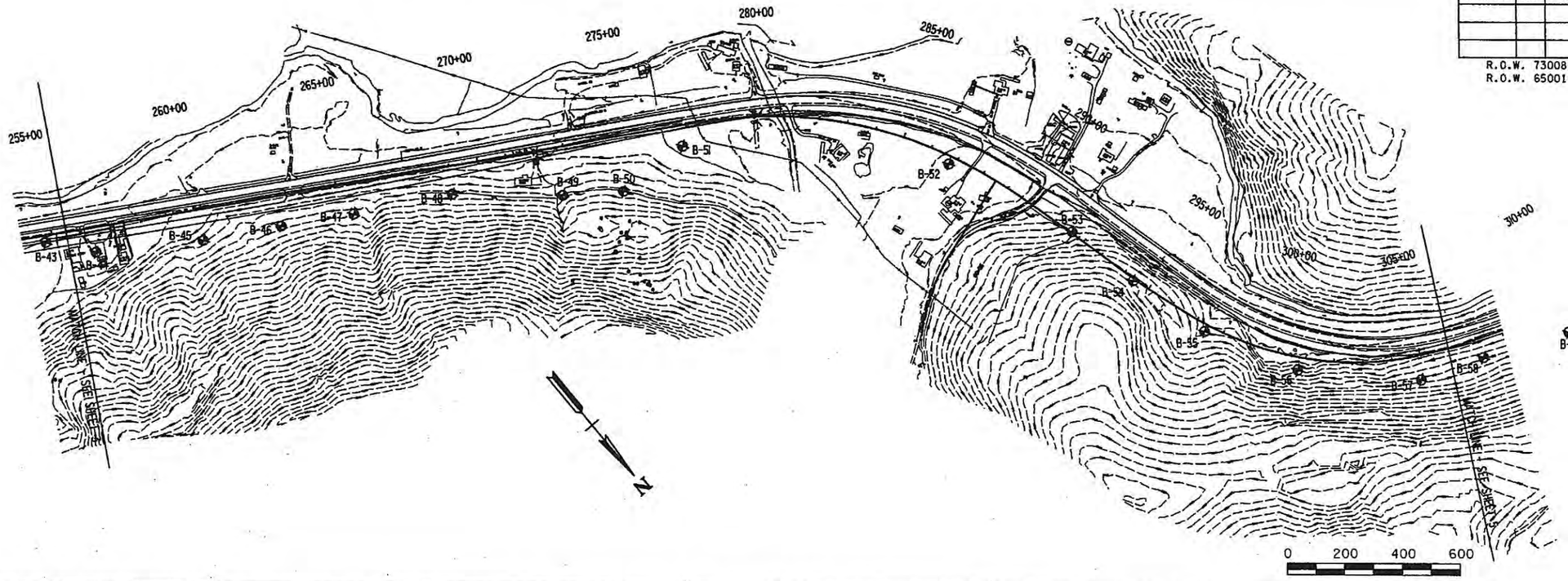
SEE SHEET NO. 305

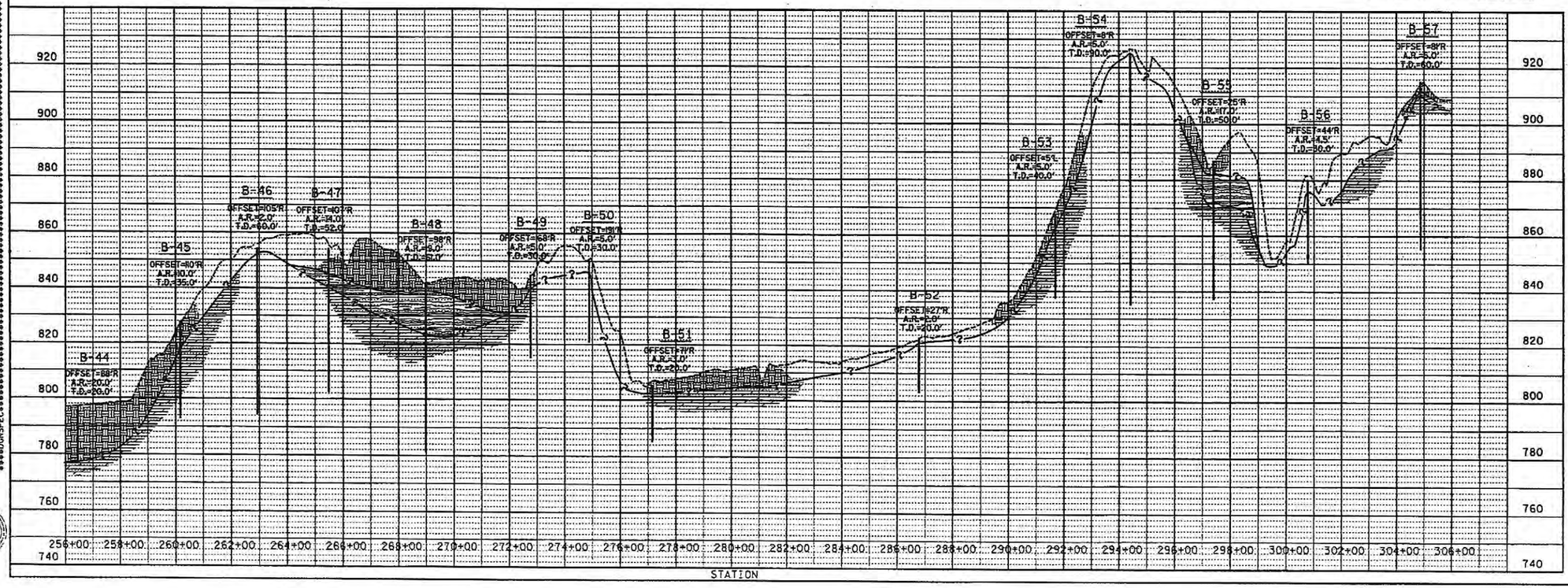
$$$$SYTIME$$$$$$
$$$$DGNSPEC$$$$$$

TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2004	HPP-NH-29(36)	32BC
			36

R.O.W. 73008-2238-14
R.O.W. 65001-2257-14





LEGEND

- OVERBURDEN
- PARTIALLY WEATHERED ROCK
- BEDROCK
- B-12 - BORING NO.
- OFFSET - DISTANCE FROM CENTERLINE
- A.R. - AUGER REFUSAL
- T.D. - TERMINATION DEPTH

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
BUREAU OF PLANNING & DEVELOPMENT

SOILS PROFILE

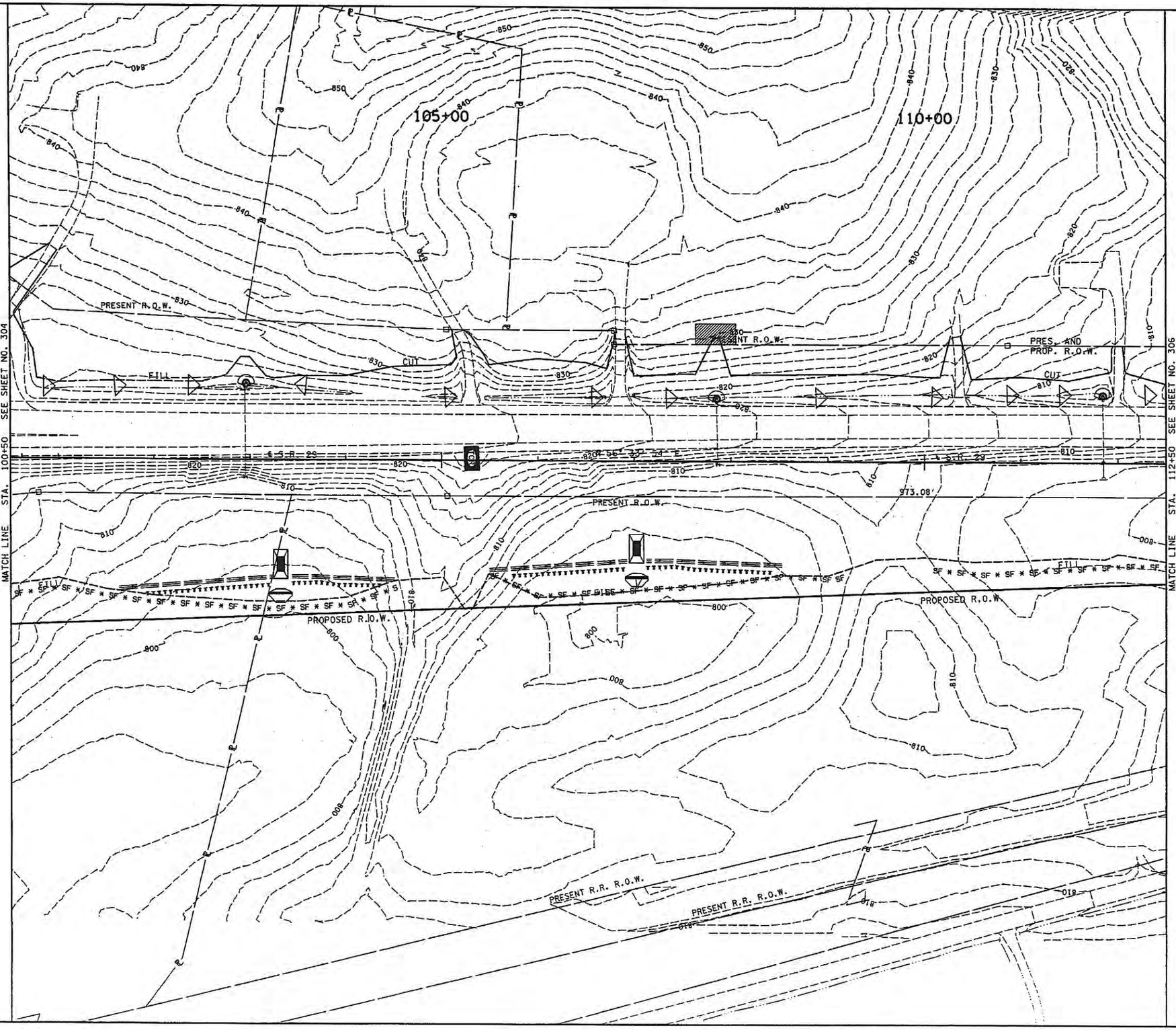
STA. 256+00 TO STA. 306+00

SHEET 4 OF 5

$$SYTIME$$
$$DGNSPEC$$

TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2007	HPP-NH-29(36)	305
R.O.W.	2007	HPP-NH-29(35)	3V1



COORDINATE VALUES ARE NAD/83(1995) AND ARE DATUM ADJUSTED BY THE FACTOR 1.00000900 & TIED TO THE TGRN.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
BUREAU OF PLANNING & DEVELOPMENT

EROSION CONTROL PLAN PHASE I

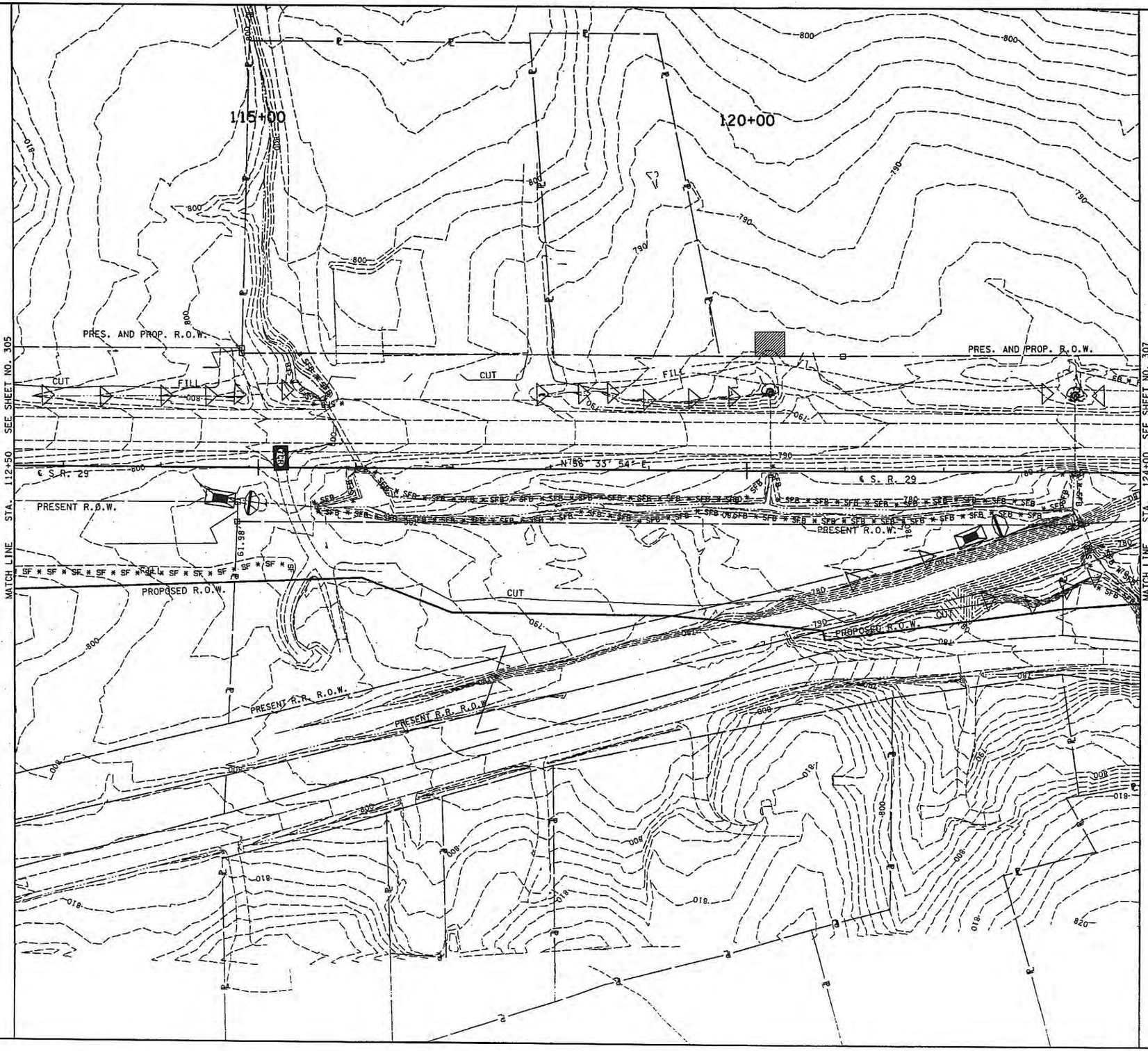
STA. 100+50 TO STA. 112+50

SCALE: 1"= 50'

$$$$SYTIME$$$$$$
$$$$DGNSPEC$$$$$$

TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2007	HPP-NH-29(36)	~~305~~
R.O.W.	2007	HPP-NH-29(35)	~~292~~



N

COORDINATE VALUES ARE NAD/83(1995) AND ARE DATUM ADJUSTED BY THE FACTOR 1.00000900 & TIED TO THE TGRN.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
BUREAU OF PLANNING & DEVELOPMENT

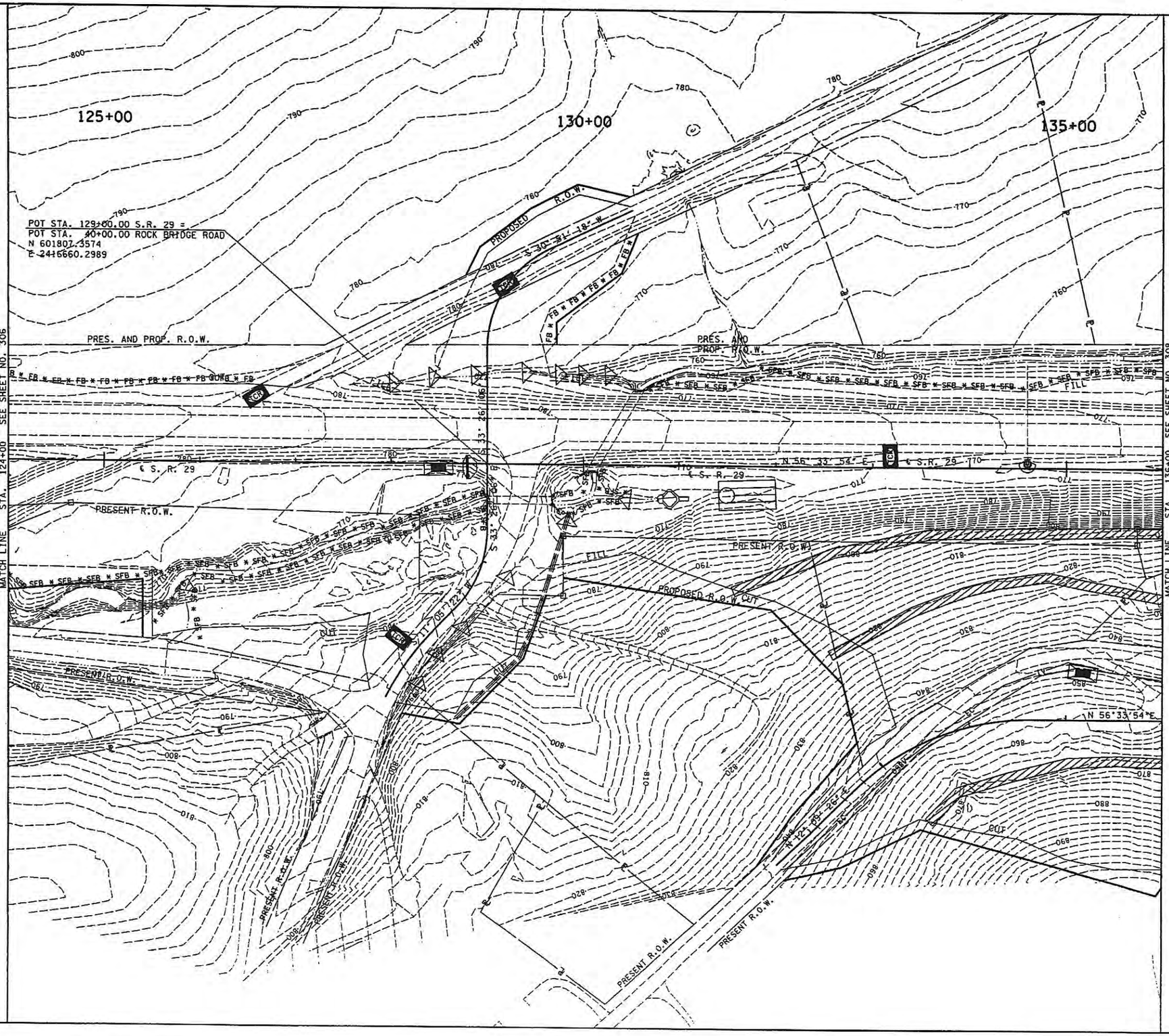
EROSION CONTROL PLAN PHASE I

STA. 112+50 TO STA. 124+00
SCALE: 1" = 50'

$$SYTIME$$
$$DGNSPEC$$

TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2007	HPP-NH-29(36)	~~307~~
R.O.W.	2007	HPP-NH-29(35)	307



COORDINATE VALUES ARE NAD/83(1995) AND ARE DATUM ADJUSTED BY THE FACTOR 1.00000900 & TIED TO THE TGRN.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
BUREAU OF PLANNING & DEVELOPMENT

EROSION CONTROL PLAN PHASE I

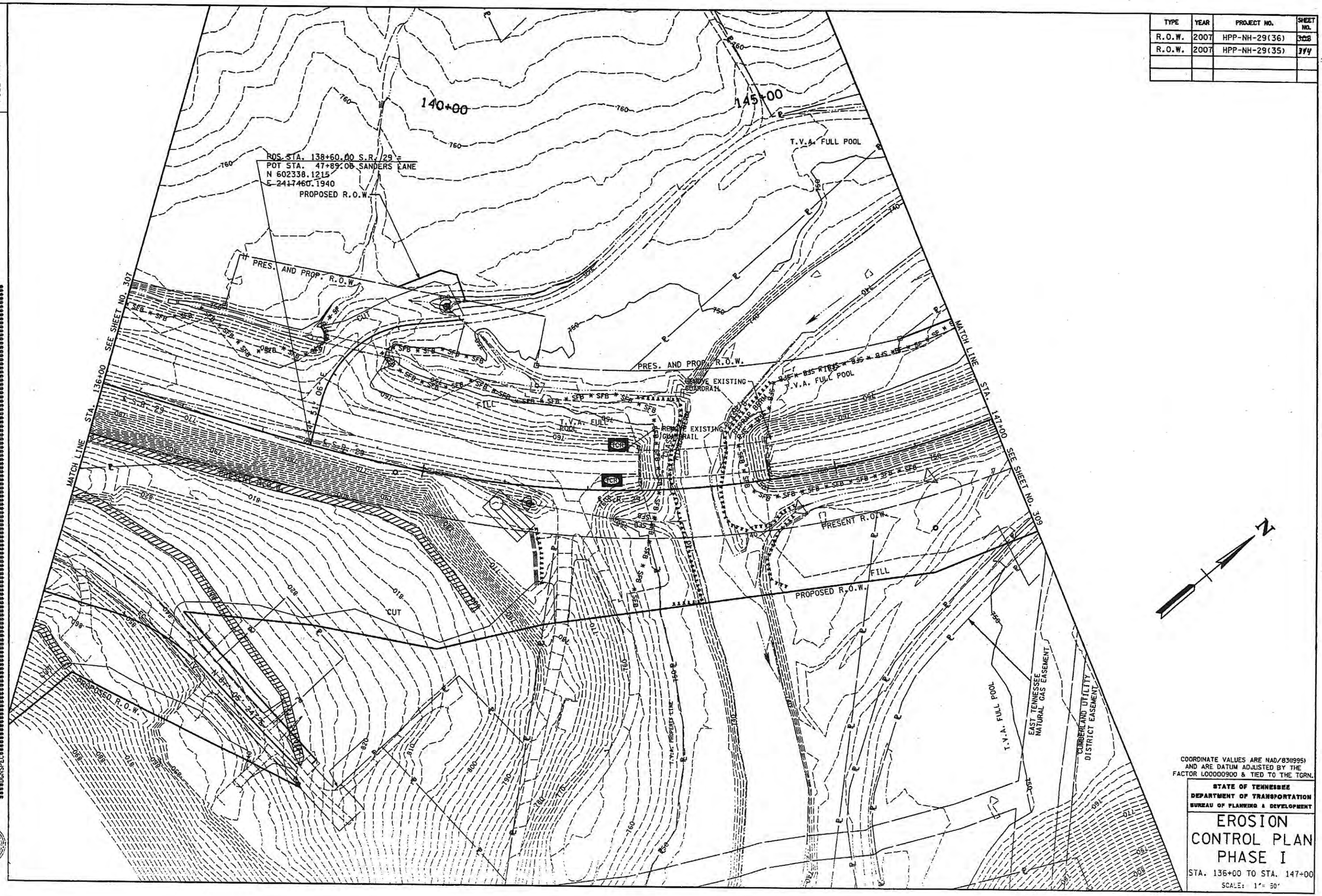
STA. 124+00 TO STA. 136+00

SCALE: 1"= 50'

$$SYTIME$$
$$DGNSPEC$$

TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2007	HPP-NH-29(36)	308
R.O.W.	2007	HPP-NH-29(35)	344



COORDINATE VALUES ARE NAD/83(1995) AND ARE DATUM ADJUSTED BY THE FACTOR L00000900 & TIED TO THE TGRN.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
BUREAU OF PLANNING & DEVELOPMENT

EROSION CONTROL PLAN PHASE I

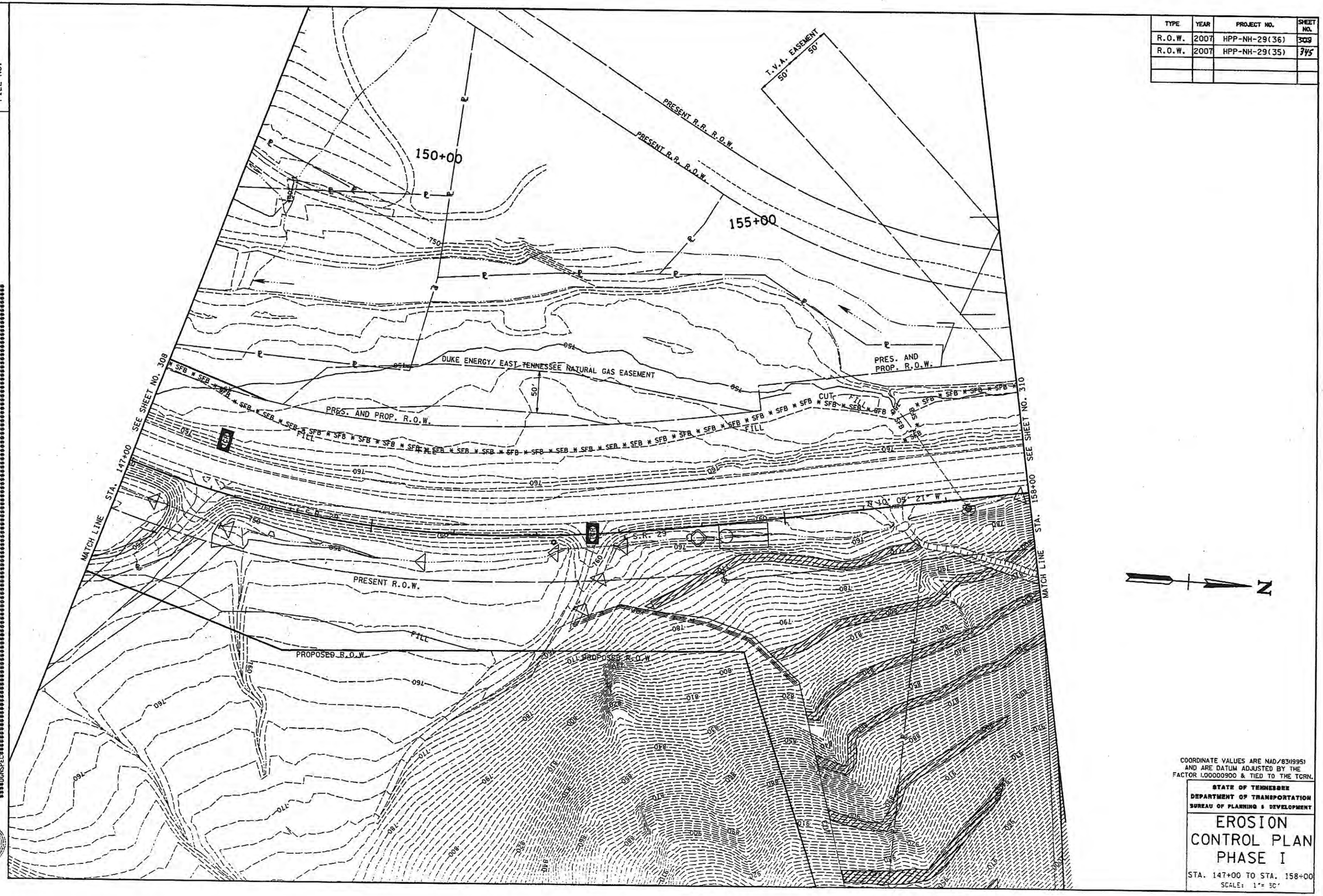
STA. 136+00 TO STA. 147+00

SCALE: 1"= 50'

$$SYTIME$$
$$DGNSPEC$$

TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2007	HPP-NH-29(36)	309
R.O.W.	2007	HPP-NH-29(35)	345



COORDINATE VALUES ARE NAD/83(1995) AND ARE DATUM ADJUSTED BY THE FACTOR 1.00000900 & TIED TO THE TCRN.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
BUREAU OF PLANNING & DEVELOPMENT

EROSION CONTROL PLAN PHASE I

STA. 147+00 TO STA. 158+00

SCALE: 1"= 50'

$$SYTME$$
$$DONSPEC$$

TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2007	HPP-NH-29(36)	~~310~~
R.O.W.	2007	HPP-NH-29(35)	3%

160+00

165+00

PRESENT R.R. R.O.W.

PRESENT R.R. R.O.W.

PRESENT R.R. R.O.W.

PRES. AND PROP. R.O.W.

PRES. AND PROP. R.O.W.

50'

100'

T.V.A. EASEMENT

T.V.A. EASEMENT

FILL

FILL

CUT

CUT

N 10° 05' 21" W

PRESENT R.O.W.

PRESENT R.O.W.

T.V.A. EASEMENT

T.V.A. EASEMENT

EAST TENNESSEE NATURAL GAS EASEMENT

BLUE ENERGY - EAST TENNESSEE NATURAL GAS EASEMENT

EAST TENNESSEE NATURAL GAS EASEMENT

BLUE ENERGY - EAST TENNESSEE NATURAL GAS EASEMENT

PROPOSED R.O.W.

PROPOSED R.O.W.

T.V.A. EASEMENT

T.V.A. EASEMENT

END R.O.W. PROJECT NO. 65008-3238-14 STA. 162+35.01 S.R. 29

BEGIN R.O.W. PROJECT NO. 65001-2257-14 STA. 162+35.01 S.R. 29

MATCH LINE

SEE SHEET 309 TOC

SEE SHEET NO. 309

SEE SHEET NO. 311

MATCH LINE STA. 158+00

MATCH LINE STA. 170+00

STA. 158+00

STA. 170+00

N

COORDINATE VALUES ARE NAD/83(1995) AND ARE DATUM ADJUSTED BY THE FACTOR 1.00000900 & TIED TO THE TGRN.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
BUREAU OF PLANNING & DEVELOPMENT

EROSION CONTROL PLAN PHASE I

STA. 158+00 TO STA. 170+00

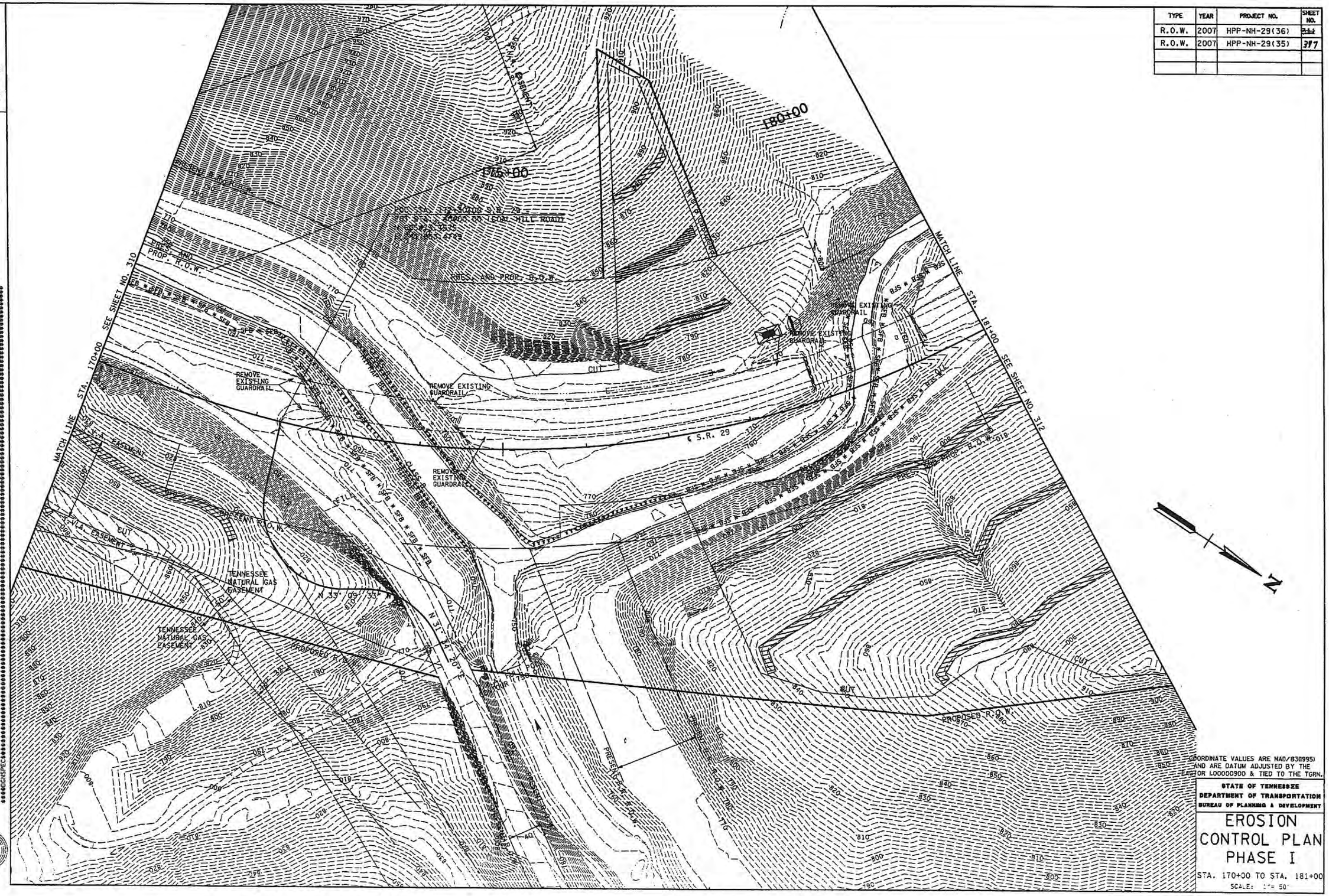
SCALE: 1"= 50'

$$$$SYTIME$$$$

$$$$DGNSPEC$$$$

TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2007	HPP-NH-29(36)	~~311~~
R.O.W.	2007	HPP-NH-29(35)	317



COORDINATE VALUES ARE NAD/83(1995) AND ARE DATUM ADJUSTED BY THE FACTOR L00000900 & TIED TO THE TGRN.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
BUREAU OF PLANNING & DEVELOPMENT

EROSION CONTROL PLAN PHASE I

STA. 170+00 TO STA. 181+00

SCALE: 1" = 50'

TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2007	HPP-NH-29(36)	312
R.O.W.	2007	HPP-NH-29(35)	312

185+00

190+00

PRES. AND PROP. R.O.W.

SEE SHEET NO. 311

STA. 181+00 MATCH LINE

SEE SHEET NO. 313

STA. 193+00 MATCH LINE

PRESENT R.O.W.

PROPOSED R.O.W.

PROPOSED R.O.W.

PROPOSED R.O.W.

CUT

FILL

CUT

EAST TENNESSEE NATURAL GAS EASEMENT

N

COORDINATE VALUES ARE NAD/83(1995) AND ARE DATUM ADJUSTED BY THE FACTOR 1.00000900 & TIED TO THE TGRN.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
BUREAU OF PLANNING & DEVELOPMENT

EROSION CONTROL PLAN PHASE I

STA. 181+00 TO STA. 193+00

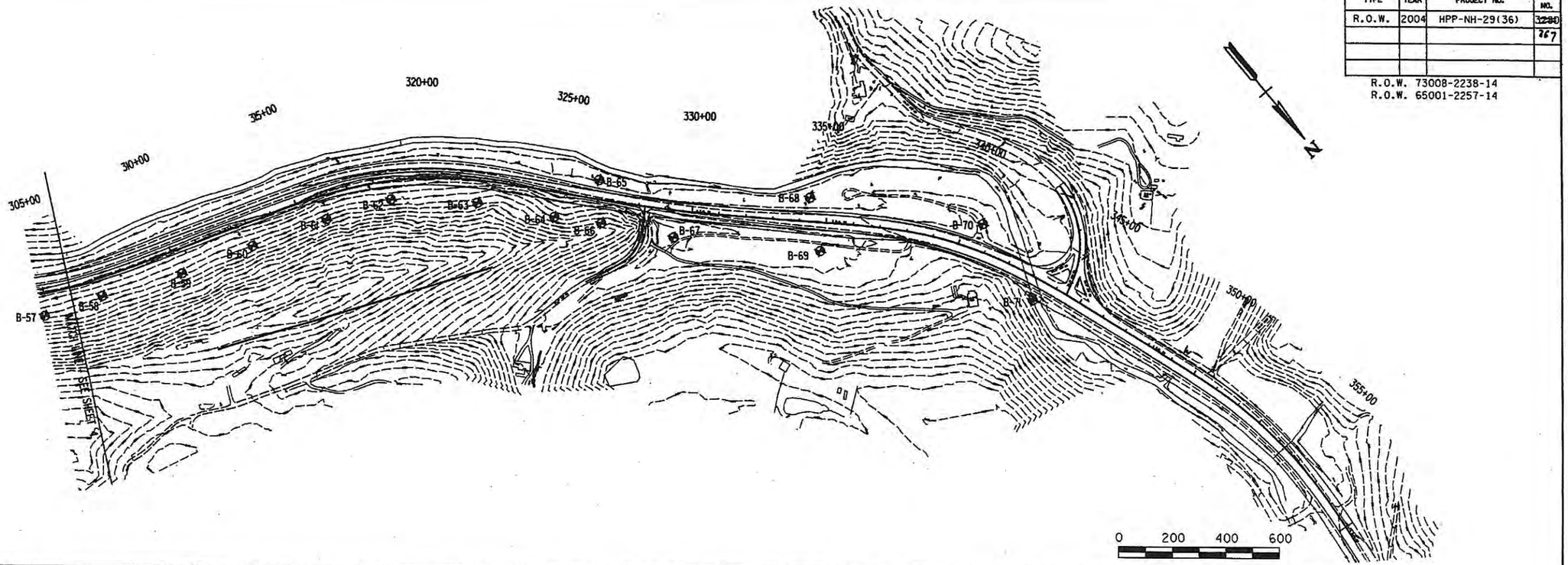
SCALE: 1" = 50'

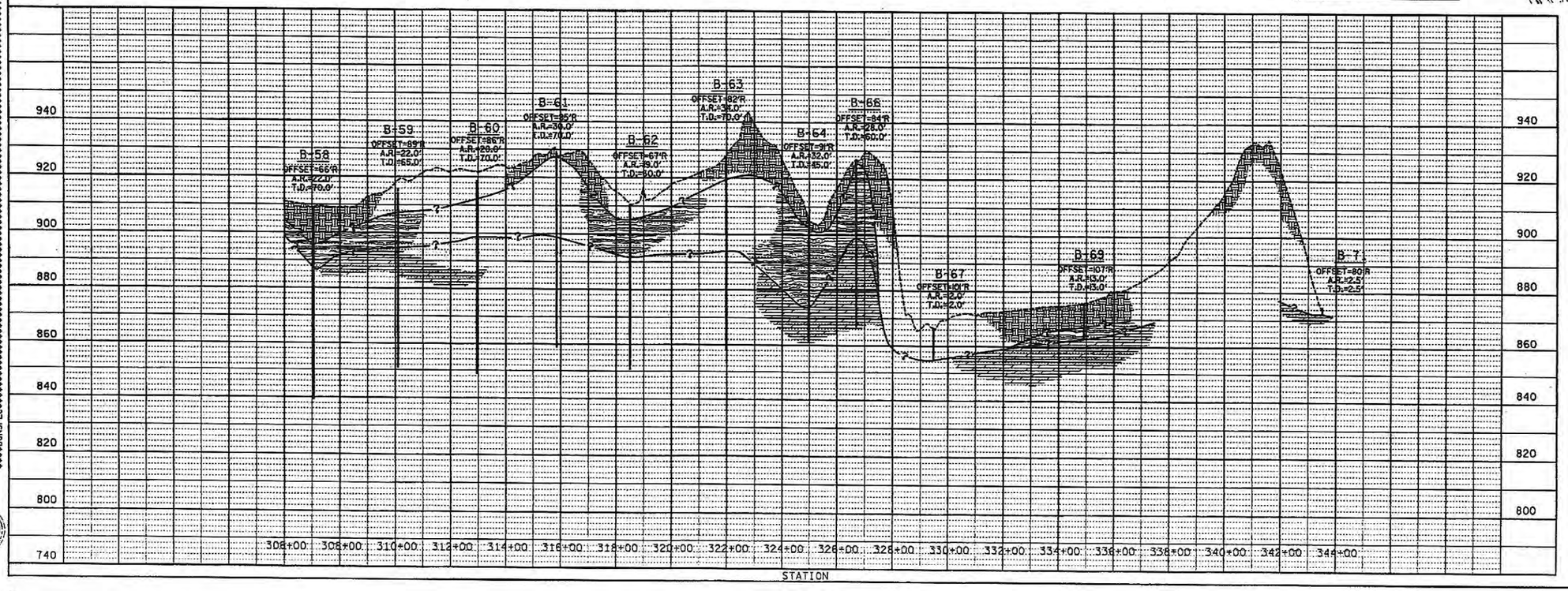
$$$$SYSTIME$$$$
$$$$DGNSPEC$$$$

TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2004	HPP-NH-29(36)	3280
			267

R.O.W. 73008-2238-14
R.O.W. 65001-2257-14





LEGEND

- OVERBURDEN
- PARTIALLY WEATHERED ROCK
- BEDROCK
- B-12 - BORING NO.
- OFFSET - DISTANCE FROM CENTERLINE
- A.R. - AUGER REFUSAL
- T.D. - TERMINATION DEPTH

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
BUREAU OF PLANNING & DEVELOPMENT

SOILS PROFILE

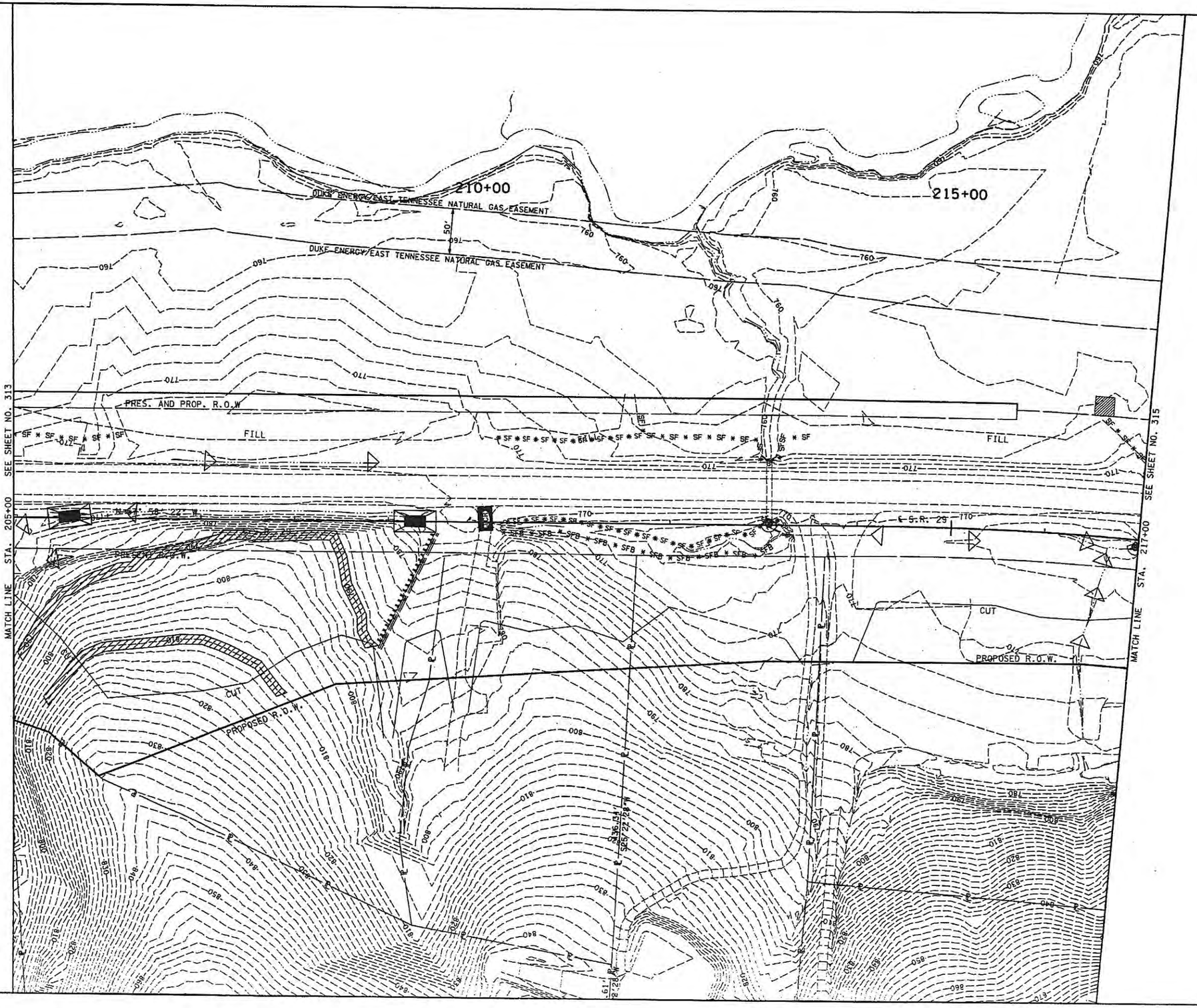
STA. 306+00 TO STA. 344+00

SHEET 5 OF 5

SYTIME
DGNSPEC

TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2007	HPP-NH-29(36)	~~34~~
R.O.W.	2007	HPP-NH-29(35)	35



COORDINATE VALUES ARE NAD/83(1995) AND ARE DATUM ADJUSTED BY THE FACTOR L00000900 & TIED TO THE TGRN.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
BUREAU OF PLANNING & DEVELOPMENT

EROSION CONTROL PLAN PHASE I

STA. 205+00 TO STA. 217+00

SCALE: 1" = 50'

$$SYTIME$$
$$DGNSPEC$$

TENNESSEE D.O.T. | DESIGN DIVISION | FILE NO.

Index Of Sheets

SHEET NO.	DESCRIPTION
1	TITLE SHEET
2-2Q	TYPICAL SECTIONS
2R-2T	TABULATED QUANTITIES
3-3E	PROPERTY MAP & ACQUISITION TABLES
3G-3J	REFERENCE POINTS
4-27	PRESENT LAYOUT
4A-27A	PROPOSED LAYOUT
4B-4D	PROFILES - RAMPS
5B-27B	PROPOSED PROFILES
9C,19C	ADDITIONAL PRESENT LAYOUT
28-28B	PROFILES - SIDE STREETS
29-29G	PROFILES FOR PRIVATE DRIVES
30-31	DRAINAGE MAP
32-72	CULVERT SECTIONS
73-339	CROSS SECTIONS
340-362	EROSION AND SEDIMENT CONTROL PLANS
363-367	SOILS SHEETS

SHEET 10C OMITTED

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
BUREAU OF ENGINEERING

TENN.	YEAR	SHEET NO.
	2007	1
ROANE COUNTY FED. AID PROJ. NO.	HPP-NH-29(36)	
ROANE COUNTY STATE PROJ. NO.	73008-2238-14	
MORGAN COUNTY FED. AID PROJ. NO.	HPP-NH-29(35)	
MORGAN COUNTY STATE PROJ. NO.	65001-2257-14	

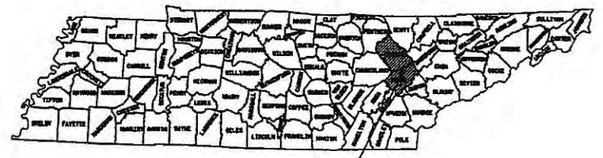
ROANE / MORGAN COUNTIES

STATE ROUTE 29 (US-27)

FROM STATE ROUTE 61 NEAR HARRIMAN TO NORTH OF STATE ROUTE 328

RIGHT-OF-WAY

STATE HIGHWAY NO. 29 F.A.H.S. NO. 29

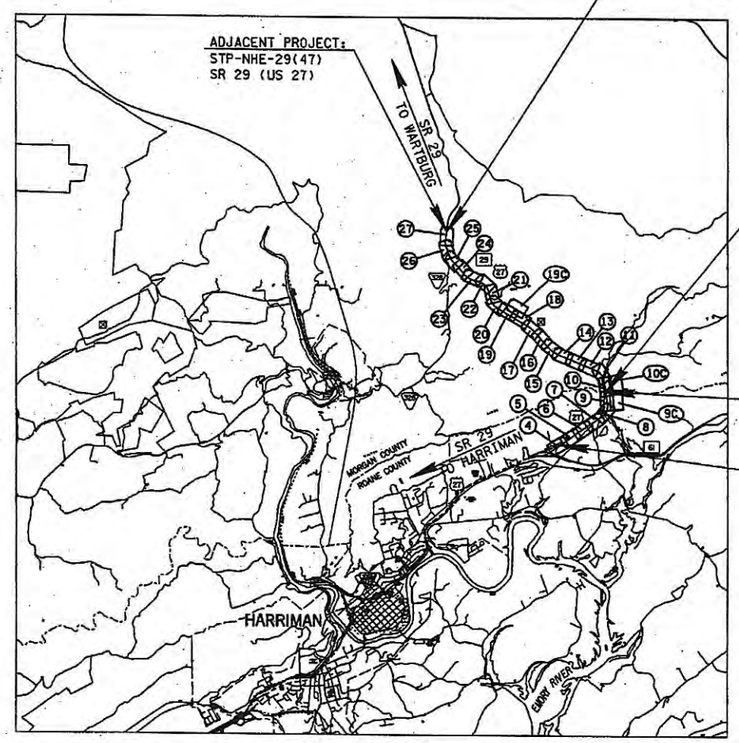


ROANE COUNTY PROJECT NO. 73008-2238-14
MORGAN COUNTY PROJECT NO. 65001-2257-14

END R.O.W. FEDERAL PROJECT
NO. HPP-NH-29(35)
STATE PROJECT NO. 65001-2257-14
STA. 357+48.10 S.R. 29

EQUATION	
DESCRIPTION	NET EFFECT ON ENUMERATION
STA. 22+61.84 BK. = STA. 100+00.00 AH.	-7738.16
STA. 155+20.64 BK. = STA. 155+25.45 AH.	-4.81
TOTAL	-7742.97

BEGIN R.O.W. FEDERAL PROJECT
NO. HPP-NH-29(35)
STATE PROJECT NO. 65001-2257-14
STA. 162+71.46 S.R. 29



SCALE: 1"= 1 MILE

END R.O.W. FEDERAL PROJECT
NO. HPP-NH-29(36)
STATE PROJECT NO.73008-2238-14
STA. 162+71.46 S.R. 29

BEGIN R.O.W. FEDERAL PROJECT
NO. HPP-NH-29(36)
STATE PROJECT NO. 73008-2238-14
STA. 17+41.77 S.R.29 RAMP B

NO EXCEPTION
NO EXCLUSION

FOR R.O.W. FIELD REVIEW ONLY

R.O.W. PROJECT LENGTH	
ROANE	1.29 MILES
MORGAN	3.69 MILES
TOTAL	4.98 MILES

TRAFFIC DATA		
ADT (2005)		5,040
ADT (2025)		6,570
DHV (2025)		723
D		60 - 40
T (ADT)		9 %
T (DHV)		6 %
V	(1)	60 mph
V	(2)	50 mph

(1) BEGINNING OF R.O.W. PROJECT TO STA. 277+79.35
(2) STA. 277+79.35 TO END OF R.O.W. PROJECT

APPROVED: Paul D. Degges
CHIEF ENGINEER

DATE:

APPROVED: Gerald F. Nicely
COMMISSIONER

U.S. DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION

APPROVED:

DIVISION ADMINISTRATOR DATE

SPECIAL NOTES

PROPOSALS MAY BE REJECTED BY THE COMMISSIONER IF ANY OF THE UNIT PRICES CONTAINED THEREIN ARE OBVIOUSLY UNBALANCED, EITHER EXCESSIVE OR BELOW THE REASONABLE COST ANALYSIS VALUE.

THIS PROJECT TO BE CONSTRUCTED UNDER THE STANDARD SPECIFICATIONS OF THE TENNESSEE DEPARTMENT OF TRANSPORTATION DATED MARCH 1, 2006 AND ADDITIONAL SPECIFICATIONS AND SPECIAL PROVISIONS CONTAINED IN THE PLANS AND IN THE PROPOSAL CONTRACT

TDOT TRANSPORTATION MANAGER 1 CLIFFORD F. STEWART

DESIGNED BY ARCADIS U.S.

DESIGNER BRIAN WHITAKER,P.E.

P.E. NO. 65001-1256-14

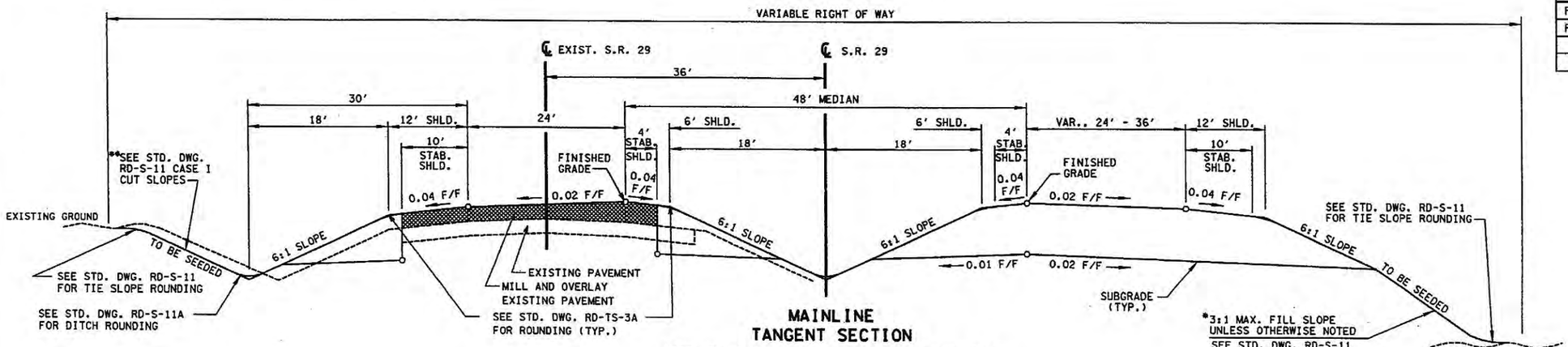
PIN 101411.01

ARCADIS

gn\tro\CT052497\TRA\ROW\T10_29.dgn
8/5/2008

TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2004	HPP-NH-29(36)	2
R.O.W.	2004	HPP-NH-29(35)	



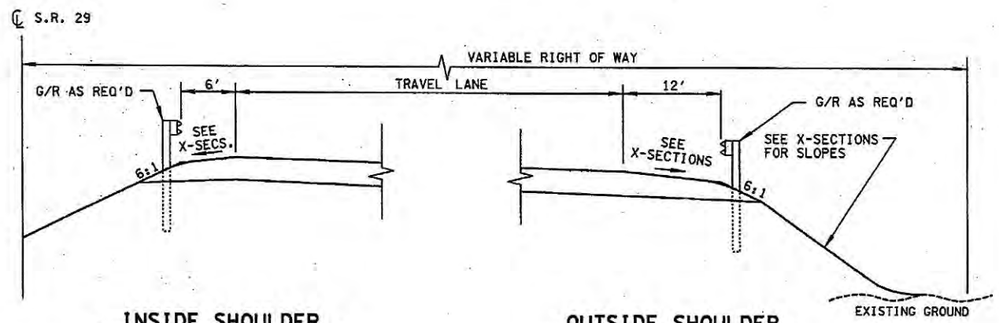
MAINLINE TANGENT SECTION

(SEE STD. DWG. RD-TS-3A FOR DETAILS NOT SHOWN)

STA. 100+00.00 TO STA. 132+50
STA. 154+85.95 TO STA. 156+50
STA. 191+50 TO STA. 213+00.59
STA. 228+97.26 TO STA. 241+17.75
STA. 253+18.72 TO STA. 260+00

*USE 2:1 FILL SLOPE FROM STA. 127+75 TO STA. 132+50, LT.

** A 15-FOOT WIDE BENCH IS REQUIRED EVERY 30 VERTICAL FEET OF A 2:1 CUT SLOPE. A BENCH IS NOT REQUIRED IF THE EXTENSION OF THE 2:1 CUT SLOPE AN ADDITIONAL 10 VERTICAL FEET OR LESS (FOR A TOTAL MAXIMUM VERTICAL HEIGHT OF 40 FEET) INTERSECTS THE EXISTING SLOPE. (SEE CROSS-SECTIONS)



INSIDE SHOULDER GUARDRAIL PLACEMENT

STA. 140+53.00 TO STA. 142+67.40 (RT.)
STA. 144+22.62 TO STA. 146+37.02 (LT.)
STA. 172+78.29 TO STA. 173+14.77 (RT.)
STA. 174+49.38 TO STA. 176+61.43 (LT.)
STA. 176+41.86 TO STA. 178+53.59 (RT.)
STA. 180+29.51 TO STA. 182+40.77 (LT.)

OUTSIDE SHOULDER GUARDRAIL PLACEMENT

STA. 120+80.00 TO STA. 128+57.15 (RT.)
STA. 128+58.00 TO STA. 127+73.50 (LT.)
STA. 129+42.00 TO STA. 137+20.00 (LT.)
STA. 139+09.00 TO STA. 142+63.34 (LT.)
STA. 142+40.50 TO STA. 142+67.40 (RT.)
STA. 144+22.62 TO STA. 148+70.00 (LT.)
STA. 159+18.75 TO STA. 172+45.26 (LT.)
STA. 172+68.31 TO STA. 173+55.48 (RT.)
STA. 175+22.48 TO STA. 178+53.59 (RT.)
STA. 186+05.00 TO STA. 191+76.00 (RT.)
STA. 192+24.00 TO STA. 194+81.25 (RT.)
STA. 254+68.75 TO STA. 258+45.00 (LT.)
STA. 297+25.00 TO STA. 311+90.00 (LT.)
STA. 326+44.00 TO STA. 336+38.00 (LT.)
STA. 341+27.00 TO STA. 352+20.00 (RT.)
STA. 341+18.00 TO STA. 343+38.00 (LT.)

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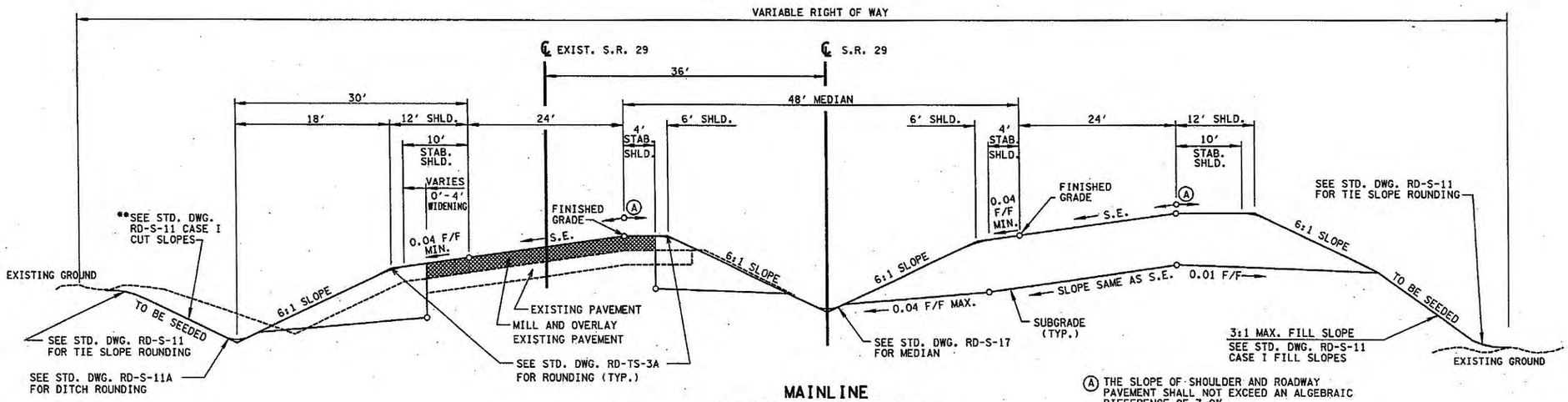
STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
BUREAU OF PLANNING & DEVELOPMENT

TYPICAL SECTIONS

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2007	HPP-NH-29(36)	2A
R.O.W.	2007	HPP-NH-29(35)	

TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.



Ⓐ THE SLOPE OF SHOULDER AND ROADWAY PAVEMENT SHALL NOT EXCEED AN ALGEBRAIC DIFFERENCE OF 7.0%.

MAINLINE
SUPERELEVATED SECTION

(SEE STD. DWG. RD-TS-3A FOR DETAILS NOT SHOWN)

STA. 140+50 TO STA. 142+65.50 (BEGIN BRIDGE)
(END BRIDGE) STA. 144+22.50 TO STA. 154+85.95
STA. 172+50 TO STA. 173+09.57 (BEGIN BRIDGE)
(END BRIDGE) STA. 180+24.93 TO STA. 184+40.92
STA. 213+00.59 TO STA. 228+97.26
STA. 241+17.75 TO STA. 253+18.72

** A 15-FOOT WIDE BENCH IS REQUIRED EVERY 30 VERTICAL FEET OF A 2:1 CUT SLOPE. A BENCH IS NOT REQUIRED IF THE EXTENSION OF THE 2:1 CUT SLOPE AN ADDITIONAL 10 VERTICAL FEET OR LESS (FOR A TOTAL MAXIMUM VERTICAL HEIGHT OF 40 FEET) INTERSECTS THE EXISTING SLOPE. (SEE CROSS-SECTIONS)

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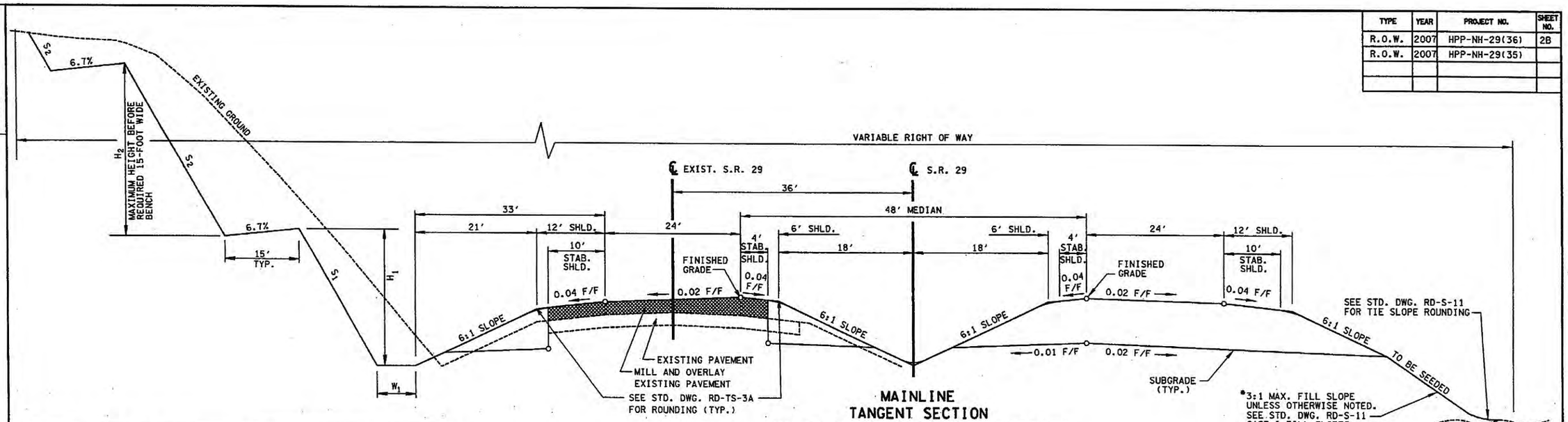
STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
BUREAU OF PLANNING & DEVELOPMENT

TYPICAL SECTIONS

TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2007	HPP-NH-29(36)	2B
R.O.W.	2007	HPP-NH-29(35)	



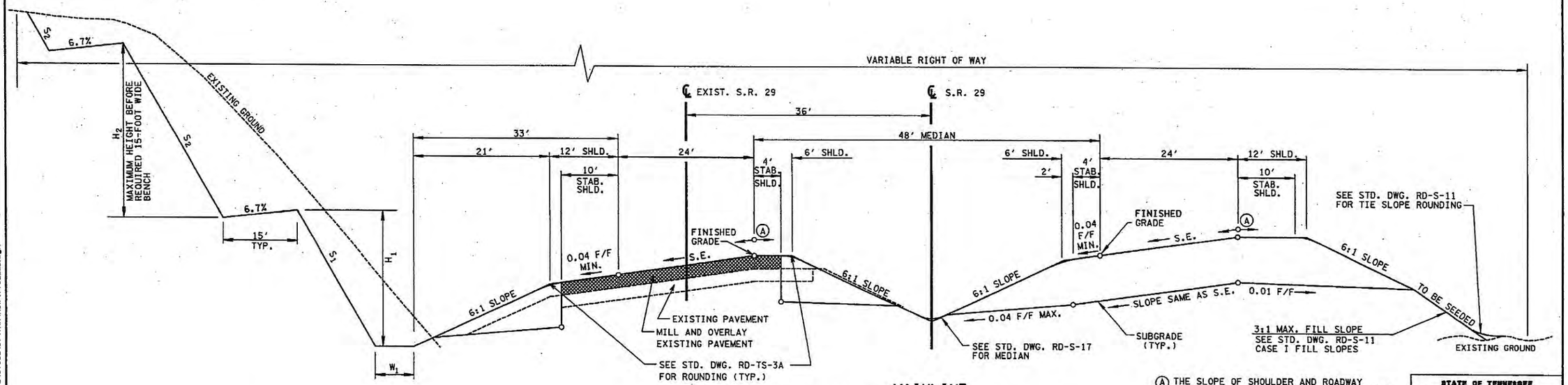
MAINLINE TANGENT SECTION

(SEE STD. DWG. RD-TS-3A FOR DETAILS NOT SHOWN)

STA. 132+50 TO STA. 137+06.90
STA. 156+50 TO STA. 168+22.32
STA. 260+00 TO STA. 264+36.11

MAINLINE LOCATION	H_1	S_1	H_2	S_2	W_1
STA. 134+50 TO STA. 138+50, RT.	20'	0.25:1	30'	2:1	0'
STA. 156+50 TO STA. 168+00, RT.	30'	0.5:1	50'	0.5:1	0'
STA. 168+00 TO STA. 172+50, RT.	30'	0.75:1	50'	0.75:1	0'
STA. 260+00 TO STA. 264+36.11, RT.	50'	1.5:1	50'	1.5:1	6'

*USE 2:1 FILL SLOPE FROM STA. 132+50 TO STA. 134+75, LT.



MAINLINE SUPERELEVATED SECTION

(SEE STD. DWG. RD-TS-3A FOR DETAILS NOT SHOWN)

STA. 137+06.90 TO STA. 140+50
STA. 168+22.32 TO STA. 172+50

Ⓐ THE SLOPE OF SHOULDER AND ROADWAY PAVEMENT SHALL NOT EXCEED AN ALGEBRAIC DIFFERENCE OF 7.0%.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
BUREAU OF PLANNING & DEVELOPMENT

TYPICAL SECTIONS

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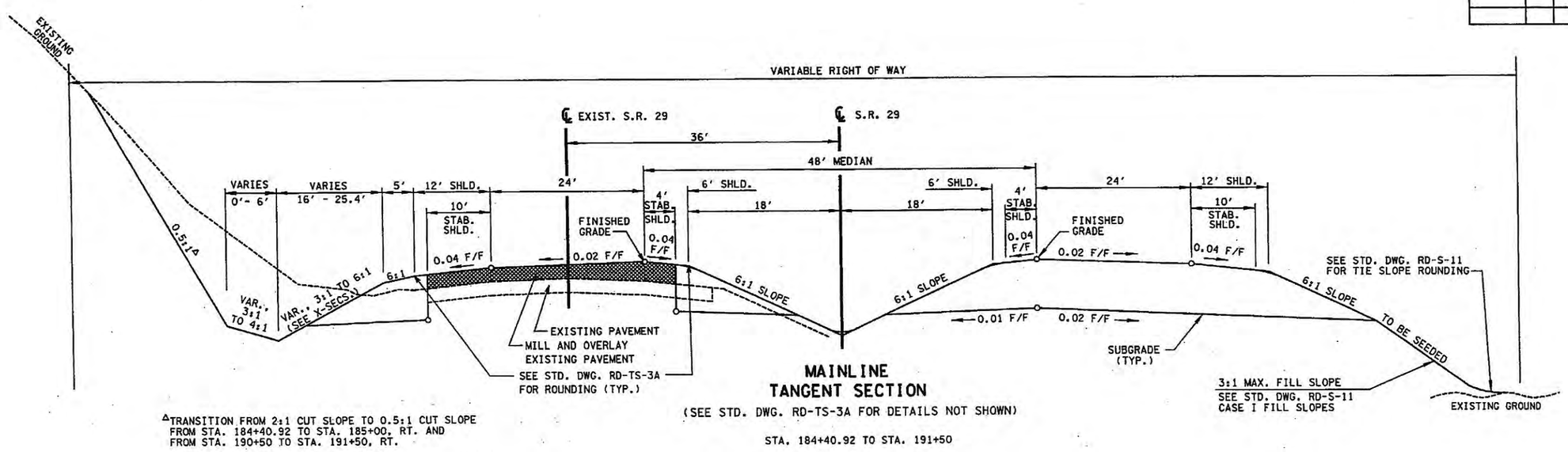
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2007	HPP-NH-29(36)	2C
R.O.W.	2007	HPP-NH-29(35)	

TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

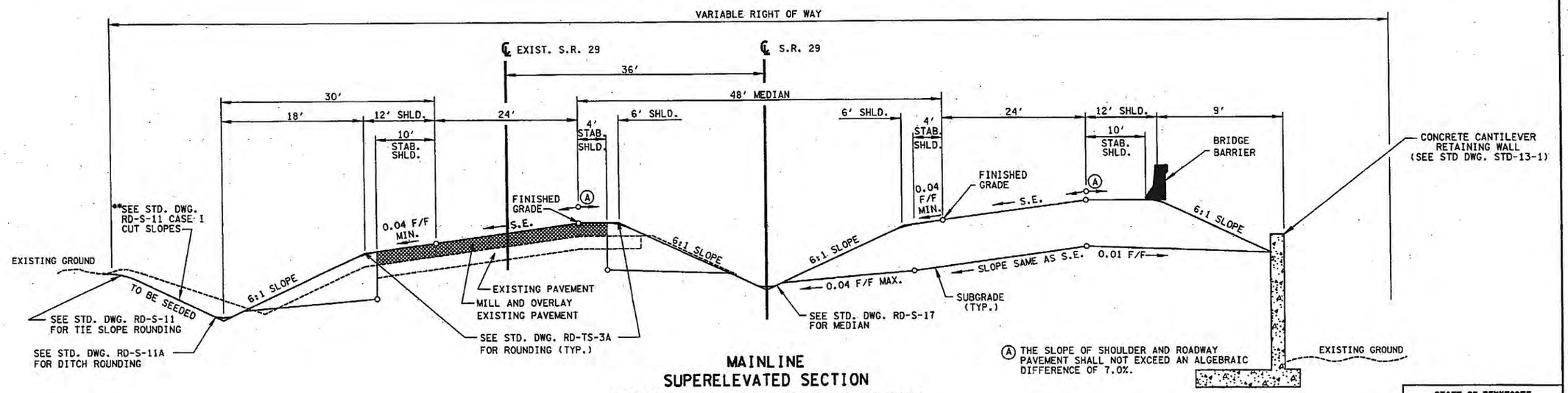


MAINLINE TANGENT SECTION

(SEE STD. DWG. RD-TS-3A FOR DETAILS NOT SHOWN)

STA. 184+40.92 TO STA. 191+50

ΔTRANSITION FROM 2:1 CUT SLOPE TO 0.5:1 CUT SLOPE FROM STA. 184+40.92 TO STA. 185+00, RT. AND FROM STA. 190+50 TO STA. 191+50, RT.



Ⓐ THE SLOPE OF SHOULDER AND ROADWAY PAVEMENT SHALL NOT EXCEED AN ALGEBRAIC DIFFERENCE OF 7.0%.

MAINLINE SUPERELEVATED SECTION

(SEE STD. DWG. RD-TS-3A FOR DETAILS NOT SHOWN)

(END BRIDGE) STA. 174+97.05 TO STA. 178+34.02 (BEGIN BRIDGE)

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
BUREAU OF PLANNING & DEVELOPMENT

TYPICAL SECTIONS

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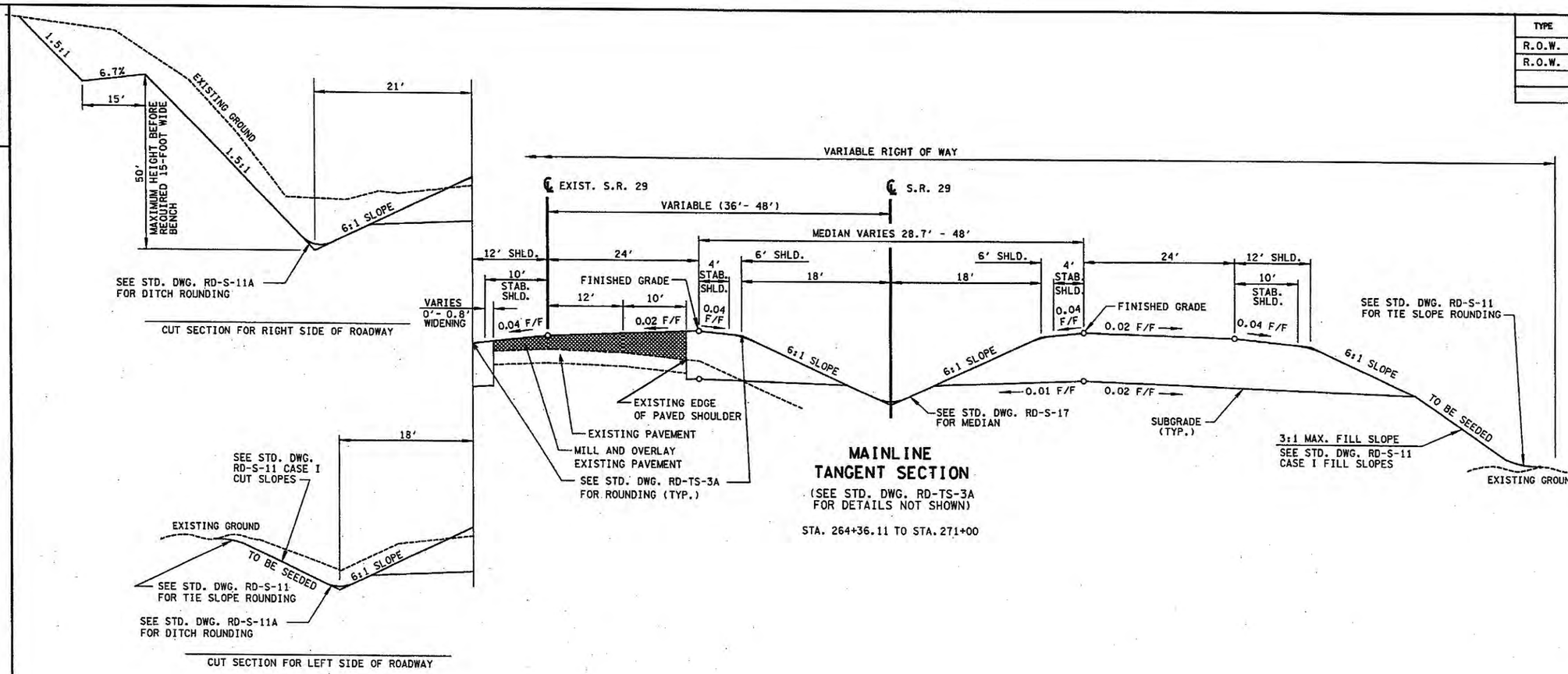
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2007	HPP-NH-29(36)	2D
R.O.W.	2007	HPP-NH-29(35)	

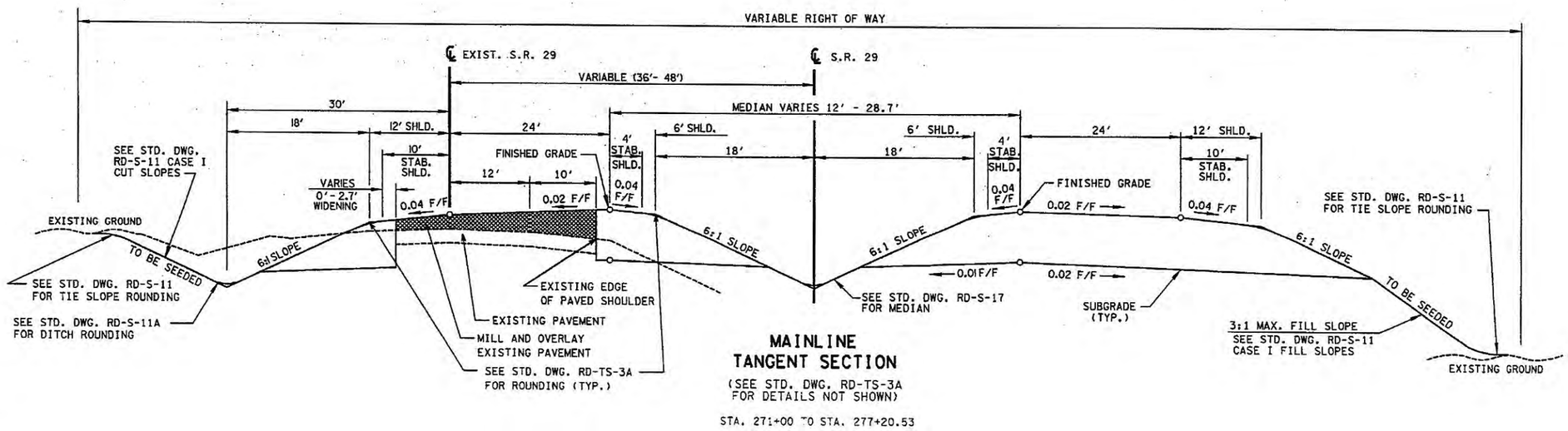
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.



MAINLINE TANGENT SECTION

(SEE STD. DWG. RD-TS-3A FOR DETAILS NOT SHOWN)

STA. 264+36.11 TO STA. 271+00



MAINLINE TANGENT SECTION

(SEE STD. DWG. RD-TS-3A FOR DETAILS NOT SHOWN)

STA. 271+00 TO STA. 277+20.53

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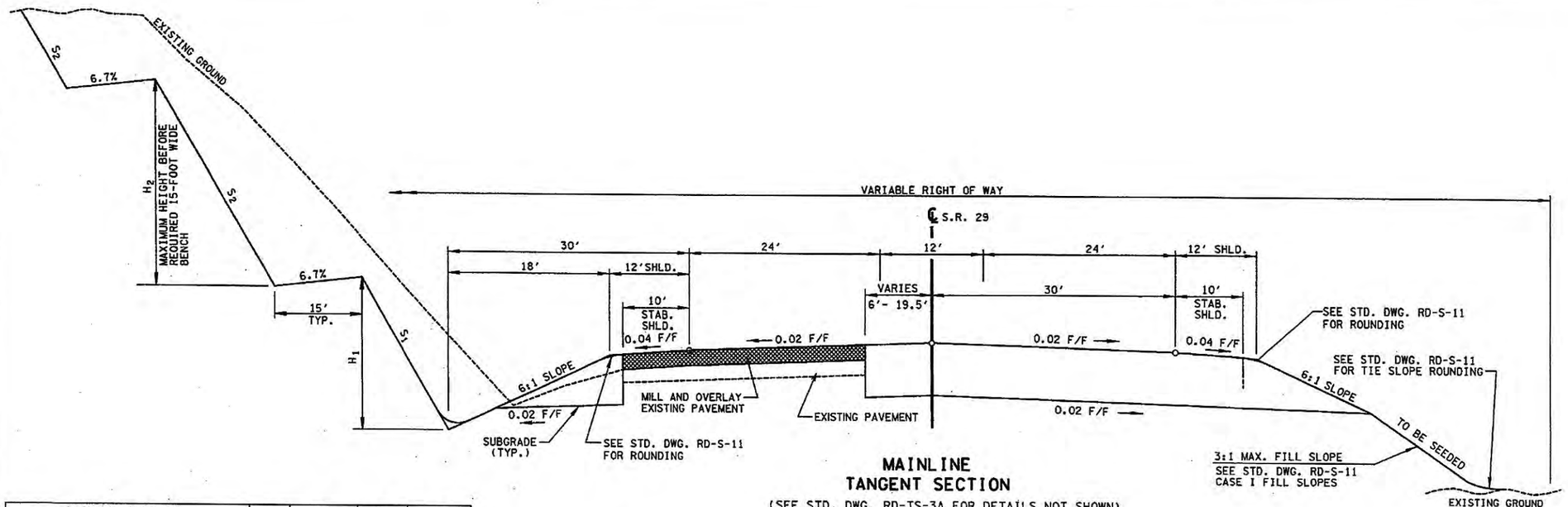
STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
BUREAU OF PLANNING & DEVELOPMENT

TYPICAL SECTIONS

TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2007	HPP-NH-29(36)	2E
R.O.W.	2007	HPP-NH-29(35)	



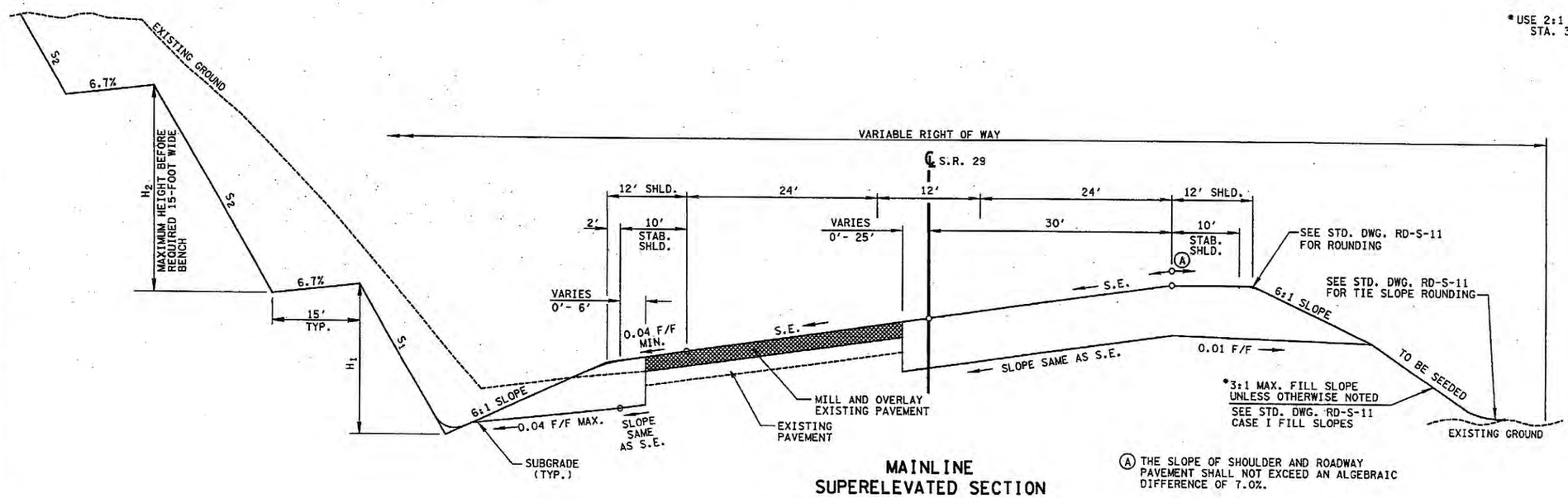
MAINLINE TANGENT SECTION

(SEE STD. DWG. RD-TS-3A FOR DETAILS NOT SHOWN)

STA. 277+20.53 TO STA. 277+28.54
STA. 292+98.05 TO STA. 294+72.07
STA. 309+75.80 TO STA. 312+74.47
STA. 324+42.89 TO STA. 325+88.73

MAINLINE LOCATION	H_1	S_1	H_2	S_2
STA. 291+50 TO STA. 320+00, RT.	20'	0.5:1	50'	1.5:1
STA. 320+50 TO STA. 328+00, RT.	20'	1.5:1	50'	1.5:1

*USE 2:1 FILL SLOPE FROM: STA. 326+25 TO STA. 328+00, LT.



MAINLINE SUPERELEVATED SECTION

(SEE STD. DWG. RD-TS-3A FOR DETAILS NOT SHOWN)

STA. 277+28.54 TO STA. 292+98.05
STA. 294+72.07 TO STA. 309+75.80
STA. 312+74.47 TO STA. 324+42.89
STA. 325+88.73 TO STA. 331+48.14

(A) THE SLOPE OF SHOULDER AND ROADWAY PAVEMENT SHALL NOT EXCEED AN ALGEBRAIC DIFFERENCE OF 7.0%.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
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TYPICAL SECTIONS

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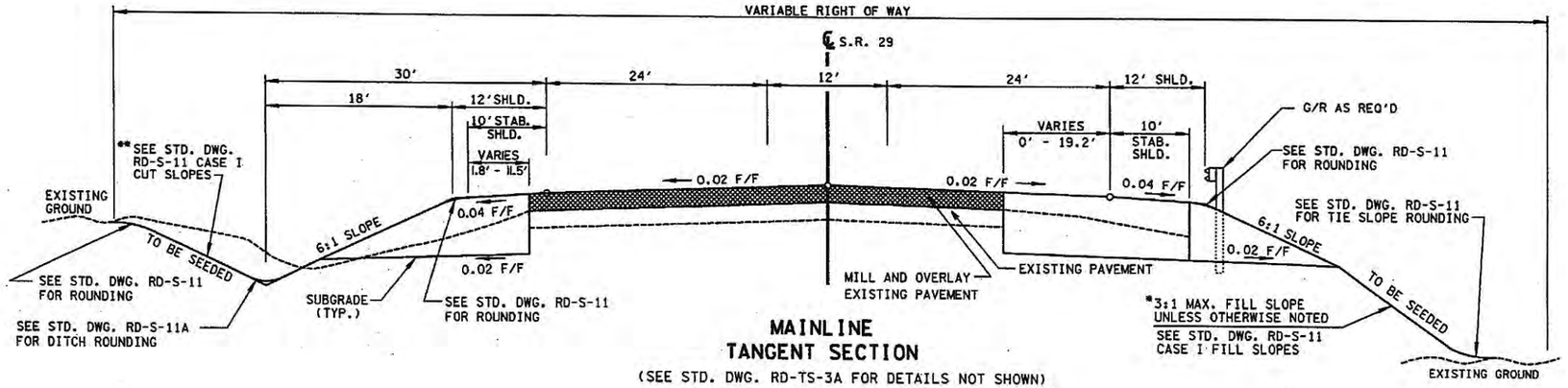
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2007	HPP-NH-29(36)	2F
R.O.W.	2007	HPP-NH-29(35)	

TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.



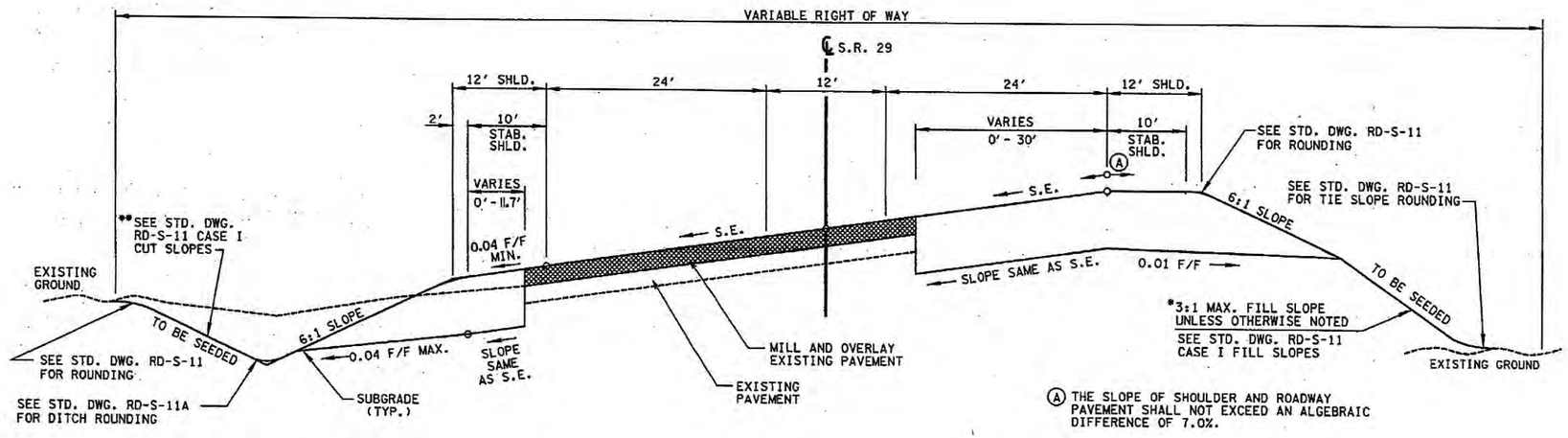
MAINLINE
TANGENT SECTION

(SEE STD. DWG. RD-TS-3A FOR DETAILS NOT SHOWN)

STA. 331+48.14 TO STA. 334+63.83
STA. 345+64.50 TO STA. 348+88.20

** A 15-FOOT WIDE BENCH IS REQUIRED EVERY 30 VERTICAL FEET OF A 2:1 CUT SLOPE. A BENCH IS NOT REQUIRED IF THE EXTENSION OF THE 2:1 CUT SLOPE AN ADDITIONAL 10 VERTICAL FEET OR LESS (FOR A TOTAL MAXIMUM VERTICAL HEIGHT OF 40 FEET) INTERSECTS THE EXISTING SLOPE. (SEE CROSS-SECTIONS)

* USE 2:1 FILL SLOPE FROM:
STA. 328+00 TO STA. 330+25, LT.
STA. 332+29.15 TO STA. 333+25, LT.
STA. 345+75 TO STA. 348+75, RT.



(A) THE SLOPE OF SHOULDER AND ROADWAY PAVEMENT SHALL NOT EXCEED AN ALGEBRAIC DIFFERENCE OF 7.0%.

MAINLINE
SUPERELEVATED SECTION

(SEE STD. DWG. RD-TS-3A FOR DETAILS NOT SHOWN)

STA. 334+63.83 TO STA. 345+64.50

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
BUREAU OF PLANNING & DEVELOPMENT

TYPICAL SECTIONS

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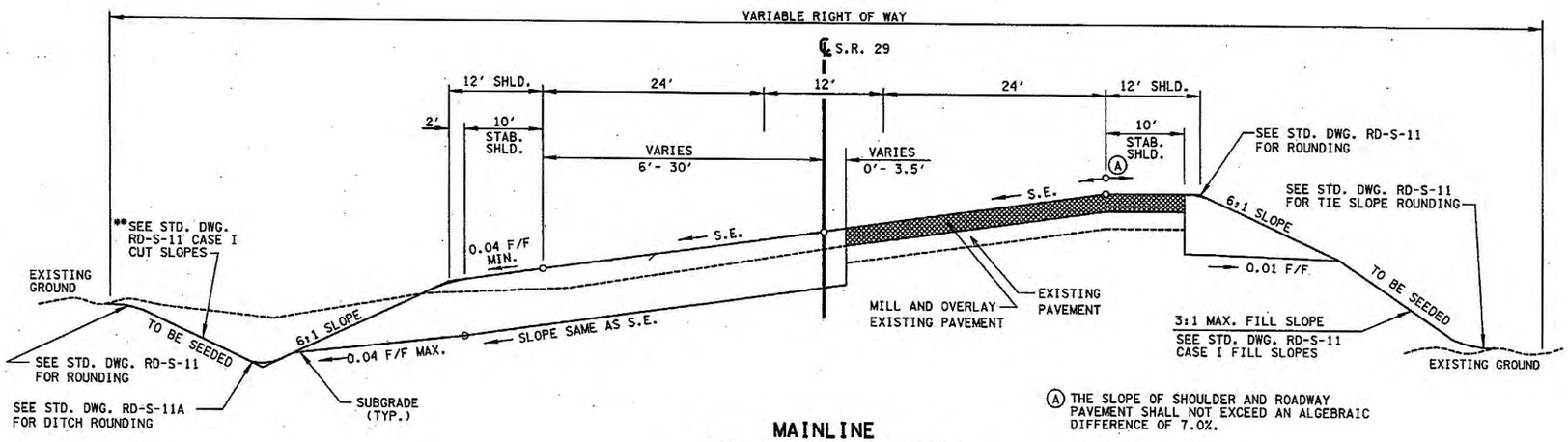
TENNESSEE D.O.T.
DESIGN DIVISION

FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2007	HPP-NH-29(36)	2G
R.O.W.	2007	HPP-NH-29(35)	



Ⓐ THE SLOPE OF SHOULDER AND ROADWAY PAVEMENT SHALL NOT EXCEED AN ALGEBRAIC DIFFERENCE OF 7.0%.

MAINLINE
SUPERELEVATED SECTION

(SEE STD. DWG. RD-TS-3A FOR DETAILS NOT SHOWN)

STA. 348+88.20 TO STA. 357+97.26

** A 15-FOOT WIDE BENCH IS REQUIRED EVERY 30 VERTICAL FEET OF A 2:1 CUT SLOPE. A BENCH IS NOT REQUIRED IF THE EXTENSION OF THE 2:1 CUT SLOPE AN ADDITIONAL 10 VERTICAL FEET OR LESS (FOR A TOTAL MAXIMUM VERTICAL HEIGHT OF 40 FEET) INTERSECTS THE EXISTING SLOPE. (SEE CROSS-SECTIONS)

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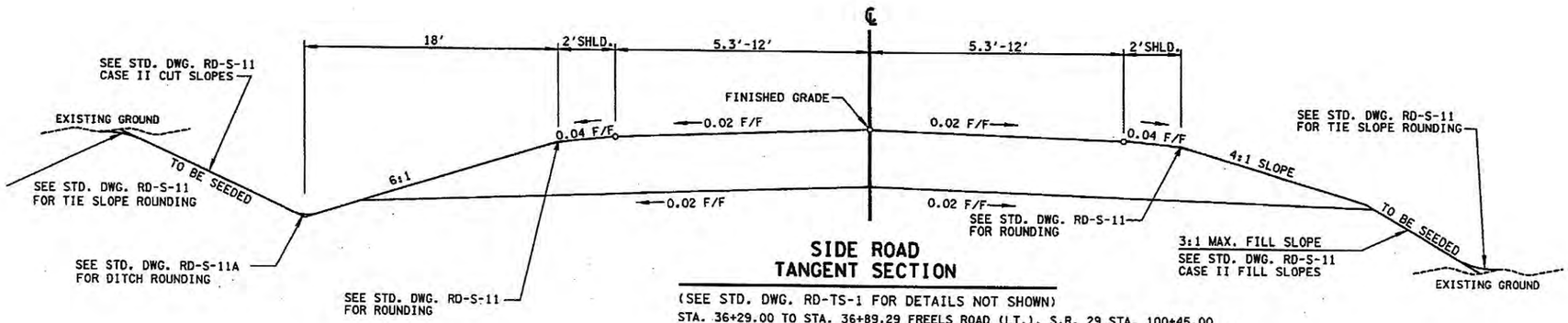
STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
BUREAU OF PLANNING & DEVELOPMENT

TYPICAL SECTIONS

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2007	HPP-NH-29(36)	2H
R.O.W.	2007	HPP-NH-29(35)	

TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

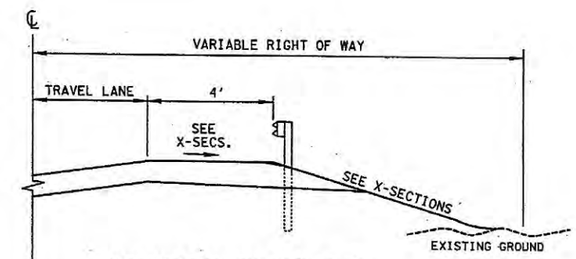


SIDE ROAD
TANGENT SECTION

(SEE STD. DWG. RD-TS-1 FOR DETAILS NOT SHOWN)

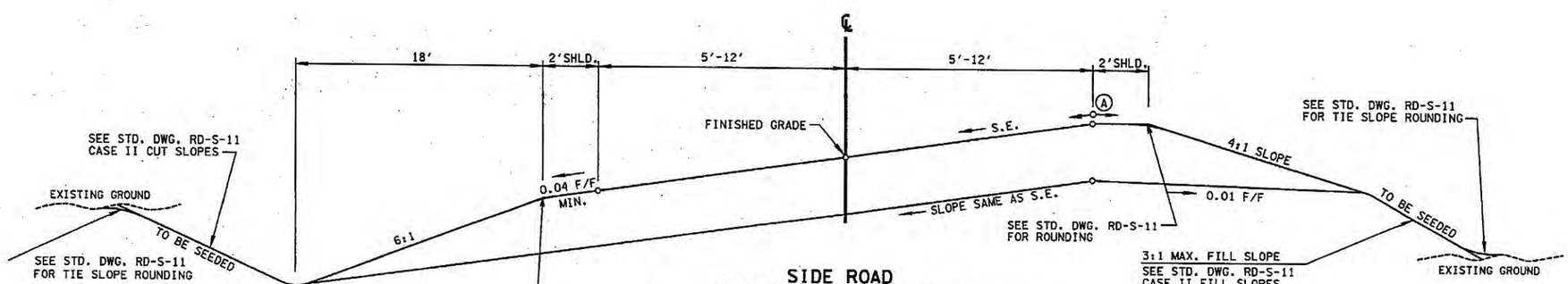
STA. 36+29.00 TO STA. 36+89.29 FREELS ROAD (LT.), S.R. 29 STA. 100+45.00
STA. 36+57.00 TO STA. 36+57.24 ROCK BRIDGE ROAD (LT.), S.R. 29 STA. 129+00.00
STA. 51+77.12 TO STA. 52+35.55 WHETSTONE ROAD (RT.), S.R. 29 STA. 290+51.96
STA. 57+29.85 TO STA. 57+90.70 HANGING ROCK ROAD (RT.), S.R. 29 STA. 328+19.91
STA. 59+45.96 TO STA. 60+40.00 HANGING ROCK ROAD (RT.), S.R. 29 STA. 328+19.91

(A) THE SLOPE OF SHOULDER AND ROADWAY PAVEMENT SHALL NOT EXCEED AN ALGEBRAIC DIFFERENCE OF 7.0%.



GUARDRAIL PLACEMENT

SANDERS LANE STA. 45+20 TO STA. 47+80 (LT.)



SIDE ROAD
SUPERELEVATED SECTION

(SEE STD. DWG. RD-TS-1 FOR DETAILS NOT SHOWN)

STA. 36+89.29 TO STA. 39+52.00 FREELS ROAD (LT.), S.R. 29 STA. 100+45.00
STA. 36+57.24 TO STA. 39+52.00 ROCK BRIDGE ROAD (LT.), S.R. 29 STA. 129+00.00
STA. 40+48.00 TO STA. 42+75.00 ROCK BRIDGE ROAD (RT.), S.R. STA. 129+00.00
STA. 45+20.00 TO STA. 47+41.68 SANDERS LANE (LT.), S.R. 29 STA. 138+60.00
STA. 40+48.00 TO STA. 44+25.00 COAL HILL ROAD (RT.), S.R. 29 STA. 172+30.00
STA. 50+28.70 TO STA. 51+77.12 WHETSTONE RD. (RT.), S.R. 29 STA. 290+51.96
STA. 57+90.00 TO STA. 59+45.96 HANGING ROCK ROAD (RT.), S.R. 29 STA. 328+19.91

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
BUREAU OF PLANNING & DEVELOPMENT

TYPICAL SECTIONS

TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2007	HPP-NH-29(36)	315
R.O.W.	2007	HPP-NH-29(35)	351

220+00

225+00

DUKE ENERGY/ EAST TENNESSEE NATURAL GAS EASEMENT

18'-32'

DUKE ENERGY/ EAST TENNESSEE NATURAL GAS EASEMENT

BITTER CREEK

PRES. AND PROP. R.O.W.

FILL

FILL

FILL

℄ S.R. 29

PRESENT R.O.W.

℄ S.R. 29

CUT

PROPOSED R.O.W.

CUT

PROPOSED R.O.W.

SEE SHEET NO. 314

STA. 217+00

MATCH LINE

SEE SHEET NO. 316

STA. 228+00

MATCH LINE

N

COORDINATE VALUES ARE NAD/83(1995) AND ARE DATUM ADJUSTED BY THE FACTOR 1.00000900 & TIED TO THE TGRN.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
BUREAU OF PLANNING & DEVELOPMENT

EROSION CONTROL PLAN PHASE I

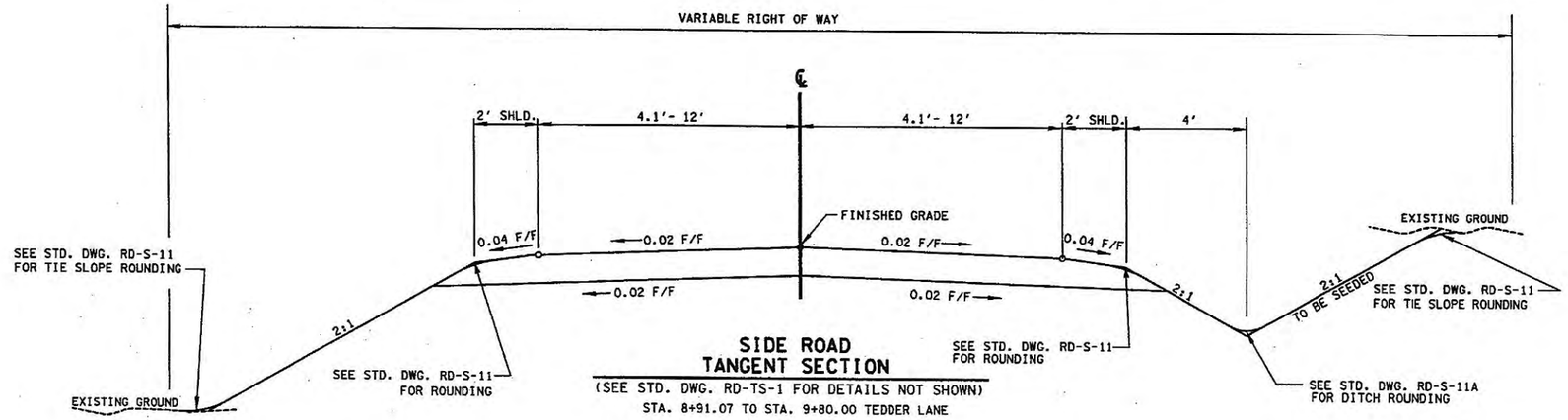
STA. 217+00 TO STA. 228+00

SCALE: 1"= 50'

$$SYTIME$$
$$DGNSPEC$$

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2007	HPP-NH-29(36)	2J
R.O.W.	2007	HPP-NH-29(35)	

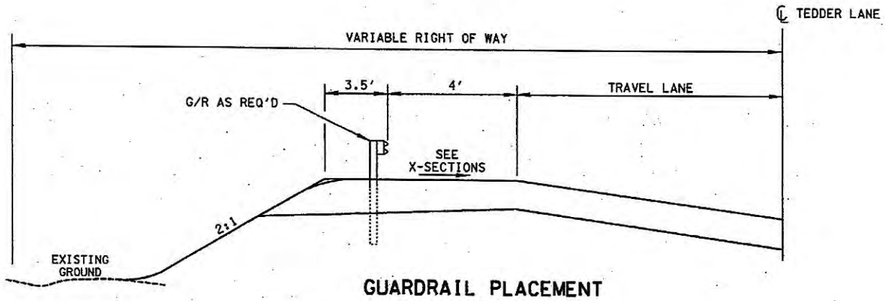
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.



SIDE ROAD TANGENT SECTION

(SEE STD. DWG. RD-TS-1 FOR DETAILS NOT SHOWN)

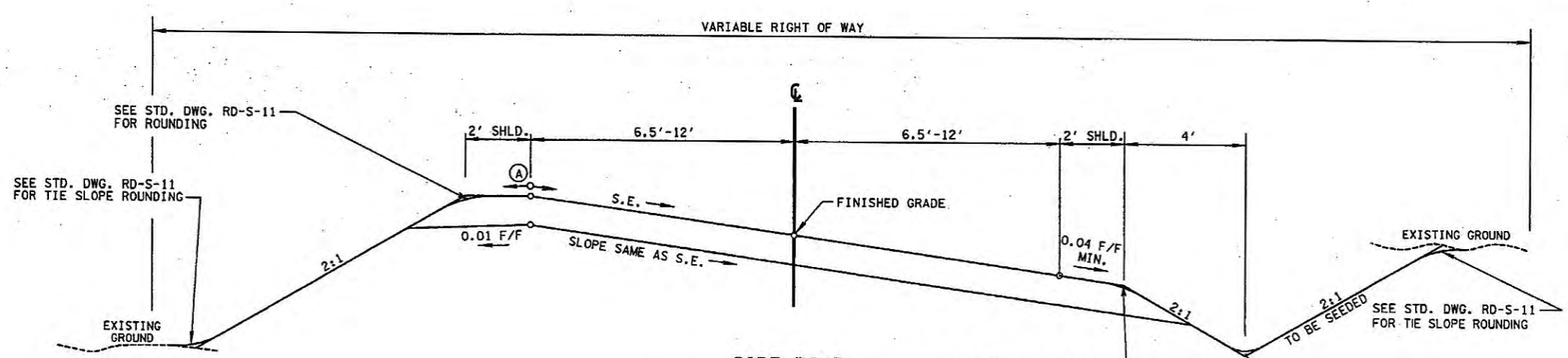
STA. 8+91.07 TO STA. 9+80.00 TEDDER LANE



GUARDRAIL PLACEMENT

STA. 3+20 TO STA. 7+80

Ⓐ THE SLOPE OF SHOULDER AND ROADWAY PAVEMENT SHALL NOT EXCEED AN ALGEBRAIC DIFFERENCE OF 7.0%.



SIDE ROAD SUPERELEVATED SECTION

(SEE STD. DWG. RD-TS-1 FOR DETAILS NOT SHOWN)

STA. 1+50.00 TO STA. 8+91.07 TEDDER LANE

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
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TYPICAL SECTIONS

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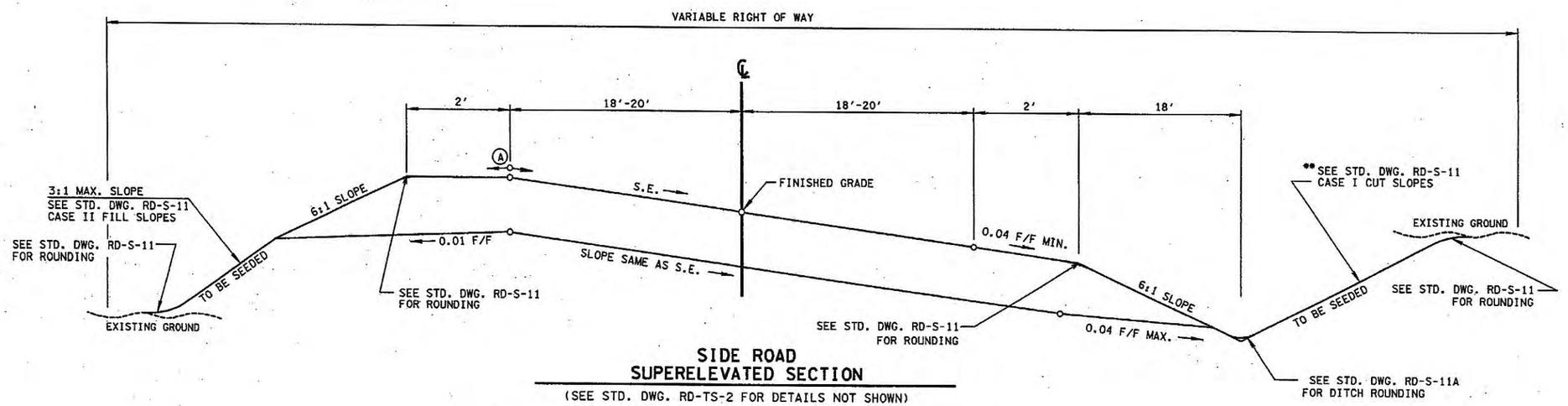
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2007	HPP-NH-29(36)	2K
R.O.W.	2007	HPP-NH-29(35)	



SIDE ROAD
SUPERELEVATED SECTION

(SEE STD. DWG. RD-TS-2 FOR DETAILS NOT SHOWN)

STA. 78+20.00 TO STA. 82+13.70 STATE ROUTE 328 (LT.), S.R. 29 STA. 344+41.26

Ⓐ THE SLOPE OF SHOULDER AND ROADWAY PAVEMENT SHALL NOT EXCEED AN ALGEBRAIC DIFFERENCE OF 7.0%.

** A 15-FOOT WIDE BENCH IS REQUIRED EVERY 30 VERTICAL FEET OF A 2:1 CUT SLOPE. A BENCH IS NOT REQUIRED IF THE EXTENSION OF THE 2:1 CUT SLOPE AN ADDITIONAL 10 VERTICAL FEET OR LESS (FOR A TOTAL MAXIMUM VERTICAL HEIGHT OF 40 FEET) INTERSECTS THE EXISTING SLOPE. (SEE CROSS-SECTIONS)

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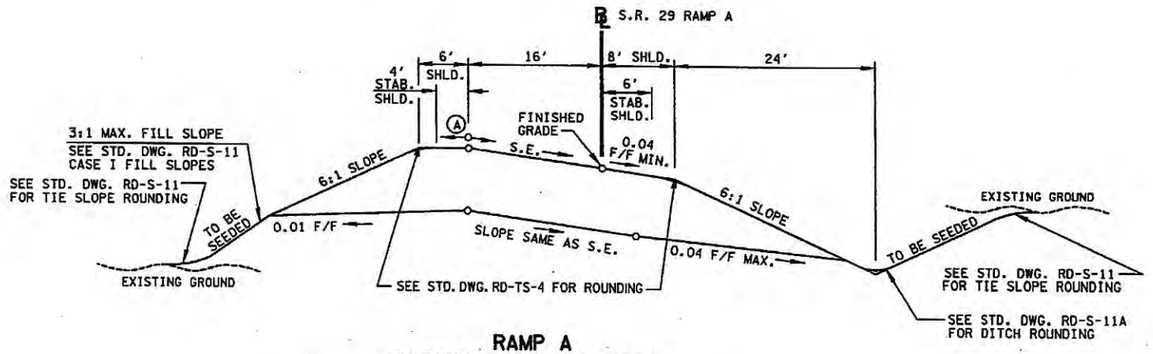
STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
BUREAU OF PLANNING & DEVELOPMENT

TYPICAL SECTIONS

TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

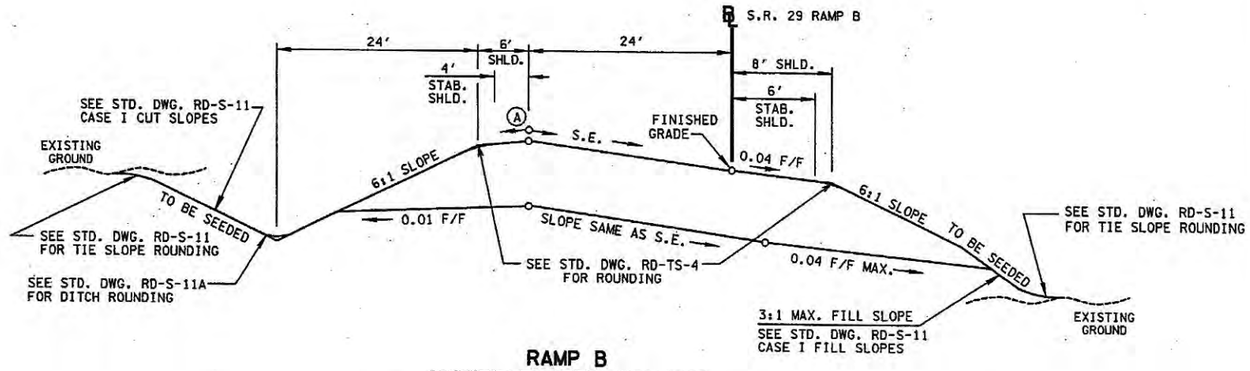
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2007	HPP-NH-29(36)	2L
R.O.W.	2007	HPP-NH-29(35)	



RAMP A
SUPERELEVATED SECTION
(SEE STD. DWG. RD-TS-4 FOR DETAILS NOT SHOWN)

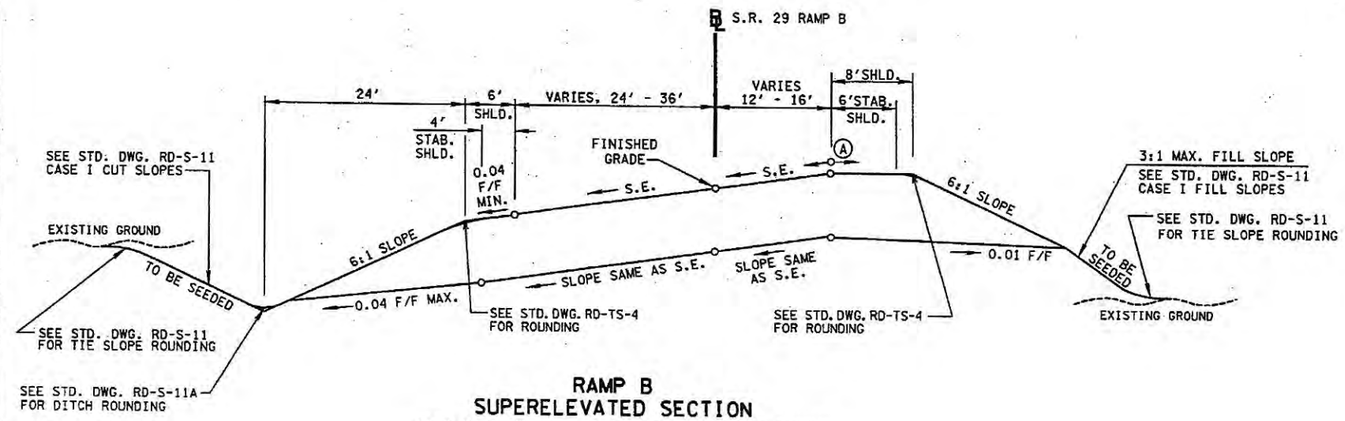
S.R. 29 RAMP A STA. 2+00.00 TO STA. 7+03.38

Ⓐ THE SLOPE OF SHOULDER AND ROADWAY PAVEMENT SHALL NOT EXCEED AN ALGEBRAIC DIFFERENCE OF 7.0%.



RAMP B
SUPERELEVATED SECTION
(SEE STD. DWG. RD-TS-4 FOR DETAILS NOT SHOWN)

S.R. 29 RAMP B STA.10+00.00 TO STA. 17+60.00



RAMP B
SUPERELEVATED SECTION
(SEE STD. DWG. RD-TS-4 FOR DETAILS NOT SHOWN)

S.R. 29 RAMP B STA.17+60.00 TO STA. 22+61.84

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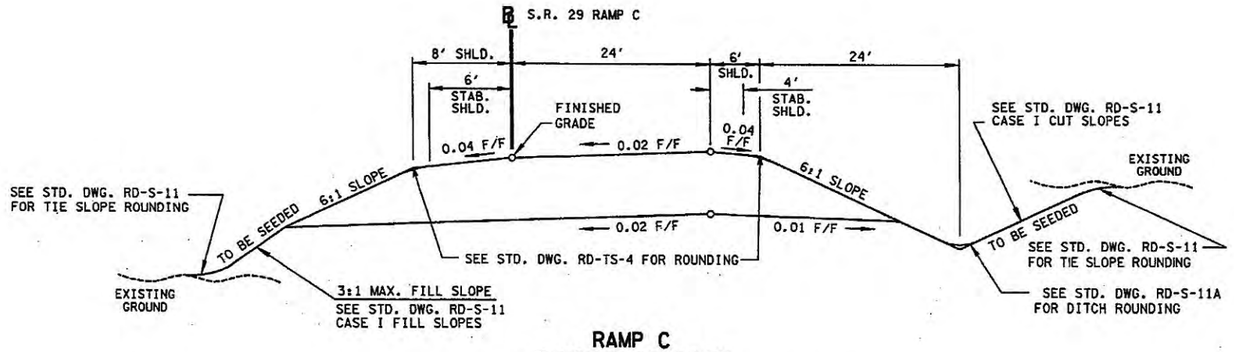
STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
BUREAU OF PLANNING & DEVELOPMENT

TYPICAL SECTIONS

TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

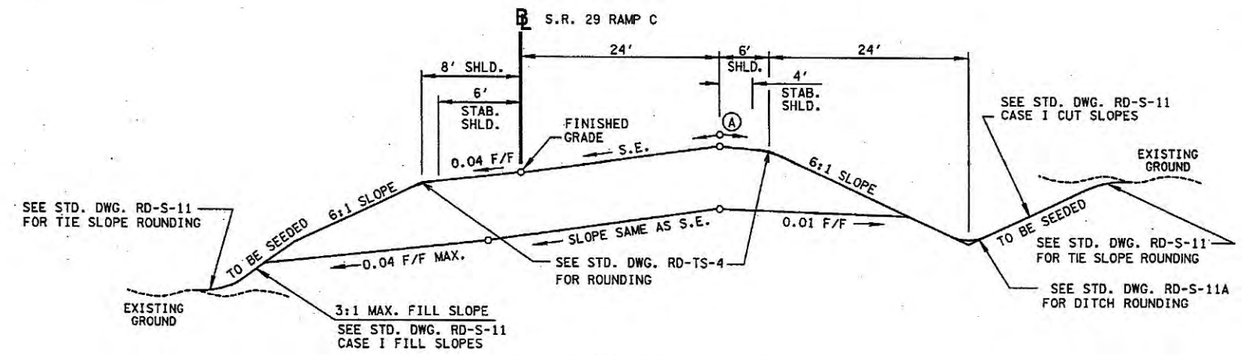
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2007	HPP-NH-29(36)	2M
R.O.W.	2007	HPP-NH-29(35)	



RAMP C
TANGENT SECTION

(SEE STD. DWG. RD-TS-4 FOR DETAILS NOT SHOWN)

S.R. 29 RAMP C STA. 25+00.00 TO STA. 27+10.04
S.R. 29 RAMP C STA. 35+29.10 TO STA. 35+44.13



RAMP C
SUPERELEVATED SECTION

(SEE STD. DWG. RD-TS-4 FOR DETAILS NOT SHOWN)

S.R. 29 RAMP C STA. 27+10.04 TO STA. 35+29.10

Ⓐ THE SLOPE OF SHOULDER AND ROADWAY PAVEMENT SHALL NOT EXCEED AN ALGEBRAIC DIFFERENCE OF 7.0%.

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
BUREAU OF PLANNING & DEVELOPMENT

TYPICAL SECTIONS

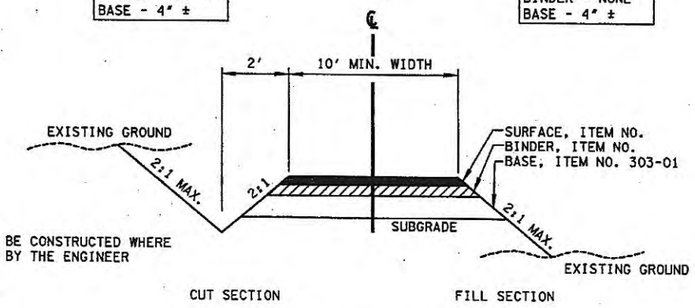
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2007	HPP-NH-29(36)	2N
R.O.W.	2007	HPP-NH-29(35)	

PROPOSED PAVEMENT SCHEDULE	

BUSINESS
SURFACE - 1¼" ±
BINDER - 1¾" ±
BASE - 4" ±

FIELD OR RESIDENTIAL
SURFACE - 1½" ±
BINDER - NONE
BASE - 4" ±



NOTE: DITCH TO BE CONSTRUCTED WHERE DIRECTED BY THE ENGINEER

TYPICAL SECTION
PRIVATE DRIVE TO BUSINESS,
FIELD, OR RESIDENTIAL PROPERTY

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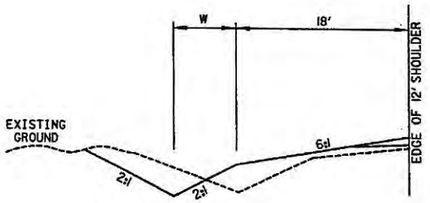
STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
BUREAU OF PLANNING & DEVELOPMENT

TYPICAL SECTIONS
AND
PAVEMENT SCHEDULE

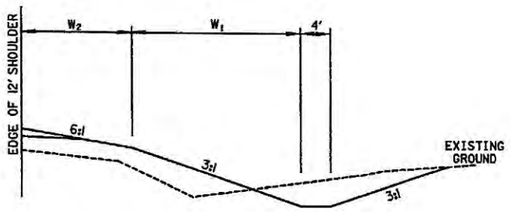
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2007	HPP-NH-29(36)	2P
R.O.W.	2007	HPP-NH-29(35)	

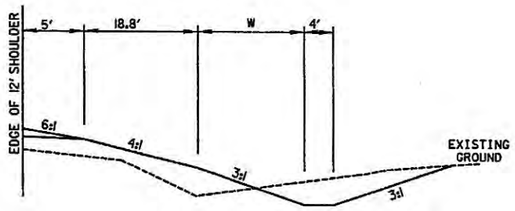
MAINLINE SPECIAL DITCHES



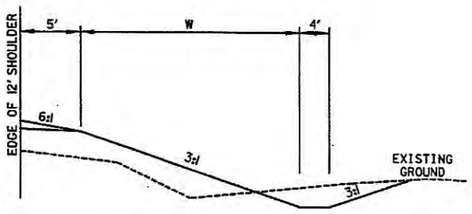
LOCATION	W
SR 29 STA. 116+00 - 116+50, LT.	2'- 4.5'
SR 29 STA. 174+50 - 178+50, LT.	0'- 4'
SR 29 STA. 350+25 - 350+75, LT.	22.8'



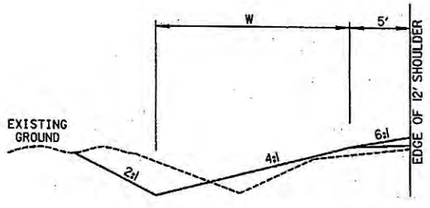
LOCATION	W1	W2
SR 29 STA. 117+00 - 119+75, RT.	27'- 29.5'	18'- 19'
SR 29 STA. 121+75 - 123+25, RT.	39.7'- 44.3'	18'
SR 29 STA. 231+00 - 232+00, LT.	20.5'- 22'	18'



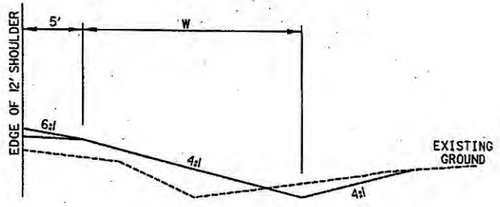
LOCATION	W
SR 29 STA. 119+75 - 121+75, RT.	23.5'- 29.7'



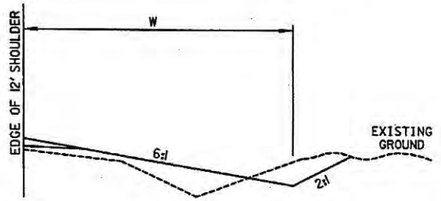
LOCATION	W
SR 29 STA. 125+25 - 128+75, RT.	29'- 64'



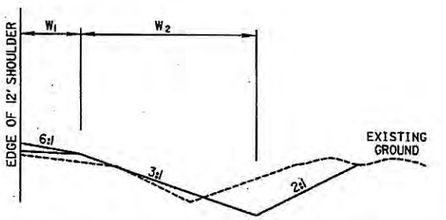
LOCATION	W
SR 29 STA. 355+25 - 355+75, LT.	38.8'



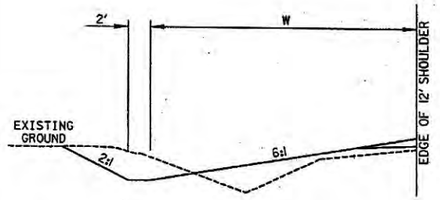
LOCATION	W
SR 29 STA. 128+75 - 129+25, RT.	34'
SR 29 STA. 148+75 - 149+75, RT.	48'- 59'
SR 29 STA. 212+75 - 213+75, RT.	30'- 36'
SR 29 STA. 235+25 - 238+25, RT.	13'- 34'
SR 29 STA. 246+25 - 253+25, RT.	40'- 58.2'
SR 29 STA. 279+25 - 281+25, RT.	19.6'- 25.8'
SR 29 STA. 328+75 - 332+25, RT.	48'- 66.5'
SR 29 STA. 334+75 - 338+75, RT.	13.8'- 56'



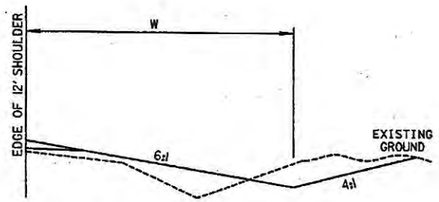
LOCATION	W
SR 29 STA. 155+75 - 157+25, RT.	24'- 30'
SR 29 STA. 183+25 - 183+75, RT.	18'- 33.4'
SR 29 STA. 221+25 - 222+75, RT.	22.4'- 37.8'
SR 29 STA. 271+75 - 273+75, RT.	18' - 40'



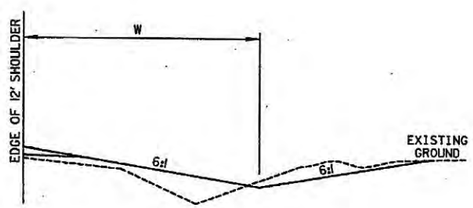
LOCATION	W1	W2
SR 29 STA. 191+25 - 191+63, RT.	5'	21.5'- 22.5'
SR 29 STA. 232+00 - 236+45.1, LT.	18'	22'- 27.3'



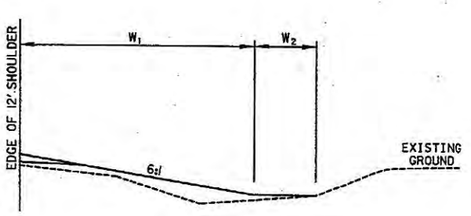
LOCATION	W
SR 29 STA. 357+25 - 359+25, LT.	19.1' - 19.6'



LOCATION	W
SR 29 STA. 216+25 - 216+75, RT.	18'- 22.4'
SR 29 STA. 231+25 - 232+75, RT.	18'- 45.5'
SR 29 STA. 286+75 - 287+25, RT.	34'



LOCATION	W
SR 29 STA. 193+75 - 194+25, RT.	39'- 41'
SR 29 STA. 283+75 - 284+25, RT.	33.4'



LOCATION	W1	W2
SR 29 STA. 151+25 - 151+75, RT.	16'- 24.5'	0'- 11.4'

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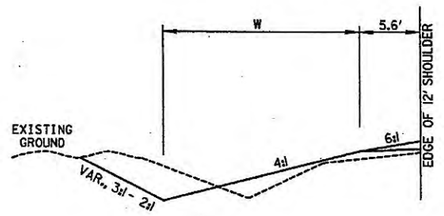
STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
BUREAU OF PLANNING & DEVELOPMENT

TYPICAL SECTIONS

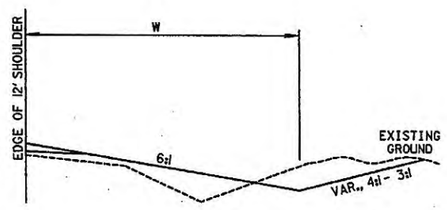
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2007	HPP-NH-29(36)	20
R.O.W.	2007	HPP-NH-29(35)	

RAMP SPECIAL DITCHES



LOCATION	W
RAMP B STA. 11+00 - 18+00, LT.	11.3' - 21.9'
RAMP C STA. 25+00 - 25+75, LT.	19.4' - 20.6'



LOCATION	W
RAMP C STA. 29+50 - 30+85, RT.	21' - 25'

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Survey & Design Division

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
BUREAU OF PLANNING & DEVELOPMENT

TYPICAL SECTIONS

TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2007	HPP-NH-29(36)	2R
R.O.W.	2007	HPP-NH-29(35)	

CROSS DRAIN TABULATION

STATION	RCP CLASS III (L.F.) FILL HEIGHT < OR = 18 FT.							RCP CLASS IV (L.F.) FILL HEIGHT > AND < OR = 27 FT.			SKEW	BEDDING MATERIAL 204-07 (C.Y.)	RIP-RAP 709-05.06 (TON)	END TREATMENT							REMARKS
														INLET		OUTLET		CLASS A CONC. 611-07.01 (C.Y.)	REINF. STEEL 611-07.02 (LB.)	STRUC. STEEL 611-07.03 (LB.)	
	18"	24"	30"	36"	42"	48"	60"	18"	24"	30"				TYPE	DRAWING NO.	TYPE	DRAWING NO.				
33+74.82							328				90			"A"	D-PE-1	"A"	D-PE-1				STATION OF RAMP C
102+95.15			205.2								90			"U"	D-PE-6B(1)	"U"	D-PE-3B(1)				
107+88.35		179									90			"U"	D-PE-6B(1)	"U"	D-PE-3B(1)				
111+85.27		145.9									90			"U"	D-PE-6B(1)	"U"	D-PE-4B(1)				
120+24.34		113.5									90			"U"	D-PE-6B(1)	"U"	D-PE-3B(1)				
123+34.00			114.5								90			"U"	D-PE-4B(1)	"U"	D-PE-4				
134+59.89			162.5								90			#38	D-CB-38SB	"U"	D-PE-4				
39+11.00	98										90			"U"	D-PE-4B(1)	"U"	D-PE-4B(1)				ROCK BRIDGE ROAD LT
137+00.00				184							90			#38	D-CB-38SB	"U"	D-PE-4				
45+36.05			48								90			"U"	D-PE-6B(1)	"U"	D-PE-6B(1)				
156+90.65				195							60,90			#38	D-CB-38SB	"U"	D-PE-3B(1)				
183+71.06				151.3							90			"U"	D-PE-6B(1)	"U"	D-PE-6B(1)				
192+66.88							184.1				90			"A"	D-PE-1	"A"	D-PE-1				
216+53.25					156						90			"U"	D-PE-6B(1)	"U"	D-PE-6B(1)				
221+96.75					150.7						90			"U"	D-PE-4B(1)	"U"	D-PE-4B(1)				
236+45.09							156				90			"A"	D-PE-1	"A"	D-PE-1				
260+05.13						142					75			"A"	D-PE-1	"U"	D-PE-4B(1)				
266+62.04			164								90			#38	D-CB-38SB	"U"	D-PE-4B(1)				
270+28.20			153.9								90			#38	D-CB-38SB	"U"	D-PE-4B(1)				
272+71.98				73							90			"A"	D-PE-1	"U"	D-PE-4B(1)				
276+48.08			140								90			"U"	D-PE-4B(1)	"U"	D-PE-4B(1)				
50+94.22				45							90			"U"	D-PE-6B(1)	"U"	D-PE-6B(1)				WHETSTONE ROAD
297+82.10			39								90			#38	D-CB-38SB	"U"	D-PE-4				
298+97.69			143								90			"U"	D-PE-4B(1)	"U"	D-PE-4				
304+90.72			121								90			#38	D-CB-38SB	"U"	D-PE-4				
309+94.57			133								90			#38	D-CB-38SB	"U"	D-PE-4B(1)				
313+53.95			135								90			#38	D-CB-38SB	"U"	D-PE-4				
319+31.50		60.3									90			#38	D-CB-38SB	"U"	D-PE-4				
325+30.82		125									90			#38	D-CB-38SB	"U"	D-PE-3B(1)				
59+75.00		52									90			"U"	D-PE-4	"U"	D-PE-4				HANGING ROCK ROAD
335+75.67						254					90			"U"	D-PE-4B(1)	"A"	D-PE-1				
79+32.13			78.5								90			#38	D-CB-38SB	"U"	D-PE-6B(1)				STATE ROUTE 328
80+84.32			109								90			#38	D-CB-38SB	"U"	D-PE-6B(1)				STATE ROUTE 328
361+67.61				126							90			#38	D-CB-38SB	"U"	D-PE-3B(1)				
TOTAL	98	675.7	1746.6	774.3	306.7	396	668.1	0	0	0		0	0					0	0	0	

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
BUREAU OF PLANNING & DEVELOPMENT

TABULATED QUANTITIES

SHEET 1 OF 3

TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2007	HPP-NH-29(36)	2S
R.O.W.	2007	HPP-NH-29(35)	

BOX CULVERT TABULATION

STATION	LOCATION	SPAN	HEIGHT	LENGTH	SKEW	DRAINAGE AREA ACRES	BOX CULVERT					CULVERT EXC. CU. YD.	DRAWING NO.	BACKFILLING ITEM 303-01.01 DWG. STD-10-1 TONS	FOUNDATION FILL MATERIAL CU. YD.
							BOX		APRON						
							CLASS "A" CONC. CU. YD.	REINF. STEEL LBS.	CLASS "A" CONC. CU. YD.	WIRE FABRIC LBS.	STEEL BAR REINF. LBS.				
116+05.28	SR-29	5	6	112	60										
130+12.39	SR-29	10	6	102	60										
41+16.00	ROCK BRIDGE ROAD RT	8	6	110.4											
204+23.28	SR-29	4	6	237.8	75										
213+05.81	SR-29	6	5	136.8	90										
230+99.19	SR-29	6	5	106	75										
242+06.63	SR-29	4	5	188	90										
280+51.72	SR-29	12 (3 BARREL)	5	79	75										
328+43.41	SR-29	8	6	63	75										
342+85.29	SR-29	12 (3 BARREL)	9	80	45										
349+19.93	SR-29	15 (2 BARREL)	8	25	90										
TOTALS							0	0	0	0	0	0		0	0

CATCH BASINS

SHEET NO.	LOCATION	STATION	OFFSET (FT.)	DRAINAGE CODE	GRATE/TOP ELEV.	STRUCTURE TYPE	INSIDE DIMENSIONS (INCHES)	DEPTH (FT.)	STANDARD DRAWING	PAY ITEMS							
										TYPE 12 611-12.01 0' - 4'	TYPE 12 611-12.02 4' - 8'	TYPE 12 611-12.03 8' - 12'	TYPE 14 611-14.02 4' - 8'	TYPE 14 611-14.03 8' - 12'	TYPE 38 611-38.01 0' - 4'	TYPE 38 611-38.02 4' - 8'	TYPE 38 611-38.03 8' - 12'
8A	SR-29	138+49.00	79.5	8A	762.8	#38	48	4.39	D-CB-38SB							1	
8A	SR-29	137+00.00	89.5	8B	762	#38	48	4.75	D-CB-38SB							1	
TOTALS										0	0	0	0	0	0	2	0

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
BUREAU OF PLANNING & DEVELOPMENT

TABULATED QUANTITIES

SHEET 2 OF 3

TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2007	HPP-NH-29(36)	2T
R.O.W.	2007	HPP-NH-29(35)	

MEDIAN DRAIN TABULATION

STATION	CODE	RCP CLASS III (L.F.) FILL HEIGHT < OR = 18 FT.			RCP CLASS IV (L.F.) FILL HEIGHT > 18 FT. AND < OR = 27 FT.			SKEW	BEDDING MATERIAL 204-07 (C.Y.)	END TREATMENT				CLASS A CONC. 611-07.01 (C.Y.)	REINF. STEEL 611-07.02 (LB.)	STRUC. STEEL 611-07.03 (LB.)	REMARKS
										INLET		OUTLET					
		18"	24"	30"	18"	24"	30"			TYPE	DRAWING NO.	TYPE	DRAWING NO.				
102+95.15	1A									#38	D-CB-38SB						
105+40.18	1	246.0						0		#38	D-CB-38SB						OFFSET .13' LT
107+86.35	2											#38	D-CB-SB				
111+50.93	3	33.0						0		EW	D-SEW-12D						
111+85.27	4											MH	D-MH-2				5' DIA
116+05.28	4A									#38	D-CB-38RB						5' DIA
120+24.34	4B									#38	D-CB-38SB						
122+79.65	5	52.0						0		EW	D-SEW-12D						
123+34.00	6											JB	D-JBS-3				
128+25.00	7	108.0						90		#38	D-CB-38S						OFFSET .11' LT
128+25.00	8												TIE TO BOX				OFFSET 110.12' RT
134+59.89	7A									#38	D-CB-38SB						
137+00.00	8C									#38	D-CB-38SB						
138+11.04	9A	93.0						0		EW	D-PE-4B						
139+03.33	9B											EW	D-PE-4B				OFFSET .06' RT
140+22.36	9	100.0						90		#38	D-CB-38SB						OFFSET .08' LT
140+22.36	9C											EW	D-PE-4				OFFSET 100.57 LT
148+00.00	12	107.0						90		#38	D-CB-38SB						OFFSET 1.62 RT
148+00.00	14											EW	D-PE-3B1				OFFSET 115.52 RT
150+33.00	15	233.0								#38	D-CB-38S						OFFSET 1.62 RT
156+90.00	17B									#38	D-CB-38RB						5' DIA
159+94.54	17D			104.0				90		#38	D-CB-38SB						
159+94.54	17E											EW	D-PE-4				OFFSET 103' RT
161+42.00	18	72.0						0		#12D	D-SEW-12D						
160+70.00	19											#12D	D-SEW-12D				
164+32.56	18A		83.0					90		#38	D-CB-38RB						
164+32.56	18B											EW	D-PE-4B				OFFSET 82 LT
168+33.00	20	400.0						0		#38	D-CB-38RB						
178+00.00	22	62.0						90		#38	D-CB-38SB						OFFSET 1.62 RT
178+00.00	23												TIE TO WALL				OFFSET 60.25 RT
181+50.00	24	74.0						90		#38	D-CB-38S						OFFSET 0.64 RT
181+50.00	25											EW	D-PE-4B				OFFSET 73.71 LT
183+71.06	24A									#38	D-CB-38SB						
197+07.74	28		109.0					90				#38	D-CB-38SB				
197+07.74	26									EW	D-PE-4B						OFFSET 108.88 LT
198+98.00	30	190.0								#38	D-CB-38SB						
192+66.88	29			440.0						#39	D-CB-39D						
190+00.00	27	267.0								38	D-CB-38S						
204+23.28	32									#38	D-CB-38SB						
207+64.00	31	344.0						0		#38	D-CB-38SB						
211+08.00	33									#38	D-CB-38SB						
213+05.81	34	198.0						0				#38	D-CB-38SB				
216+53.25	34A							0		#38	D-CB-38SB						
219+25.00	35	272.0						0		#38	D-CB-38SB						
221+98.75	37											#38	D-CB-38SC				
225+15.00	36	318.0						0		#38	D-CB-38SB						
230+99.19	36A									#38	D-CB-38SB						OFFSET 0.34 LT
236+45.09	36B									#39	D-CB-38SD						
237+39.00	39	72.0						0				EW	D-SEW-12D				
238+11.00	38									EW	D-SEW-12D						
242+06.63	36C									#38	D-CB-38SB						
248+07.14	40	97.0						90		#38	D-CB-38SB						OFFSET 0.58 RT
248+07.14	41											EW	D-PE-4B				OFFSET 97.54 RT
250+33.95	43	61.0						0				EW	D-SEW-12D				
250+84.69	42									EW	D-SEW-12D						
254+07.17	44	97.0						90		#38	D-CB-38SB						
254+07.17	45											EW	D-PE-4B				OFFSET 96.88 RT
260+05.13	44A									#38	D-CB-38RB						5' DIA
263+18.81	47	62.0						0				EW	D-SEW-12D				
263+80.61	46									EW	D-SEW-12D						
266+62.04	48									#38	D-CB-38SB						
270+28.20	49									#38	D-CB-38SB						
272+71.72	49A									JB#2	D-JBS-2						OFFSET 12.85 RT
297+82.10	52									JB#2	D-JBS-2						OFFSET 14.29 RT
TOTALS		3558.0	192.0	544.0	0.0	0.0	0.0		0					0	0	0	

STORM DRAINAGE PIPES

SHEET NO.	FROM CODE	FROM OUTLET ELEV.	TO CODE	TO INLET ELEV.	% GRADE	REINFORCED CONC. PIPE - CLASS III SIZE & LENGTH (L.F.) 18"	24"	30"	36"	48"	RIP-RAP 709-05.06 (TON)	BEDDING MATERIAL 204-07 (C.Y.)
8A	8A	758.48	8B	757.35	1.06		83					
TOTALS						0	83	0	0	0	0	0

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
BUREAU OF PLANNING & DEVELOPMENT

TABULATED QUANTITIES

SHEET 3 OF 3

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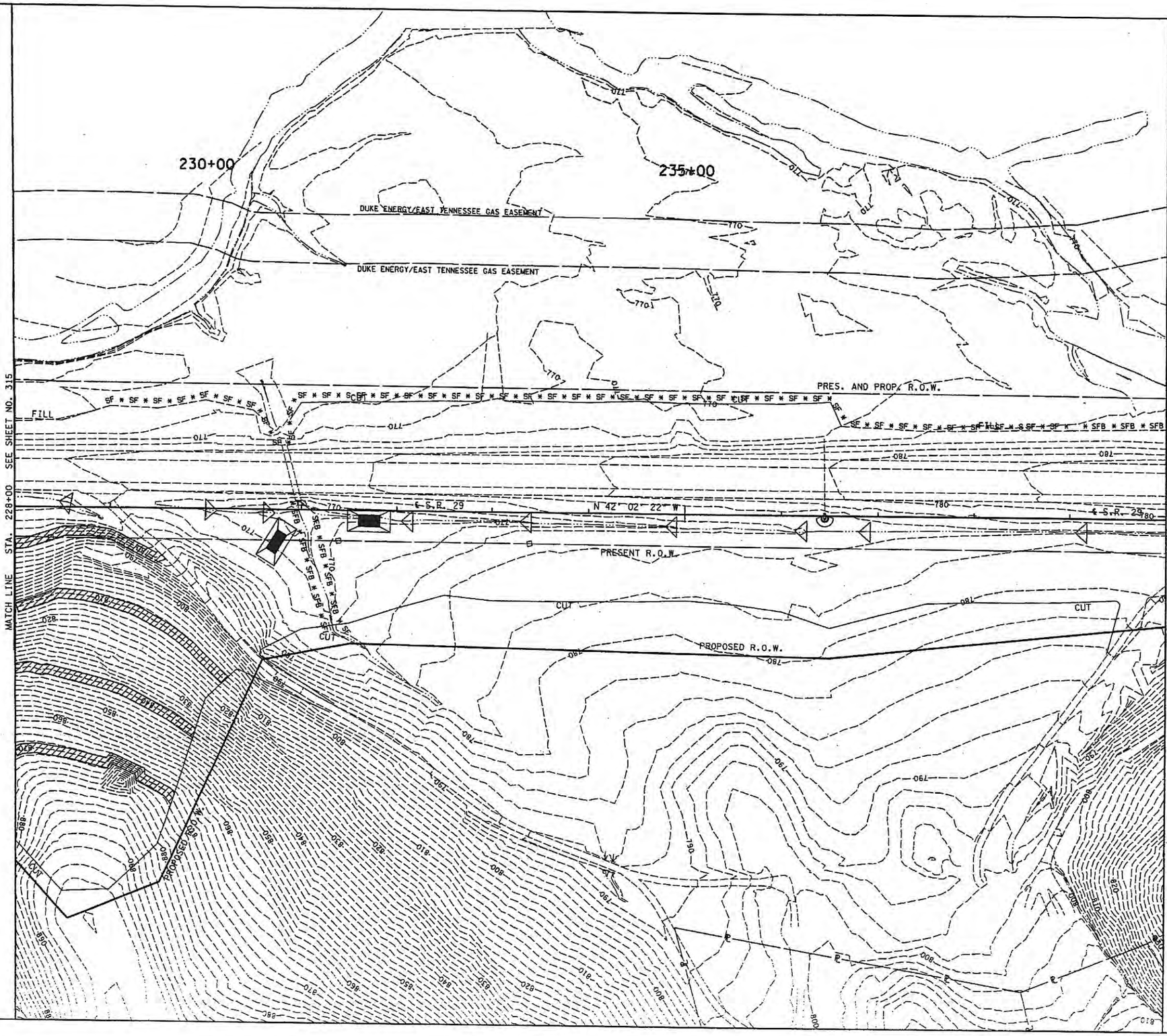
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2007	HPP-NH-29(36)	~~316~~
R.O.W.	2007	HPP-NH-29(35)	352



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COORDINATE VALUES ARE NAD/83(1995) AND ARE DATUM ADJUSTED BY THE FACTOR 1.00000900 & TIED TO THE TGRN.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
BUREAU OF PLANNING & DEVELOPMENT

EROSION CONTROL PLAN PHASE I

STA. 228+00 TO STA. 240+00

SCALE: 1" = 50'

TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2007	HPP-NH-29(36)	3
R.O.W.	2007	HPP-NH-29(35)	

UTILITIES

GAS:
Citizens Gas Utility
P.O. Box 320
Helenwood, Tennessee 37755
Phone: (423) 569-8289
Attn: Freddie Bishop

Duke Energy/East Tennessee Natural Gas
5400 Westheimer Court, Suite 7D61
Houston, Texas 77056-5310
Phone: (713) 627-6024
Attn: Jerry L. Smith

TELEPHONE:
Bell South
9733 Parkside Drive
Knoxville, Tennessee 37922
Phone: (865) 694-3625
Attn: Don Whetham

U.S. Sprint
3065 Cumberland Circle
MS: GAATLD0202
Atlanta, Georgia 30339
Phone: (404) 649-2340
Attn: McCoy Inglee

ELECTRIC:
Harriman Utility Board
P.O. Box 434
Harriman, Tennessee 37748
Phone: (865) 882-3242 ext.234
Attn: Ken Mayfield

Tennessee Valley Authourity
4125 Greenway Drive
Knoxville, Tennessee 37918
Phone: (865) 673-2202
Attn: Carter Gibson

Plateau Electric
P.O. Box 4669
Oneida, Tennessee 37841-46
Phone: (423) 569-8591
Attn: Joel McCart

WATER:
Cumberland Utility District
P.O. Box 950
Harriman, Tennessee 37748-0950
Phone: (865) 882-0395
Attn: Edward Roberts

Cable:
Comcast
P.O. Box 1169
Harriman, Tennessee 37748
Phone: (865) 882-1669
Attn: Roger Rule

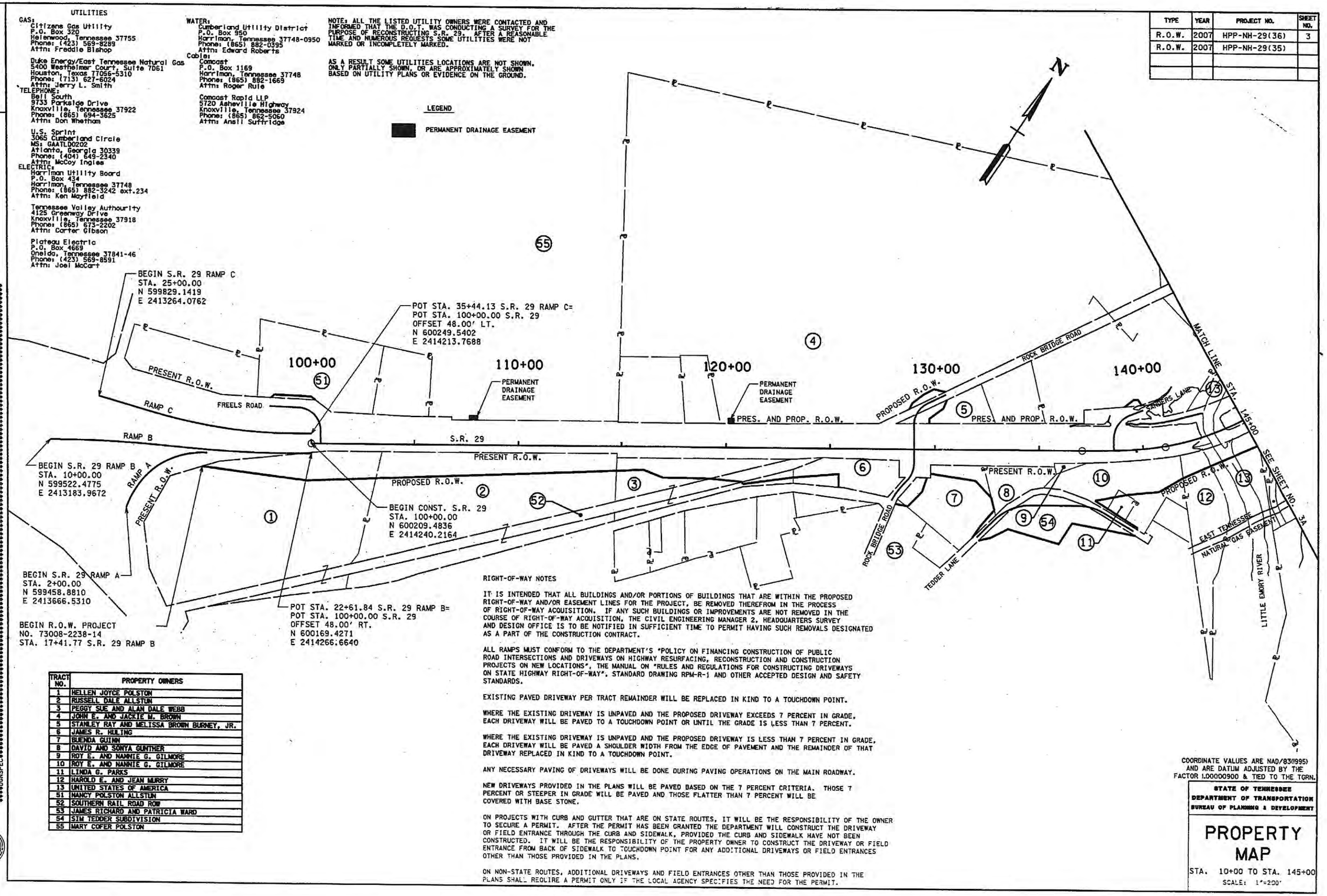
Comcast Rapid LLP
5720 Asheville Highway
Knoxville, Tennessee 37924
Phone: (865) 862-5060
Attn: Anall Suffridge

NOTE: ALL THE LISTED UTILITY OWNERS WERE CONTACTED AND INFORMED THAT THE D.O.T. WAS CONDUCTING A SURVEY FOR THE PURPOSE OF RECONSTRUCTING S.R. 29. AFTER A REASONABLE TIME AND NUMEROUS REQUESTS SOME UTILITIES WERE NOT MARKED OR INCOMPLETELY MARKED.

AS A RESULT SOME UTILITIES LOCATIONS ARE NOT SHOWN, ONLY PARTIALLY SHOWN, OR ARE APPROXIMATELY SHOWN BASED ON UTILITY PLANS OR EVIDENCE ON THE GROUND.

LEGEND

PERMANENT DRAINAGE EASEMENT



TRACT NO.	PROPERTY OWNERS
1	HELLEN JOYCE POLSTON
2	RUSSELL DALE ALLSTUN
3	PEGGY SUE AND ALAN DALE WEBB
4	JOHN E. AND JACKIE M. BROWN
5	STANLEY RAY AND MELISSA BROWN BURNEY, JR.
6	JAMES R. HULING
7	BUENDA GUINN
8	DAVID AND SONYA GUNTHER
9	ROY E. AND NANNIE G. GILMORE
10	ROY E. AND NANNIE G. GILMORE
11	LINDA G. PARKS
12	HAROLD E. AND JEAN MURRY
13	UNITED STATES OF AMERICA
51	NANCY POLSTON ALLSTUN
52	SOUTHERN RAIL ROAD ROW
53	JAMES RICHARD AND PATRICIA WARD
54	SIM TEDDER SUBDIVISION
55	MARY COFER POLSTON

RIGHT-OF-WAY NOTES

IT IS INTENDED THAT ALL BUILDINGS AND/OR PORTIONS OF BUILDINGS THAT ARE WITHIN THE PROPOSED RIGHT-OF-WAY AND/OR EASEMENT LINES FOR THE PROJECT, BE REMOVED THEREFROM IN THE PROCESS OF RIGHT-OF-WAY ACQUISITION. IF ANY SUCH BUILDINGS OR IMPROVEMENTS ARE NOT REMOVED IN THE COURSE OF RIGHT-OF-WAY ACQUISITION, THE CIVIL ENGINEERING MANAGER 2, HEADQUARTERS SURVEY AND DESIGN OFFICE IS TO BE NOTIFIED IN SUFFICIENT TIME TO PERMIT HAVING SUCH REMOVALS DESIGNATED AS A PART OF THE CONSTRUCTION CONTRACT.

ALL RAMPS MUST CONFORM TO THE DEPARTMENT'S "POLICY ON FINANCING CONSTRUCTION OF PUBLIC ROAD INTERSECTIONS AND DRIVEWAYS ON HIGHWAY RESURFACING, RECONSTRUCTION AND CONSTRUCTION PROJECTS ON NEW LOCATIONS", THE MANUAL ON "RULES AND REGULATIONS FOR CONSTRUCTING DRIVEWAYS ON STATE HIGHWAY RIGHT-OF-WAY", STANDARD DRAWING RPM-R-1 AND OTHER ACCEPTED DESIGN AND SAFETY STANDARDS.

EXISTING PAVED DRIVEWAY PER TRACT REMAINDER WILL BE REPLACED IN KIND TO A TOUCHDOWN POINT.

WHERE THE EXISTING DRIVEWAY IS UNPAVED AND THE PROPOSED DRIVEWAY EXCEEDS 7 PERCENT IN GRADE, EACH DRIVEWAY WILL BE PAVED TO A TOUCHDOWN POINT OR UNTIL THE GRADE IS LESS THAN 7 PERCENT.

WHERE THE EXISTING DRIVEWAY IS UNPAVED AND THE PROPOSED DRIVEWAY IS LESS THAN 7 PERCENT IN GRADE, EACH DRIVEWAY WILL BE PAVED A SHOULDER WIDTH FROM THE EDGE OF PAVEMENT AND THE REMAINDER OF THAT DRIVEWAY REPLACED IN KIND TO A TOUCHDOWN POINT.

ANY NECESSARY PAVING OF DRIVEWAYS WILL BE DONE DURING PAVING OPERATIONS ON THE MAIN ROADWAY.

NEW DRIVEWAYS PROVIDED IN THE PLANS WILL BE PAVED BASED ON THE 7 PERCENT CRITERIA. THOSE 7 PERCENT OR STEEPER IN GRADE WILL BE PAVED AND THOSE FLATTER THAN 7 PERCENT WILL BE COVERED WITH BASE STONE.

ON PROJECTS WITH CURB AND GUTTER THAT ARE ON STATE ROUTES, IT WILL BE THE RESPONSIBILITY OF THE OWNER TO SECURE A PERMIT. AFTER THE PERMIT HAS BEEN GRANTED THE DEPARTMENT WILL CONSTRUCT THE DRIVEWAY OR FIELD ENTRANCE THROUGH THE CURB AND SIDEWALK, PROVIDED THE CURB AND SIDEWALK HAVE NOT BEEN CONSTRUCTED. IT WILL BE THE RESPONSIBILITY OF THE PROPERTY OWNER TO CONSTRUCT THE DRIVEWAY OR FIELD ENTRANCE FROM BACK OF SIDEWALK TO TOUCHDOWN POINT FOR ANY ADDITIONAL DRIVEWAYS OR FIELD ENTRANCES OTHER THAN THOSE PROVIDED IN THE PLANS.

ON NON-STATE ROUTES, ADDITIONAL DRIVEWAYS AND FIELD ENTRANCES OTHER THAN THOSE PROVIDED IN THE PLANS SHALL REQUIRE A PERMIT ONLY IF THE LOCAL AGENCY SPECIFIES THE NEED FOR THE PERMIT.

COORDINATE VALUES ARE NAD/83(1995) AND ARE DATUM ADJUSTED BY THE FACTOR 1.00000900 & TIED TO THE TGRN.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
BUREAU OF PLANNING & DEVELOPMENT

PROPERTY MAP

STA. 10+00 TO STA. 145+00

SCALE: 1"=200'

Surveys & Data Division

$$SYSTIME$$
$$DGNSPEC$$

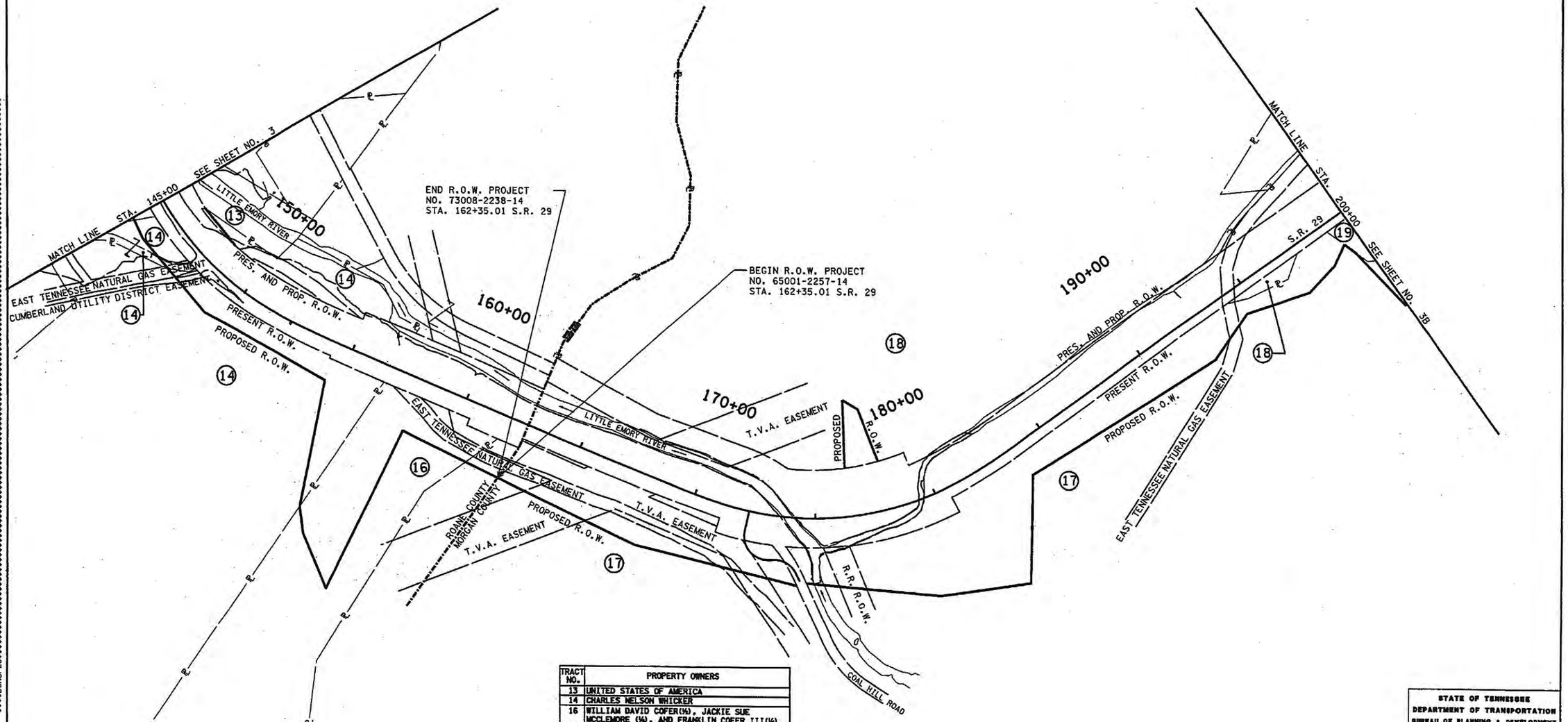
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2007	HPP-NH-29(36)	3A
R.O.W.	2007	HPP-NH-29(35)	

LEGEND

PERMANENT DRAINAGE EASEMENT

N



TRACT NO.	PROPERTY OWNERS
13	UNITED STATES OF AMERICA
14	CHARLES NELSON WHICKER
16	WILLIAM DAVID COFER(½), JACKIE SUE MCCLEMORE (½) AND FRANKLIN COFER III(½)
17	WINTER'S GAP COAL AND LAND COMPANY
18	WILLIAM S. BRISSLEY, TRUSTEE NO. IV
19	GARY HALLCOX

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
BUREAU OF PLANNING & DEVELOPMENT

PROPERTY MAP

STA. 145+00 TO STA. 200+00

SCALE: 1"=200'

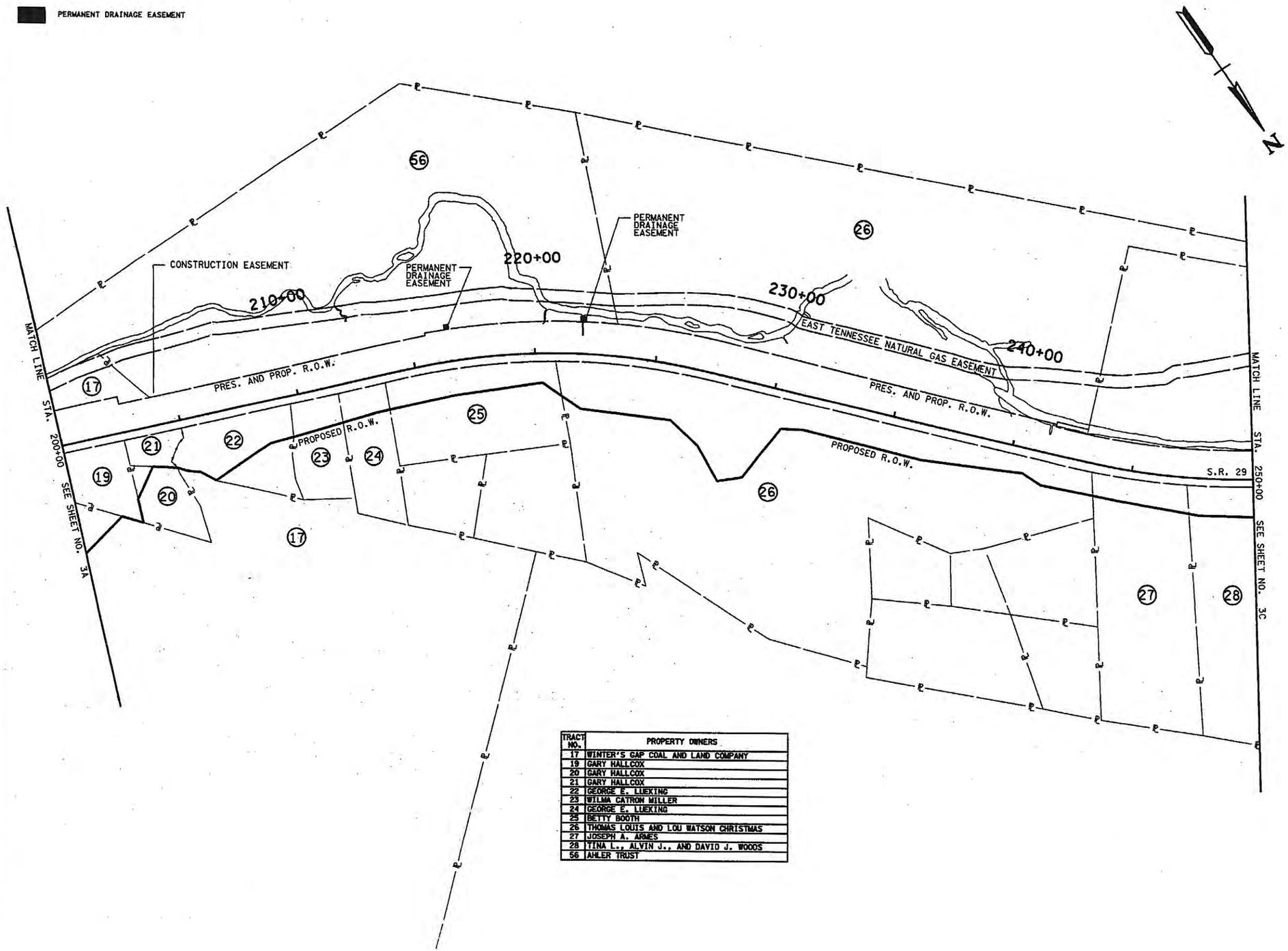
$$SYTIME$$
$$DGNSPEC$$

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2007	HPP-NH-29(36)	3B
R.O.W.	2007	HPP-NH-29(35)	

TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

LEGEND

PERMANENT DRAINAGE EASEMENT



TRACT NO.	PROPERTY OWNERS
17	WINTER'S GAP COAL AND LAND COMPANY
19	GARY HALLCOX
20	GARY HALLCOX
21	GARY HALLCOX
22	GEORGE E. LUEKING
23	WILMA CATRON MILLER
24	GEORGE E. LUEKING
25	BETTY BOOTH
26	THOMAS LOUIS AND LOU WATSON CHRISTMAS
27	JOSEPH A. ARMES
28	TINA L., ALVIN J., AND DAVID J. WOODS
56	AHLER TRUST

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
BUREAU OF PLANNING & DEVELOPMENT

PROPERTY MAP

STA. 200+00 TO STA. 250+00
SCALE: 1"=200'

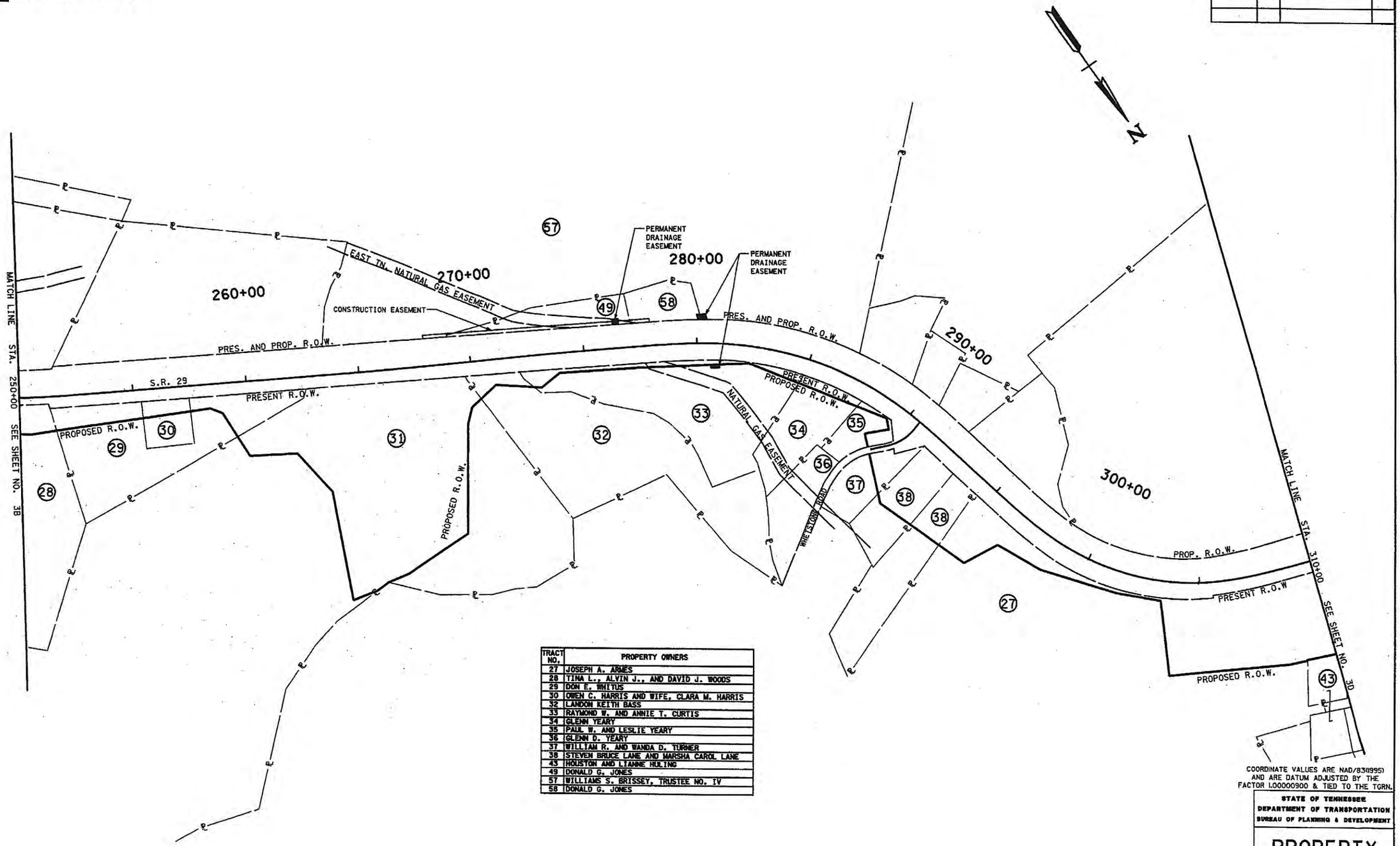
****SYTIME********
****DGNSPEC********

TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2007	HPP-NH-29(36)	3C
R.O.W.	2007	HPP-NH-29(35)	

LEGEND

PERMANENT DRAINAGE EASEMENT



TRACT NO.	PROPERTY OWNERS
27	JOSEPH A. ARMES
28	TINA L., ALVIN J., AND DAVID J. WOODS
29	DON E. WHITUS
30	OWEN C. HARRIS AND WIFE, CLARA M. HARRIS
32	LANDON KEITH BASS
33	RAYMOND W. AND ANNIE T. CURTIS
34	GLENN YEARY
35	PAUL W. AND LESLIE YEARY
36	GLENN D. YEARY
37	WILLIAM R. AND WANDA D. TURNER
38	STEVEN BRUCE LANE AND MARSHA CAROL LANE
43	HOUSTON AND LIANNE HULING
49	DONALD G. JONES
57	WILLIAMS S. BRISSEY, TRUSTEE NO. IV
58	DONALD G. JONES

COORDINATE VALUES ARE NAD/83(1995) AND ARE DATUM ADJUSTED BY THE FACTOR L00000900 & TIED TO THE TGRN.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
BUREAU OF PLANNING & DEVELOPMENT

PROPERTY MAP

STA. 250+00 TO STA. 310+00

SCALE: 1"=200'

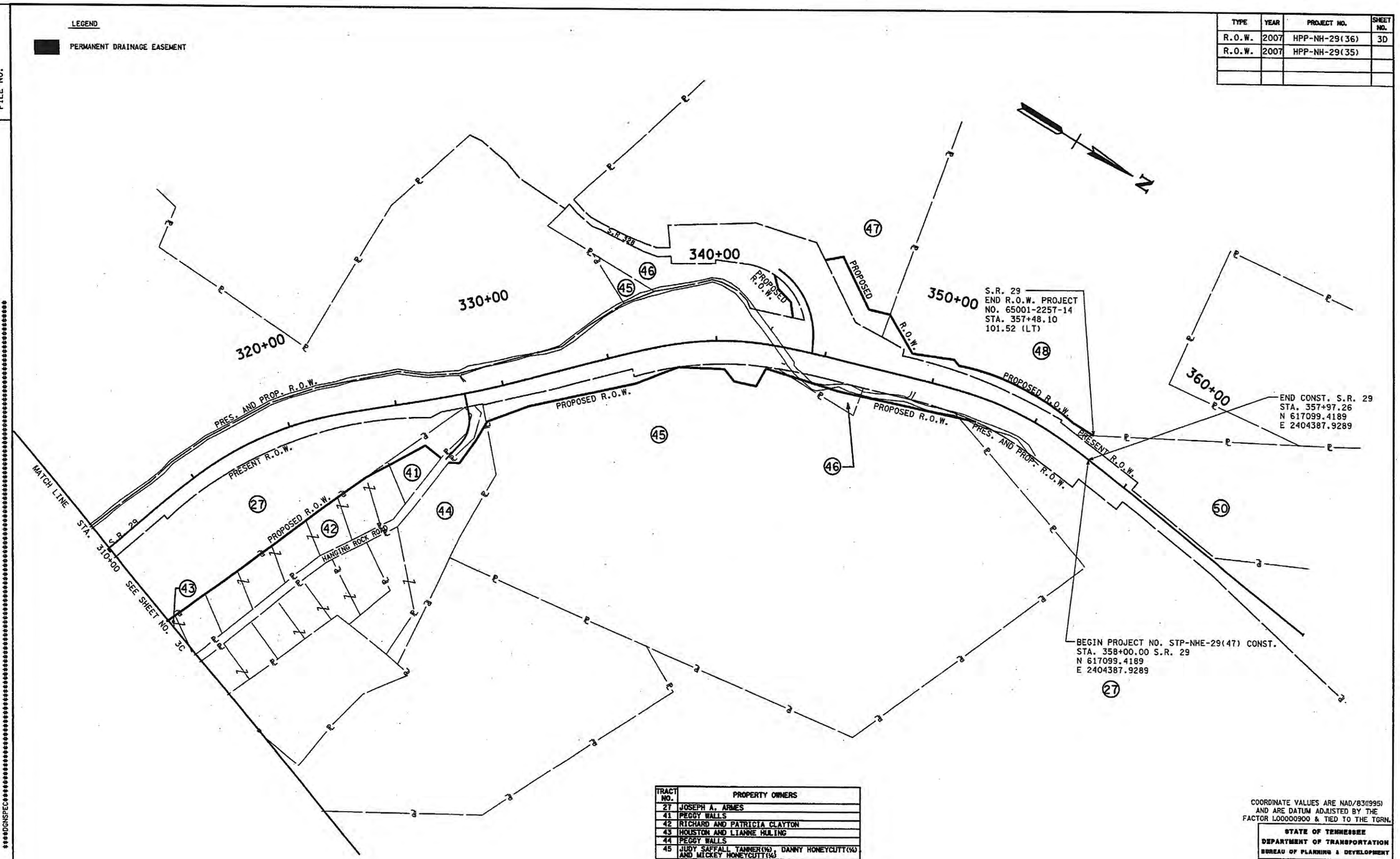
####SYTIME####
####DGNSPEC####

TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

LEGEND

PERMANENT DRAINAGE EASEMENT

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2007	HPP-NH-29(36)	3D
R.O.W.	2007	HPP-NH-29(35)	



TRACT NO.	PROPERTY OWNERS
27	JOSEPH A. ARMES
41	PEGGY WALLS
42	RICHARD AND PATRICIA CLAYTON
43	HOUSTON AND LIANNE HULING
44	PEGGY WALLS
45	JUDY SAFFALL TANNER(½), DANNY HONEYCUTT(¼) AND MICKEY HONEYCUTT(¼)
46	DAVID TECUMSEH LEE
47	REBA FAIRCHILD MADEN
48	GARRY DEAN WARD
50	LARRY WILL

COORDINATE VALUES ARE NAD/83(1995) AND ARE DATUM ADJUSTED BY THE FACTOR 1.00000900 & TIED TO THE TGRN.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
BUREAU OF PLANNING & DEVELOPMENT

PROPERTY MAP

STA. 310+00 TO STA. 360+00

SCALE: 1"=200'

$$SYTIME$$
$$DGNSPEC$$

TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

R.O.W. ACQUISITION TABLE

TRACT NO.	PROPERTY OWNER	COUNTY RECORDS				TOTAL AREA (AC)			AREA TO BE ACQUIRED(AC)			AREA REMAINING (AC)		EASEMENT (SQ.FT)		
		TAX MAP NO.	PARCEL NO.	DEED BOOK	PAGE NO.	LEFT	RIGHT	TOTAL	LEFT	RIGHT	TOTAL	LEFT	RIGHT	PERM DRAIN	SLOPE	CONST.
1	HELLEN JOYCE POLSTON	11	64.01	WB4	142-143		14.577	14.577	0.000	1.875	1.875	0.000	12.702			
2	RUSSELL DALE ALLSTUN	11	64	WB4	142-143		11.857	11.857	0.000	2.715	2.715	0.000	9.142			
3	PEGGY SUE AND ALAN DALE WEBB	11	59	DK22	440		2.633	2.633	0.000	1.367	1.367	0.000	1.266			
4	JOHN E. AND JACKIE M. BROWN	11	54	K18	616-617	68.985		68.985	0.110	0.110	0.142	68.875	0.000	749.15		
5	STANLEY RAY AND MELISSA B. BURNEY, JR.	11	54.01	L20	765	1.042		1.042	0.207	0.000	0.207	0.835	0.000			
6	JAMES R. HULING	11	55	G22	270		1.563	1.563	0.000	1.345	1.345	0.000	0.218			
7	BUENDA GUINN	12	5	W20	644		2.683	2.683	0.000	0.662	0.662	0.000	2.021			
8	DAVID AND SONYA GUNTHER	12	5.01	X21	114		1.024	1.024	0.000	1.024	1.024	0.000	0.000			
9	ROY E. AND NANNIE G. GILMORE	12I	14	R15	257-258		0.092	0.092	0.000	0.092	0.092	0.000	0.000			
10	ROY E. AND NANNIE G. GILMORE	12I	13	L12 J12	244-245 340		2.846	2.846	0.000	2.087	2.087	0.000	0.759			
11	LINDA G. PARKS	12I	13.01	A17	750		0.264	0.264	0.000	0.043	0.043	0.000	0.221			
12	HAROLD E. AND JEAN MURRY	12	3	B9	430		2.632	2.632	0.000	0.281	0.281	0.000	2.351			
13	UNITED STATES OF AMERICA	12	3	U5	447		2.364	2.364	0.000	0.475	0.475	0.000	1.889			
14	•CHARLES NELSON WHICKER	12	1	S21	711	2.406	102.896	105.302	0.042	3.595	3.637	2.364	99.301			
15																
16	WILLIAM DAVID COFER(½), JACKIE SUE MCCLEMORE (¼), AND FRANKLIN COFER III(¼)	12	60	Z19 S8	78 599 & 687		173.126	173.126	0.000	4.652	4.652	0.000	168.474			
17	WINTER'S GAP COAL AND LAND COMPANY	149	47	T4	315	2.137	491.000	493.137	0.048	16.669	16.717	2.089	474.331			793.90
18	WILLIAM S. BRISSEY, TRUSTEE NO. IV	149	25	Q7	335	2394.000	0.292	2394.292	0.549	0.292	0.841	2393.451	0.000			
19	GARY HALLCOX	149	50.02	M7	112		1.922	1.922	0.000	1.922	1.922	0.000	0.000			
20	GARY HALLCOX	149	50.03	R6	11		1.445	1.445	0.000	0.146	0.146	0.000	1.299			
21	GARY HALLCOX	149	50.01	M7	114		0.635	0.635	0.000	0.635	0.635	0.000	0.000			
22	GEORGE E. LUEKING	149	50	S8	663		3.082	3.082	0.000	2.025	2.025	0.000	1.057			
23	WILMA CATRON MILLER	149	49.01	Q7	20		2.105	2.105	0.000	0.609	0.609	0.000	1.496			
24	GEORGE E. LUEKING	149	48.01	S8	663		2.531	2.531	0.000	0.532	0.532	0.000	1.999			
25	BETTY BOOTH	149	49	Y7	346		5.802	5.802	0.000	1.706	1.706	0.000	4.096			
26	THOMAS LOUIS AND LOU WATSON CHRISTMAS	149	22	P8	590	43.867	33.617	77.484	0.060	8.115	8.175	43.807	25.502			2616.57
27	JOSEPH A. ARMES	149	21.01	G9	531		1187.465	1187.465	0.000	19.503	19.503	0.000	1167.962			
28	TINA L., ALVIN J., AND DAVID J. WOODS	149	21.02	B9	485		10.693	10.693	0.000	1.165	1.165	0.000	9.528			
29	DON E. WHITUS	149	23.00	H6	202		6.004	6.004	0.000	1.889	1.889	0.000	4.115			
30	OWEN C. HARRIS AND WIFE, CLARA M. HARRIS	149	23.01	MISC 37	653		0.958	0.958	0.000	0.310	0.310	0.000	0.648			
~~31~~	~~PER G. LOSETH~~	~~149~~	~~25.01~~	~~R8~~	~~210~~		~~281.12~~	~~281.120~~	~~0.000~~	~~11.009~~	~~11.009~~	~~0.000~~	~~270.111~~			
32	LANDON KEITH BASS	149	16	Y8	915-916		9.842	9.842	0.000	0.365	0.365	0.000	9.477			
33	RAYMOND W. AND ANNIE T. CURTIS	149	17	I6	15		6.938	6.938	0.000	0.704	0.704	0.000	6.234	600.00		
34	GLENN YEARY	149	13	K6	83		2.477	2.477	0.000	0.251	0.251	0.000	2.226			
35	PAUL W. AND LESLIE YEARY	149	12	Q5	396		0.976	0.976	0.000	0.227	0.227	0.000	0.749			
~~36~~	~~GLENN D. YEARY~~	~~149~~	~~10~~	~~R7~~	~~307~~		~~1.906~~	~~1.906~~	~~0.000~~	~~0.000~~	~~0.000~~	~~0.000~~	~~0.000~~			
37	WILLIAM R. AND WANDA D. TURNER	149	11	Z7	142		1.474	1.474	0.000	0.472	0.472	0.000	1.002			
38	STEVEN BRUCE LANE AND MARSHA CAROL LANE	149	11.05	G7	130		5.678	5.678	0.000	2.180	2.180	0.000	3.498			
~~39~~	~~BERNICE T. COUCH~~	~~149~~	~~11.02~~	~~V6~~	~~600~~		~~3.478~~	~~3.478~~	~~0.000~~	~~0.911~~	~~0.911~~	~~0.000~~	~~2.567~~			
~~40~~	~~PER G. LOSETH~~	~~140~~	~~16~~	~~R8~~	~~210-225~~		~~897.000~~	~~897.000~~	~~0.000~~	~~18.560~~	~~18.560~~	~~0.000~~	~~878.440~~			
41	PEGGY WALLS	140-0	1	Z7	626-627		1.379	1.379	0.000	0.689	0.689	0.000	0.690			
42	RICHARD AND PATRICIA CLAYTON	140-0	2-7	S8	376		4.362	4.362	0.000	0.027	0.027	0.000	4.335			
~~43~~	~~HOUSTON AND LIANNE HULING~~	~~140-0~~	~~8-10~~	~~S7~~	~~187~~		~~2.266~~	~~2.266~~	~~0.000~~	~~0.007~~	~~0.007~~	~~0.000~~	~~2.259~~			
44	PEGGY WALLS	140-0	17-18	Z7	626-627		5.941	5.941	0.000	0.183	0.183	0.000	5.758			
45	JUDY SAFFALL TANNER(½), DANNY HONEYCUTT(¼), AND MICKEY HONEYCUTT(¼)	140	26	X8 Z6	707 557	0.444	70.680	71.124	0.000	1.789	1.789	0.444	68.891			
46	DAVID TECUMSEH LEE	140	25.02	U6	654	3.428	0.629	4.057	0.180	0.291	0.471	3.248	0.338			
47	REBA FAIRCHILD MADEN	140	25	A7	712	38.263		38.263	0.777	0.000	0.777	37.486	0.000			
48	GARRY DEAN WARD	139	10	V7	139	387.000		387.000	0.918	0.000	0.918	386.082	0.000			
49	DONALD G. JONES	149	16.01	T7	789	1.580		1.580	0.000	0.000	0.000	1.580	0.000	749.98		11587.33
~~50~~	~~LARRY WILL~~	~~140~~	~~19.02~~	~~??~~	~~???~~	~~7.708~~		~~7.708~~	~~0.952~~	~~0.000~~	~~0.952~~	~~0.746~~	~~0.000~~			
51	NANCY POLSTON ALLSTUN	11	52.01	Y19	261	4.667		4.667	0.066	0.000	0.066	4.601	0.000			
52	SOUTHERN RAIL ROAD ROW	??	??	??	??		3.471	3.471	0.000	0.461	0.461	0.000	3.010			
53	JAMES RICHARD AND PATRICIA WARD	12	6.01	B16	272		1.040	1.040	0.000	0.015	0.015	1.025	0.000			
54	SIM TEDDER SUBDIVISION	??	??	??	???		???	???	0.000	1.790	1.790	???	???			
55	MARY COFER POLSTON	11	52.01	Y19	261	53.496		53.496	0.000	0.000	0.000	0.000	53.496	919.25		
56	AHLER TRUST	149	51.00	E8	567	41.613		41.613	0.458	0.000	0.458	41.155	0.000	902.53		1081.16
57	WILLIAMS S. BRISSEY, TRUSTEE NO. IV	149	25.00	O7	321-334	2394.00		2394.00	0.000	0.000	0.000	2394.000	0.000	622.90		1718.05
58	DONALD G. JONES	149	15.00	O8	53	1.13		1.13	0.000	0.000	0.000	1.130	0.00	380.35		1278.65

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2007	HPP-NH-29(36)	3E
R.O.W.	2007	HPP-NH-29(35)	

• OIL AND MINERAL RIGHTS RETAINED BY THE COAL CREEK MINING AND MANUFACTURING CO. DEED S21, PAGE 711

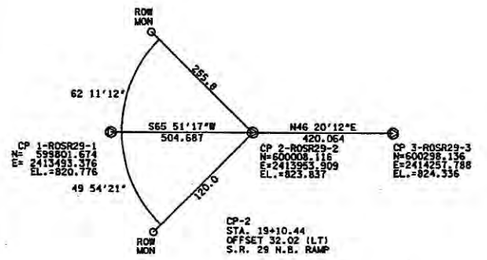
STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
BUREAU OF PLANNING & DEVELOPMENT

RIGHT-OF-WAY ACQUISITION TABLE

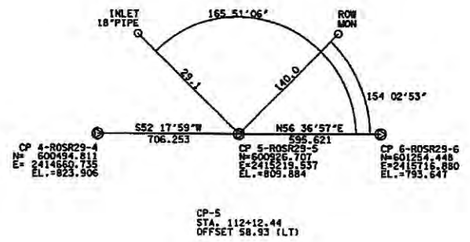
$$$$SYTIME$$$$$$$
$$$$DGNSPEC$$$$$$$

TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

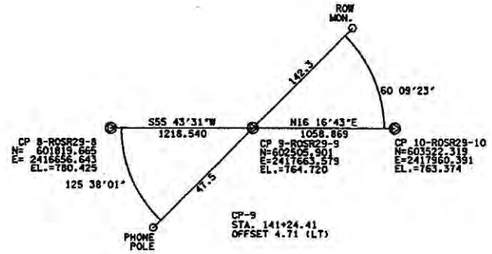
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2007	HPP-NH-29(36)	3C
R.O.W.	2007	HPP-NH-29(35)	



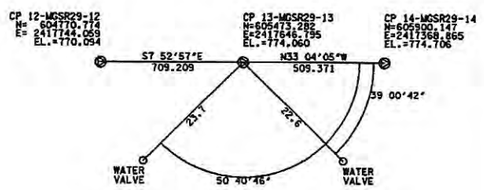
CP-2
STA. 19+10.44
OFFSET 32.02 (LT)
S.R. 29 N.B. RAMP



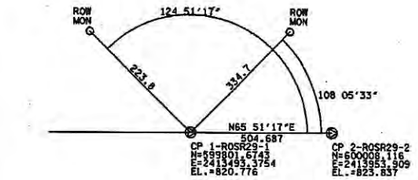
CP-5
STA. 112+12.44
OFFSET 58.93 (LT)



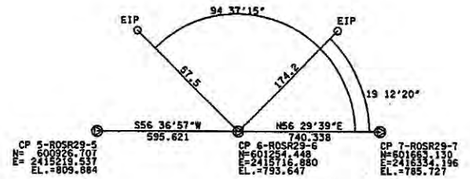
CP-9
STA. 141+24.41
OFFSET 4.71 (LT)



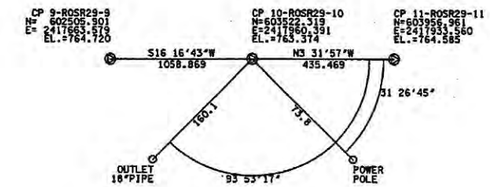
CP-13
STA. 172+32.41
OFFSET 6.23 (LT)



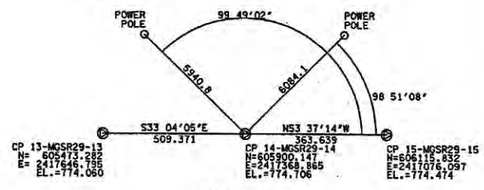
CP-1
STA. 14+07.23
OFFSET 75.76 (LT)
S.R. 29 N.B. RAMP



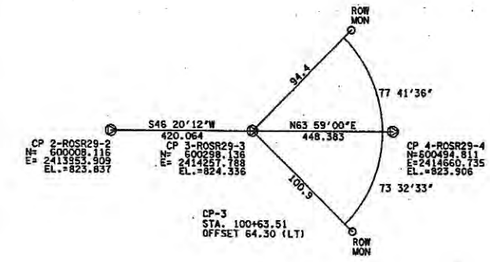
CP-6
STA. 118+08.06
OFFSET 58.41 (LT)



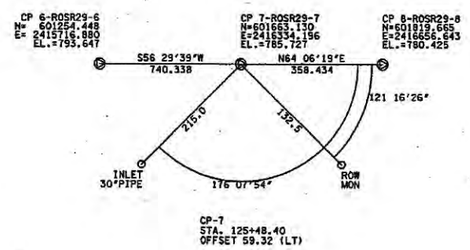
CP-10
STA. 152+50.87
OFFSET 58.47 (LT)



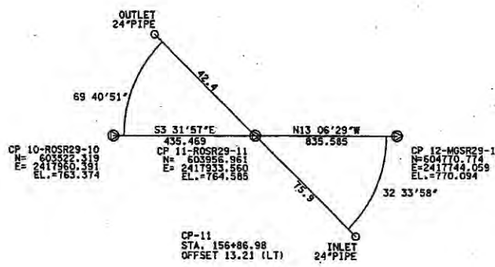
CP-14
STA. 177+49.73
OFFSET 12.72 (LT)



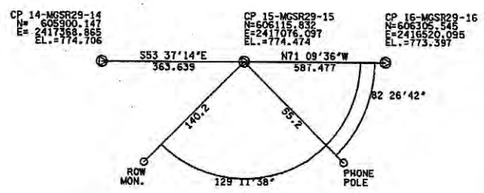
CP-3
STA. 100+63.51
OFFSET 64.30 (LT)



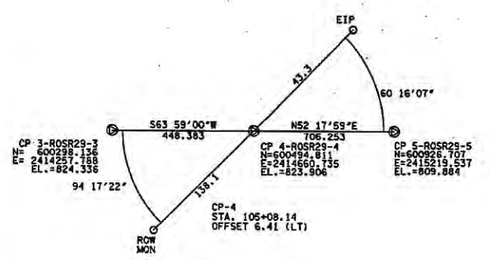
CP-7
STA. 125+48.40
OFFSET 59.32 (LT)



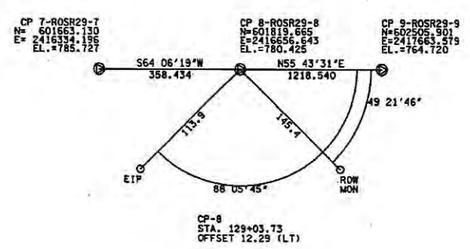
CP-11
STA. 156+86.98
OFFSET 13.21 (LT)



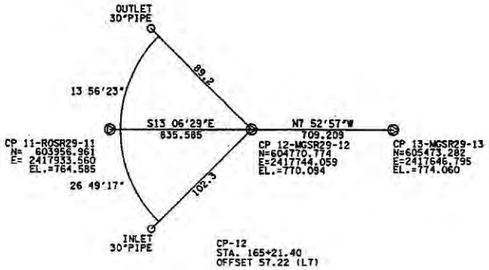
CP-15
STA. 181+18.80
OFFSET 14.25 (LT)



CP-4
STA. 105+08.14
OFFSET 6.41 (LT)



CP-8
STA. 129+03.73
OFFSET 12.29 (LT)



CP-12
STA. 165+21.40
OFFSET 57.22 (LT)

STATE OF TENNESSEE
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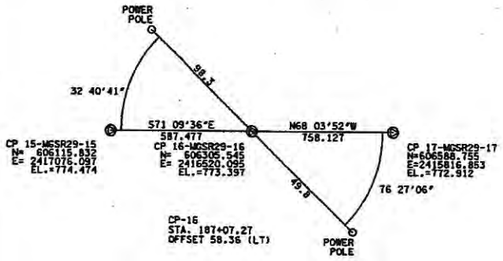
REFERENCE POINTS

N.T.S.

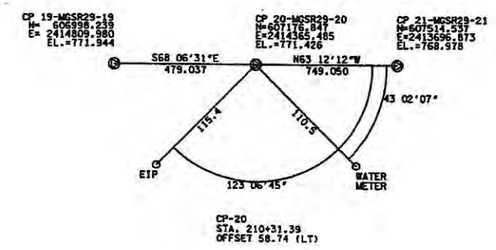
SYTIME
DGNSPEC
DGNSPEC

TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2007	HPP-NH-29(36)	3H
R.O.W.	2007	HPP-NH-29(35)	



CP-16
STA. 187+07.27
OFFSET 58.36 (LT)



CP-20
STA. 210+31.39
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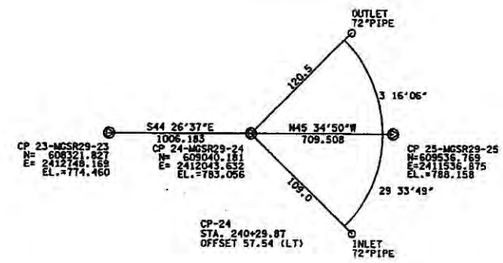
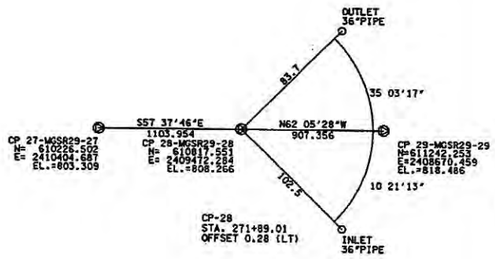
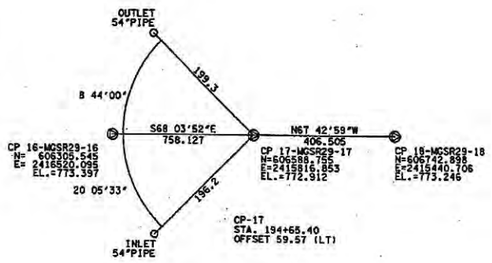


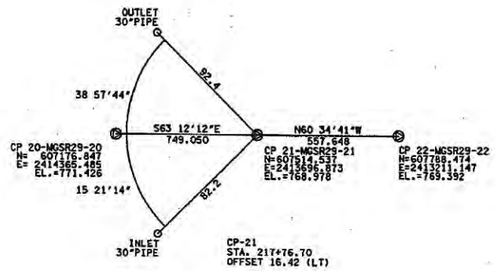
CP-24
STA. 240+29.87
OFFSET 57.54 (LT)



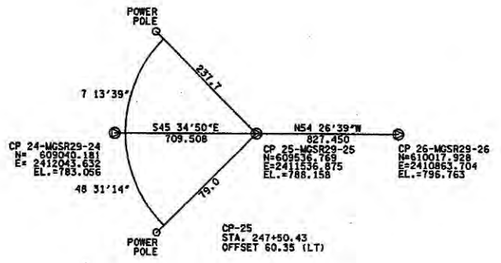
CP-28
STA. 271+89.01
OFFSET 0.28 (LT)



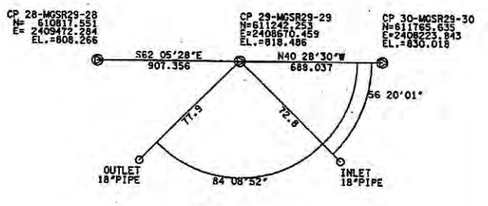
CP-17
STA. 194+65.40
OFFSET 59.57 (LT)



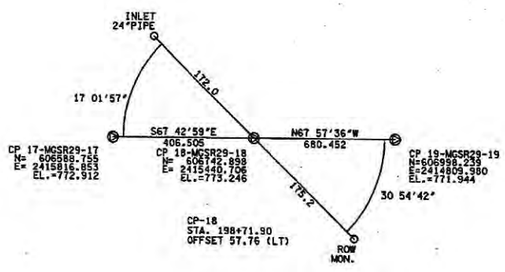
CP-21
STA. 217+76.70
OFFSET 16.42 (LT)



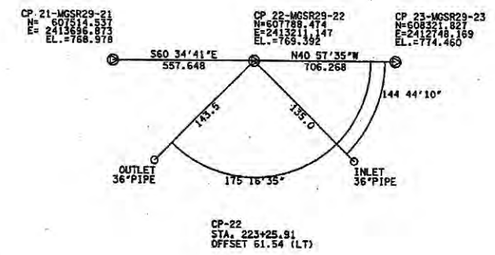
CP-25
STA. 247+50.43
OFFSET 60.35 (LT)



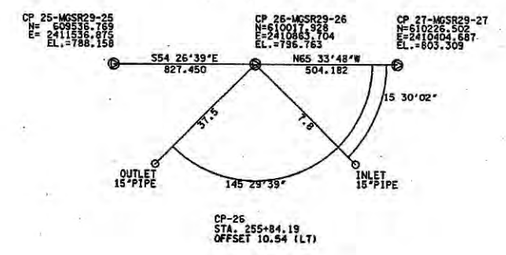
CP-29
STA. 280+92.02
OFFSET 38.40 (LT)



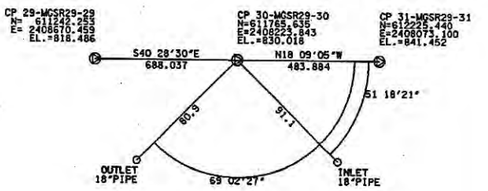
CP-18
STA. 198+71.90
OFFSET 57.76 (LT)



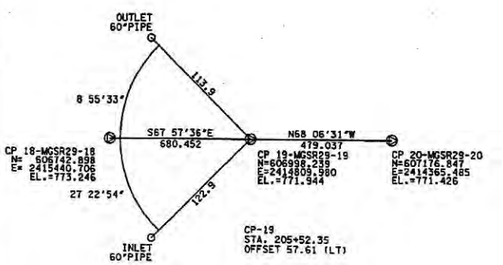
CP-22
STA. 223+25.91
OFFSET 61.54 (LT)



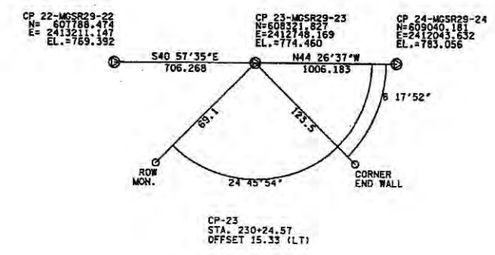
CP-26
STA. 255+84.19
OFFSET 10.54 (LT)



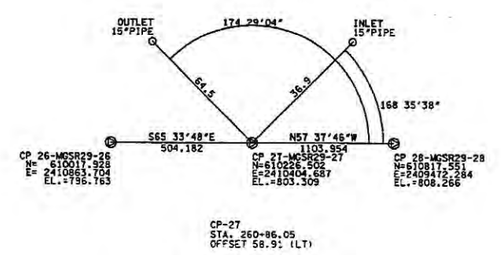
CP-30
STA. 287+67.11
OFFSET 43.64 (LT)



CP-19
STA. 205+52.35
OFFSET 57.61 (LT)



CP-23
STA. 230+24.57
OFFSET 15.33 (LT)



CP-27
STA. 260+86.05
OFFSET 58.91 (LT)

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
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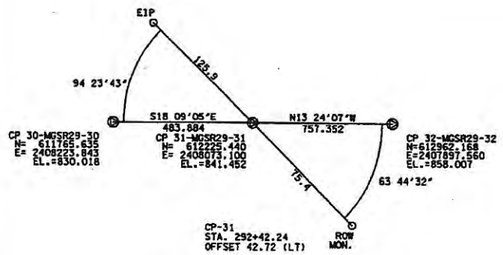
REFERENCE POINTS

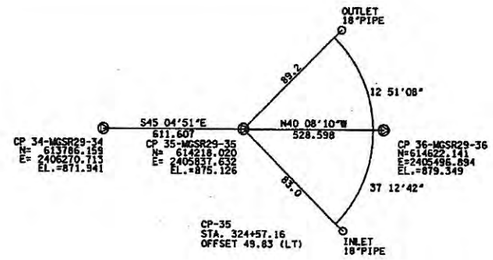
N.T.S.

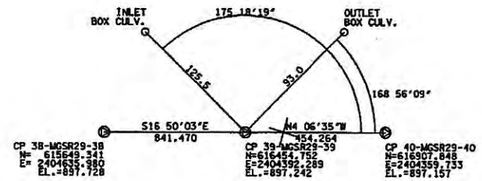
****SYTIME****
****DGNSPEC****

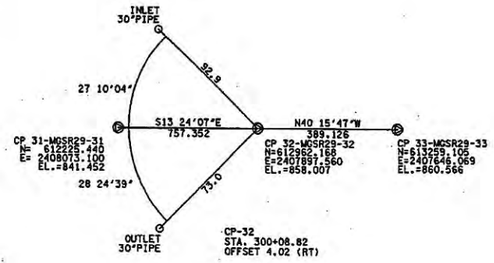
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

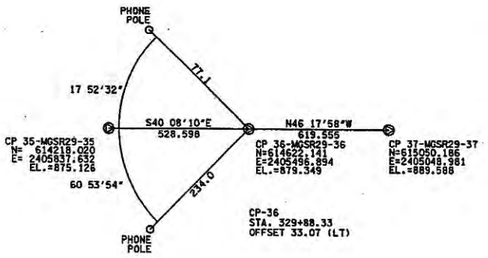
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2007	HPP-NH-29(36)	3J
R.O.W.	2007	HPP-NH-29(35)	

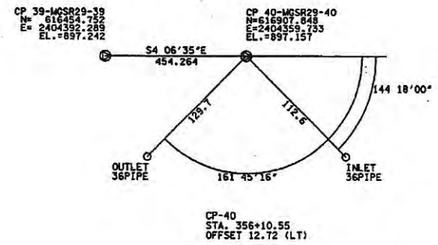


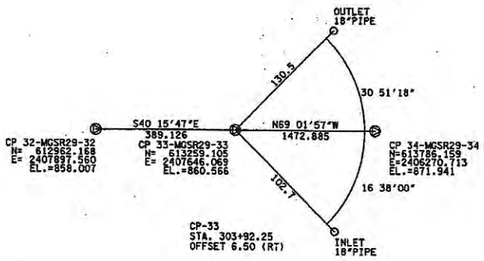


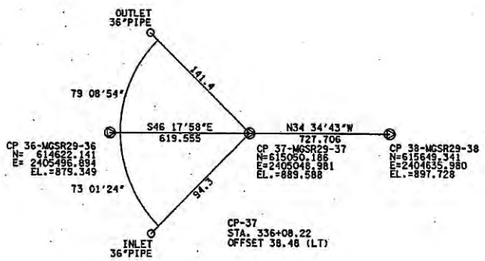


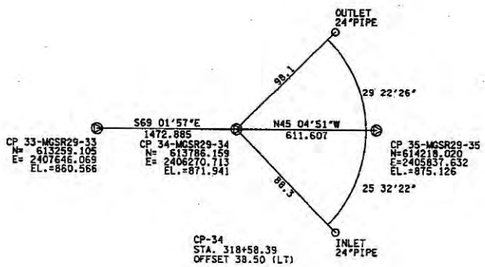


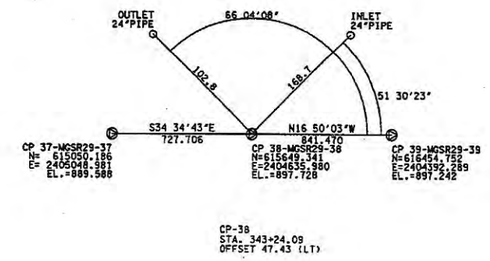












STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
BUREAU OF PLANNING & DEVELOPMENT

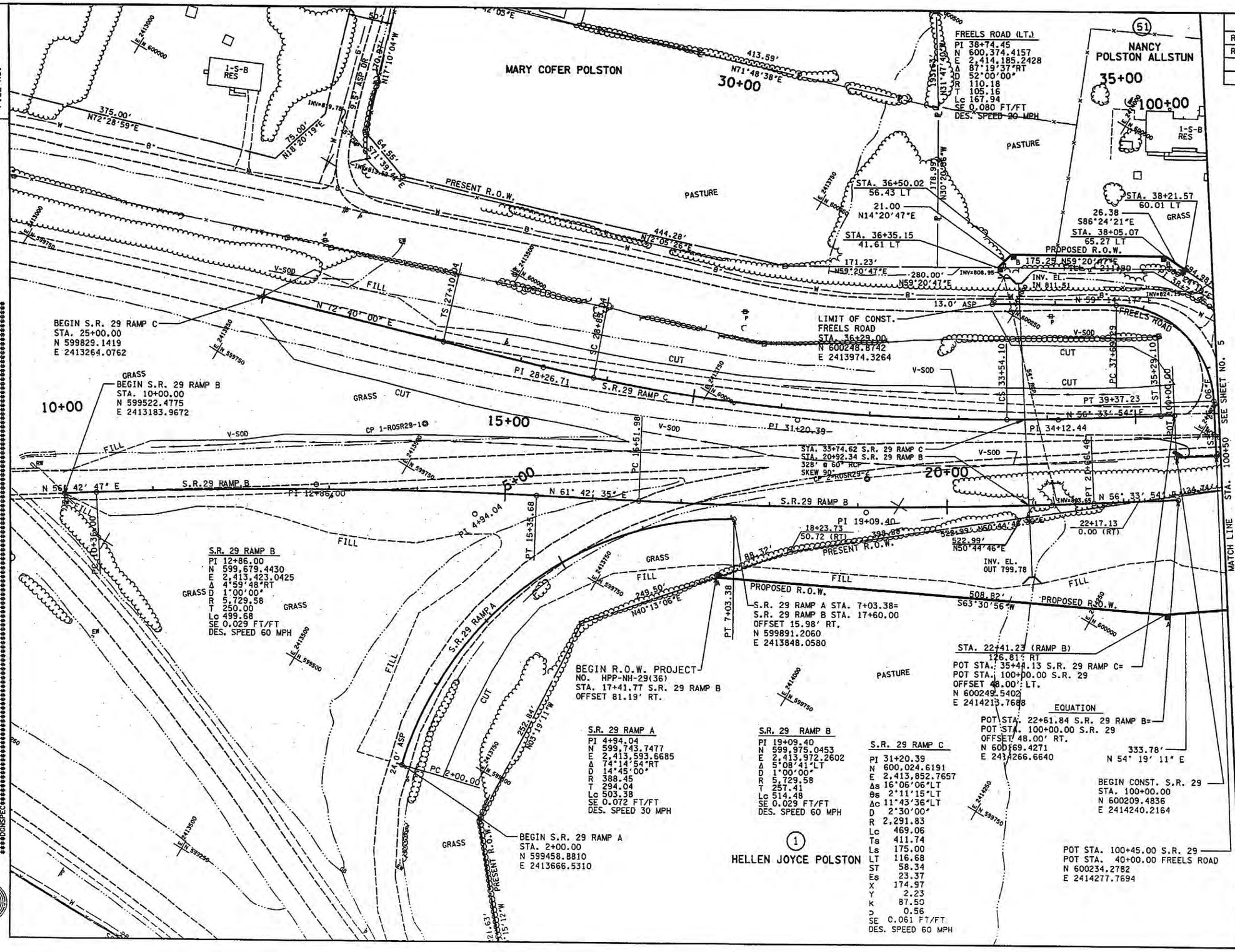
REFERENCE POINTS

N.T.S.

$$$$SYTIME$$$$

TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2007	HPP-NH-29(36)	4
R.O.W.	2007	HPP-NH-29(35)	



COORDINATE VALUES ARE NAD/83(1995) AND ARE DATUM ADJUSTED BY THE FACTOR 1.00000900 & TIED TO THE TGRN.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
BUREAU OF PLANNING & DEVELOPMENT

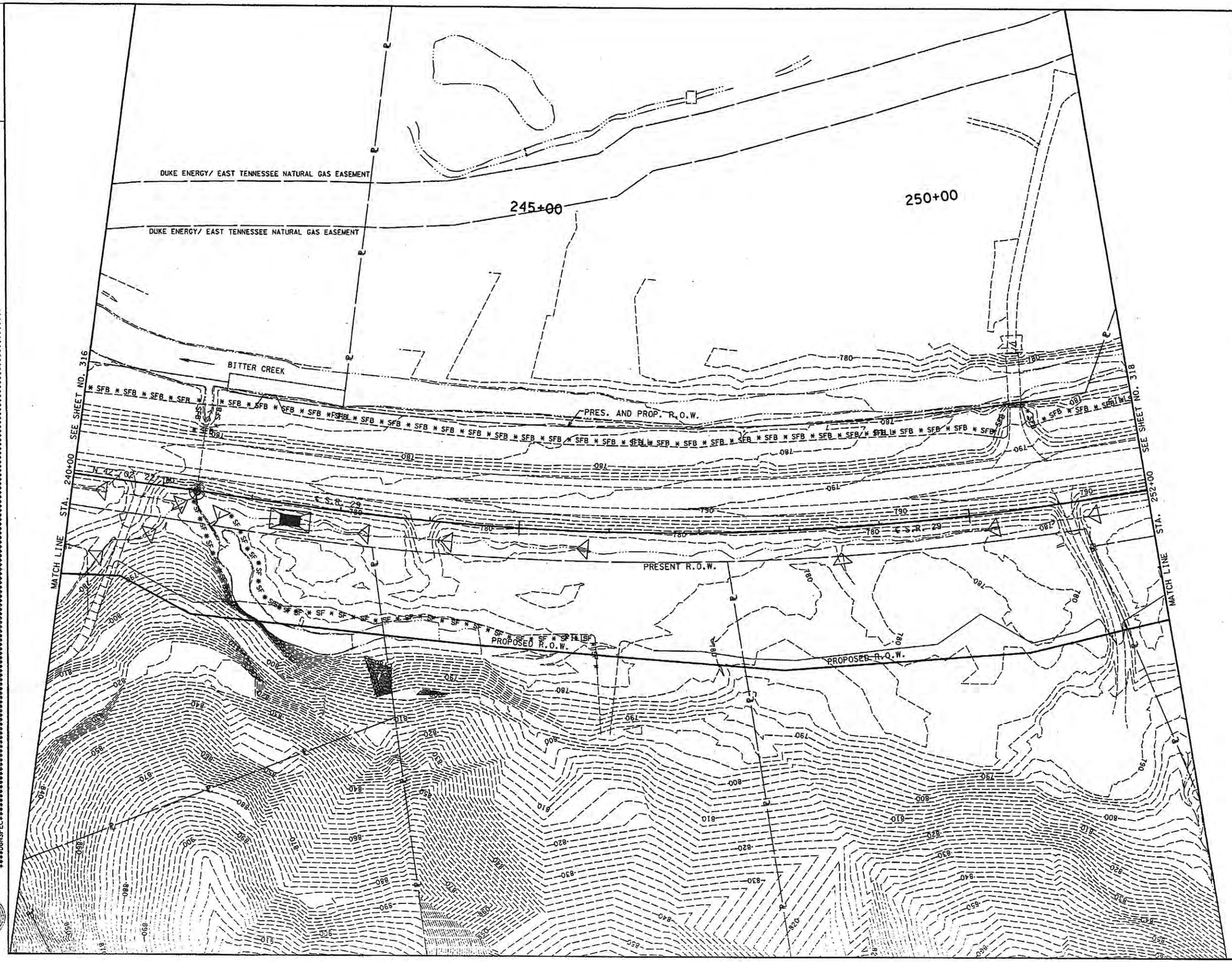
PRESENT LAYOUT

STA. 10+00 TO STA. 100+50

SCALE: 1"= 50'

TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2007	HPP-NH-29(36)	~~317~~
R.O.W.	2007	HPP-NH-29(35)	353



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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
BUREAU OF PLANNING & DEVELOPMENT

EROSION CONTROL PLAN PHASE I

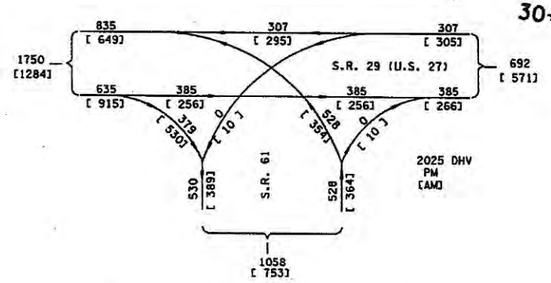
STA. 240+00 TO STA. 252+00

SCALE: 1"= 50'

$$SYTIME$$
$$DGNSPEC$$

TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2007	HPP-NH-29(36)	4A
R.O.W.	2007	HPP-NH-29(35)	



30+00

35+00

100+00

10+00

15+00

5+00

20+00

FREELS ROAD (LT.)
PI 38+74.45
N 600,374.4157
E 2,414,185.2428
Δ 87°19'37"RT
D 52°00'00"
R 110.18
T 105.16
Lc 167.94
SE 0.080 FT/FT
DES. SPEED 20 MPH

BEGIN TAPER (RT. & LT.)
STA. 36+29.00

END TAPER (RT. & LT.)
STA. 37+00.00

6.06'

6'

INV. EL. IN 811.51

PI 38+74.45

N 59° 14' 17" E

FREELS ROAD

LIMIT OF CONST.
FREELS ROAD
STA. 36+29.00
N 600248.8742
E 2413974.3264

V-SOD

CS 33+54.10

PC 37+69.23

ST 35+29.10

PT 39+37.23

N 56° 33' 54" E

PI 34+12.44

POT 100+00.00

30'R.

S33° 26' 06"E

SEE SHEET NO. 5A

STA. 100+50

MATCH LINE

BEGIN S.R. 29 RAMP C
STA. 25+00.00
N 599829.1419
E 2413264.0762

N 72° 40' 00" E

TS 27+10.04

SC 28+85.04

PI 28+26.71

S.R.29 RAMP C

PI 31+20.39

BEGIN S.R. 29 RAMP B
STA. 10+00.00
N 599522.4775
E 2413183.9672

N 56° 42' 47" E

S.R.29 RAMP,B

PI 12+86.00

24'

PC 16+51.98

N 61° 42' 35" E

S.R.29 RAMP B

PI 19+09.40

STA. 33+74.62 S.R. 29 RAMP C
STA. 20+92.34 S.R. 29 RAMP B
328' @ 60" RCP
SKEW 90°

PT 21+66.46

150'R.

30.00'

N 56° 33' 54" E

PC 10+36.00

PI 4+94.04

PT 15+35.68

S.R.29 RAMP A

16

PC 2+00.00

BEGIN S.R. 29 RAMP A
STA. 2+00.00
N 599458.8810
E 2413666.5310

PT 7+03.38

BEG. PAV. TAPER (RT.)

S.R. 29 RAMP A STA. 7+03.38=
S.R. 29 RAMP B STA. 17+60.00
OFFSET 15.98' RT,
N 599891.2060
E 2413848.0580

END PAV. TAPER (RT.)
STA. 19+60.00

BEGIN TAPER (LT.)
STA. 19+91.49

INV. EL. OUT 799.78

END TAPER (LT.)
STA. 21+11.49

POT STA. 35+44.13 S.R. 29 RAMP C=
POT STA. 100+00.00 S.R. 29
OFFSET 48.00' LT.
N 600249.5402
E 2414213.7688

EQUATION

POT STA. 22+61.84 S.R. 29 RAMP B=
POT STA. 100+00.00 S.R. 29
OFFSET 48.00' RT.
N 600169.4271
E 2414266.6640

BEGIN CONST. S.R. 29
STA. 100+00.00
N 600209.4836
E 2414240.2164

POT STA. 100+45.00 S.R. 29
POT STA. 40+00.00 FREELS ROAD
N 600234.2782
E 2414277.7694

S.R. 29 RAMP B
PI 12+86.00
N 599,679.4430
E 2,413,423.0425
Δ 4°59'48"RT
D 1°00'00"
R 5,729.58
T 250.00
Lc 499.68
SE 0.029 FT/FT
DES. SPEED 60 MPH

S.R. 29 RAMP A
PI 4+94.04
N 599,743.7477
E 2,413,593.6685
Δ 74°14'54"RT
D 14°45'00"
R 388.45
T 294.04
Lc 503.38
SE 0.072 FT/FT
DES. SPEED 30 MPH

S.R. 29 RAMP B
PI 19+09.40
N 599,975.0453
E 2,413,972.2602
Δ 5°08'41"LT
D 1°00'00"
R 5,729.58
T 257.41
Lc 514.48
SE 0.029 FT/FT
DES. SPEED 60 MPH

S.R. 29 RAMP C
PI 31+20.39
N 600,024.6191
E 2,413,852.7657
Δs 16°06'06"LT
θs 2°11'15"LT
Δc 11°43'36"LT
D 2°30'00"
R 2,291.83
Lc 469.06
Ts 411.74
Ls 175.00
LT 116.68
ST 58.34
Es 23.37
X 174.97
Y 2.23
k 87.50
p 0.56
SE 0.061 FT/FT
DES. SPEED 60 MPH

COORDINATE VALUES ARE NAD/83(1995) AND ARE DATUM ADJUSTED BY THE FACTOR L00000900 & TIED TO THE TGRN.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
BUREAU OF PLANNING & DEVELOPMENT

PROPOSED LAYOUT

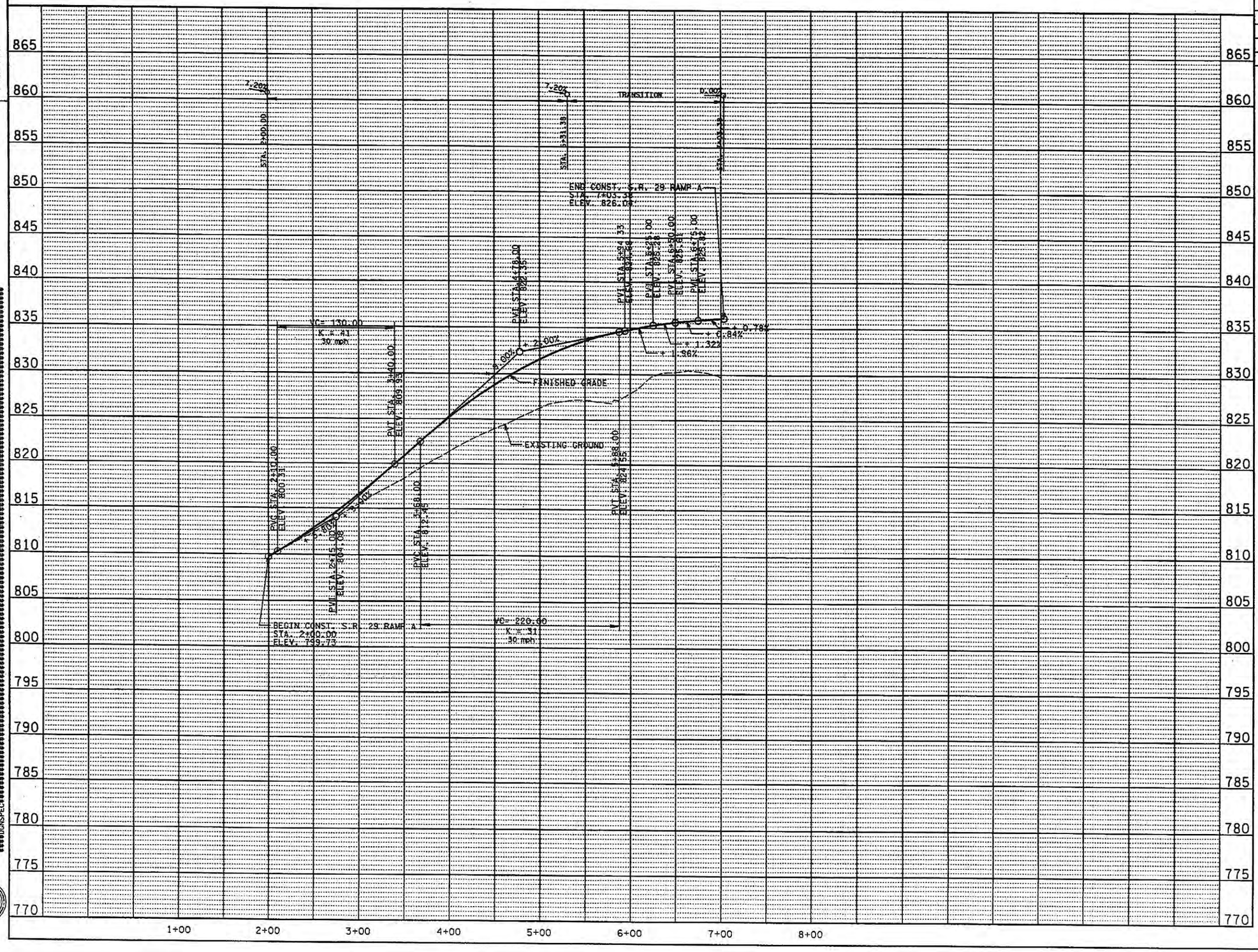
STA. 10+00 TO STA. 100+50

SCALE: 1"= 50'

$$$$SYTIME$$$$$$
$$$$DGNSPEC$$$$$$

TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2004	HPP-NH-29(36)	4B
R.O.W.	2004	HPP-NH-29(35)	



STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
BUREAU OF PLANNING & DEVELOPMENT

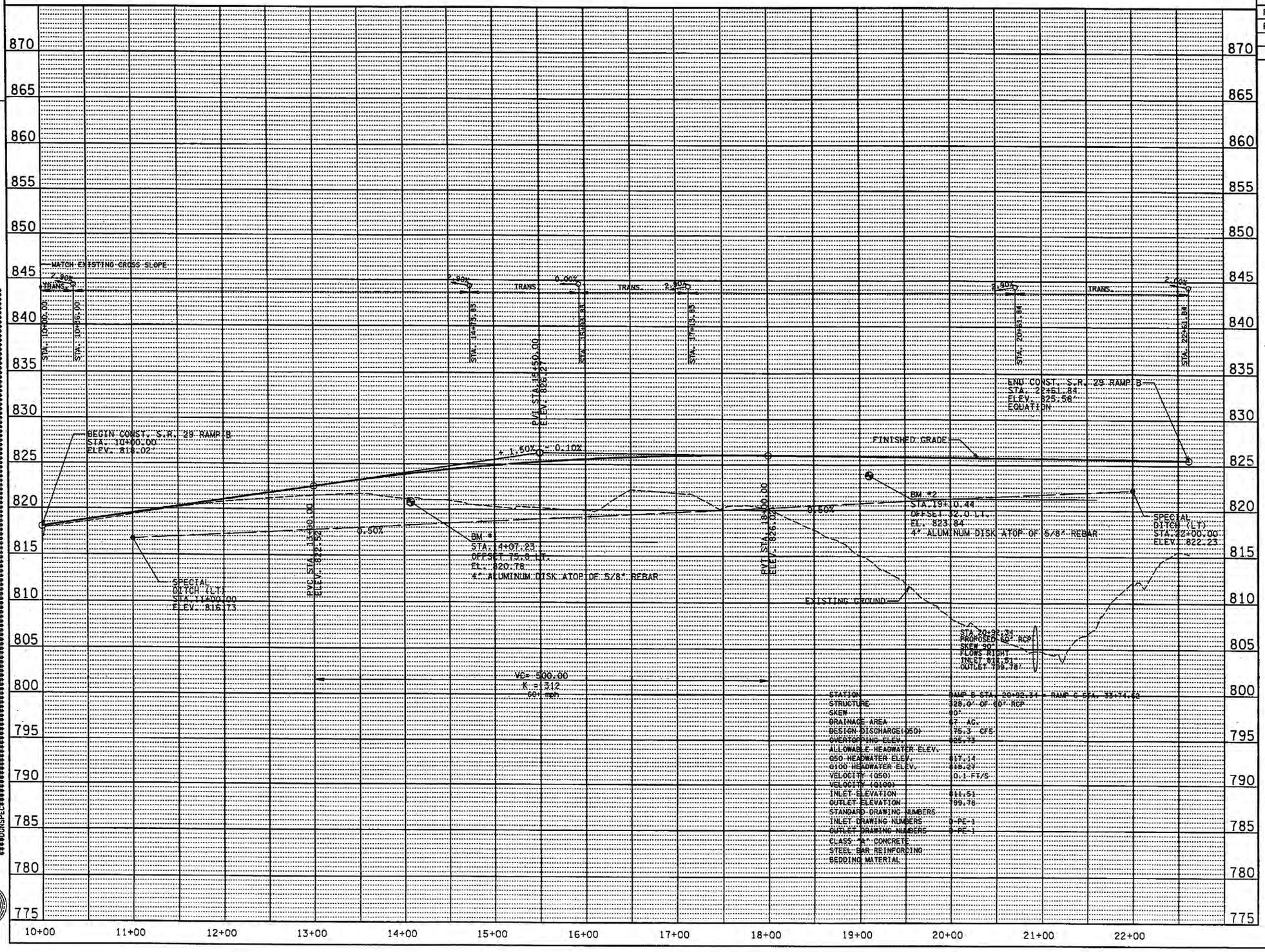
PROFILE

S.R. 29 RAMP A
STA. 2+00.00 TO STA. 7+03.38
SCALE: 1"= 50' HORIZ.
1"= 5' VERT.

$$$$SYTIME$$$$
$$$$DGNSPEC$$$$

TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2004	HPP-NH-29(36)	4C
R.O.W.	2004	HPP-NH-29(35)	



STATION	RAMP B STA. 20+82.34 - RAMP B STA. 22+71.43
STRUCTURE	128.0' OF 60" RCP
SKEW	90°
DRAINAGE AREA	47 AC.
DESIGN DISCHARGE(Q50)	75.3 CFS
OVERTOPPING ELEV.	825.73
ALLOWABLE HEADWATER ELEV.	
Q50 HEADWATER ELEV.	817.14
Q100 HEADWATER ELEV.	818.27
VELOCITY (Q50)	0.1 FT/S
VELOCITY (Q100)	
INLET ELEVATION	811.51
OUTLET ELEVATION	799.78
STANDARD DRAWING NUMBERS	
INLET DRAWING NUMBERS	D-PE-1
OUTLET DRAWING NUMBERS	D-PE-1
CLASS "A" CONCRETE	
STEEL BAR REINFORCING	
BEDDING MATERIAL	

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
BUREAU OF PLANNING & DEVELOPMENT

PROFILE

S.R. 29 RAMP B

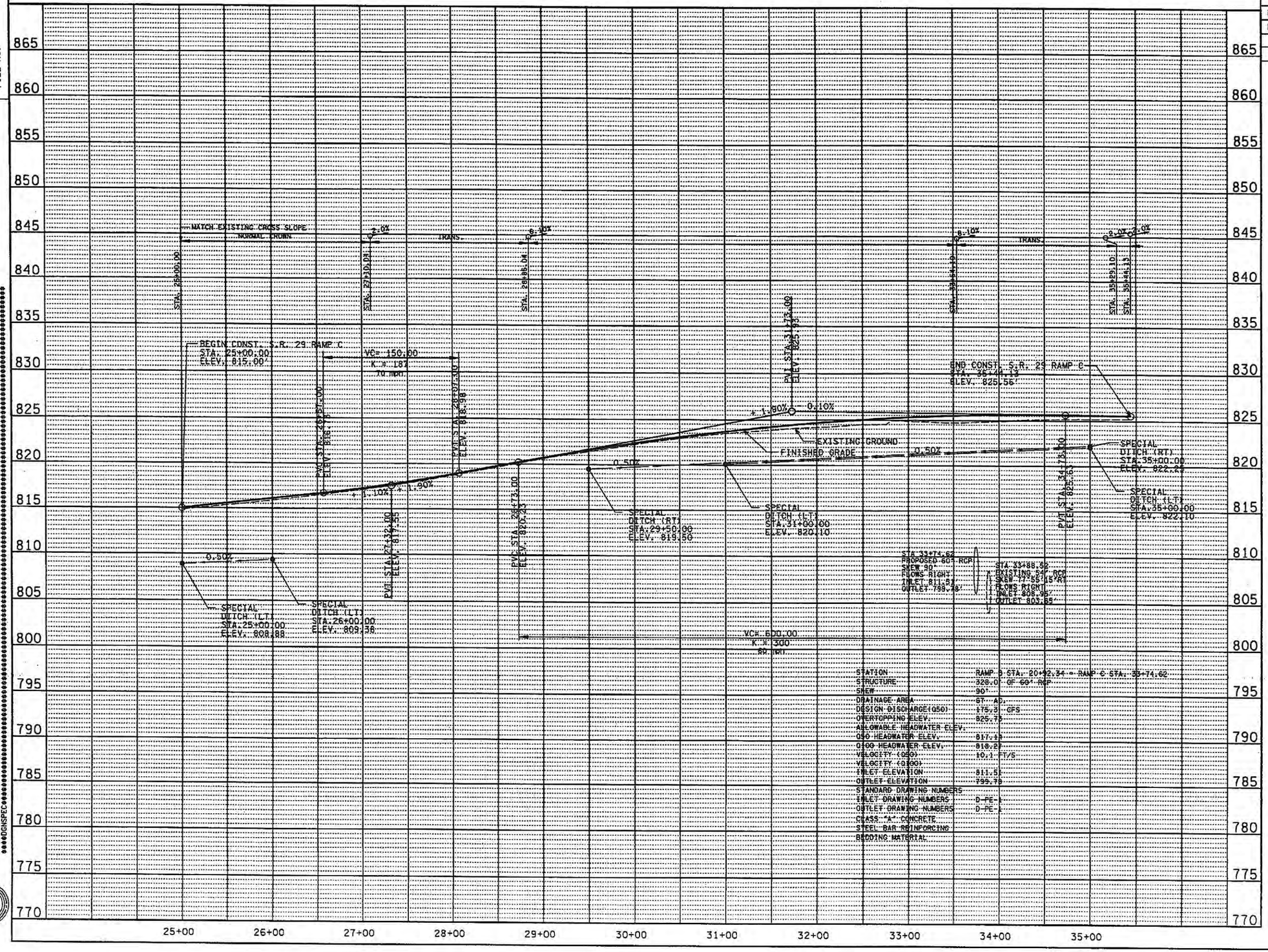
STA. 10+00 TO STA. 22+00

SCALE: 1"= 50' HORIZ.
1"= 5' VERT.

$$SYTIME$$
$$DGNSPEC$$

TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2004	HPP-NH-29(36)	4D
R.O.W.	2004	HPP-NH-29(35)	



STATION	RAMP C STA. 20+92.34 - RAMP C STA. 33+74.62
STRUCTURE	328.0' OF 60" RCP
SKEW	90°
DRAINAGE AREA	87 AC.
DESIGN DISCHARGE(Q50)	175.3 CFS
OVERTOPPING ELEV.	825.73
ALLOWABLE HEADWATER ELEV.	
Q50 HEADWATER ELEV.	817.13
Q100 HEADWATER ELEV.	818.27
VELOCITY (Q50)	10.1 FT/S
VELOCITY (Q100)	
INLET ELEVATION	811.57
OUTLET ELEVATION	799.79
STANDARD DRAWING NUMBERS	
INLET DRAWING NUMBERS	D-PE-1
OUTLET DRAWING NUMBERS	D-PE-1
CLASS "A" CONCRETE	
STEEL BAR REINFORCING	
BEDDING MATERIAL	

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
BUREAU OF PLANNING & DEVELOPMENT

PROFILE

S.R. 29 RAMP C

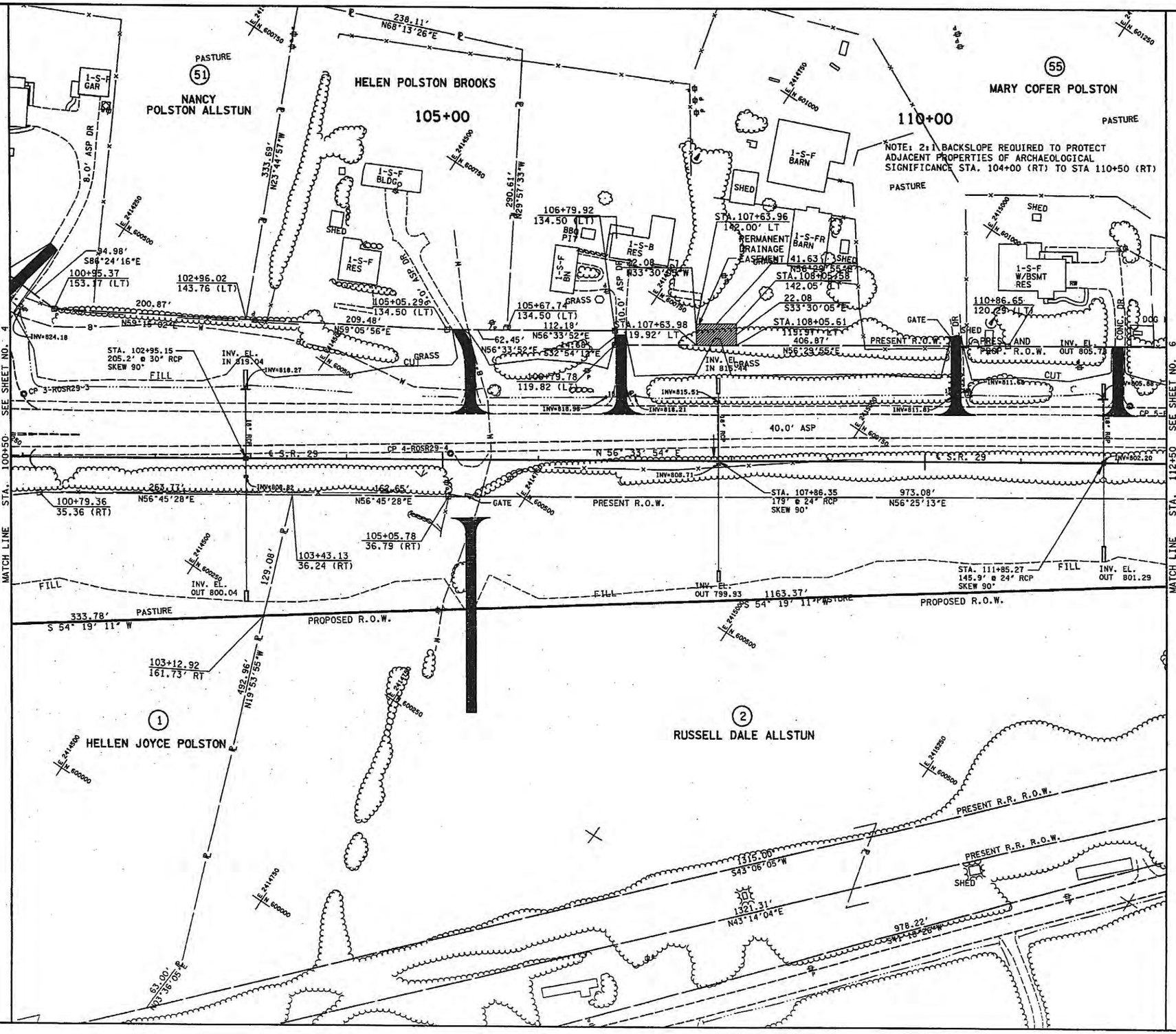
STA. 25+00 TO STA. 35+44.13

SCALE: 1"= 50' HORIZ.
1"= 5' VERT.

$$STYTIME$$
$$DGNSPEC$$

TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2007	HPP-NH-29(36)	5
R.O.W.	2007	HPP-NH-29(35)	



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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
BUREAU OF PLANNING & DEVELOPMENT

PRESENT LAYOUT

STA. 100+50 TO STA. 112+50

SCALE: 1"= 50'

$$SYTME$$
$$DGNSPEC$$

TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2007	HPP-NH-29(36)	5A
R.O.W.	2007	HPP-NH-29(35)	

105+00

110+00

NOTE: 2:1 BACKSLOPE REQUIRED TO PROTECT ADJACENT PROPERTIES OF ARCHAEOLOGICAL SIGNIFICANCE STA. 104+00 (RT) TO STA 110+50 (RT)

SEE SHEET NO. 4A

SEE SHEET NO. 6A

STA. 100+50

STA. 112+50

MATCH LINE

MATCH LINE

STA. 38+52.52 10.0' PVT. DR.

LIMIT OF CONST. STA. 11+13.00

STA. 105+29.17 10.0' PVT. DR.

LIMIT OF CONST. STA. 11+20.00

STA. 106+86.25 10.0' PVT. DR.

LIMIT OF CONST. STA. 11+30.00

LIMIT OF CONST. STA. 11+30.00

STA. 110+32.49 10.0' PVT. DR.

LIMIT OF CONST. STA. 11+20.00

STA. 112+00.00 10.0' PVT. DR.

STA. 112+17.00

STA. 11+57.00

INV. EL. OUT 805.78

STA. 102+95.15
205.2' @ 30° RCP
SKEW 90°

INV. EL. IN 819.04

STA. 105+40.18
MEDIAN DRAIN
INV. EL. 817.63
CR. EL. 821.88

1 #38

INV. EL. IN 815.44

STA. 107+86.35
MEDIAN DRAIN
GR. EL. 818.33
INV. EL. IN 809.67
OUT 809.25

2 #38

30'R.

SIGHT TRIANGLE

R 45'

R 15'

24'R.

10'R.

150'R.

24.52'

℄ S.R. 29

N 56° 33' 54" E

℄ S.R. 29

24' R.

18" RCP

24'R.

STA. 107+86.35
179' @ 24" RCP
SKEW 90°

24' 24' 24'

36'

24' 24' 24'

60:1 TAPER

STA. 102+95.15
MEDIAN DRAIN
GR. EL. 822.84
INV. EL. IN 812.67
OUT 812.22

1A #38

INV. EL. OUT 800.04

INV. EL. OUT 799.93

INV. EL. 808.67

3 EW

STA 111+85.27
MANHOLE
GR. EL. 810.94
INV.ELE.
IN 803.88
IN 805.42
OUT 803.73

4 MH

STA. 111+85.27
145.9' @ 24" RCP
SKEW 90°

INV. EL. OUT 801.29

BEG. TAPER (RT.)
STA. 104+08.16

STA. 105+86.00

STA. 106+46.00

END TAPER (RT.)
STA. 111+28.16

STA. 105+29.17
10.0' FIELD ENT.

LIMIT OF CONST.
STA. 12+59.00

N

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
BUREAU OF PLANNING & DEVELOPMENT

PROPOSED LAYOUT

STA. 100+50 TO STA. 112+50

SCALE: 1"= 50'

$$$$SYTIME$$$$$$
$$$$DGNSPEC$$$$$$

TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2004	HPP-NH-29(36)	5B
R.O.W.	2004	HPP-NH-29(35)	

EXC. (UNCL.) COMMON 2926397 C.Y. (INCL. 99,778 C.Y. TOP SOIL FROM EXC. AREAS & 42,762 C.Y. FROM EMBANKMENT AREA; 12,167 C.Y. FROM SIDEROADS AND RAMPS; 2,428 C.Y. FROM PRIVATE DRIVES)

EMB. 492705 C.Y. (INCLUDES 30,43; C.Y. SIDEROADS & RAMPS; 7,696 C.Y. FROM PRIVATE DRIVES; 99,778 C.Y. TO REPLACE STRIPPED TOPSOIL)

SHR. 15 %
SW. 15 %

NORMAL CROWN

FINISHED GRADE

EXISTING GROUND

STA. 100+45.00 29.8' RT.
ELEV. 824.00

STA 101+63.65
LOW WIRE ELEV= 845.01'
2 - POWER

STA 104+97.85
LOW WIRE ELEV= 844.72'
4 - POWER
1 - CATV

STA 105+27.58
LOW WIRE ELEV= 844.10'
1 - TELEPHONE

STA 104+63.75
LOW WIRE ELEV= 840.96'
4 - POWER
1 - TELEPHONE
1 - CATV

BM #3
STA. 100+63.51
OFFSET 63.4 LT.
EL. 824.34
4" ALUMINUM DISK ATOP OF 5/8" REBAR

BM #4
STA. 105+08.14
OFFSET 6.4 LT.
EL. 823.61
4" ALUMINUM DISK ATOP OF ¾" REBAR

BM #5
STA. 112+12.44
OFFSET 58.9 LT.
EL. 803.88
4" ALUMINUM DISK ATOP OF 5/8" REBAR

0.10%

2.76%

8.0%

BEGIN CONST. S.R. 29
STA. 100+00.00
ELEV. 826.04

STA 102+15.15
EXISTING 18" RCP
SKEW 89°44'27"RT.
FLOWS RIGHT
INLET 818.27'
OUTLET 808.82'

STA 105+49.81
8" WATER LINE

STA 107+86.35
EXISTING 18" RCP
SKEW 89°31'32"RT.
FLOWS RIGHT
INLET 815.91'
OUTLET 806.71'

STA 111+85.27
EXISTING 18" RCP
SKEW 89°04'31"RT.
FLOWS RIGHT
INLET 805.88'
OUTLET 802.20'

PVC STA. 103+60.00 ELEV. 825.66

PVT STA. 106+50.00 ELEV. 827.37

PVT STA. 109+50.00 ELEV. 808.72

STATION	102+95.15
STRUCTURE	208.2' OF 30" RCP
SKEW	90°
DRAINAGE AREA	5.7 AC.
DESIGN DISCHARGE(Q50)	18.2 CFS
DESIGN DISCHARGE (Q100)	19.4 CFS
OVERTOPPING ELEV.	823.77
ALLOWABLE HEADWATER ELEV.	824.79
Q50 HEADWATER ELEV.	820.94
Q100 HEADWATER ELEV.	821.08
VELOCITY (Q50)	5.45 FT/S
VELOCITY (Q100)	5.65 FT/S
INLET ELEVATION	818.04
OUTLET ELEVATION	800.04
STANDARD DRAWING NUMBERS	
INLET DRAWING NUMBERS	D-PE-6B(1)
OUTLET DRAWING NUMBERS	D-PE-3B(1)
CLASS "A" CONCRETE	
STEEL BAR REINFORCING	
BEDDING MATERIAL	

STATION	107+86.35
STRUCTURE	175' OF 24" RCP
SKEW	90°
DRAINAGE AREA	5.7 AC.
DESIGN DISCHARGE(Q50)	12.5 CFS
DESIGN DISCHARGE (Q100)	13.7 CFS
OVERTOPPING ELEV.	819.28
ALLOWABLE HEADWATER ELEV.	820.30
Q50 HEADWATER ELEV.	817.24
Q100 HEADWATER ELEV.	817.56
VELOCITY (Q50)	5.45 FT/S
VELOCITY (Q100)	5.55 FT/S
INLET ELEVATION	815.84
OUTLET ELEVATION	799.33
STANDARD DRAWING NUMBERS	
INLET DRAWING NUMBERS	D-PE-6B(1)
OUTLET DRAWING NUMBERS	D-PE-3B(1)
CLASS "A" CONCRETE	
STEEL BAR REINFORCING	
BEDDING MATERIAL	

VC= 600.00
K = 226
60 mph

STATION	111+85.27
STRUCTURE	145.9' OF 24" RCP
SKEW	90°
DRAINAGE AREA	5.7 AC.
DESIGN DISCHARGE(Q50)	8.6 CFS
DESIGN DISCHARGE (Q100)	9.2 CFS
OVERTOPPING ELEV.	808.98
ALLOWABLE HEADWATER ELEV.	810.48
Q50 HEADWATER ELEV.	807.29
Q100 HEADWATER ELEV.	807.39
VELOCITY (Q50)	4.57 FT/S
VELOCITY (Q100)	4.63 FT/S
INLET ELEVATION	805.80
OUTLET ELEVATION	800.72
STANDARD DRAWING NUMBERS	
INLET DRAWING NUMBERS	D-PE-6B(1)
OUTLET DRAWING NUMBERS	D-PE-4B(1)
CLASS "A" CONCRETE	
STEEL BAR REINFORCING	
BEDDING MATERIAL	

865 860 855 850 845 840 835 830 825 820 815 810 805 800 795 790 785 780 775 770

100+00 101+00 102+00 103+00 104+00 105+00 106+00 107+00 108+00 109+00 110+00 111+00 112+00

$$SYTIME$$
$$DONSPEC$$

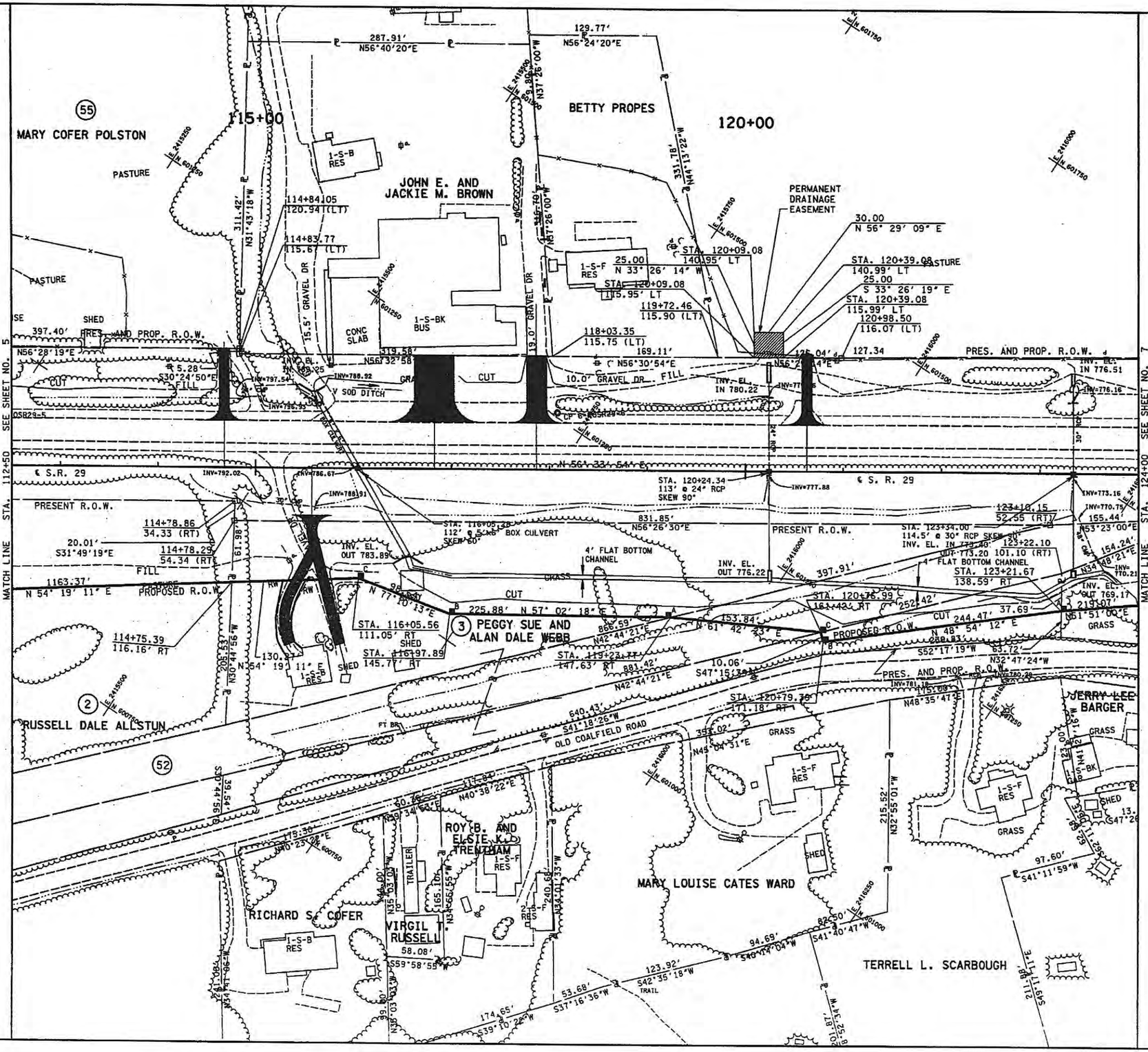
STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
BUREAU OF PLANNING & DEVELOPMENT

PROFILE

STA. 100+00 TO STA. 112+50
SCALE: 1"= 50' HORIZ.
1"= 5' VERT.

TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2007	HPP-NH-29(36)	6
R.O.W.	2007	HPP-NH-29(35)	



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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
BUREAU OF PLANNING & DEVELOPMENT

PRESENT LAYOUT

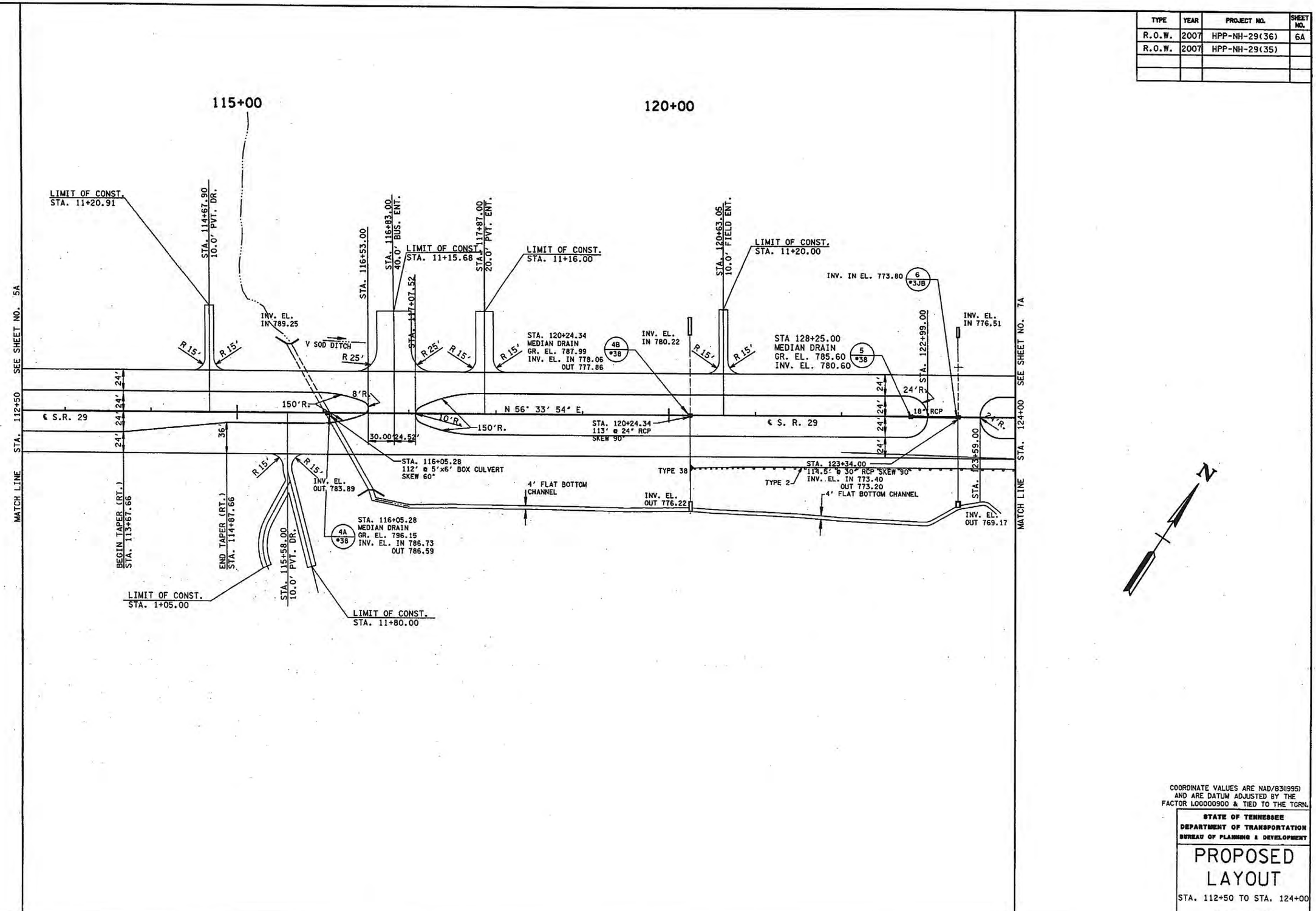
STA. 112+50 TO STA. 124+00

SCALE: 1"= 50'

$$SYTIME$$
$$DONSPEC$$

TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2007	HPP-NH-29(36)	6A
R.O.W.	2007	HPP-NH-29(35)	



COORDINATE VALUES ARE NAD/83(1995) AND ARE DATUM ADJUSTED BY THE FACTOR L00000900 & TIED TO THE TGRN.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
BUREAU OF PLANNING & DEVELOPMENT

PROPOSED LAYOUT

STA. 112+50 TO STA. 124+00

SCALE: 1"= 50'

****SYTIME****
****DGNSPEC****

TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2004	HPP-NH-29(36)	6B
R.O.W.	2004	HPP-NH-29(35)	

NORMAL CROWN

VC= 450.00
K = 225
60 mph

STA. 114+82.67
LOW WIRE ELEV. 816.78'
POWER

FINISHED GRADE

EXISTING GROUND

SPECIAL DITCH (RT)
STA. 116+00.00
ELEV. 793.32

0.50%

SPECIAL DITCH (RT)
STA. 118+50.00
ELEV. 793.09

2.75%

0.75%

BM #6
STA. 118+08.06
OFFSET 58.4 LT.
EL. 793.65
4" ALUMINUM DISK ATOP OF 5/8" REBAR

PVI STA. 118+80.00
ELEV. 791.83

EXISTING STRUCTURE
STA. 116+05.28
EXISTING 5'-6" BOX CULVERT
SKEW 59°36'11" RT
FLOWS RIGHT
INLET 788.92'
OUTLET 786.67'

T-SOD
STA. 116+61.00
ELEV. 783.55

0.50%

STATION	116+05.28
STRUCTURE	5'-0" X 6'-0" X 112' R.C.B.C.
SKEW	60° (RT.)
DRAINAGE AREA	173.4 AC.
DESIGN DISCHARGE (Q50)	180.2 CFS
DESIGN DISCHARGE (Q100)	215.4 CFS
OVERTOPPING ELEV.	798.19
ALLOWABLE HEADWATER ELEV.	795.69
Q50 HEADWATER ELEV.	794.58
Q100 HEADWATER ELEV.	795.20
VELOCITY (Q50)	10.0 FT/S
VELOCITY (Q100)	10.8 FT/S
INLET ELEVATION	788.25
OUTLET ELEVATION	783.69
STANDARD DRAWING NUMBERS	C-2-84
INLET DRAWING NUMBERS	
OUTLET DRAWING NUMBERS	
CLASS "A" CONCRETE	
STEEL BAR REINFORCING	
BEDDING MATERIAL	

STA #20+24.34
EXISTING 24" RCP
SKEW 89°50'48" RT
FLOWS RIGHT
INLET 779.86'
OUTLET 777.88'

STATION	120+24.34
STRUCTURE	113.5' OF 24" RCP
SKEW	90°
DRAINAGE AREA	7.1 AC.
DESIGN DISCHARGE (Q50)	10.2 CFS
DESIGN DISCHARGE (Q100)	11.1 CFS
OVERTOPPING ELEV.	788.9
ALLOWABLE HEADWATER ELEV.	790.4
Q50 HEADWATER ELEV.	782.09
Q100 HEADWATER ELEV.	782.1
VELOCITY (Q50)	5.82 FT/S
VELOCITY (Q100)	5.14 FT/S
INLET ELEVATION	780.22
OUTLET ELEVATION	776.22
STANDARD DRAWING NUMBERS	
INLET DRAWING NUMBERS	D-PE-18(1)
OUTLET DRAWING NUMBERS	D-PE-18(12
CLASS "A" CONCRETE	
STEEL BAR REINFORCING	
BEDDING MATERIAL	

STA 122+79.65
PROPOSED 18" RCP
TOP OF GRATE 785.60'
OUTLET 780.60
NO. 3B CATCH BASIN

STA 123+
EXISTING
SKEW 89°
FLOWS RI
INLET 77
OUTLET 7

T-SOD
STA. 123+65.66
ELEV. 768.44

2.22%

STATION	123+34.00
STRUCTURE	114.6' OF 30" RCP
SKEW	80°
DRAINAGE AREA	5.7 AC.
DESIGN DISCHARGE (Q50)	8.3 CFS
DESIGN DISCHARGE (Q100)	9.0 CFS
OVERTOPPING ELEV.	786.45
ALLOWABLE HEADWATER ELEV.	787.96
Q50 HEADWATER ELEV.	777.75
Q100 HEADWATER ELEV.	777.83
VELOCITY (Q50)	3.96 FT/S
VELOCITY (Q100)	4.32 FT/S
INLET ELEVATION	776.61
OUTLET ELEVATION	769.17
STANDARD DRAWING NUMBERS	
INLET DRAWING NUMBERS	D-PE-18(1)
OUTLET DRAWING NUMBERS	D-PE-1
CLASS "A" CONCRETE	
STEEL BAR REINFORCING	
BEDDING MATERIAL	

840 835 830 825 820 815 810 805 800 795 790 785 780 775 770 765 760 755 750 745

112+00 113+00 114+00 115+00 116+00 117+00 118+00 119+00 120+00 121+00 122+00 123+00 124+00

$$STYTIME
$$DGNSPEC

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
BUREAU OF PLANNING & DEVELOPMENT

PROFILE

STA. 112+50 TO STA. 124+00
SCALE: 1"= 50' HORIZ.
1"= 5' VERT.

TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2007	HPP-NH-29(36)	353
R.O.W.	2007	HPP-NH-29(35)	354

255+00

260+00

PRES. AND PROP. R.O.W.

PRESENT R.O.W.

CUT

FILL

PROPOSED R.O.W.

N 60° 05' 30" W

S.R. 29

MATCH LINE STA. 252+00 SEE SHEET NO. 317

MATCH LINE STA. 264+00 SEE SHEET NO. 319

COORDINATE VALUES ARE NAD/83(1995) AND ARE DATUM ADJUSTED BY THE FACTOR 1.00000900 & TIED TO THE TGRN.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
BUREAU OF PLANNING & DEVELOPMENT

EROSION CONTROL PLAN PHASE I

STA. 252+00 TO STA. 264+00

SCALE: 1"= 50'

$$SYTIME$$

$$DGNSPEC$$

TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2007	HPP-NH-29(36)	7
R.O.W.	2007	HPP-NH-29(35)	

125+00
130+00
135+00
124+00
136+00

JOHN E. AND JACKIE M. BROWN (4)
JOHN E. AND JACKIE M. BROWN (4)
STANLEY RAY AND MELISSA B. BURNEY, JR. (5)
STANLEY RAY AND MELISSA BROWN BURNEY, JR.
JAMES R. HULING (6)
JERRY LEE BARGER
BUENDA GUINN (7)
DAVID AND SONYA GUNTHER (8)

ROCK BRIDGE ROAD (LT.)
PI 38+24.96
N 601,966.3199
E 2,416,555.3430
Δ 64°17'24"LT
D 50°00'00"
R 114.59
T 72.01
Lc 128.58
SE 0.080 FT/FT
DES. SPEED 20 MPH

POT STA. 129+00.00 S.R. 29 =
POT STA. 40+00.00 ROCK BRIDGE ROAD
N 601807.3574
E 2416660.2989

ROCK BRIDGE ROAD (RT.)
PI 41+13.82
N 601,712.3739
E 2,416,723.0123
Δ 44°31'28"RT
D 50°00'00"
R 114.59
T 46.91
Lc 89.05
SE 0.080 FT/FT
DES. SPEED 20 MPH

ROCK BRIDGE ROAD (RT.)
PI 42+48.70
N 601,575.3286
E 2,416,696.1513
Δ 24°20'24"LT
D 20°00'00"
R 286.48
T 61.78
Lc 121.70
SE 0.057 FT/FT
DES. SPEED 20 MPH

BEGIN CONST.
TEDDER LANE
STA. 1+50.00
N 601630.4721
E 2417138.0550

TEDDER LANE
PI 3+67.01
N 601,842.8109
E 2,417,783.754
Δ 44°24'28"RT
D 20°00'00"
R 286.48
T 106.30
Lc 201.85
SE 0.080 FT/FT
DES. SPEED 30 MPH

LIMIT OF CONST.
ROCK BRIDGE ROAD 1-S-F RES
STA. 36+57.00
N 602110.5049
E 2416641.4823

LIMIT OF CONST.
ROCK BRIDGE ROAD
STA. 42+75.00
N 601548.2937
E 2416704.5419

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
BUREAU OF PLANNING & DEVELOPMENT

PRESENT LAYOUT

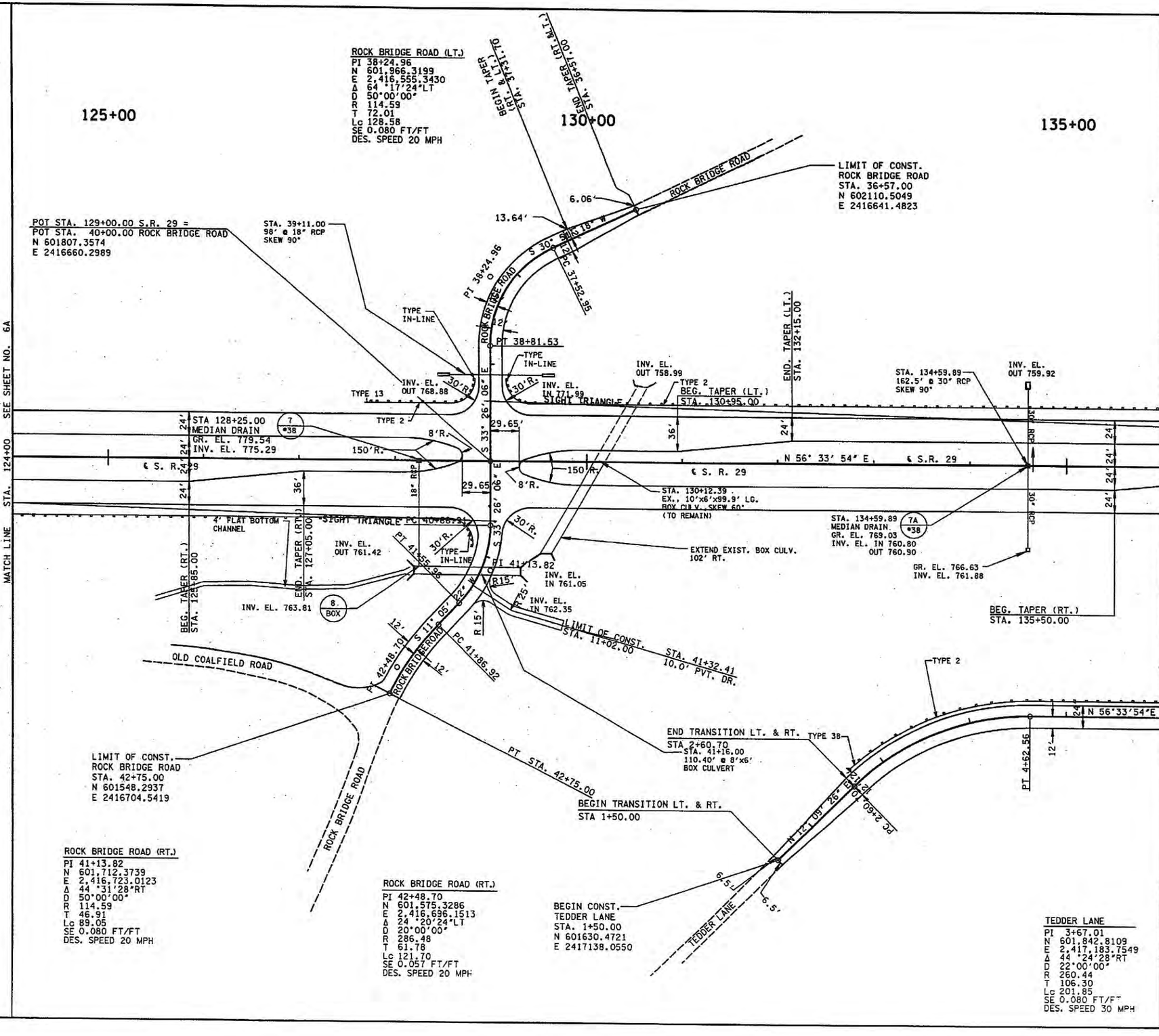
STA. 124+00 TO STA. 136+00

SCALE: 1"= 50'

$$SYTIME$$
$$DGNSPEC$$

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2007	HPP-NH-29(36)	7A
R.O.W.	2007	HPP-NH-29(35)	

TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.



COORDINATE VALUES ARE NAD/83(1995) AND ARE DATUM ADJUSTED BY THE FACTOR 1.00000900 & TIED TO THE TGRN.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
BUREAU OF PLANNING & DEVELOPMENT

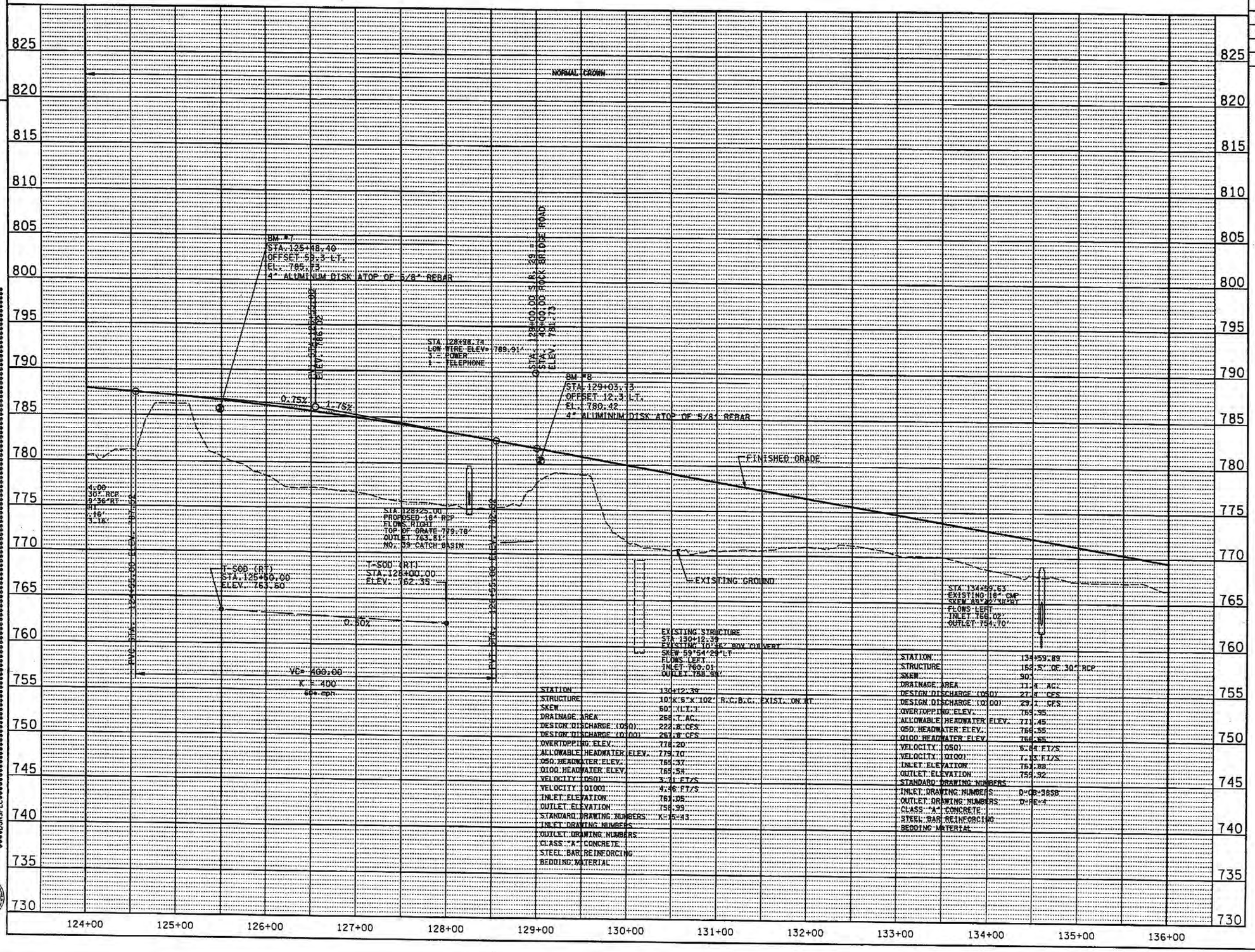
PROPOSED LAYOUT

STA. 124+00 TO STA. 136+00

SCALE: 1"= 50'

TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2004	HPP-NH-29(36)	78
R.O.W.	2004	HPP-NH-29(35)	



SYTIME
DONSPEC

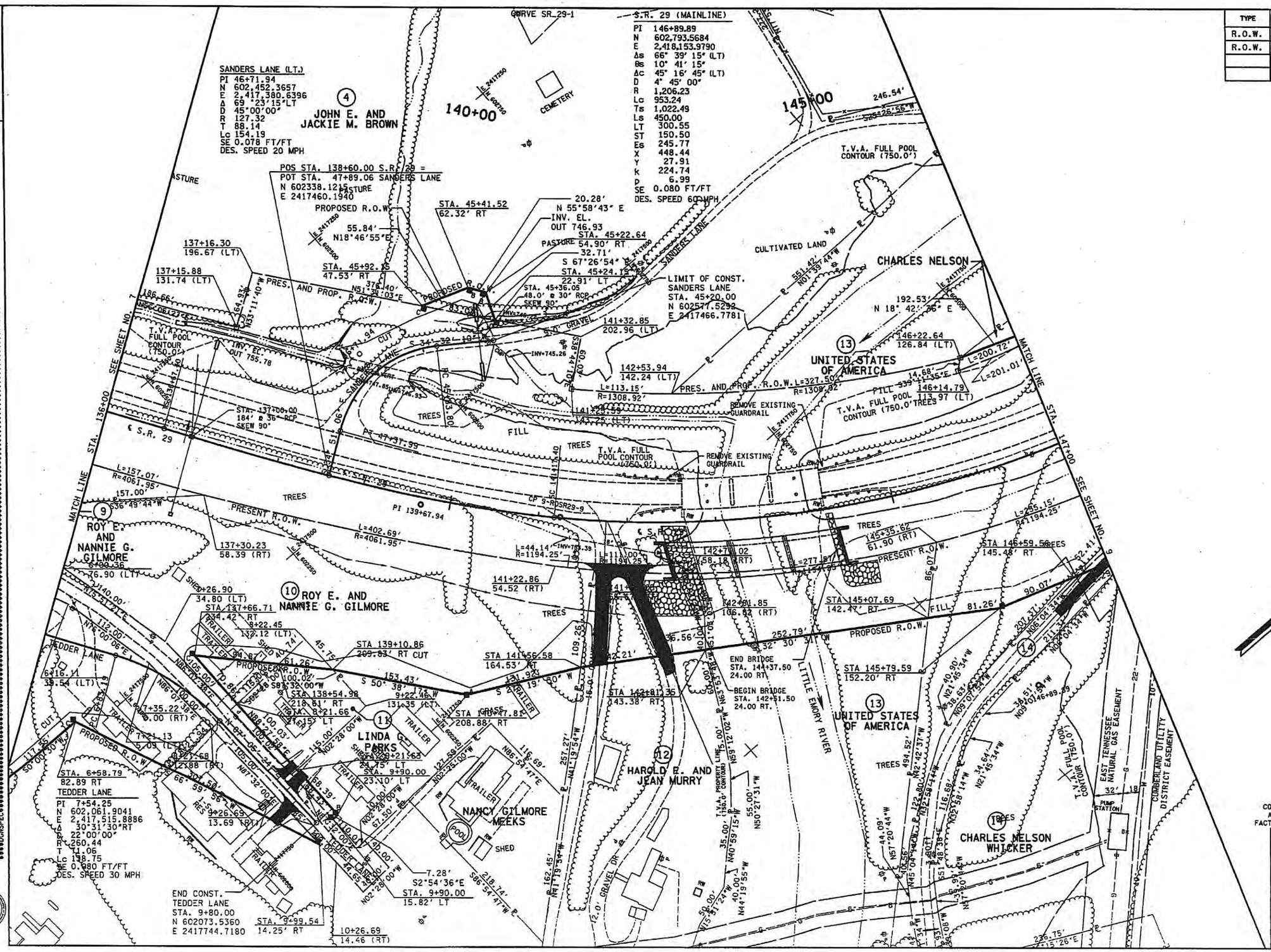
STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
BUREAU OF PLANNING & DEVELOPMENT

PROFILE

STA. 124+00 TO STA. 136+00
SCALE: 1"= 50' HORIZ.
1"= 5' VERT.

TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2007	HPP-NH-29(36)	8
R.O.W.	2007	HPP-NH-29(35)	



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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
BUREAU OF PLANNING & DEVELOPMENT

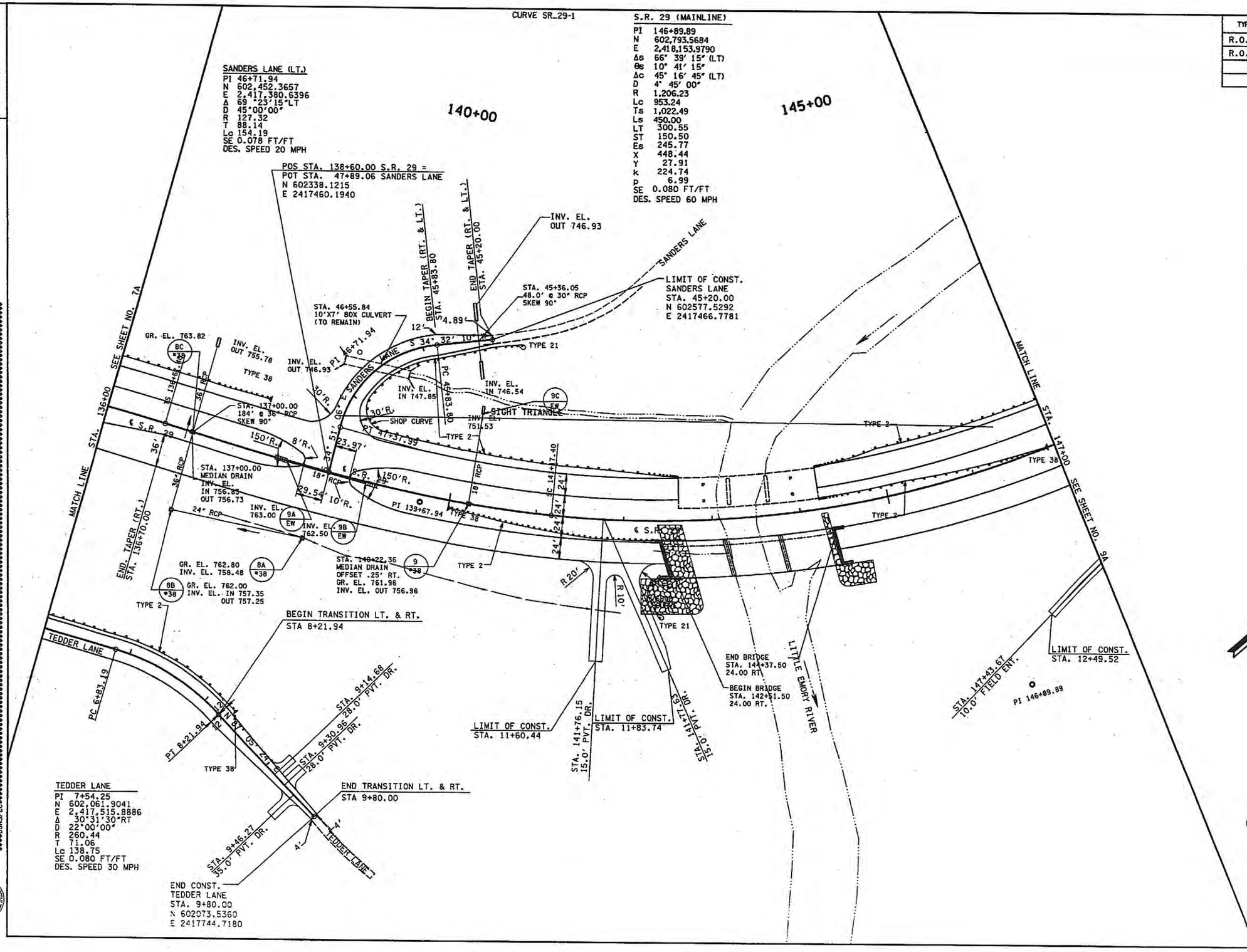
PRESENT LAYOUT

STA. 136+00 TO STA. 147+00

SCALE: 1"= 50'

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2007	HPP-NH-29(36)	8A
R.O.W.	2007	HPP-NH-29(35)	

TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.



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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
BUREAU OF PLANNING & DEVELOPMENT

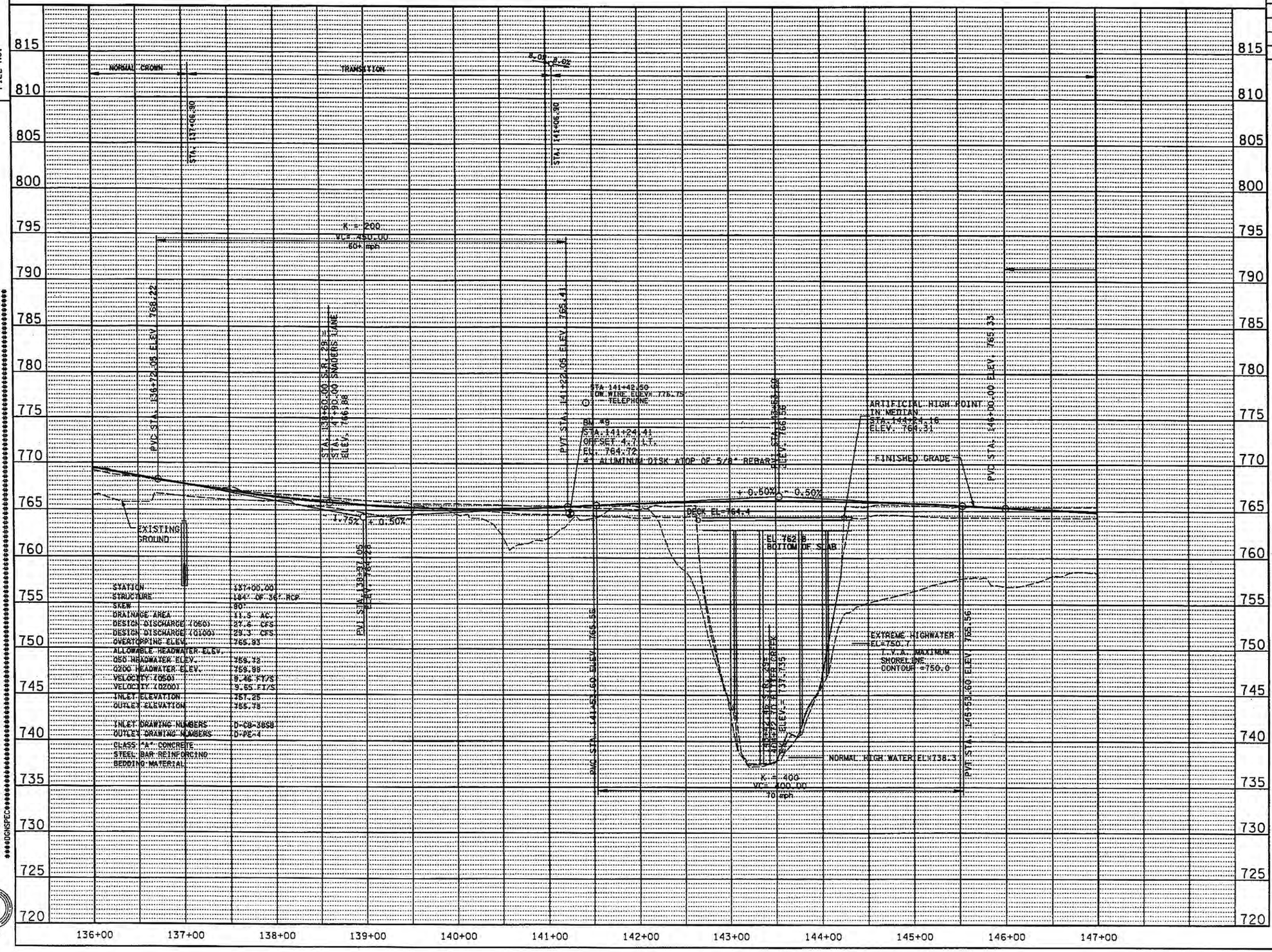
PROPOSED LAYOUT

STA. 136+00 TO STA. 147+00

SCALE: 1"= 50'

TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2004	HPP-NH-29(36)	8B
R.O.W.	2004	HPP-NH-29(35)	



****SYTIME****
****DGNSPEC****

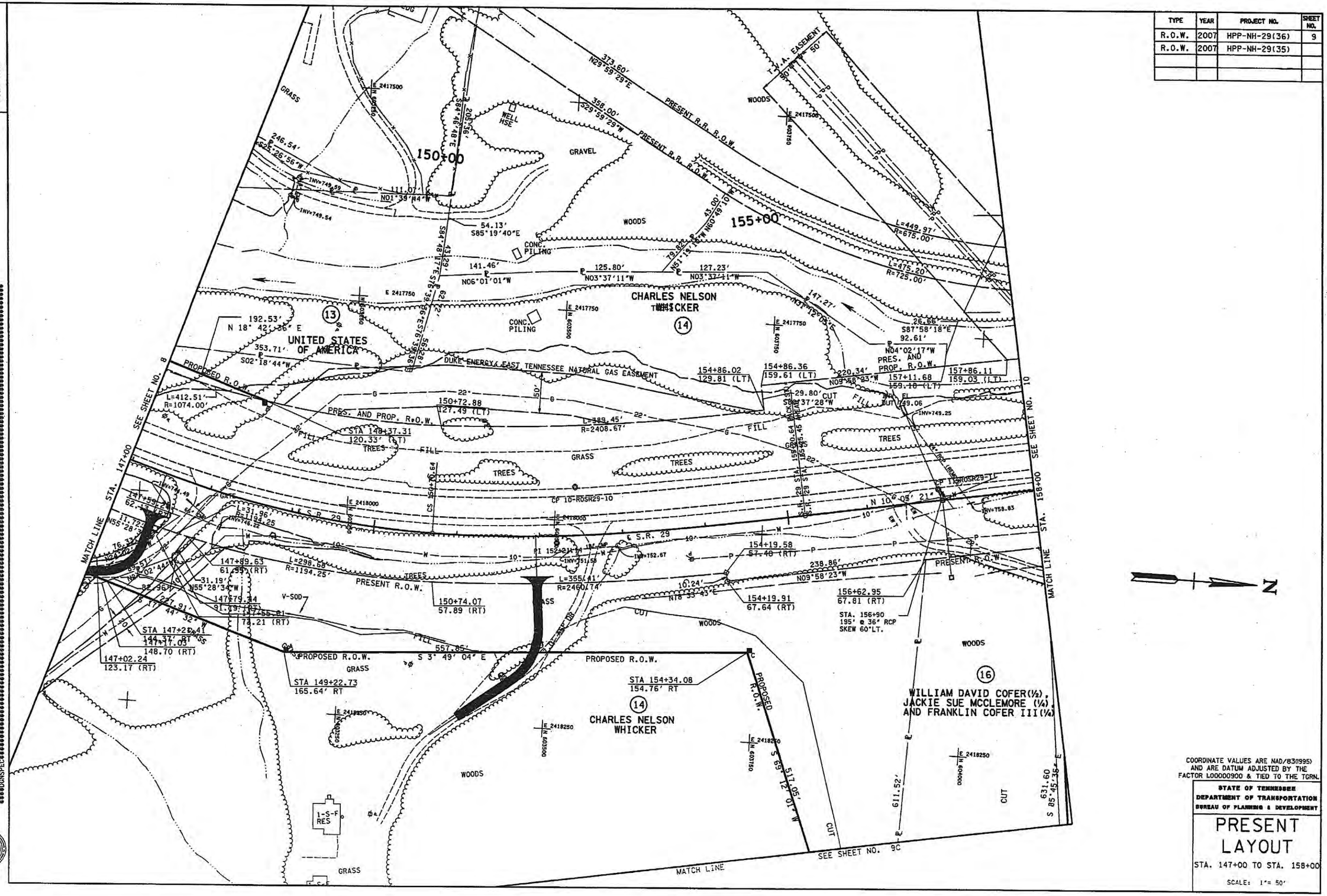
STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
BUREAU OF PLANNING & DEVELOPMENT

PROFILE

STA. 136+00 TO STA. 147+00
SCALE: 1"= 50' HORIZ.
1"= 5' VERT.

TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2007	HPP-NH-29(36)	9
R.O.W.	2007	HPP-NH-29(35)	



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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
BUREAU OF PLANNING & DEVELOPMENT

PRESENT LAYOUT

STA. 147+00 TO STA. 158+00

SCALE: 1"= 50'

@@@@SYSTIME@@@@@@
@@@@DGNSPEC@@@@@@

TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2007	HPP-NH-29(36)	9A
R.O.W.	2007	HPP-NH-29(35)	

150+00

155+00

LITTLE EMORY RIVER

SEE SHEET NO. 8A

SEE SHEET NO. 10A

SEE SHEET NO. 158+00

MATCH LINE STA. 147+00

MATCH LINE STA. 158+00

TYPE 2
STA. 148+00.00
MEDIAN DRAIN
OFFSET 1.62' RT.
GR. EL. 762.62
INV. EL. IN 758.00
INV. EL. OUT 756.47

12
#38

TYPE 38

STA. 150+33.00
MEDIAN DRAIN
OFFSET 0.82' RT.
GR. EL. 762.63
INV. EL. 758.80

15
#3R

CS 150+70.64

24"R

18" RCP

℄ S.R. 29

PI 152+21.14

S.R. 29 STA. 155+20.64 BACK (ST)=
S.R. 29 STA. 155+25.45 AHEAD

N 10° 05' 21"

24'

36" RCP

GR. EL. 761.90
INV. EL. IN 751.70

17B
#38

INV. EL.
OUT 749.06

STA. 156+90
195' @ 36" RCP
SKEW 60°LT.

GR. EL. 759.12
INV. EL. IN 753.83

R 15'

R 45'

R 70'

V-SOD

14
EW
INV. EL. 750.68

STA. 149+58.00

STA. 150+08.00

STA. 151+95.29
10.0' PVT. DR.

LIMIT OF CONST.
STA. 12+62.36

N

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
BUREAU OF PLANNING & DEVELOPMENT

PROPOSED LAYOUT

STA. 147+00 TO STA. 158+00

SCALE: 1"= 50'

Survey & Design Division

$$SYTIME$$

$$DGNSPEC$$

TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2004	HPP-NH-29(36)	9B
R.O.W.	2004	HPP-NH-29(35)	

815 810 805 800 795 790 785 780 775 770 765 760 755 750 745 740 735 730 725 720

147+00 148+00 149+00 150+00 151+00 152+00 153+00 154+00 155+00 156+00 157+00 158+00

8-DE
STA. 150+85.95
TRANSITION
STA. 154+85.95
NORMAL CROWN

K = 400
VC= 400.00
70 mph

K = 296
VC= 400.00
50± mph

PVI STA. 150+00.00 ELEV. 768.33

BM #10
STA.158+50.87
OFFSET 58.5 LT.
EL. 768.37
4" ALUMINUM DISK ATOP OF 5/8" REBAR

FINISHED GRADE

PVI STA. 153+00.00 ELEV. 766.83

STA. 153+56.01
LOW WIRE ELEV= 781.99
S.T. POWER

STA. 155+25.15 AHEAD
STA. 155+25.15 BACK
ELEV. 765.72

PVC STA. 155+42.30
ELEV. 765.83

BM #11
STA.156+86.98
OFFSET 13.2 LT.
EL. 764.58
4" ALUMINUM DISK
ATOP OF 5/8" REBAR

STA. 158+49.93
22" GAS LINE

+ 0.50% - 0.50% + 0.50% - 0.50% - 0.85%

STA. 148+11.50
22" GAS LINE

EXISTING GROUND

PVC STA. 149+00.00 ELEV. 764.33

PVC STA. 151+00.00 ELEV. 768.85

PVT STA. 155+00.00 ELEV. 765.83

STA. 156+49.38
10" WATER LINE

EXISTING 24" RCP
(REMOVE)
SKEW 58°51'48" RT.
FLOWS LEFT
INLET 750.83'
OUTLET 749.25'

NO. 9
JUNCTION
BOX

STATION	155+90
STRUCTURE	196' OF 56" RCP
SKEW	60°(LT.) 90°(RT.)
DRAINAGE AREA	13.3 AC
DESIGN DISCHARGE (Q50)	32 CFS
DESIGN DISCHARGE (Q100)	45.2 CFS
OVERTOPPING ELEV.	762.88
ALLOWABLE HEADWATER ELEV.	
Q50 HEADWATER ELEV.	757.06
Q100 HEADWATER ELEV.	757.59
VELOCITY (Q50)	19.95 FT/S
VELOCITY (Q100)	18.63 FT/S
INLET ELEVATION	753.83
OUTLET ELEVATION	749.06
STANDARD DRAWING NUMBERS	
INLET DRAWING NUMBERS	D-PE-1
OUTLET DRAWING NUMBERS	D-PE-38(L)
CLASS "A" CONCRETE	
STEEL BAR REINFORCING	
BEDDING MATERIAL	

PVT STA. 155+42.30
ELEV. 765.72

PVI STA. 156+42.30
ELEV. 765.52

PVC STA. 157+42.30
ELEV. 764.58

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
BUREAU OF PLANNING & DEVELOPMENT

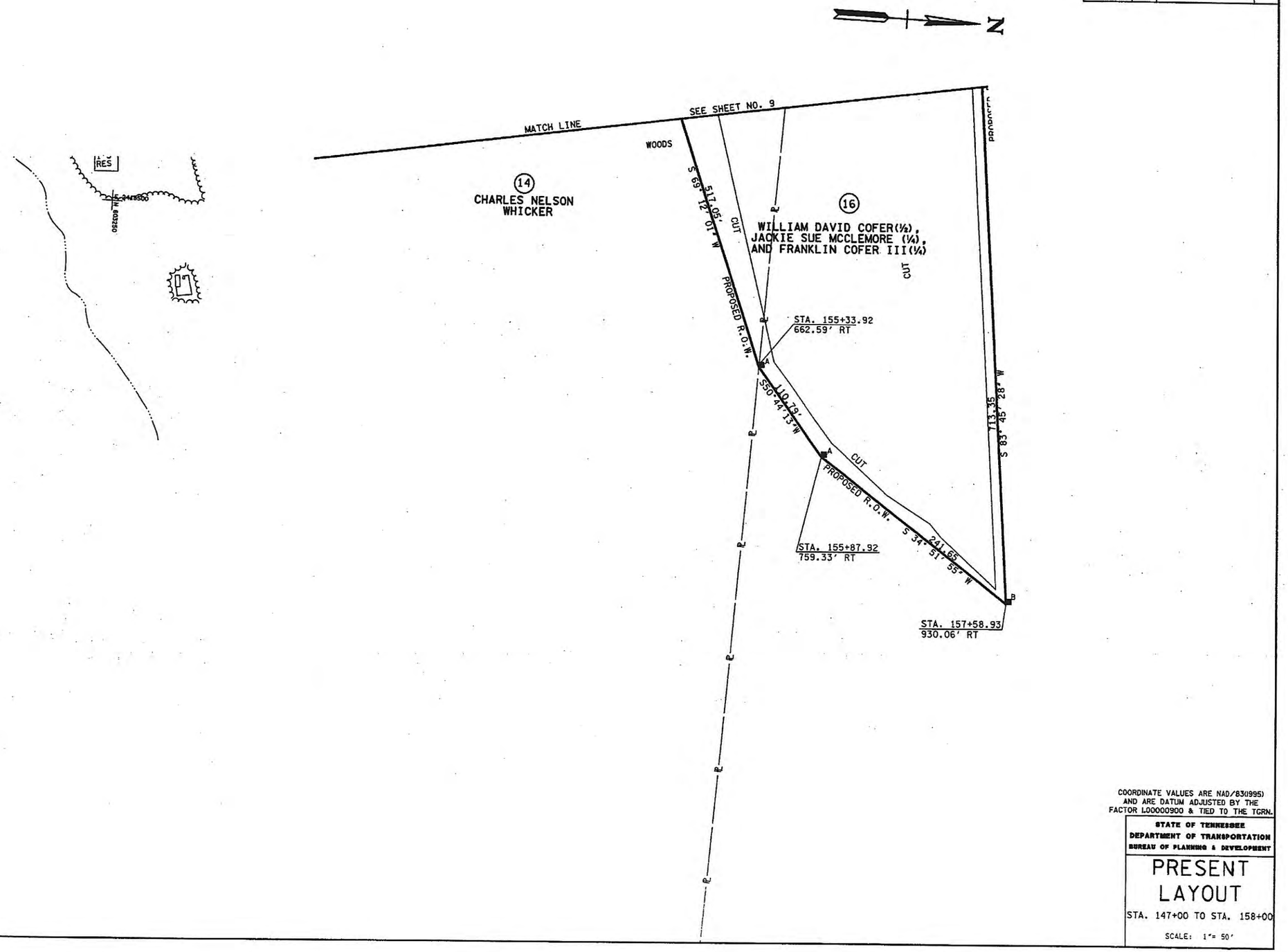
PROFILE

STA. 147+00 TO STA. 158+00
SCALE: 1"= 50' HORIZ.
1"= 5' VERT.

****SYTIME****
****DGNSPEC****

TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2007	HPP-NH-29(36)	9C
R.O.W.	2007	HPP-NH-29(35)	



COORDINATE VALUES ARE NAD/83(1995) AND ARE DATUM ADJUSTED BY THE FACTOR L00000900 & TIED TO THE TGRN.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
BUREAU OF PLANNING & DEVELOPMENT

PRESENT LAYOUT

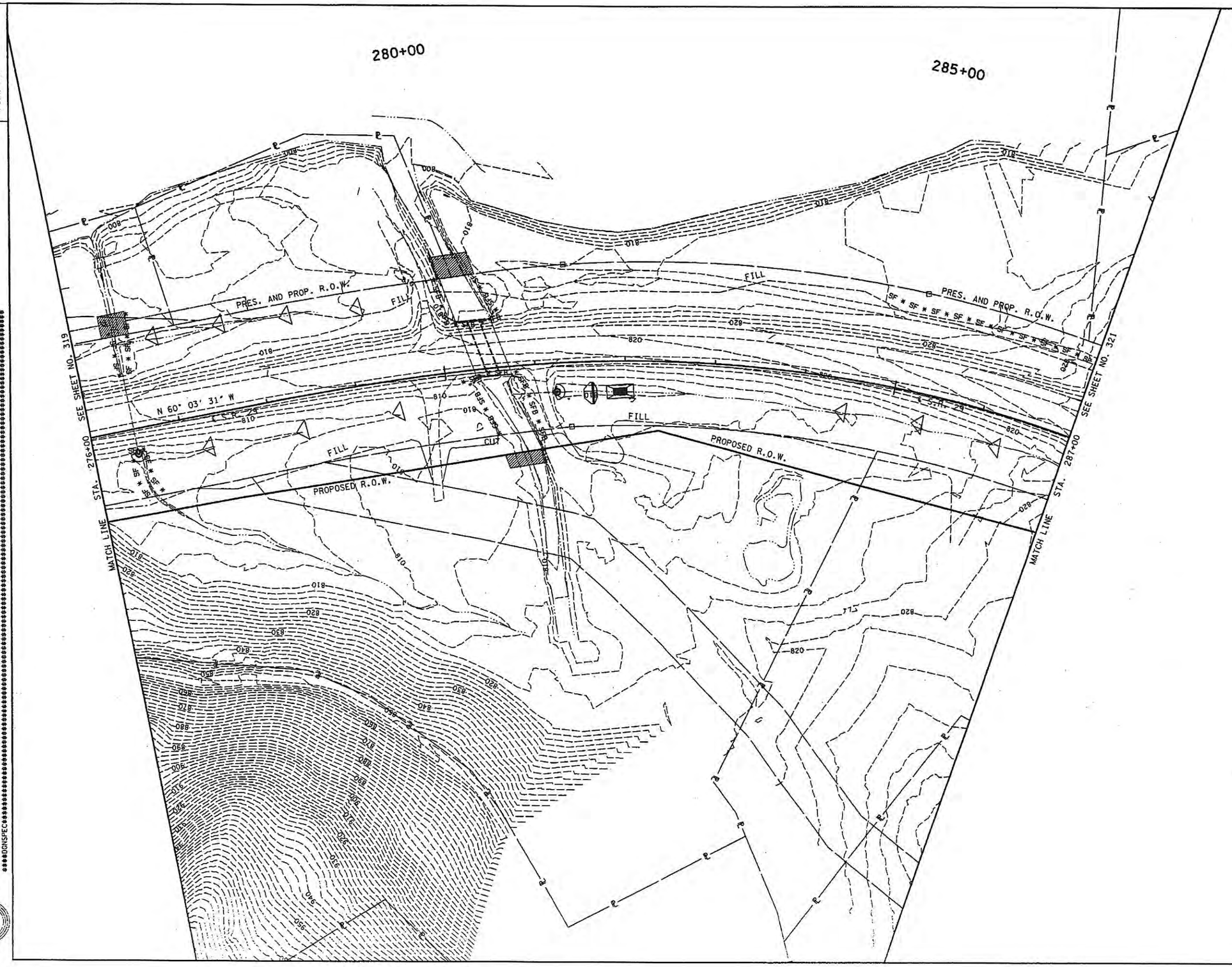
STA. 147+00 TO STA. 158+00

SCALE: 1"= 50'

$$SYTIME$$
$$DGNSPEC$$

TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2007	HPP-NH-29(36)	320
R.O.W.	2007	HPP-NH-29(35)	355



COORDINATE VALUES ARE NAD/83(1995) AND ARE DATUM ADJUSTED BY THE FACTOR 1.00000900 & TIED TO THE TGRN.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
BUREAU OF PLANNING & DEVELOPMENT

EROSION CONTROL PLAN PHASE I

STA. 276+00 TO STA. 287+00

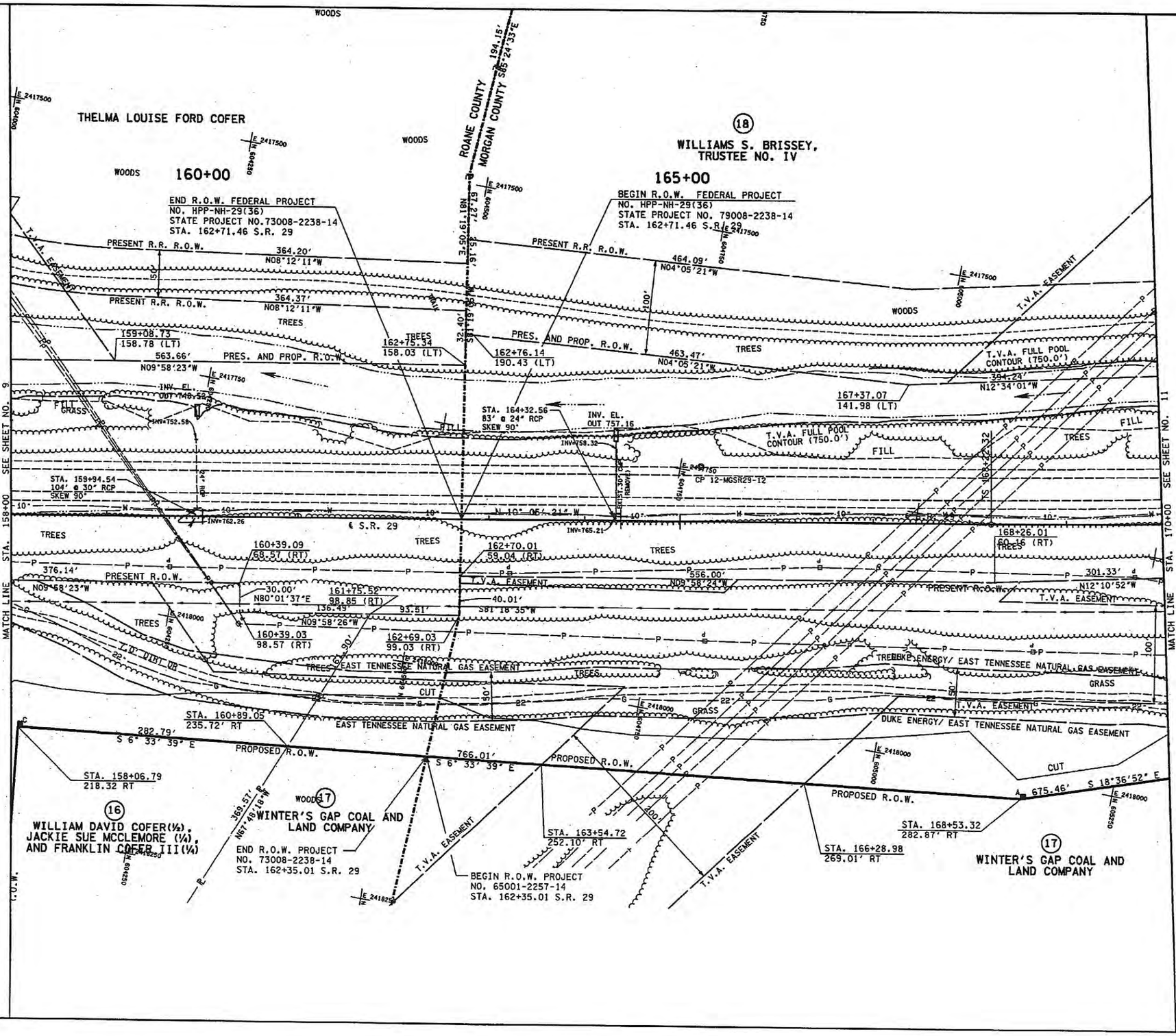
SCALE: 1"= 50'

$$$$SYSTIME$$$$

$$$$DGNSPEC$$$$

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2007	HPP-NH-29(36)	10
R.O.W.	2007	HPP-NH-29(35)	

TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.



COORDINATE VALUES ARE NAD/83(1995) AND ARE DATUM ADJUSTED BY THE FACTOR 1.00000900 & TIED TO THE TGRN.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
BUREAU OF PLANNING & DEVELOPMENT

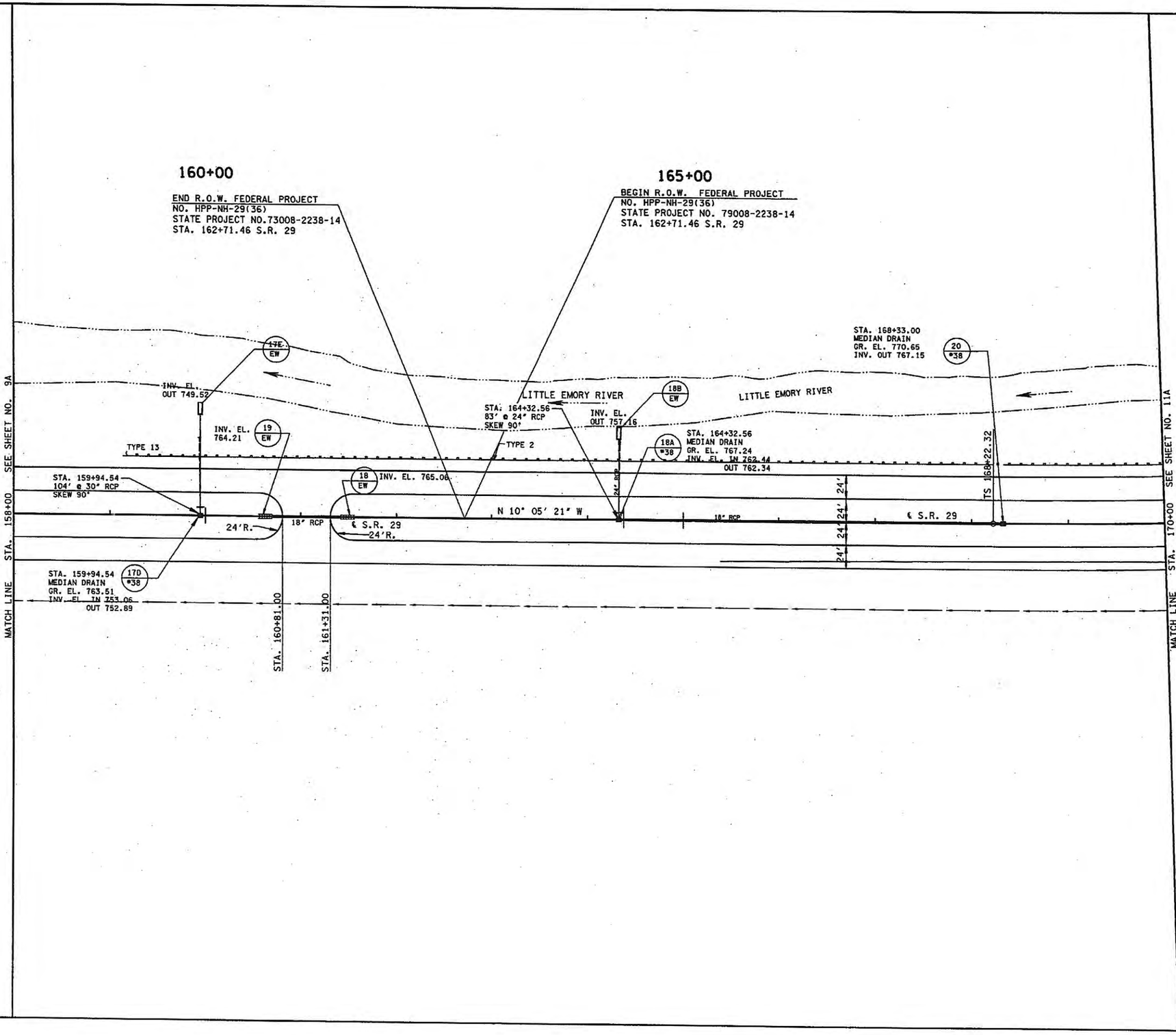
PRESENT LAYOUT

STA. 158+00 TO STA. 170+00

SCALE: 1"= 50'

TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2007	HPP-NH-29(36)	10A
R.O.W.	2007	HPP-NH-29(35)	



COORDINATE VALUES ARE NAD/83(1995)
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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
BUREAU OF PLANNING & DEVELOPMENT

PROPOSED LAYOUT

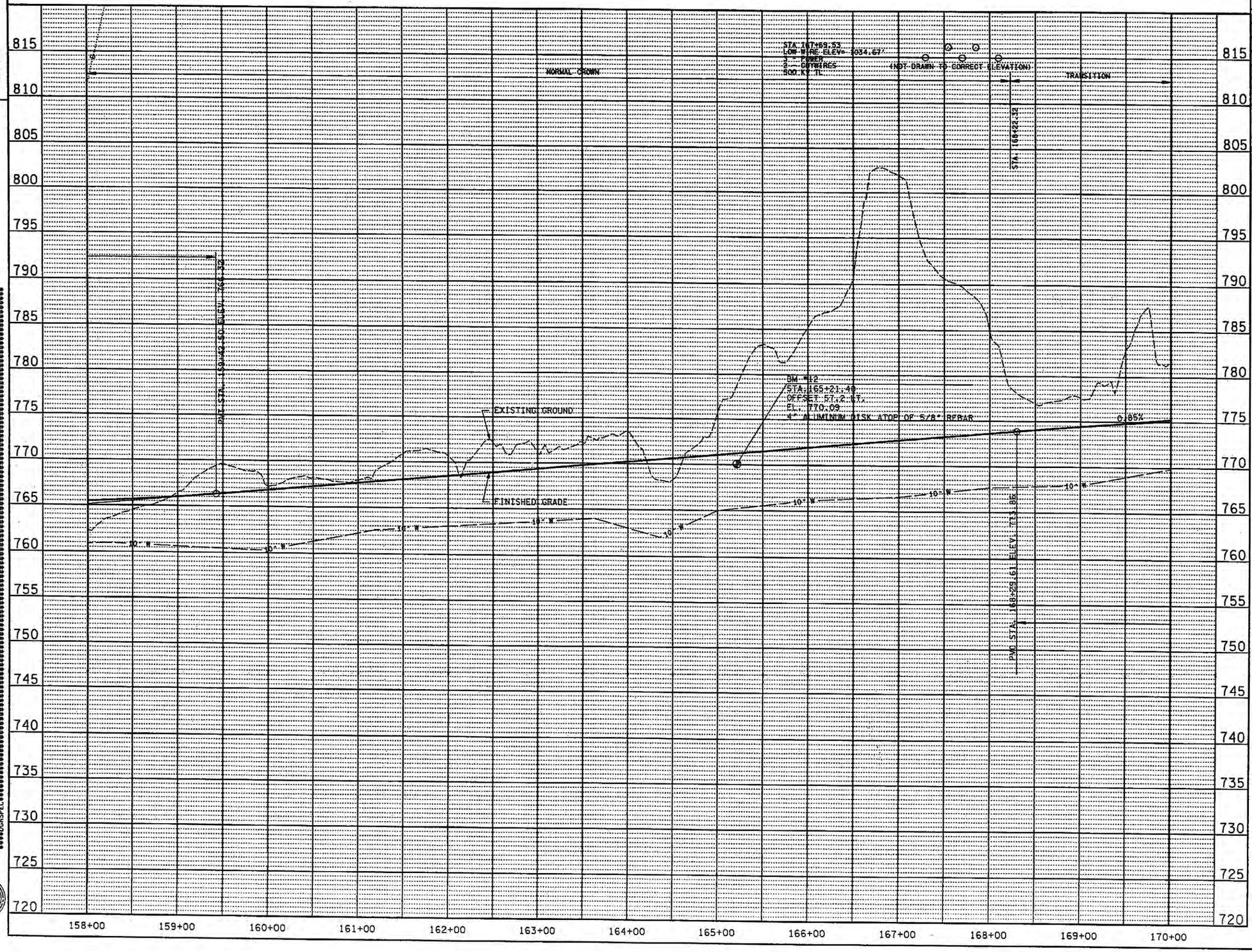
STA. 158+00 TO STA. 170+00

SCALE: 1"= 50'

****SYTIME****
****DONSPEC****

TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2004	HPP-NH-29(36)	10B
R.O.W.	2004	HPP-NH-29(35)	



STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
BUREAU OF PLANNING & DEVELOPMENT

PROFILE

STA. 158+00 TO STA. 170+00

SCALE: 1"= 50' HORIZ.
1"= 5' VERT.

$$$$SYTIME$$$$$$
$$$$DGNSPEC$$$$$$

TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2007	HPP-NH-29(36)	11
R.O.W.	2007	HPP-NH-29(35)	

WOODS
METAL TOWER
T.V.A. EASEMENT 100'
PRESENT R.R. R.O.W.
PRES. AND PROP. R.O.W.
FILL
TRAIL
TREES
DIRT/GRAVEL AREA
REMOVE EXISTING GUARDRAIL
CUT
V-SOD
CONC. PILINGS
TENNESSEE NATURAL GAS EASEMENT
GRASS
TVA FULL POOL CONTOUR (750.0')
PROPOSED R.O.W.
LIMIT OF CONST.
CHANNEL CHANGE FLAT BOTTOM CHANNEL
PRESENT R.R. R.O.W.
PRESENT R.O.W.
ASP COAL HILL ROAD

175+00
180+00

STA. 176+84.46
468.05' LT
N 1°46'55" W
73.00' PROPOSED R.O.W.
STA. 177+71.11
419.01' LT
N 35° 39' 34" E 222.00'
PROPOSED R.O.W.
179+41.14
200.52 (LT)
STA. 178+11.26
199.00' LT
179+42.11
145.93 (LT)
L=459.62'
R=1947.54'
MATCH LINE STA. 181+00 SEE SHEET NO. 12

POC STA. 172+30.00 S.R. 29 =
POT STA. 40+00.00 (COAL HILL ROAD)
N 605473.1575
E 2417653.4749
BEGIN BRIDGE
STA. 173+09.57
24.00 RT.
STA. 176+43.76
197.49' LT
PRES. AND PROP. R.O.W. R=980.92'
L=478.70'
272.12' S 55° 38' 35" W
L=124.81'
173+68.72
196.14 (LT)
END BRIDGE
STA. 174+97.05
24.00 RT.
170+94.65
150.42 (LT)
MATCH LINE STA. 170+00 SEE SHEET NO. 10
℄ S.R. 29
PI 170+89.37
171+24.95
58.70 (RT)
CP 17-MGSR29-10
CP 14-MGSR29-14
REMOVE EXISTING GUARDRAIL
REMOVE EXISTING GUARDRAIL
REMOVE EXISTING GUARDRAIL
REMOVE EXISTING GUARDRAIL
℄ S.R. 29
PRES. AND PROP. R.O.W.
180+54.18
108.96 (RT)
BEGIN BRIDGE
STA. 178+34.02
24.00 RT.
END BRIDGE
STA. 180+24.93
24.00 RT.

COAL HILL ROAD
PC 40+83.99
R=1271.26'
L=236.34'
PRESENT R.O.W.
171+21.87
118.70 (RT)
172+27.63
119.56 (RT)
173+30.04
119.64 (RT)
173+86.14
119.51 (RT)
L=153.00'
R=1271.26'
PT 43+40.60
N 33° 09' 33" W
PC 42+87.72
R=580.00'
L=165.22'
155+34.57
669.56 (RT)
PI 43+87.25
STA. 174+37.49
215.80' RT
STA. 174+69.22
283.94' RT
N 32° 12' 42" W 785.71'
S 32° 52' 22" W 285.34'
PRESENT R.O.W.
100'
PRESENT R.R. R.O.W.
L=469.58'
R=1271.26'
CHANNEL CHANGE FLAT BOTTOM CHANNEL
175+28.80
118.65 (RT)
176+25.15
117.62 (RT)
N 34° 59' 14" E 300.00'
STA. 176+67.71
300.43' RT
STA. 175+77.99
278.71' RT
S 25° 34' 39" E 548.09'
S 40° 31' 07" E 367.58'
PROPOSED R.O.W.
STA. 178+89.43
395.93' RT

STA. 171+86.27
246.98' RT
PROPOSED R.O.W. 675.46'
S 18° 36' 52" E
STA. 172+52.46
248.15' RT

COAL HILL ROAD (RT.)
PI 42+12.48
N 605,545.6692
E 2,417,853.1983
Δ 106°47'57"LT
D 60°00'00"
R 95.49
T 128.58
Lc 178.00
SE 0.08 FT/FT
DES. SPEED 20 MPH

(17)
WINTER'S GAP COAL AND LAND COMPANY

COAL HILL ROAD (RT.)
PI 43+40.60
N 605,714.6938
E 2,417,733.3993
Δ 63°19'13"RT
D 60°00'00"
R 95.49
T 58.89
Lc 105.53
SE 0.08 FT/FT
DES. SPEED 20 MPH

(18)
WILLIAMS S. BRISSEY, TRUSTEE NO. IV

(17)
WINTER'S GAP COAL AND LAND COMPANY

S.R. 29 (MAINLINE)
PI 176+92.21
N 605,933.5007
E 2,417,595.2886
Δ 57°53'01"LT
θs 09°30'00"LT
Δc 38°53'01"LT
D 04°45'00"
R 1,206.23
Lc 818.60
Ts 869.89
Ls 400.00
LT 267.05
ST 133.68
Es 178.45
X 398.90
Y 22.06
K 199.82
p 5.52
SE 0.080 FT/FT
DES. SPEED 60 MPH

COORDINATE VALUES ARE NAD/83(1995) AND ARE DATUM ADJUSTED BY THE FACTOR L00000900 & TIED TO THE TGRN.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
BUREAU OF PLANNING & DEVELOPMENT

PRESENT LAYOUT

STA. 170+00 TO STA. 181+00

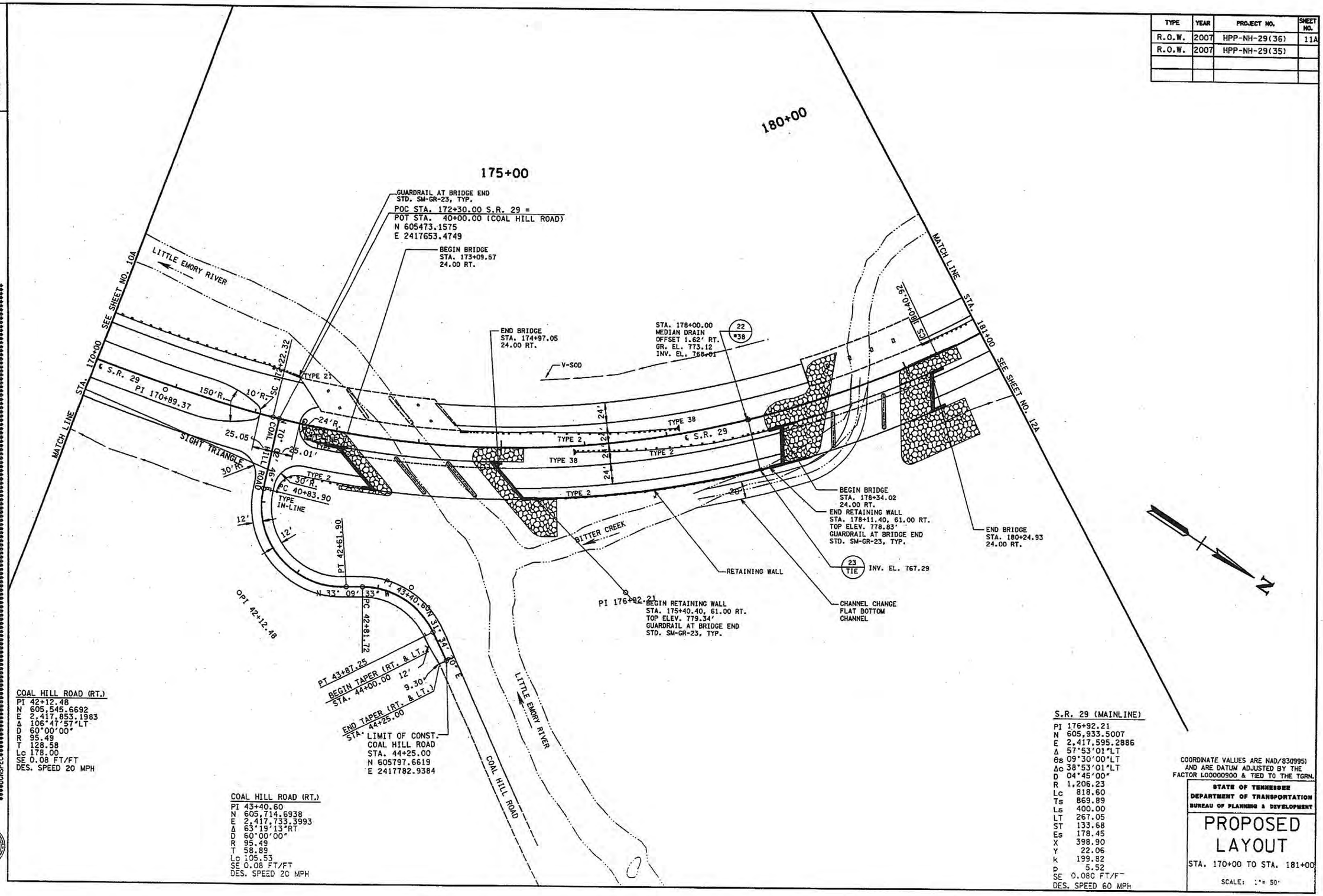
SCALE: 1"= 50'

N

$$SITIME
$$DONSPEC

TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2007	HPP-NH-29(36)	11A
R.O.W.	2007	HPP-NH-29(35)	



COAL HILL ROAD (RT.)
PI 42+12.48
N 605,545.6692
E 2,417,853.1983
Δ 106°47'57"LT
D 60°00'00"
R 95.49
T 128.58
Lc 178.00
SE 0.08 FT/FT
DES. SPEED 20 MPH

COAL HILL ROAD (RT.)
PI 43+40.60
N 605,714.6938
E 2,417,733.3993
Δ 63°19'13"RT
D 60°00'00"
R 95.49
T 58.89
Lc 105.53
SE 0.08 FT/FT
DES. SPEED 20 MPH

S.R. 29 (MAINLINE)
PI 176+92.21
N 605,933.5007
E 2,417,595.2886
Δ 57°53'01"LT
θs 09°30'00"LT
Δc 38°53'01"LT
D 04°45'00"
R 1,206.23
Lc 818.60
Ts 869.89
Ls 400.00
LT 267.05
ST 133.68
Es 178.45
X 398.90
Y 22.06
k 199.82
p 5.52
SE 0.080 FT/FT
DES. SPEED 60 MPH

COORDINATE VALUES ARE NAD/83(1995) AND ARE DATUM ADJUSTED BY THE FACTOR 1.00000900 & TIED TO THE TGRN.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
BUREAU OF PLANNING & DEVELOPMENT

PROPOSED LAYOUT

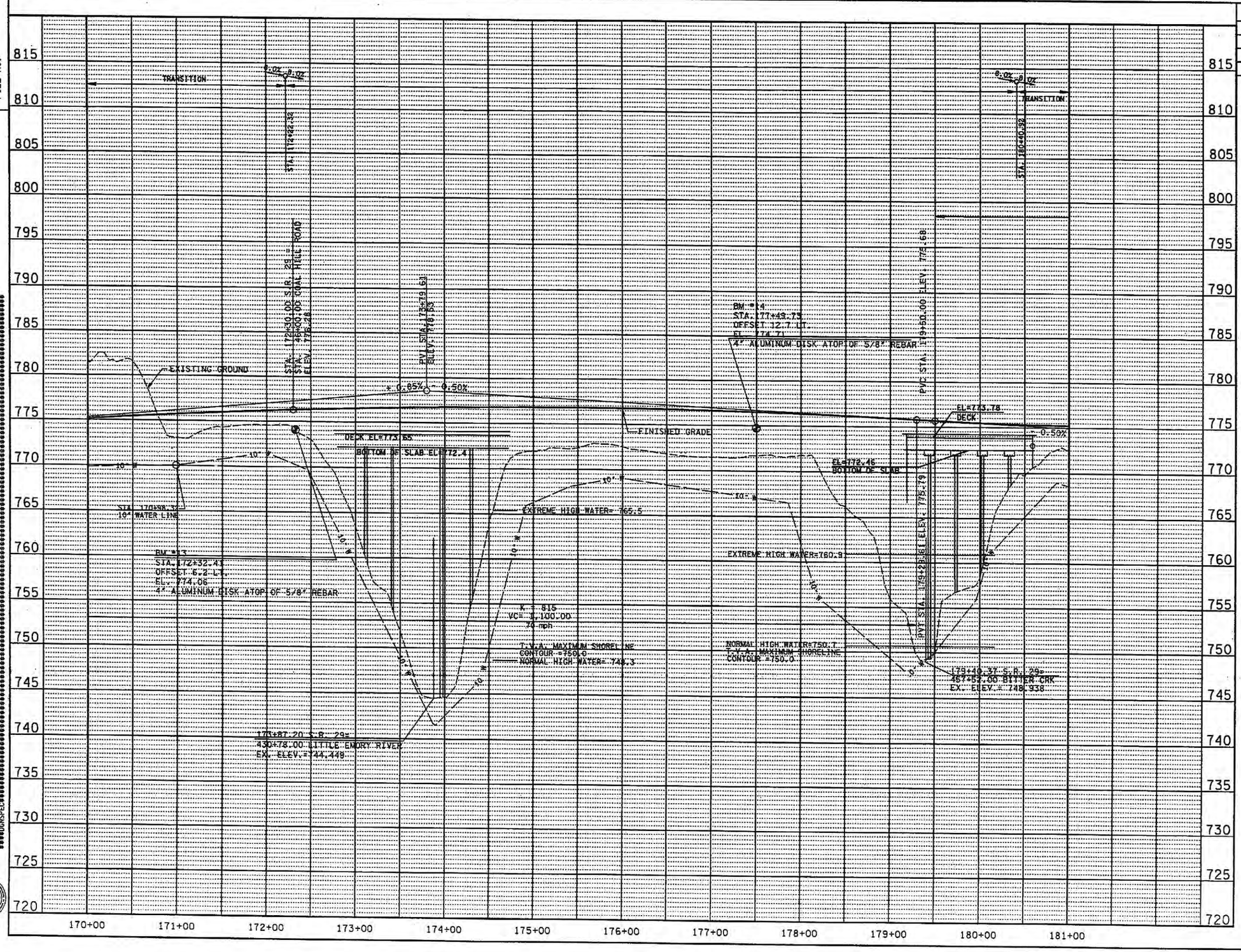
STA. 170+00 TO STA. 181+00

SCALE: 1"= 50'

$$SYTIME$$
$$DONSPEC$$

TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2004	HPP-NH-29(36)	11B
R.O.W.	2004	HPP-NH-29(35)	



$$SYTIME$$
$$DGNSPEC$$

Survey & Design Division

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
BUREAU OF PLANNING & DEVELOPMENT

PROFILE

STA. 170+00 TO STA. 181+00
SCALE: 1"= 50' HORIZ.
1"= 5' VERT.

TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2007	HPP-NH-29(36)	12
R.O.W.	2007	HPP-NH-29(35)	

185+00
190+00
WOODS
WOODS
WOODS

TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2007	HPP-NH-29(36)	12A
R.O.W.	2007	HPP-NH-29(35)	

185+00

190+00

25 / EW — INV. EL. 766.97

STA. 183+71.06
151.3' ø 36" RCP
SKEW 90°

INV. EL.
OUT 767.02

STA. 190+00.00
MEDIAN DRAIN
GR. EL. 772.19
INV. EL. IN 763.72
OUT 763.64

27 / #38

BITTER CREEK

STA. 192+66.88
184.1' ø 60" RCP
SKEW 90°

INV. EL.
OUT 752.80

STA. 192+66.88
MEDIAN DRAIN
GR. EL. 773.00
INV. EL. IN 759.39
OUT 753.66

29 / #39

SEE SHEET NO. 11A

STA. 181+00

TYPE 2

TYPE 38

PI 181+74.60

℄ S.R. 29

24'R.

36" RCP

ST 184+40.92

N 67° 58' 22" W

24' 24' 24' 24'

18" RCP

60" RCP

SEE SHEET NO. 13A

STA. 193+00

MATCH LINE

STA. 181+50.00
MEDIAN DRAIN
OFFSET .64' RT.
GR. EL. 771.97
INV. EL. 768.01

24 / #38

STA. 183+71.06
MEDIAN DRAIN
GR. EL. 772.55
INV. EL. IN 767.92
OUT 767.82

24A / #39

V-SOD

INV. EL.
IN 769.29

STA. 185+09.00

STA. 185+59.00

TYPE 2

V-SOD

R 15'

IN-LINE

R 45'

INV. EL.
IN 764.15

N

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
BUREAU OF PLANNING & DEVELOPMENT

PROPOSED LAYOUT

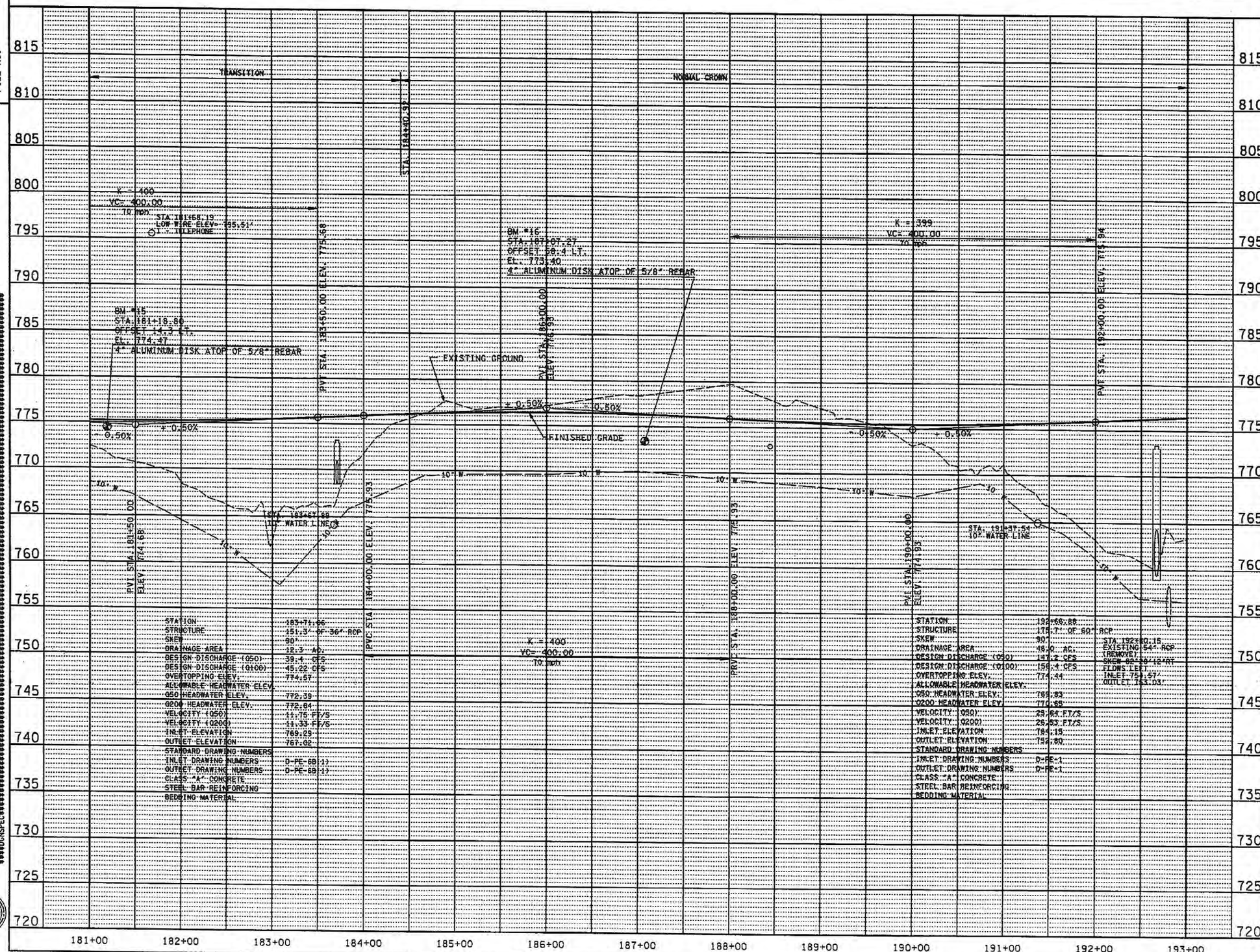
STA. 181+00 TO STA. 193+00

SCALE: 1"= 50'

$$SYTIME$$
$$DONSPEC$$

TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2004	HPP-NH-29(36)	12B
R.O.W.	2004	HPP-NH-29(35)	



STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
BUREAU OF PLANNING & DEVELOPMENT

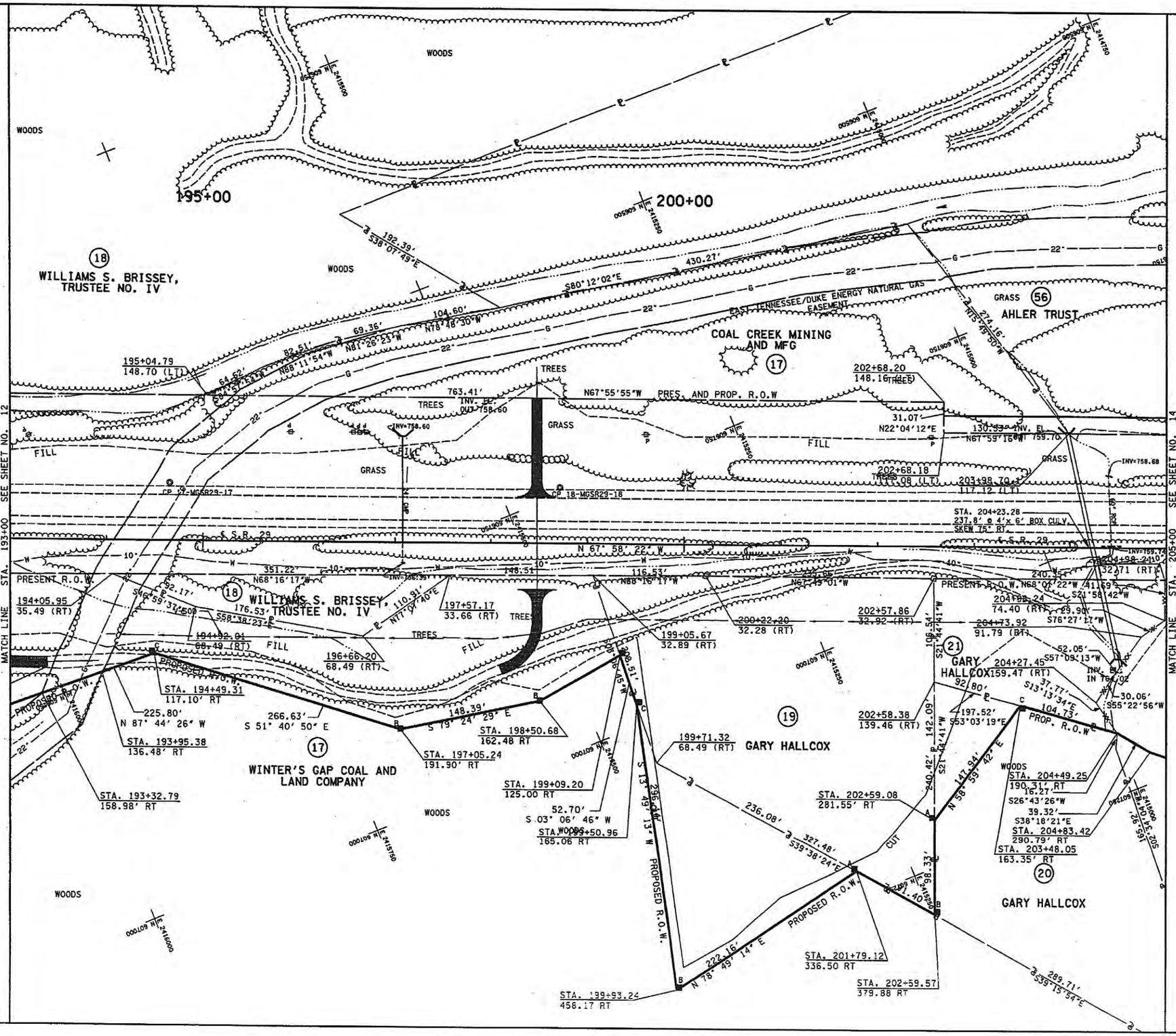
PROFILE

STA. 181+00 TO STA. 193+00
SCALE: 1"= 50' HORIZ.
1"= 5' VERT.

$$$$SYTIME$$$$$$$
$$$$DGNSPEC$$$$$$$

TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2007	HPP-NH-29(36)	13
R.O.W.	2007	HPP-NH-29(35)	



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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
BUREAU OF PLANNING & DEVELOPMENT

PRESENT LAYOUT

STA. 193+00 TO STA. 205+00

SCALE: 1"= 50'

$$SYTIME$$
$$DGNSPEC$$

TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2007	HPP-NH-29(36)	~~321~~
R.O.W.	2007	HPP-NH-29(35)	358

290+00

295+00

POS STA. 290+51.96 S.R. 29 =
POT STA. 50+00.00 WHETSTONE ROAD
N 612052.6872
E 2408162.2162

PRES. AND PROP. R.O.W.

50+00

N 13° 16' 43" W

N 74° 22' E

MATCH LINE STA. 287+00 SEE SHEET NO. 320

MATCH LINE STA. 298+00 SEE SHEET NO. 322

S.R. 29

FILL

CUT

PRESENT R.O.W.

PROPOSED R.D.W.

PRESENT R.O.W.

18' 32'

N

COORDINATE VALUES ARE NAD/83(1995) AND ARE DATUM ADJUSTED BY THE FACTOR 1.00000900 & TIED TO THE TGRN.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
BUREAU OF PLANNING & DEVELOPMENT

EROSION CONTROL PLAN PHASE I

STA. 287+00 TO STA. 298+00

SCALE: 1" = 50'

$$$$SYTIME$$$$$$$
$$$$ORDNSPEC$$$$$$$

TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2007	HPP-NH-29(36)	13A
R.O.W.	2007	HPP-NH-29(35)	

195+00

200+00

BITTER CREEK

STA. 197+07.74
MEDIAN DRAIN
GR. EL. 775.21
INV. EL. 757.64
28 #38

26 EW INV. EL. OUT 758.60

STA. 198+48.00
10.0' FIELD ENT.

LIMIT OF CONST.
STA. 11+48.46

STA. 198+98.00
MEDIAN DRAIN
GR.EL. 776.21
INV. EL. 767.31
30 #38

STA. 204+23.28
MEDIAN DRAIN
GR. EL. 777.00
INV. EL. 761.89
32 #38

INV. EL.
OUT 759.70

24' RCP

STA. 198+23.00

R 15'

R 15'

STA. 198+73.00

STA. 204+23.28
237.8' @ 4'x 6' BOX CULV.
SKEW 75° RT.

30" RCP

℄ S.R. 29

18" RCP

24'R.

N 67° 58' 22" W

24'R.

℄ S.R. 29

24'
24'
24'
24'

SEE SHEET NO. 12A

STA. 193+00

MATCH LINE

SEE SHEET NO. 14A

STA. 205+00

MATCH LINE

TYPE 2

TYPE 13

V-SOD

R 15'

R 45'

R 15'

STA. 198+48.00
10.0' FIELD ENT.

LIMIT OF CONST.
STA. 11+48.00

INV. EL.
IN 764.02

STA. 192+00.00
10.0' FIELD ENT.

LIMIT OF CONST.
STA. 12+46.00

N

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
BUREAU OF PLANNING & DEVELOPMENT

PROPOSED LAYOUT

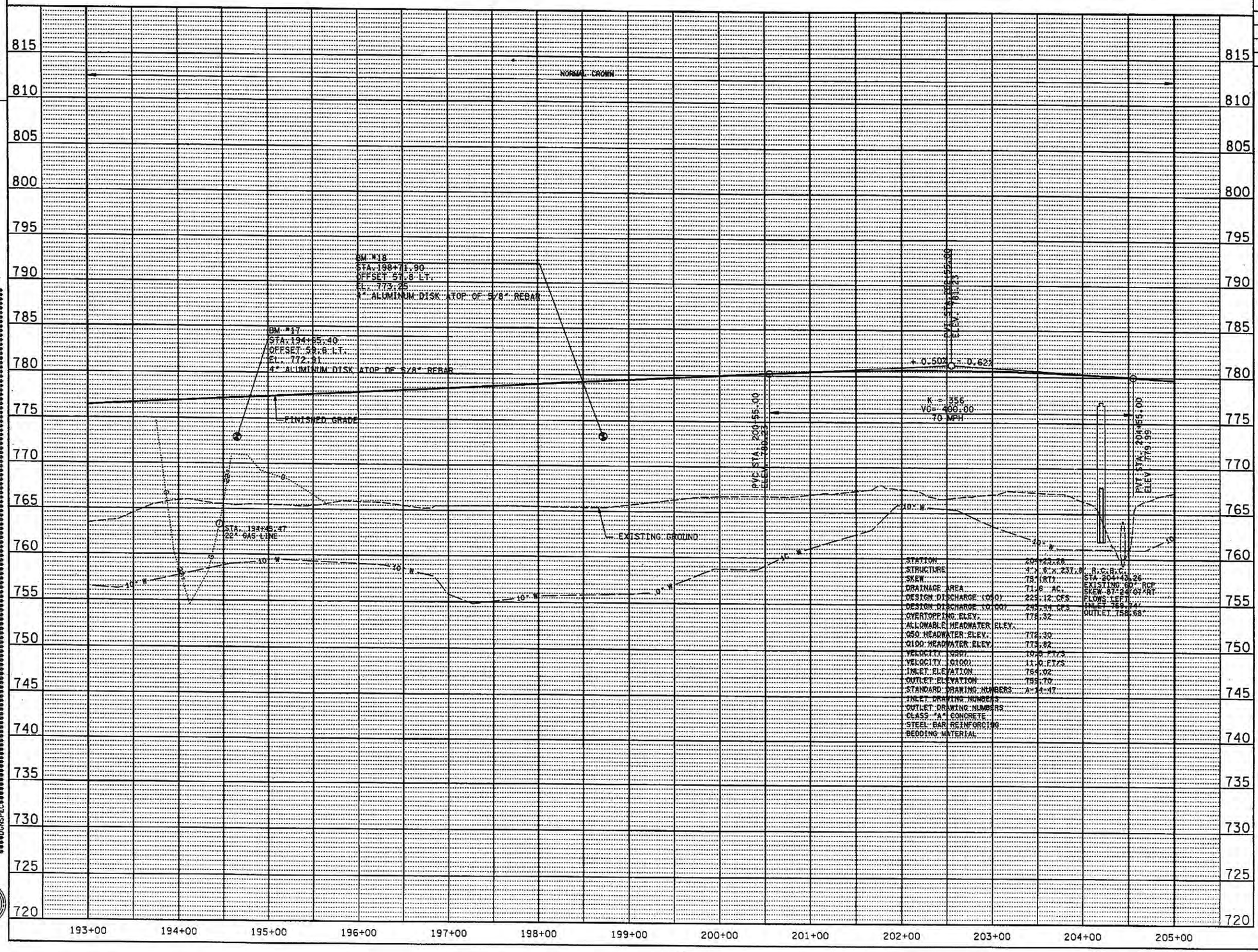
STA. 193+00 TO STA. 205+00

SCALE: 1"= 50'

$$SYTIME$$
$$DGNSPEC$$

TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2004	HPP-NH-29(36)	13B
R.O.W.	2004	HPP-NH-29(35)	



STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
BUREAU OF PLANNING & DEVELOPMENT

PROFILE

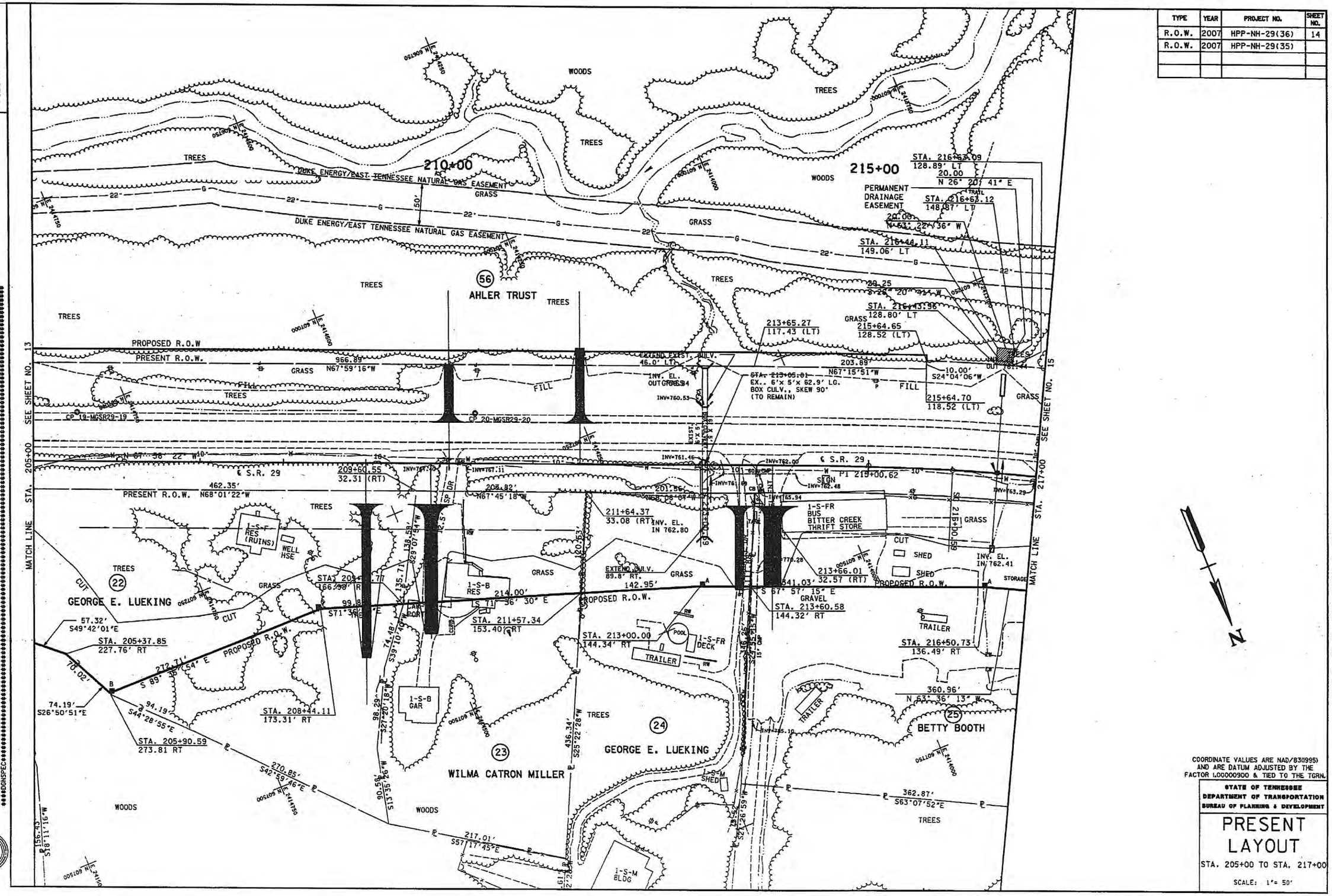
STA. 193+00 TO STA. 205+00

SCALE: 1"= 50' HORIZ.
1"= 5' VERT.

*****SYTIME*****
*****DGNSPEC4*****

TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2007	HPP-NH-29(36)	14
R.O.W.	2007	HPP-NH-29(35)	



TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2007	HPP-NH-29(36)	14A
R.O.W.	2007	HPP-NH-29(35)	

BITTER CREEK

210+00

215+00

STA. 207+64.00
MEDIAN DRAIN
GR. EL. 774.83
INV. EL. 765.65
31 *38

STA. 210+00.00
10.0' FIELD ENT.

STA. 211+08.00
MEDIAN DRAIN
GR. EL. 772.73
INV. EL. 764.72
33 *38

LIMIT OF CONST.
STA. 11+17.28

STA. 211+57.00
10.0' FIELD ENT.

LIMIT OF CONST.
STA. 11+38.00

34 *38
STA. 213+05.81
MEDIAN DRAIN
GR. EL. 771.50
INV. EL. 762.49
EXTEND EXIST. CULV.
46.0' LT.

INV. EL.
OUT 759.84

CULV.

STA. 213+05.81
EX.. 6'x 5'x 62.9' LG.
BOX CULV., SKEW 90°
(TO REMAIN)

GR. EL. 769.25
INV. EL. IN 761.99
OUT 761.96
34A *38

INV. EL.
OUT 761.44

SEE SHEET NO. 13A

SEE SHEET NO. 15A

STA. 205+00

MATCH LINE

N 67° 58' 22" W

18" RCP

℄ S.R. 29

24'R.

18" RCP

24'R.

℄ S.R. 29

PI 215+00.62

EXIST. 6'X 5' CULV.

42" RCP

STA. 217+00

MATCH LINE

24'

24'

24'

24'

R 15'

R 15'

R 20'

R 20'

R 15'

R 15'

R 15'

R 12.23'

R 20'

STA. 211+32.00

STA. 211+82.00

INV. EL.
IN 762.80

EXTEND CULV.
89.8' RT.

SC 219+00.59

INV. EL.
IN 762.41

STA. 216+53.25
MEDIAN DRAIN
OFFSET .58' LT.
174.9' @ 42" RCP
SKEW 90°

LIMIT OF CONST.
STA. 12+30.00

LIMIT OF CONST.
STA. 12+02.00

LIMIT OF CONST.
STA. 11+48.00

LIMIT OF CONST.
STA. 11+45.00

STA. 209+00.00
10.0' PVT. DR.

STA. 209+78.07
15.0' PVT. DR.

STA. 213+47.05
10.0' PVT. DR.

STA. 213+86.66
20.0' BUS. ENT.

N

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
BUREAU OF PLANNING & DEVELOPMENT

PROPOSED LAYOUT

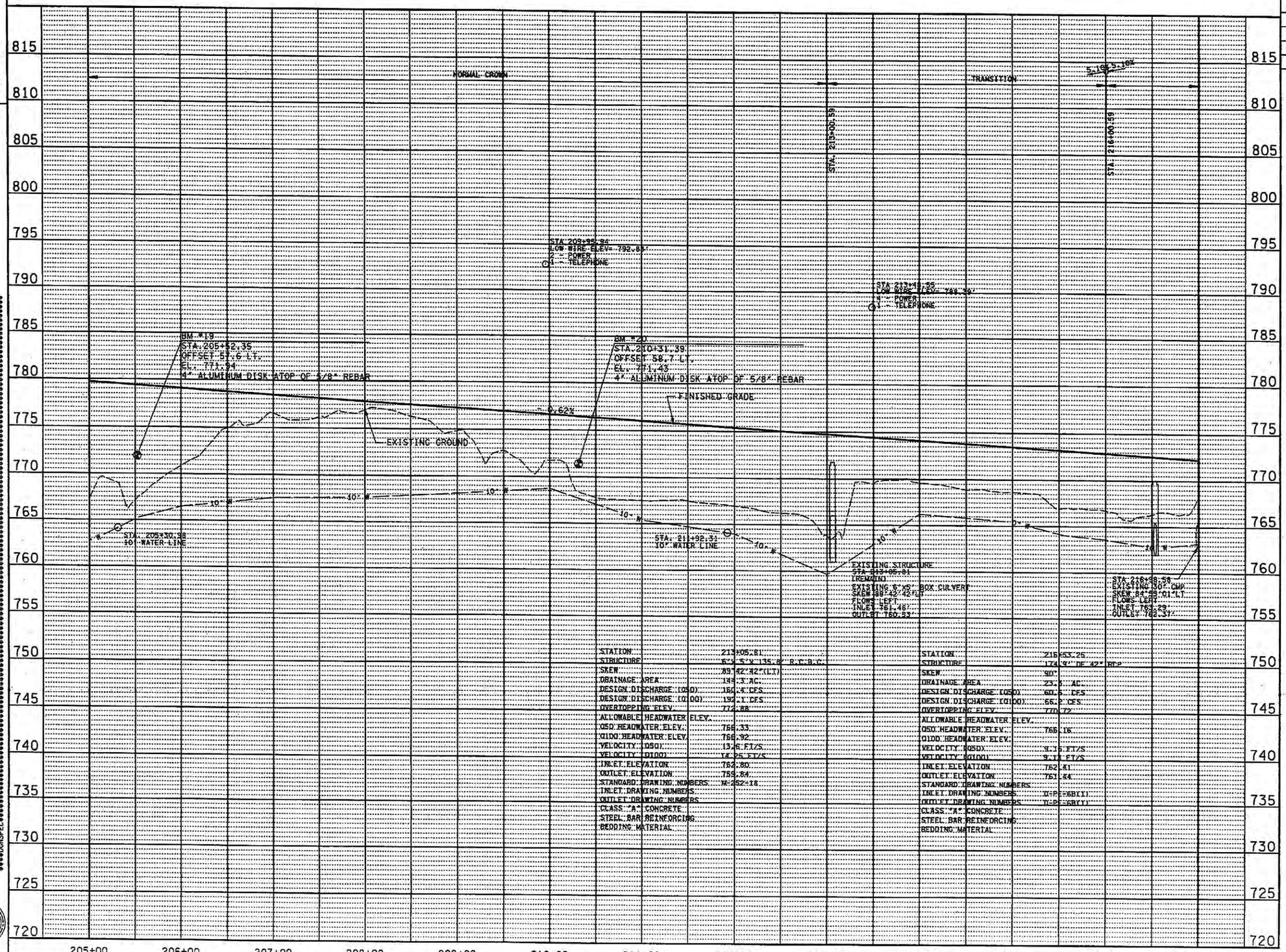
STA. 205+00 TO STA. 217+00

SCALE: 1"= 50'

$$SYTIME$$
$$DGNSPEC$$

TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2004	HPP-NH-29(36)	14B
R.O.W.	2004	HPP-NH-29(35)	



STATION	213+05.81	STATION	216+53.25
STRUCTURE	5'-5"x 5'-5"x 135.8' R.C.B.C.	STRUCTURE	174.9' OF 42" RCP
SKEW	89°42'42"(LT)	SKEW	90°
DRAINAGE AREA	189.3 AC	DRAINAGE AREA	23.5 AC
DESIGN DISCHARGE (Q50)	150.4 CFS	DESIGN DISCHARGE (Q50)	60.5 CFS
DESIGN DISCHARGE (Q100)	192.1 CFS	DESIGN DISCHARGE (Q100)	66.2 CFS
OVERTOPPING ELEV.	772.88	OVERTOPPING ELEV.	770.72
ALLOWABLE HEADWATER ELEV.		ALLOWABLE HEADWATER ELEV.	
Q50 HEADWATER ELEV.	766.33	Q50 HEADWATER ELEV.	765.16
Q100 HEADWATER ELEV.	766.92	Q100 HEADWATER ELEV.	
VELOCITY (Q50)	13.6 FT/S	VELOCITY (Q50)	9.15 FT/S
VELOCITY (Q100)	14.05 FT/S	VELOCITY (Q100)	9.18 FT/S
INLET ELEVATION	762.80	INLET ELEVATION	762.41
OUTLET ELEVATION	755.84	OUTLET ELEVATION	751.44
STANDARD DRAWING NUMBERS	M-252-18	STANDARD DRAWING NUMBERS	
INLET DRAWING NUMBERS		INLET DRAWING NUMBERS	D-PC-6B(1)
OUTLET DRAWING NUMBERS		OUTLET DRAWING NUMBERS	D-PC-6B(1)
CLASS "A" CONCRETE		CLASS "A" CONCRETE	
STEEL BAR REINFORCING		STEEL BAR REINFORCING	
BEDDING MATERIAL		BEDDING MATERIAL	

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
BUREAU OF PLANNING & DEVELOPMENT

PROFILE

STA. 205+00 TO STA. 217+00

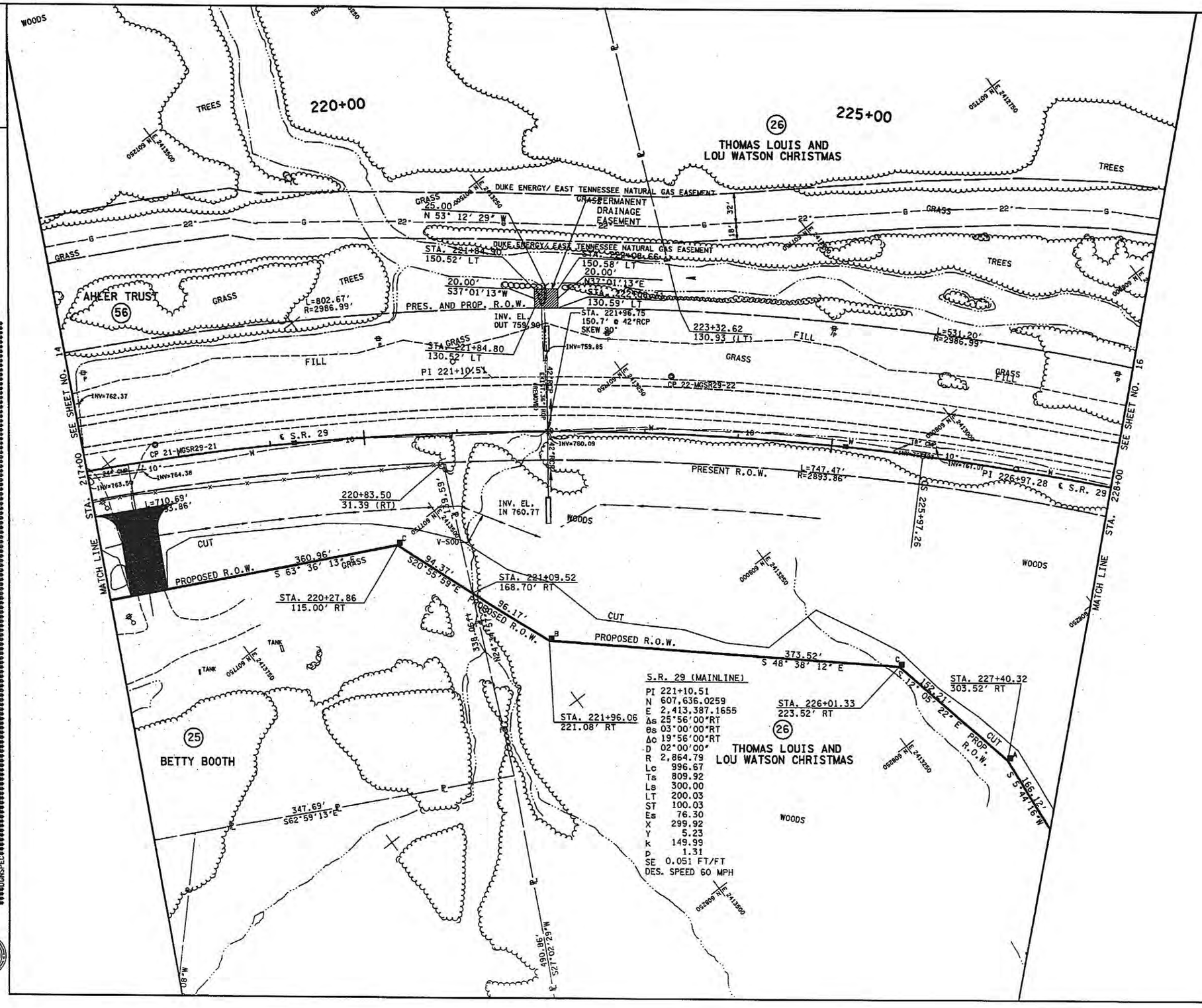
SCALE: 1"= 50' HORIZ.
1"= 5' VERT.

Survey & Design Division

$$SYTIME$$
$$DONSPEC$$

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2007	HPP-NH-29(36)	15
R.O.W.	2007	HPP-NH-29(35)	

TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.



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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
BUREAU OF PLANNING & DEVELOPMENT

PRESENT LAYOUT

STA. 217+00 TO STA. 228+00

SCALE: 1"= 50'

TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2007	HPP-NH-29(36)	15A
R.O.W.	2007	HPP-NH-29(35)	

220+00

225+00

BITTER CREEK

STA. 219+25.00
35
*38
MEDIAN DRAIN
OFFSET .58' LT.
GR. EL. 767.65
INV. EL. 763.80

INV. EL.
OUT 759.90

STA. 221+96.75
150.7' @ 42"RCP
SKEW 90°

PI 221+10.51

42"RCP

℄ S.R. 29

18" RCP

18" RCP

18" RCP

24'R.

24'R.

24'R.

24'

24'

24'

24'

SEE SHEET NO. 14A

STA. 217+00

MATCH LINE

R 25'

R 25'

INV. EL.
IN 760.77

V-SOD

37
*38
STA. 221+96.75
MEDIAN DRAIN
OFFSET .58' LT.
GR. EL. 766.25
INV. EL. IN 760.38
OUT 760.35

STA. 224+41.00

STA. 224+91.00

36
*38
STA. 225+15.00
MEDIAN DRAIN
OFFSET .58' LT.
GR. EL. 767.68
INV. EL. 764.73

92.16' 225+17.26

PI 226+97.28 ℄ S.R. 29

SEE SHEET NO. 16A

STA. 228+00

MATCH LINE

LIMIT OF CONST.
STA. 11+35.00

STA. 217+44.51
40.0' BUS. ENT.

S.R. 29 (MAINLINE)

PI 221+10.51
N 607,636.0259
E 2,413,387.1655
Δs 25°56'00"RT
θs 03°00'00"RT
Δc 19°56'00"RT
D 02°00'00"
R 2,864.79
Lc 996.67
Ts 809.92
Ls 300.00
LT 200.03
ST 100.03
Es 76.30
X 299.92
Y 5.23
k 149.99
p 1.31
SE 0.051 FT/FT
DES. SPEED 60 MPH

N

COORDINATE VALUES ARE NAD/83(1995)
AND ARE DATUM ADJUSTED BY THE
FACTOR 1.00000900 & TIED TO THE TGRN.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
BUREAU OF PLANNING & DEVELOPMENT

PROPOSED LAYOUT

STA. 217+00 TO STA. 228+00

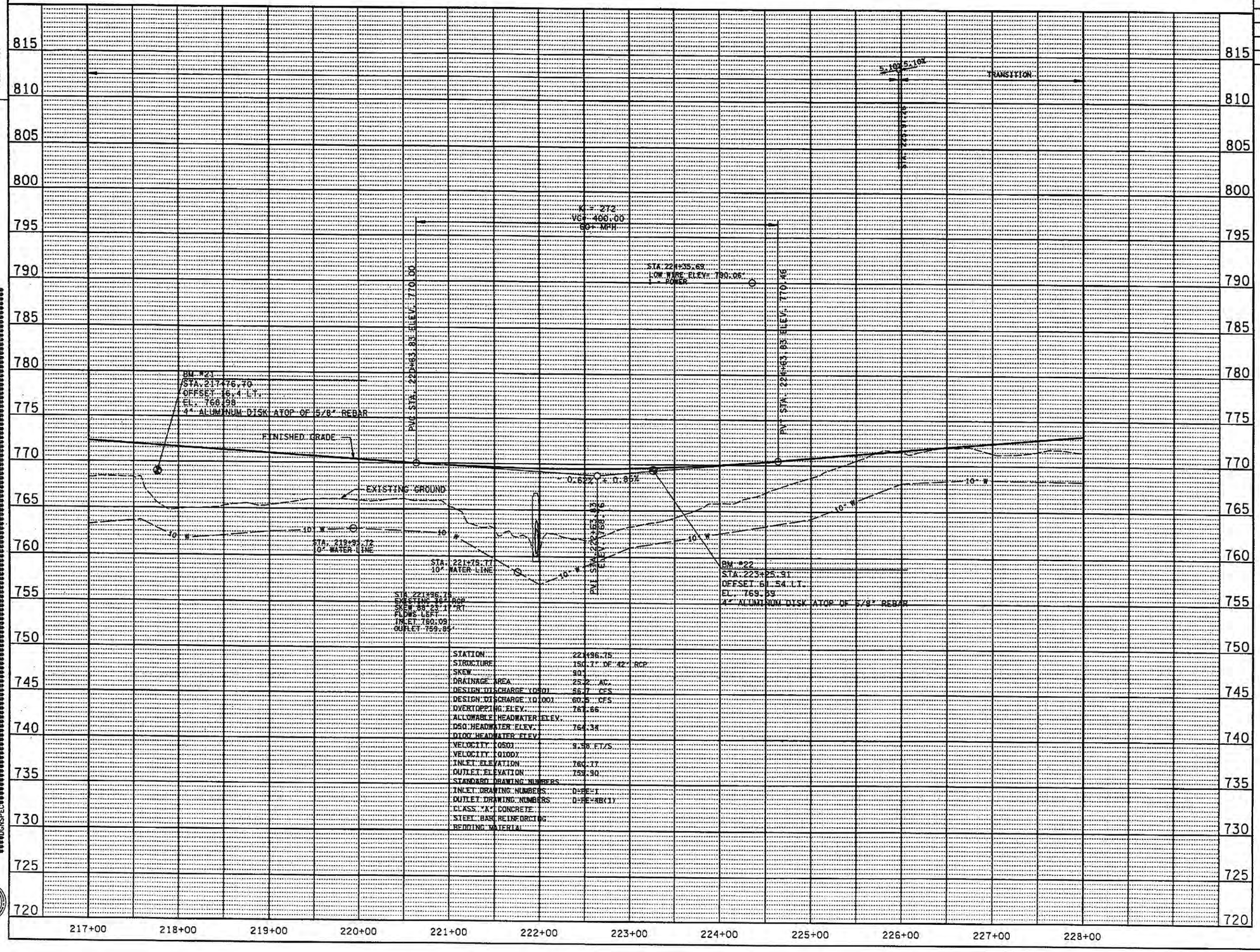
SCALE: 1"= 50'

$$SYTIME$$

$$DGNSPEC$$

TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2004	HPP-NH-29(36)	15B
R.O.W.	2004	HPP-NH-29(35)	



STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
BUREAU OF PLANNING & DEVELOPMENT

PROFILE

STA. 217+00 TO STA. 228+00
SCALE: 1"= 50' HORIZ.
1"= 5' VERT.

TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2007	HPP-NH-29(36)	16
R.O.W.	2007	HPP-NH-29(35)	

WOODS
BITTER CREEK
230+00
235+00
DUKE ENERGY/EAST TENNESSEE GAS EASEMENT
GRASS
TREES
EXTEND EXIST. CULV. 14' ON LEFT
(26) THOMAS LOUIS AND LOU WATSON CHRISTMAS
STA. 230+99.19
EX. 6'x 5' BOX CULV.
SKEW 75° RT.
(TO REMAIN)
228+44.99
129.32 (LT)
INV. EL. OUT 764.97
CUT
T-SOD
INV=765.31
TRANS. V-SOD TO T-SOD
1311.77'
N41°51'30"W
V-SOD
PRES. AND PROP. R.O.W.
STA. 236+45.09
156' OF 60" RCP
SKEW 90°
INV. EL. OUT 767.45
INV=770.58
FILL
SEE SHEET NO. 15
SEE SHEET NO. 17
STA. 228+00
STA. 240+00
MATCH LINE
CP 23-MGSR29-23
℄ S.R. 29
N 42° 02' 22" W
300.68'
N42°01'27"W
200.37'
N41°51'30"W
816.99'
N41°51'30"W
PRESENT R.O.W.
60" RCP (REMOVE)
INV=772.40
228+38.00
31.51 (RT)
228+91.26
231+38.74
31.64 (RT)
233+39.11
32.27 (RT)
INV. EL. IN 766.51
INV. EL. IN 770.03
V-SOD
CUT
GRASS
EXTEND EXIST. CULV. 92' ON RIGHT
498.52'
S 40° 55' 28" E
PROPOSED R.O.W.
417.83'
S 48° 01' 40" E
93.94'
S 62° 54' 15" E
STA. 231+51.66
138.63 RT
STA. 230+59.40
156.34' RT
STA. 236+50.09
148.33 RT
R.O. GRAVEL DR.
R.O. DIRT DR.
N 72° 46' 12" E
235.64'
PROPOSED R.O.W.
CUT 66.12'
S 54° 41' 16" W
103.41'
S 64° 07' 05" E
STA. 229+52.13
388.39 RT
STA. 228+55.88
427.24 RT
WOODS
1-S-F RES
SHED
TRAILER
TREES
368.10'
S 02° 01' 25" W
148.89'
N63° 52' 22" W
N

COORDINATE VALUES ARE NAD/83(1995) AND ARE DATUM ADJUSTED BY THE FACTOR 1.00000900 & TIED TO THE TGRN.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
BUREAU OF PLANNING & DEVELOPMENT

PRESENT LAYOUT

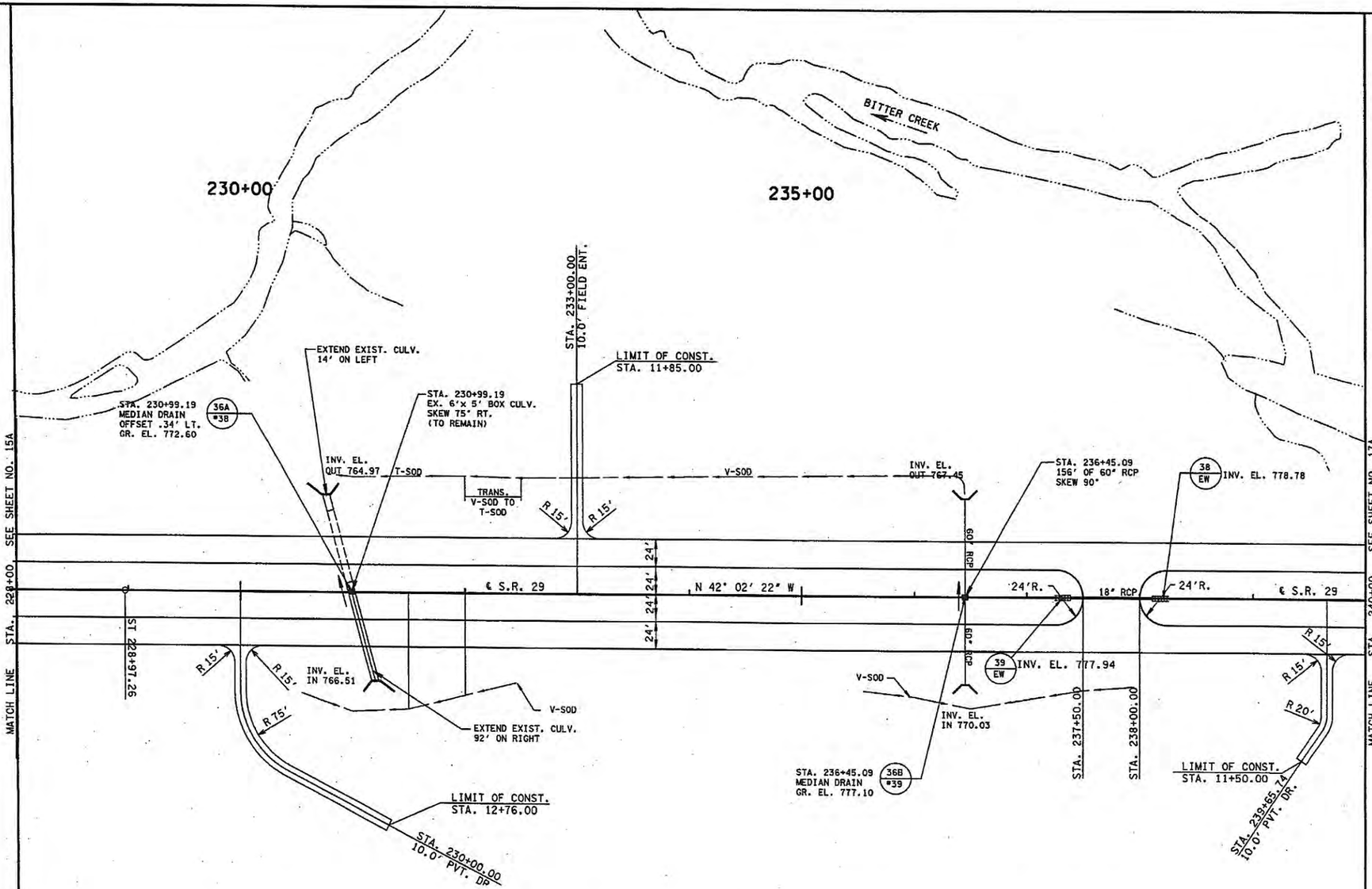
STA. 228+00 TO STA. 240+00

SCALE: 1"= 50'

@@@@SYSTIME@@@@@@@
@@@@@@ONSPEC@@@@@@@

TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2007	HPP-NH-29(36)	16A
R.O.W.	2007	HPP-NH-29(35)	



COORDINATE VALUES ARE NAD/83(1995)
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FACTOR L00000900 & TIED TO THE TCRN.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
BUREAU OF PLANNING & DEVELOPMENT

PROPOSED LAYOUT

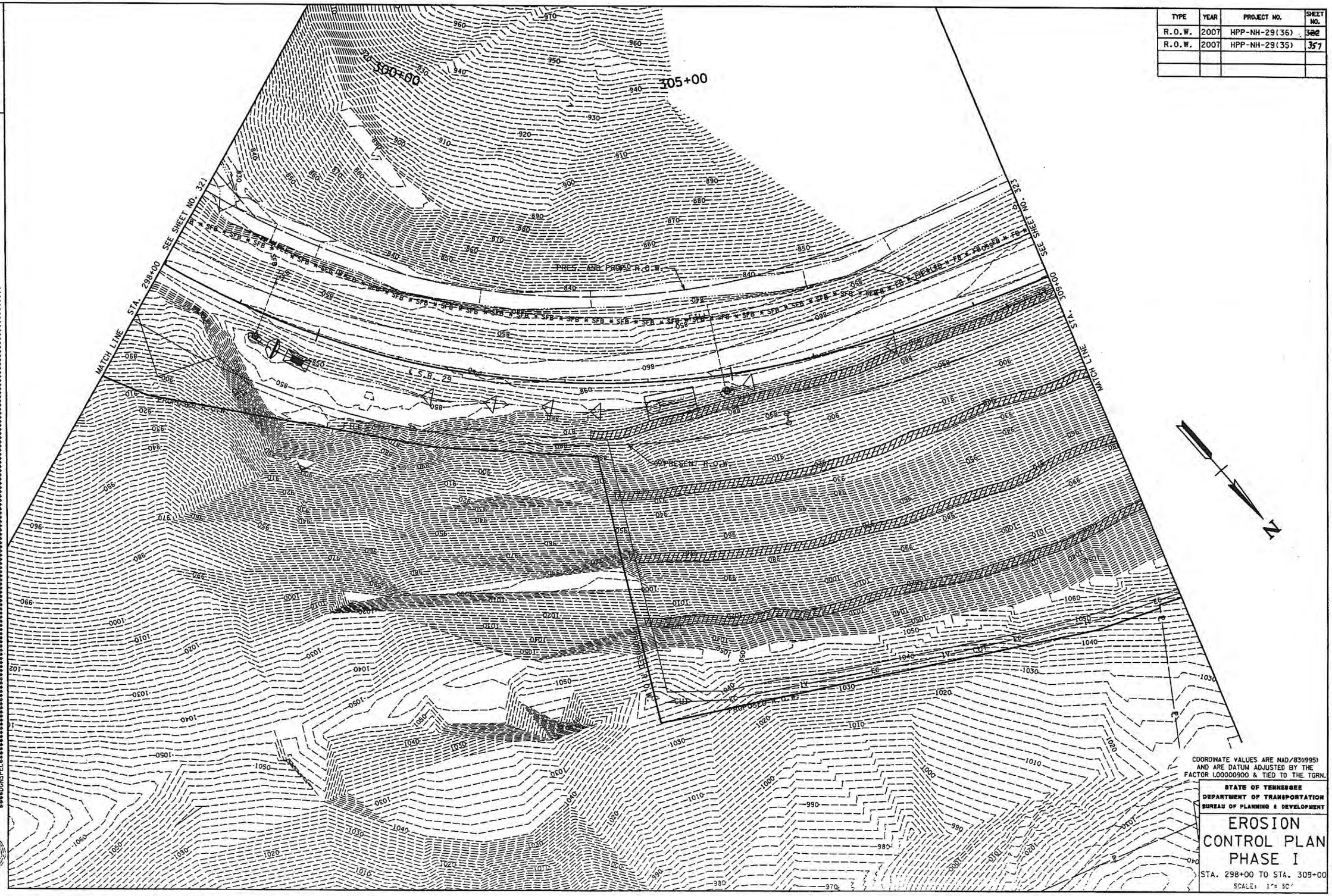
STA. 228+00 TO STA. 240+00

SCALE: 1"= 50'

$$SYTIME$$
$$ONSPEC$$

TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2007	HPP-NH-29(36)	322
R.O.W.	2007	HPP-NH-29(35)	357



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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
BUREAU OF PLANNING & DEVELOPMENT

EROSION CONTROL PLAN PHASE I

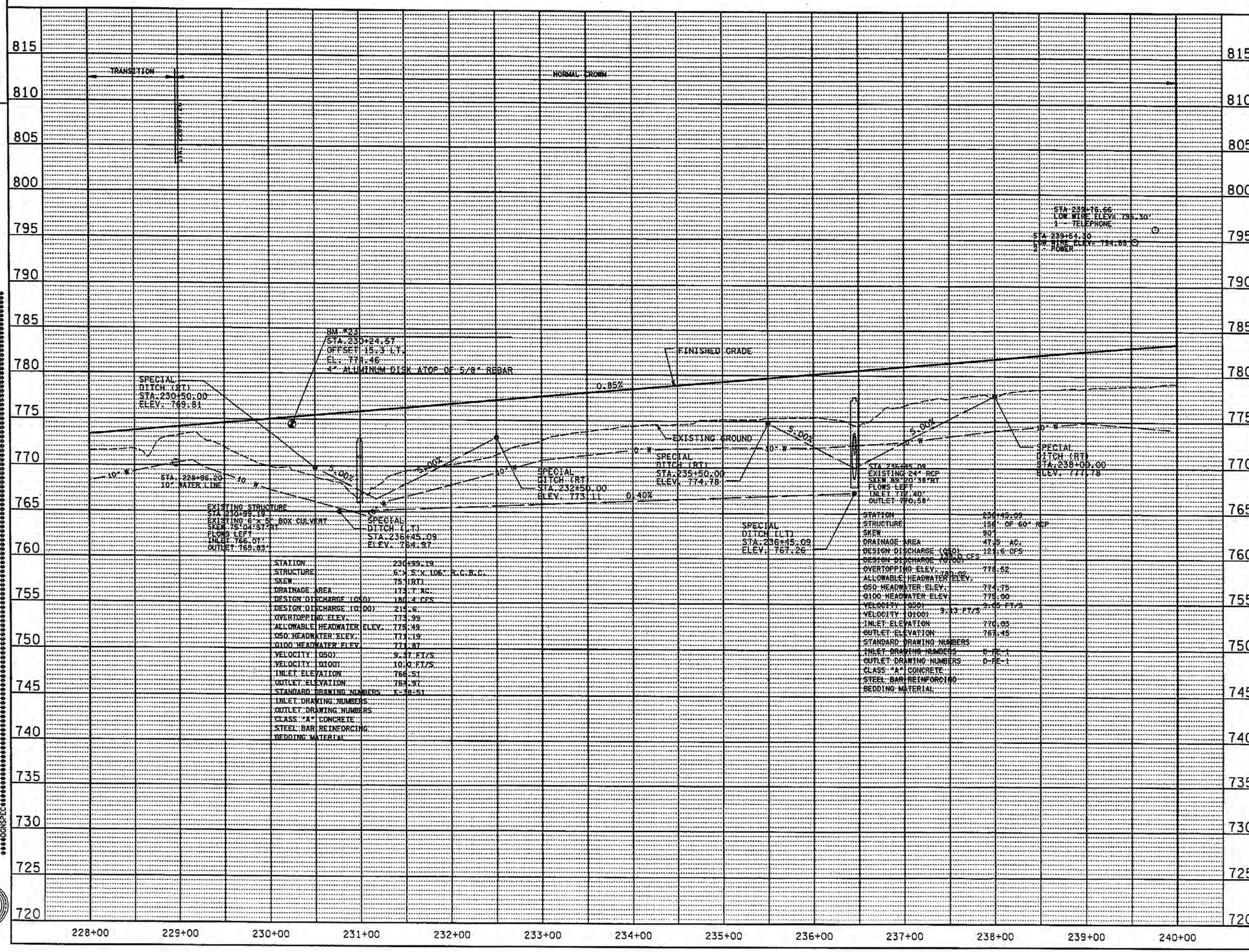
STA. 298+00 TO STA. 309+00

SCALE: 1"= 50'

$$$$SYTIME$$$$$$
$$$$DGNSPEC$$$$$$

TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2004	HPP-NH-29(36)	16B
R.O.W.	2004	HPP-NH-29(35)	



STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
BUREAU OF PLANNING & DEVELOPMENT

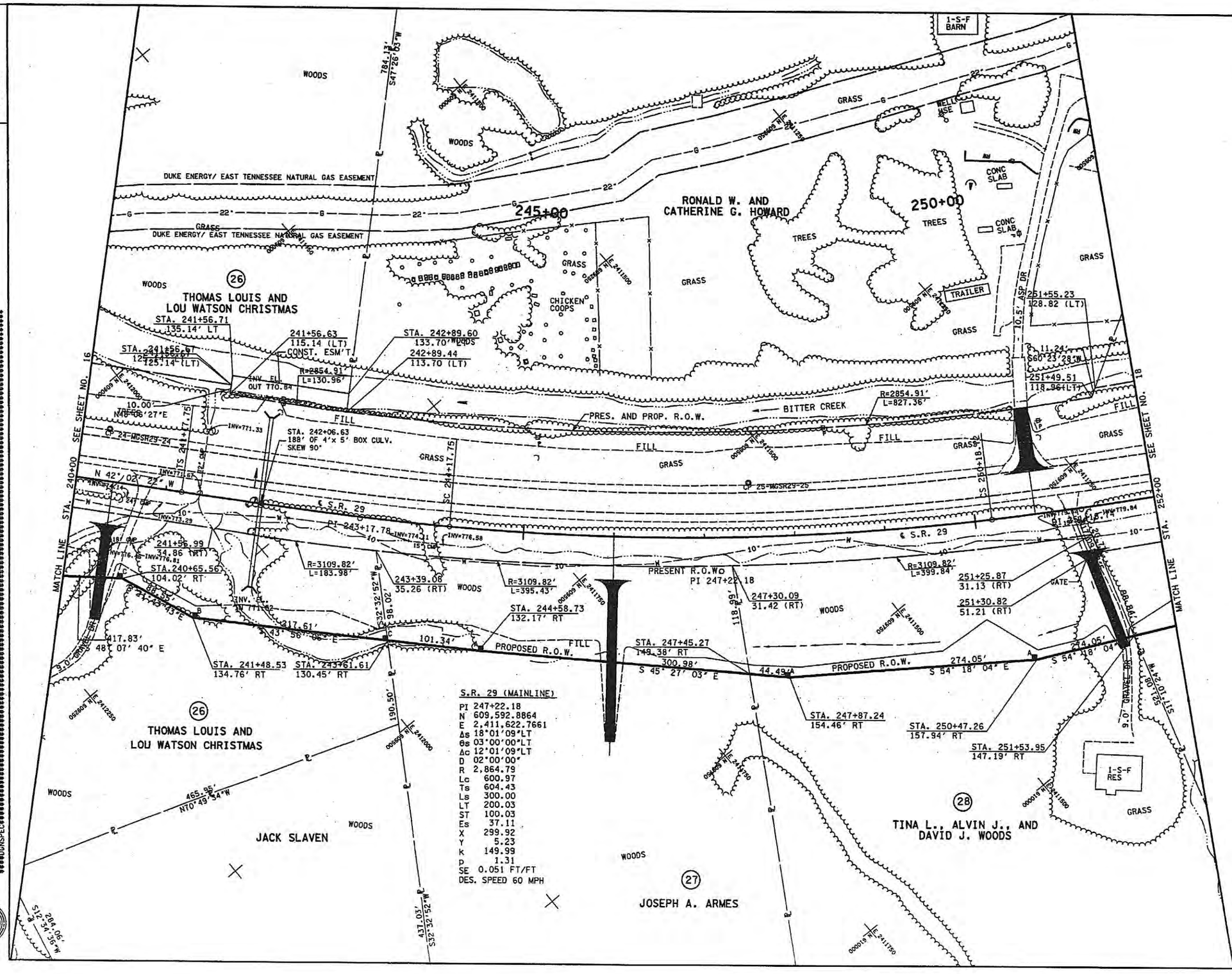
PROFILE

STA. 228+00 TO STA. 240+00
SCALE: 1"= 50' HORIZ.
1"= 5' VERT.

$$$$SYTIME$$$$$$
$$$$DGNSPEC$$$$$$

TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2007	HPP-NH-29(36)	17
R.O.W.	2007	HPP-NH-29(35)	



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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
BUREAU OF PLANNING & DEVELOPMENT

PRESENT LAYOUT

STA. 240+00 TO STA. 252+00

SCALE: 1"= 50'

TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2007	HPP-NH-29(36)	17A
R.O.W.	2007	HPP-NH-29(35)	

250+00

SEE SHEET NO. 16A

STA. 240+00

N 42° 02' 22" W

MATCH LINE

R 15'

R 15'

STA. 240+41.06
10.0' PVT. DR.

LIMIT OF CONST.
STA. 11+52.00

INV. EL.
OUT 770.84

BITTER CREEK

TS 241+17.75

STA. 242+06.63
188' OF 4'x 5' BOX CULV.
SKEW 90°

℄ S.R. 29

PI 243+17.78

SC 244+17.75

36C
#38

STA. 242+06.63
MEDIAN DRAIN
GR. EL. 782.38

INV. EL.
IN 771.82

24'

24'

24'

24'

R 15'

R 15'

PI 247+22.18

18" RCP

STA. 246+00.00
10.0' FIELD ENT.

LIMIT OF CONST.
STA. 12+24.00

GR. EL. 787.50
INV. EL. 783.25

40
#38

INV. EL. 780.63

41
EW

STA. 248+07.14
MEDIAN DRAIN
OFFSET .58' RT.
INV. EL. 783.25

INV. EL. 789.02

43
EW

LIMIT OF CONST.
STA. 11+19.26

STA. 250+67.00
15.0' PVT. DR.

CS 250+18.72

R 20'

R 20'

42
EW

INV. EL.
789.43

18" RCP

24'R.

PI 251+18.74

℄ S.R. 29 24'R.

STA. 250+40.00

STA. 250+90.00

R 20'

R 15'

LIMIT OF CONST.
STA. 11+61.60

STA. 251+71.05
10.0' PVT. DR.

SEE SHEET NO. 18A

STA. 252+00

MATCH LINE

N

S.R. 29 (MAINLINE)

PI 247+22.18
N 609,592.8864
E 2,411,622.7661
Δs 18°01'09"LT
θs 03°00'00"LT
Δc 12°01'09"LT
D 02°00'00"
R 2,864.79
Lc 600.97
Ts 604.43
Ls 300.00
LT 200.03
ST 100.03
Es 37.11
X 299.92
Y 5.23
k 149.99
p 1.31
SE 0.051 FT/FT
DES. SPEED 60 MPH

COORDINATE VALUES ARE NAD/83(1995) AND ARE DATUM ADJUSTED BY THE FACTOR 1.00000900 & TIED TO THE TGRN.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
BUREAU OF PLANNING & DEVELOPMENT

PROPOSED LAYOUT

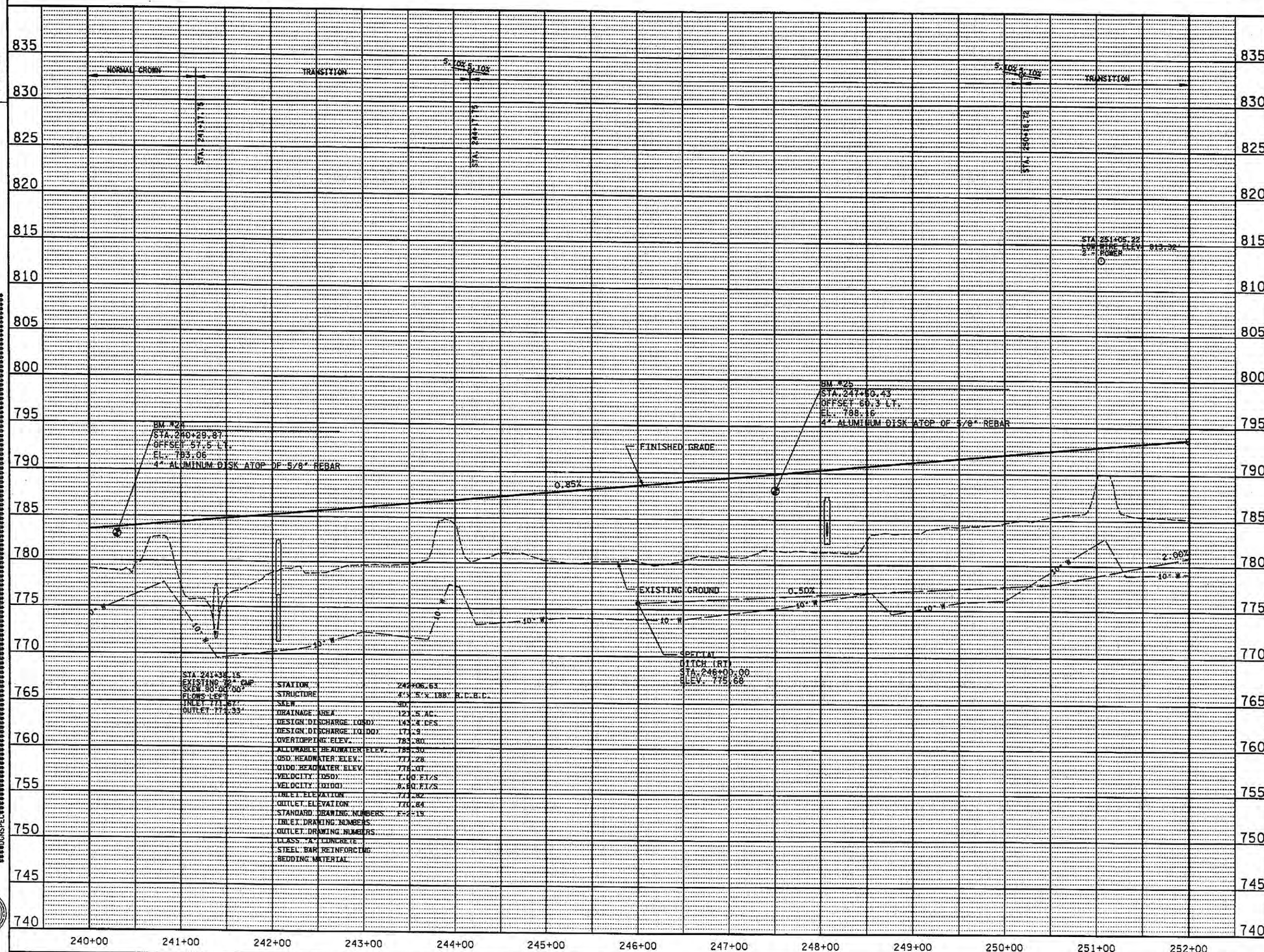
STA. 240+00 TO STA. 252+00

SCALE: 1"= 50'

$$$$SYTIME$$$$
$$$$CONSPEC$$$$

TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2004	HPP-NH-29(36)	17B
R.O.W.	2004	HPP-NH-29(35)	



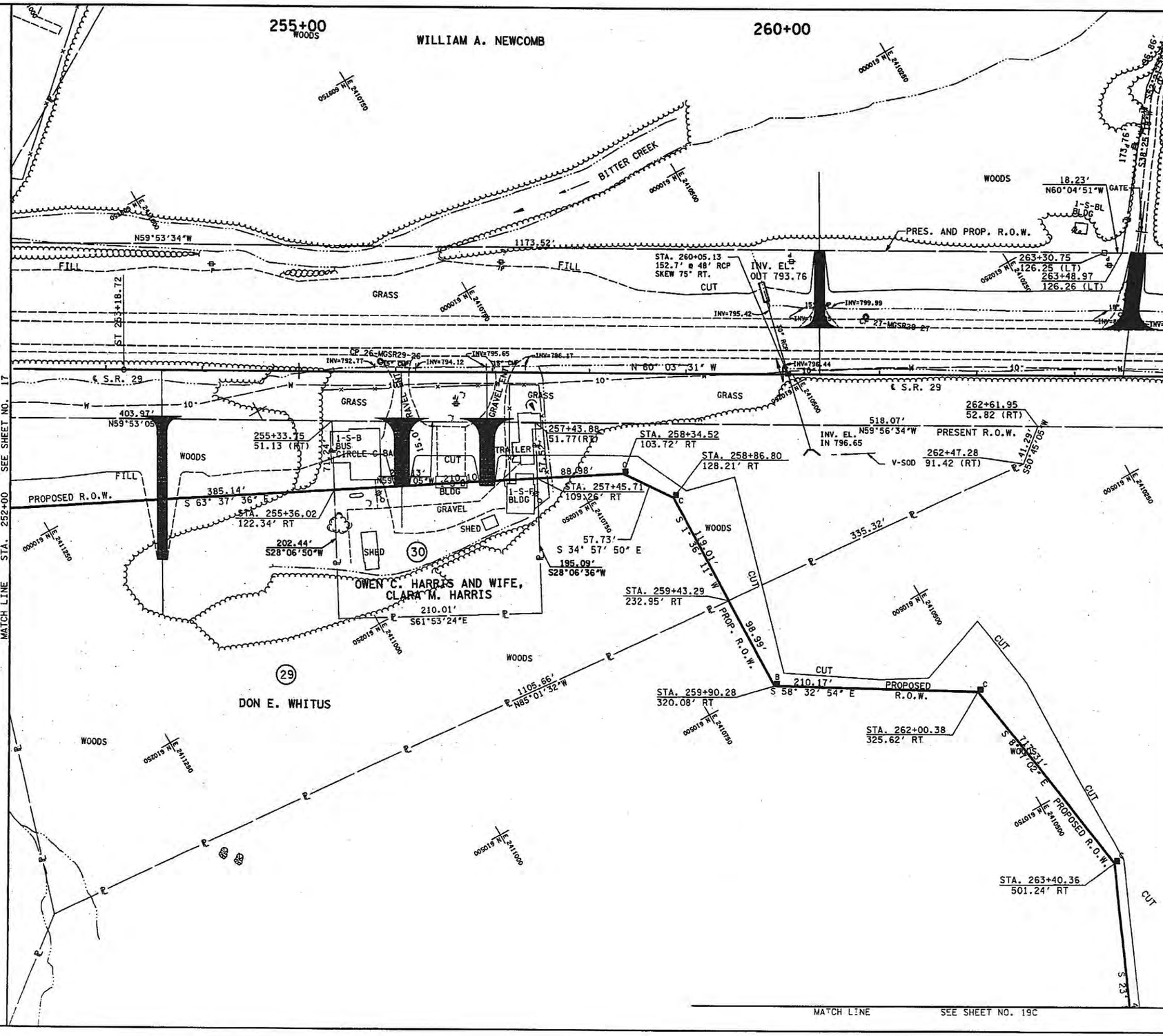
STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
BUREAU OF PLANNING & DEVELOPMENT

PROFILE

STA. 240+00 TO STA. 252+00
SCALE: 1"= 50' HORIZ.
1"= 5' VERT.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2007	HPP-NH-29(36)	18
R.O.W.	2007	HPP-NH-29(35)	

TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.



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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
BUREAU OF PLANNING & DEVELOPMENT

PRESENT LAYOUT

STA. 252+00 TO STA. 264+00

SCALE: 1"= 50'

$$SYTIME$$
$$DGNSPEC$$

TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2007	HPP-NH-29(36)	18A
R.O.W.	2007	HPP-NH-29(35)	

255+00

260+00

BITTER CREEK

LIMIT OF CONST.
STA. 11+10.00

STA. 260+38.16
10.0' FIELD ENT.

LIMIT OF CONST.
STA. 11+27.22

STA. 263+50.00
15.0' PVT. DR.

STA. 260+05.13
152.7' @ 48' RCP
SKEW 75° RT.

INV. EL.
OUT 793.76

R 15'

R 15'

R 25'

R 20'

TYPE 2

TYPE 38

TYPE 13

ST 253+18.72

44
#38

STA. 254+07.17
MEDIAN DRAIN
GR. EL. 793.00
INV. EL. 788.75

MATCH LINE STA. 252+00 SEE SHEET NO. 17A

24'

24'

24'

24'

N 60° 03' 31" W

℄ S.R. 29

℄ S.R. 29

24' R.

24' R.

18" RCP

18" RCP

MATCH LINE STA. 264+00 SEE SHEET NO. 19A

R 15'

R 15'

R 20'

R 20'

R 20'

R 20'

INV. EL.
IN 796.65

V-SOD

44A
#38

STA. 260+05.13
MEDIAN DRAIN
OFFSET .54' LT.
GR. EL. 800.47
INV. EL. 794.12

INV. EL. 804.13

47
EW

STA. 263+25.00

STA. 263+75.00

INV. EL. 804.72

46
EW

INV.EL.
784.12

45
EW

LIMIT OF CONST.
STA. 11+95.00

STA. 253+58.00
10.0' FIELD ENT.

LIMIT OF CONST.
STA. 11+18.00

STA. 256+05.92
15.0' BUS. ENT.

STA. 256+94.04
15.0' BUS. ENT.

LIMIT OF CONST.
STA. 11+17.00

N

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
BUREAU OF PLANNING & DEVELOPMENT

PROPOSED LAYOUT

STA. 252+00 TO STA. 264+00

SCALE: 1"= 50'

$$SYTIME$$

$$DGNSPEC$$

TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2004	HPP-NH-29(36)	18B
R.O.W.	2004	HPP-NH-29(35)	

TRANSITION

NORMAL CROWN

PVC STA. 252+00.00 ELEV. 743.71

PVT STA. 253+00.00 ELEV. 745.81

PVC STA. 253+50.00 ELEV. 750.56

PVT STA. 254+00.00 ELEV. 752.06

PVC STA. 259+36.72

VC= 200.00
K = 500
70 mph

STA 255+68.72
LOW WIRE ELEV= 813.66'
2 - POWER
2 - TELEPHONE

BM #26
STA. 255+84.18
OFFSET 10.5' LT.
EL. 796.76
4" ALUMINUM DISK ATOP OF 5/8" REBAR

FINISHED GRADE

EXISTING GROUND

0.85%

1.25%

10" W

STA. 259+58.32
10" WATER LINE

STA 260+05.13
EXISTING 30" RCP
SKEW 73°45'47" RT
FLOWS LEFT
INLET 796.44'
OUTLET 795.42'

SPECIAL
DITCH (RT)
STA.253+90.00
ELEV. 783.59

SPECIAL
DITCH (RT)
STA.260+23.90
ELEV. 795.35

STATION	260+05.13
STRUCTURE	152.7' OF 48" RCP
SKEW	75°(RT)
DRAINAGE AREA	21.2 AC.
DESIGN DISCHARGE (Q50)	55.0 CFS
DESIGN DISCHARGE (Q100)	70.7 CFS
OVERTOPPING ELEV.	801.57
ALLOWABLE HEADWATER ELEV.	801.07
Q50 HEADWATER ELEV.	799.67
Q100 HEADWATER ELEV.	799.93
VELOCITY (Q50)	7.47 FPS
VELOCITY (Q100)	7.55 FPS
INLET ELEVATION	796.65
OUTLET ELEVATION	795.76
STANDARD DRAWING NUMBERS	
INLET DRAWING NUMBERS	D-RE-1
OUTLET DRAWING NUMBERS	D-RE-4B(1)
CLASS "A" CONCRETE	
STEEL REINFORCING	
BEDDING MATERIAL	

5.00%

1.58%

10" W

SPECIAL
DITCH (RT)
STA.261+50.00
ELEV. 800.90

PVC STA. 263+25.00 ELEV. 807.36

845 840 835 830 825 820 815 810 805 800 795 790 785 780 775 770 765 760 755 750

252+00 253+00 254+00 255+00 256+00 257+00 258+00 259+00 260+00 261+00 262+00 263+00 264+00

****SYTIME****
****DONSPEC****

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
BUREAU OF PLANNING & DEVELOPMENT

PROFILE

STA. 252+00 TO STA. 264+00

SCALE: 1"= 50' HORIZ.
1"= 5' VERT.

TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2007	HPP-NH-29(36)	19
R.O.W.	2007	HPP-NH-29(35)	

265+00
270+00
275+00
WOODS
WILLIAMS S. BRISSEY, TRUSTEE NO. IV
(57)
57.75' N59°46'56"W
268+50.86
122.72 (LT)
STA. 268+00.00
138.56' LT
8.60' S09°49'04"W
269+06.10
129.46 (LT)
STA. 268+60.00
INV. EL. 123.56' LT
OUT 797.82
PRES. AND PROP. R.O.W.
499.64' N60°04'51"W
GRASS
237.42' N71°31'56"W
CONSTR. ESMT.
809.00' N59°46'56"W
269+08.91
121.32 (LT)
INV. EL. OUT 796.20
INV=795.12
INV=796.80
INV=797.25
INV=796.90
INV=796.65
PRES. AND PROP. R.O.W.
CUT
FILL
INV=801.40
INV=803.19
℄ S.R. 29
PI 267+57.22
PI 273+98.43
STA. 270+28.20
153.9' @ 30"RCP
SKEW 90°
269+69.81
60.05 (RT)
709.22' N59°58'39"W
PRESENT R.O.W.
INV. EL. IN 800.55
STA. 266+62.04
164' @ 30"RCP
SKEW 90°
14.92' N09°01'54"E
269+74.80
74.11 (RT)
INV. EL. IN 802.50
240.00
TREES N60°02'18"W
INV. EL. IN 803.85
GATE
GRAVEL DR.
534.20' N59°38'10"W
362.90'
S 59°18'01" E
℄ PROPOSED R.O.W.
STA. 272+71.98
EXIST. 36"RCP x 73.9' LG.
SKEW 90°
(TO REMAIN)
EXTEND EXIST. CULV.
24' ON LT.
BITTER CREEK
417.35' N64°20'56"W
N76°34'56"W 152.60'
DONALD G. JONES
(49)
SHED
GATE
STA. 273+84.79
NO. 2 JUNCTION BOX RT
EXTEND EXIST. CULV.
49' ON RT.
RAYMOND W. AND ANNIE T. CURTIS
(33)
S57°42'00"E
129.56'
S36°00'00"E
155.19'
TRAIL
S.R. 29 (MAINLINE)
PI 273+99.43
N 610917.377
E 2409287.196
A 01 °36'20"RT
D 00 °15'00"
R 22920.78
T 321.14
Lc 642.25
SE NC
DES. SPEED 60 MPH
TRANS. LENGTH 0 FT.
STA. 273+00.89
143.13' RT
STA. 272+66.99
137.83' RT
STA. 273+84.79
STA. 272+71.98
STA. 270+99.73
110.90' RT
STA. 270+29.47
163.01' RT
272+09.81
66.23 (RT)
272+24.77
97.14 (RT)
S.R. 29 (MAINLINE)
PI 267+57.22
N 610612.538
E 2409852.495
A 01 °36'20"LT
D 00 °15'00"
R 22918.31
T 321.11
Lc 642.18
SE NC
DES. SPEED 60 MPH
TRANS. LENGTH 0 FT.
STA. 269+85.92
195.62' RT
STA. 269+59.43
266.35' RT
PROPOSED R.O.W.
N 49°19'16" E 666.06'
N 34°56'28.14" E 472.18'
S 03°12'02" E 754.51'
CUT
WOODS
(31)
PER O. LOSETH
(32)
LANDON KEITH BASS
MATCH LINE STA. 264+00 SEE SHEET NO. 18
MATCH LINE STA. 275+00 SEE SHEET NO. 20
MATCH LINE
SEE SHEET NO. 19C

COORDINATE VALUES ARE NAD/83(1995) AND ARE DATUM ADJUSTED BY THE FACTOR L00000900 & TIED TO THE TGRN.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
BUREAU OF PLANNING & DEVELOPMENT

PRESENT LAYOUT

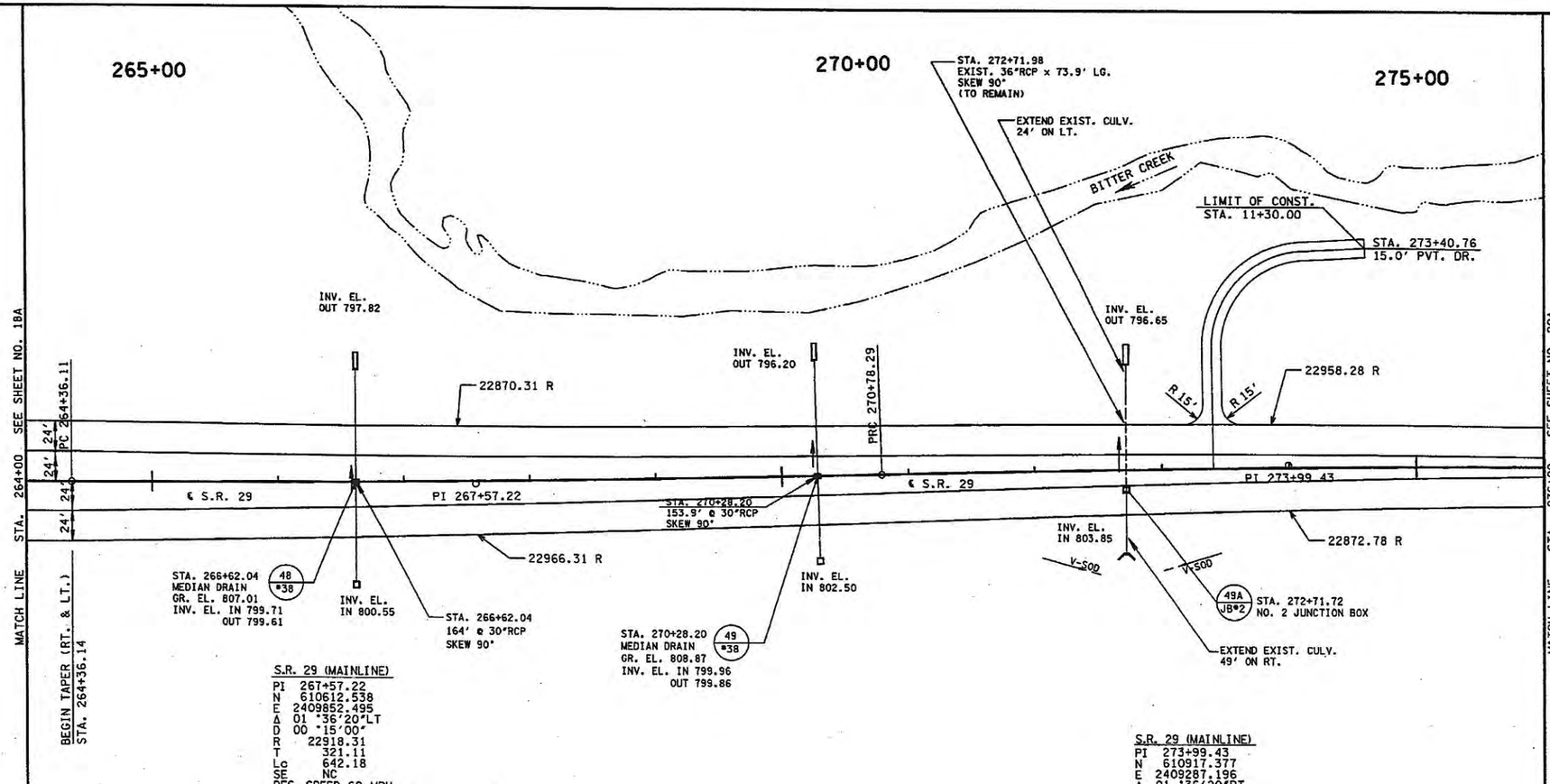
STA. 264+00 TO STA. 276+00

SCALE: 1"= 50'

$$SYSTIME$$
$$DGNSPEC$$

TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2007	HPP-NH-29(36)	19A
R.O.W.	2007	HPP-NH-29(35)	



S.R. 29 (MAINLINE)
PI 267+57.22
N 610612.538
E 2409852.495
Δ 01 °36'20"LT
D 00 °15'00"
R 22918.31
T 321.11
Lc 642.18
SE NC
DES. SPEED 60 MPH
TRANS. LENGTH 0 FT.

S.R. 29 (MAINLINE)
PI 273+99.43
N 610917.377
E 2409287.196
Δ 01 °36'20"RT
D 00 °15'00"
R 22920.78
T 321.14
Lc 642.25
SE NC
DES. SPEED 60 MPH
TRANS. LENGTH 0 FT.

COORDINATE VALUES ARE NAD/83(1995)
AND ARE DATUM ADJUSTED BY THE
FACTOR 1.00000900 & TIED TO THE TGRN.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
BUREAU OF PLANNING & DEVELOPMENT

PROPOSED LAYOUT

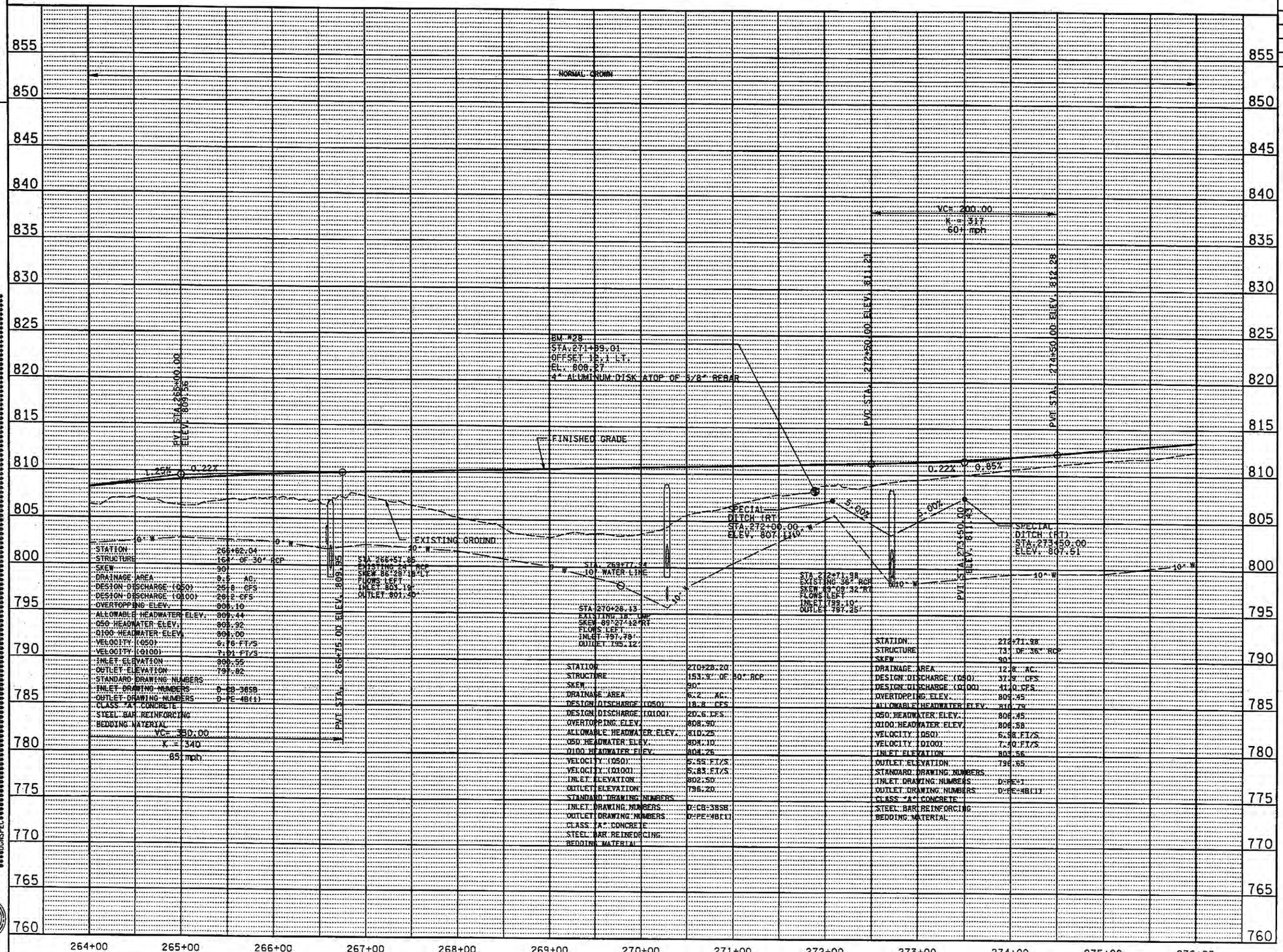
STA. 264+00 TO STA. 276+00

SCALE: 1"= 50'

$$$$$SYTIME$$$$$$
$$$$$DONSPEC$$$$$$

TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2004	HPP-NH-29(36)	19B
R.O.W.	2004	HPP-NH-29(35)	



****SYTIME****
****DONSPEC****

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
BUREAU OF PLANNING & DEVELOPMENT

PROFILE

STA. 264+00 TO STA. 276+00

SCALE: 1"= 50' HORIZ.
1"= 5' VERT.