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

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
BUREAU OF ENGINEERING

TENN.	YEAR	SHEET NO.
	2004	1
FED. AID PROJ. NO.	BRZE-7300(22)	
STATE PROJ. NO.	73950-2543-94	

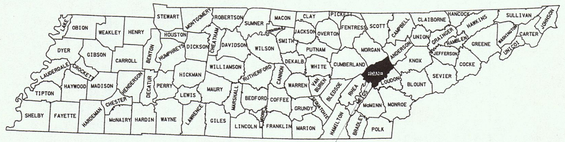
ROANE COUNTY

MARGRAVE DRIVE, LOCAL ROUTE 3689
BRIDGE AND APPROACHES OVER SOUTHERN R/R @ L.M. 0.45

R.O.W.

STATE HIGHWAY NO.-NA F.A.H.S. NO.-NA

Index of Sheets (R.O.W.)



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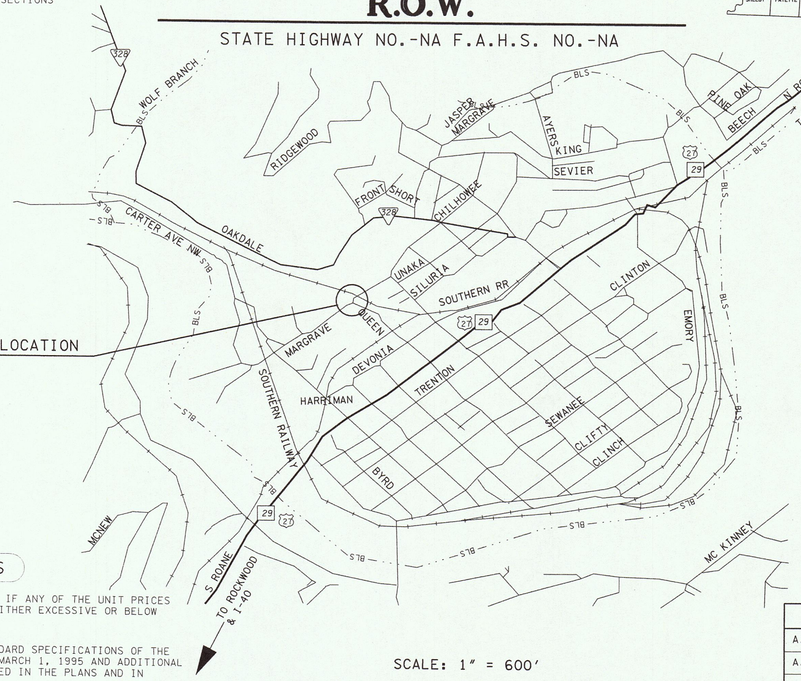


73950-2543-94
R.O.W. PROJECT BRZE-7300(22) LOCATION
BEGIN STA. 51+27.00
END STA. 57+81.00

FOR R.O.W. FIELD REVIEW ONLY

"NO EQUATIONS"
"NO EXCLUSIONS"

RANDY W. BECKNER
REGISTERED ENGINEER
AGRICULTURE
NO. 101571
STATE OF TENNESSEE

APPROVED: Paul D. Degges
CHIEF ENGINEER

DATE:

APPROVED: Gerald F. Neely
COMMISSIONER

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, 1995 AND ADDITIONAL SPECIFICATIONS AND SPECIAL PROVISIONS CONTAINED IN THE PLANS AND IN THE PROPOSAL CONTRACT

TDOT TRANSPORTATION MANAGER 1 CLIFFORD STEWART

DESIGNED BY MATTERN & CRAIG

DESIGNER RANDY DODSON

P.E. NO. 73950-1542-94

SCALE: 1" = 600'

⊛ R.O.W. LENGTH = 0.124 MILES
⊛ R.O.W. LENGTH BASED ON CONSTRUCTION EASEMENT LENGTH.

TRAFFIC DATA	
A.D.T. (2005)	3,600
A.D.T. (2025)	5,000
D.H.V. (2025)	550
D	60-40
T (A.D.T.)	3%
T (D.H.V.)	2%
V	30 mph

U.S. DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION

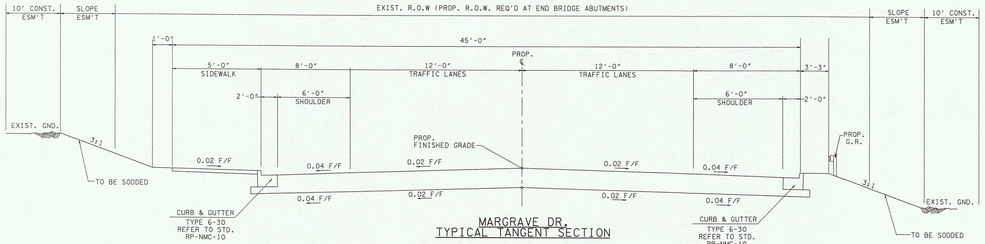
APPROVED:

DIVISION ADMINISTRATOR DATE

$$$$$DGNSPEC$$$$$
$$$$$STIME$$$$$

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2004	BRZE-7300(22)	2

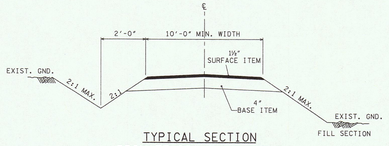
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.



MARGRAVE DR. TYPICAL TANGENT SECTION

STD. DWG. RD-TS-2 AND RD-TS-6

STA. 51+20 TO 57+55



TYPICAL SECTION PRIVATE DRIVE TO FIELD OR RESIDENTIAL PROPERTY

1. REFER TO PROP. LAYOUTS FOR LOCATIONS
2. WHERE SURFACE OF EXIST. DRIVE IS CONCRETE, SUBSTITUTE 6" OF CONCRETE FOR BASE AND SURFACE.
3. DITCH TO BE CONSTRUCTED WHERE DIRECTED BY THE ENGINEER

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
BUREAU OF PLANNING & DEVELOPMENT

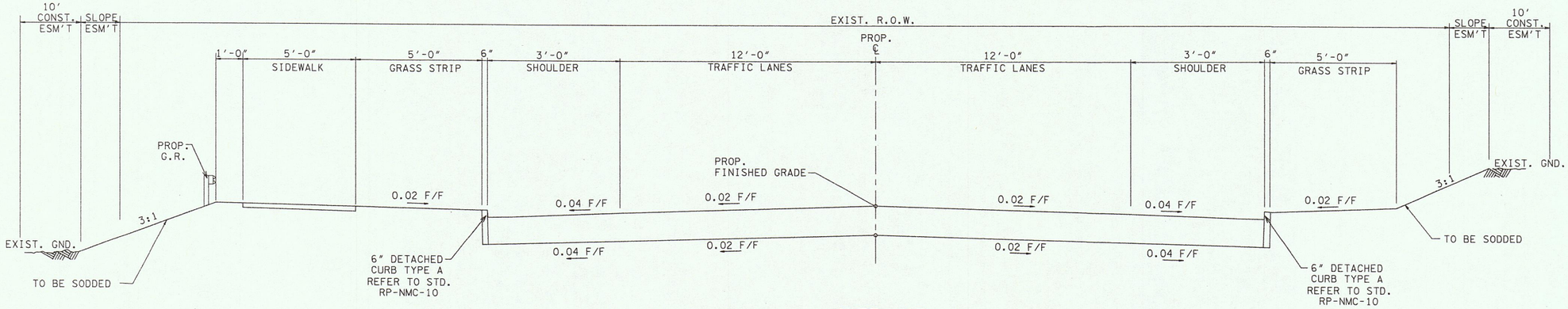
TYPICAL SECTIONS

NOT TO SCALE

$$$$$$$$TIME$$$$$$$$
$$$$$$$$DGN$$$$$$$$

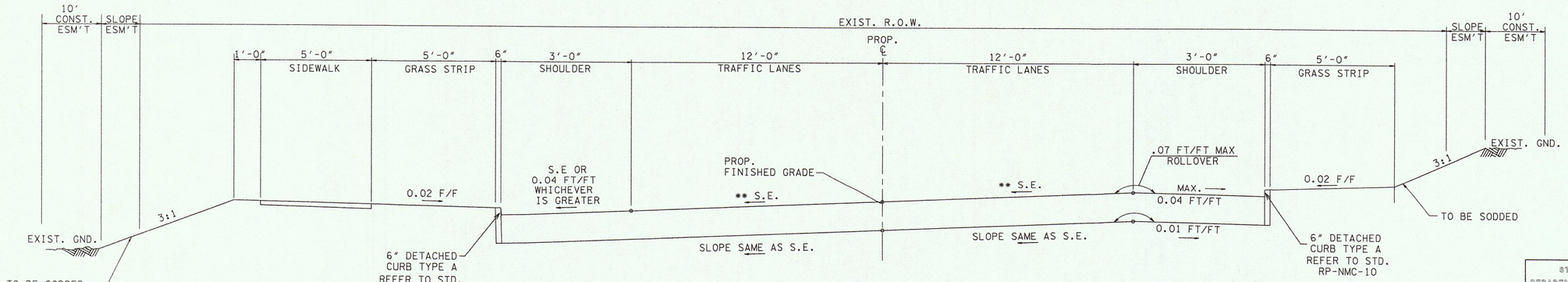
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2004	BRZE-7300(22)	2A



QUEEN ST.
TYPICAL TANGENT SECTION

STD. DWG RD-TS-1 AND RD-TS-6
STA. 30+13.76 TO 31+52.42
STA. 33+52.42 TO 34+20



QUEEN ST.
TYPICAL SUPERELEVATED SECTION

STD. DWG. RD-ST-1 AND RD-ST-6
STA 31+52.42 TO 33+52.42

** SEE PRESENT LAYOUT AND PROFILE LAYOUT FOR SUPERELEVATED RATES

`$$$$SYTIME$$$$$$`
`$$$$DGNSPEC$$$$`

Survey & Design Division

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
BUREAU OF PLANNING & DEVELOPMENT

TYPICAL
SECTIONS
QUEEN ST.

NOT TO SCALE

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

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2004	BRZE-7300(22)	3

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, DESIGN DIVISON 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 ON 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 RP-R-1 AND OTHER ACCEPTED DESIGN AND SAFETY STANDARDS.

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

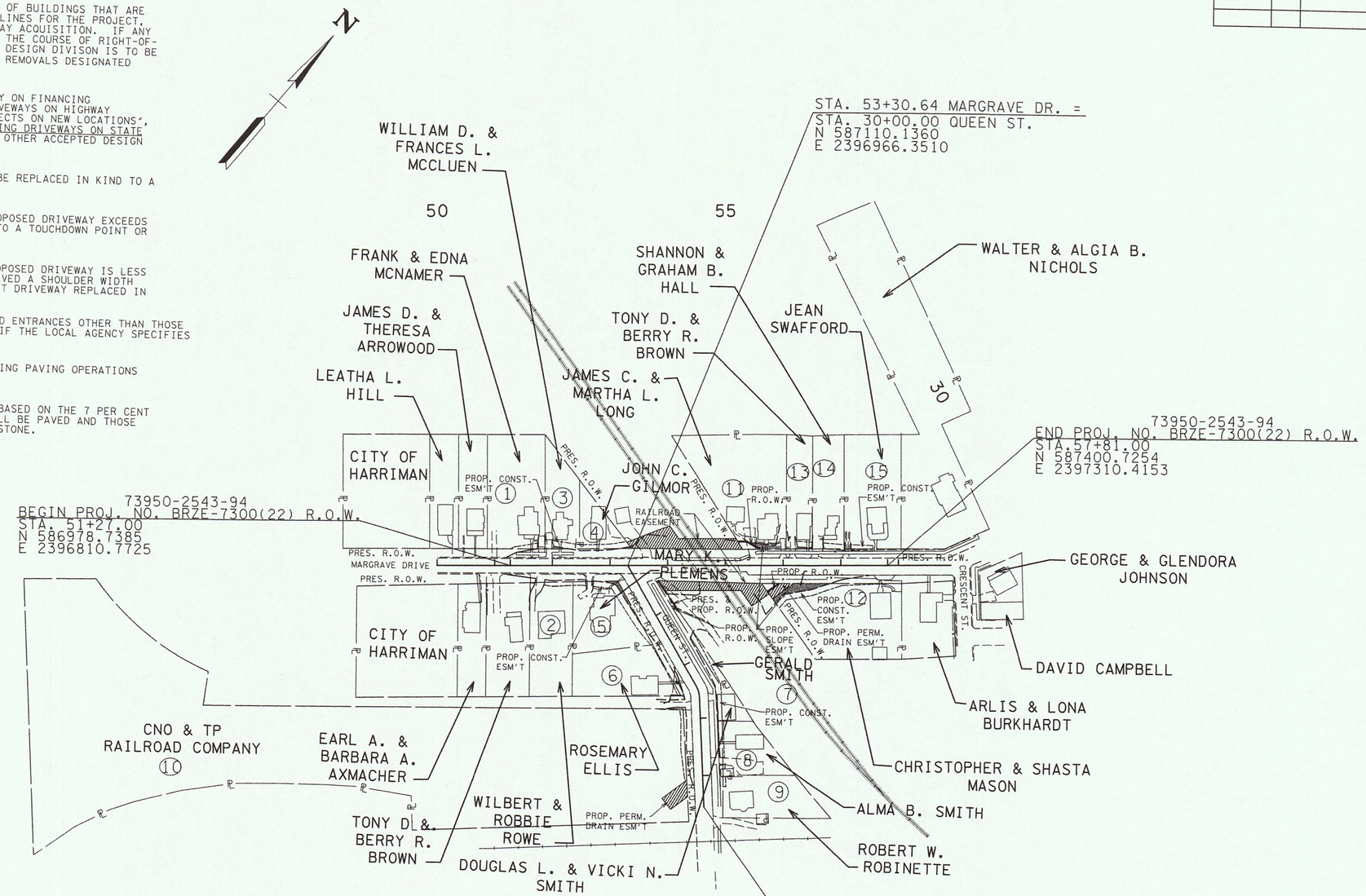
WHERE THE EXISTING DRIVEWAY IS UNPAVED AND THE PROPOSED DRIVEWAY EXCEEDS 7 PER CENT IN GRADE, EACH DRIVEWAY WILL BE PAVED TO A TOUCHDOWN POINT OR UNTIL THE GRADE IS LESS THAN 7 PER CENT.

WHERE THE EXISTING DRIVEWAY IS UNPAVED AND THE PROPOSED DRIVEWAY IS LESS THAN 7 PER CENT 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.

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 THAT PERMIT.

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 PER CENT CRITERIA. THOSE 7 PER CENT OR STEEPER IN GRADE WILL BE PAVED AND THOSE FLATTER THAN 7 PER CENT WILL BE COVERED WITH BASE STONE.



NOTE:
BEGIN-END R.O.W. STATIONS
BASED ON CONST. ESM'T LENGTH

UTILITY OWNERS
PHONE: BELLSOUTH
CONTACT: JAMES VANDEE
9733 PARKSIDE DRIVE, KNOXVILLE, TN 37922
(865)539-8519

CABLE: COMCAST
CONTACT: BARRY SIPE
408 SOUTH WHITE STREET, ATHENS, TN 37303
(865) 862-5050

WATER, POWER, SEWER: HARRIMAN UTILITY BOARD
300 NORTH ROANE STREET, HARRIMAN, TN 37748
CONTACT: FRANKIE DAVIS
(865) 882-3242

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
BUREAU OF PLANNING & DEVELOPMENT

PROPERTY MAP

STA. 50+00 TO STA. 58+91
SCALE: 1"=100'

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

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2004	BRZE-7300(22)	3A

R.O.W. ACQUISITION TABLE

TRACT NO.	PROPERTY OWNER	COUNTY RECORDS				TOTAL AREA (ACRES)			AREA TO BE AQUIRED (ACRES)			AREA REMAINING (ACRES)		EASEMENT (SQUARE FEET)		
		TAX MAP	PARCEL	DEED BOOK	PAGE	LEFT	RIGHT	TOTAL	LEFT	RIGHT	TOTAL	LEFT	RIGHT	PERM. DRAINAGE	SLOPE	CONST.[1]
1	FRANK & EDNA MCNAMER	26F "B"	3.00	P8	177	0.460		0.460				0.460				281
2	WILBERT & ROBBIE ROWE	26F "C"	21.00	R5	518		0.240	0.240					0.240			339
3	WILLIAM D. & FRANCES L. MCCLUEN	26F "B"	2.00	O8	248	0.220		0.220				0.220			72	443
4	JOHN C. GILMOR	26F "B	1.00	A14	239	0.120		0.120				0.120			33	696
5	MARY K. PLEMENS	26F "C	22.00	Z21	255		0.300	0.300					0.300		386	1585
6	ROSEMARY ELLIS	26F "C"	23.00	D22	456		0.320	0.320					0.320			237
7	GERALD SMITH	26F "D"	5.00	J21	233		1913 S.F.	1913 S.F.		250 S.F.	250 S.F.		1663 S.F.		208	1010
8	ALMA B. SMITH	26F "D"	4.00	L11	371		0.190	0.190					0.190			197
9	ROBERT W. ROBINETTE	26F "D"	3.00	WB23	436		0.270	0.270					0.270			95
10	CNO & TP RAILROAD CO.	26F "C"	1.00	NA	NA		5.700	5.700					5.700	1089		681
11	JAMES C. & MARTHA L. LONG	26C "B"	18.00, 19.00	G7, 016	47, 374	0.630		0.630	310 S.F.		310 S.F.	0.623			364	200
12	CHRISTOPHER & SHASTA MASON	26F "D"	6.00	B22	454		0.590	0.590		226 S.F.	226 S.F.		0.585	527	932	1318
13	TONY D. & BERRY R. BROWN	26C "B"	17.00	L21	704	0.210		0.210				0.210			112	263
14	SHANNON & GRAHAM B. HALL	26C "B"	16.00	A22	908	0.250		0.250				0.250				325
15	JEAN SWAFFORD	26C "B"	15.00	S9	236	0.450		0.450				0.450				262

1 TO BE USED FOR CONSTRUCTION WORKING ROOM AROUND CUT AND FILL AREAS AND FOR TEMPORARY EROSION CONTROL FEATURES.

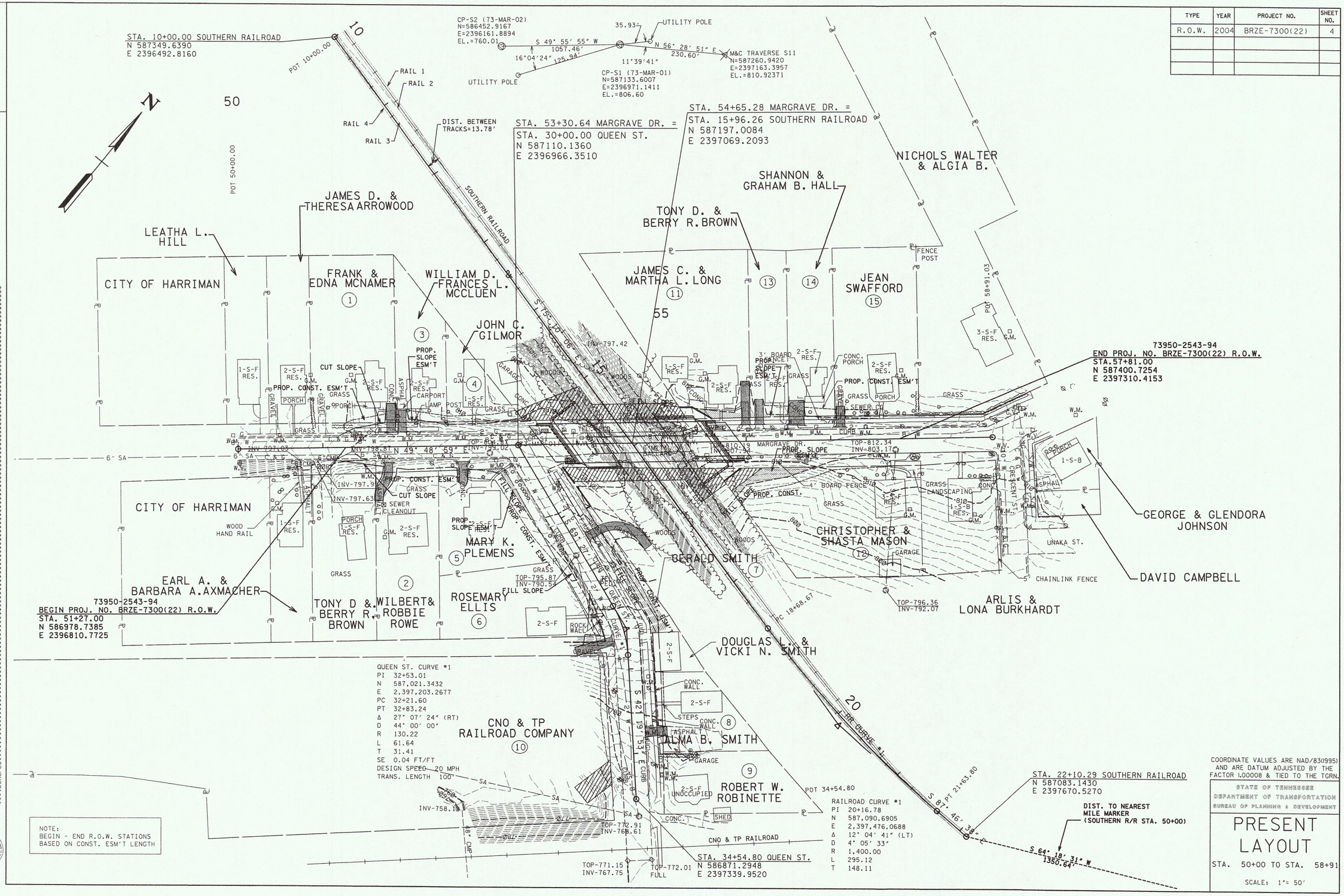
STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

RIGHT-OF-WAY ACQUISITION TABLE

$$$$$TIME$$$$$$
$$$$$DGNSPEC$$$$$$

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

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2004	BRZE-7300(22)	4



QUEEN ST. CURVE #1

PI	32+53.01
N	587,021.3432
E	2,397,203.2677
PC	32+21.60
PT	32+83.24
Δ	27° 07' 24" (RT)
D	44° 00' 00"
R	130.22
L	61.64
T	31.41
SE	0.04 FT/FT
DESIGN SPEED	20 MPH
TRANS. LENGTH	100'

RAILROAD CURVE #1

PI	20+16.78
N	587,090.6905
E	2,397,476.0688
Δ	12° 04' 41" (LT)
D	4° 05' 33"
R	1,400.00
L	295.12
T	148.11

NOTE:
BEGIN - END R.O.W. STATIONS
BASED ON CONST. ESM'T LENGTH

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

Survey & Design Division

COORDINATE VALUES ARE NAD/83(1995) AND ARE DATUM ADJUSTED BY THE FACTOR 1.00008 & TIED TO THE TGRN.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
BUREAU OF PLANNING & DEVELOPMENT

PRESENT LAYOUT

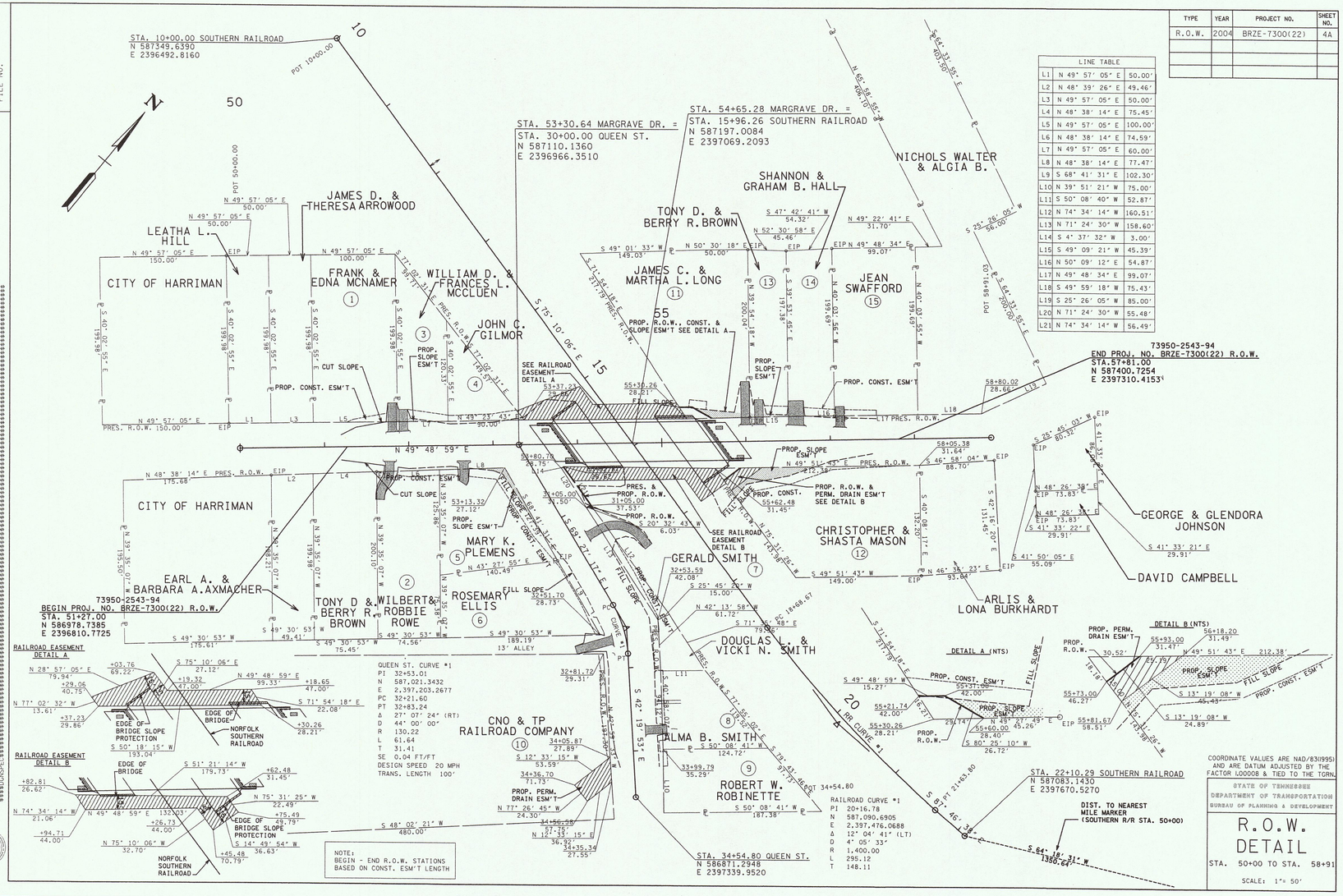
STA. 50+00 TO STA. 58+91

SCALE: 1"= 50'

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

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2004	BRZE-7300(22)	4A

LINE TABLE		
L1	N 49° 57' 05" E	50.00'
L2	N 48° 39' 26" E	49.46'
L3	N 49° 57' 05" E	50.00'
L4	N 48° 38' 14" E	75.45'
L5	N 49° 57' 05" E	100.00'
L6	N 48° 38' 14" E	74.59'
L7	N 49° 57' 05" E	60.00'
L8	N 48° 38' 14" E	77.47'
L9	S 68° 41' 31" E	102.30'
L10	N 39° 51' 21" W	75.00'
L11	S 50° 08' 40" W	52.87'
L12	N 74° 34' 14" W	160.51'
L13	N 71° 24' 30" W	158.60'
L14	S 4° 37' 32" W	3.00'
L15	S 49° 09' 21" W	45.39'
L16	N 50° 09' 12" E	54.87'
L17	N 49° 48' 34" E	99.07'
L18	S 49° 59' 18" W	75.43'
L19	S 25° 26' 05" W	85.00'
L20	N 71° 24' 30" W	55.48'
L21	N 74° 34' 14" W	56.49'



COORDINATE VALUES ARE NAD/83(1995) AND ARE DATUM ADJUSTED BY THE FACTOR 1.00008 & TIED TO THE TGRN.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
BUREAU OF PLANNING & DEVELOPMENT

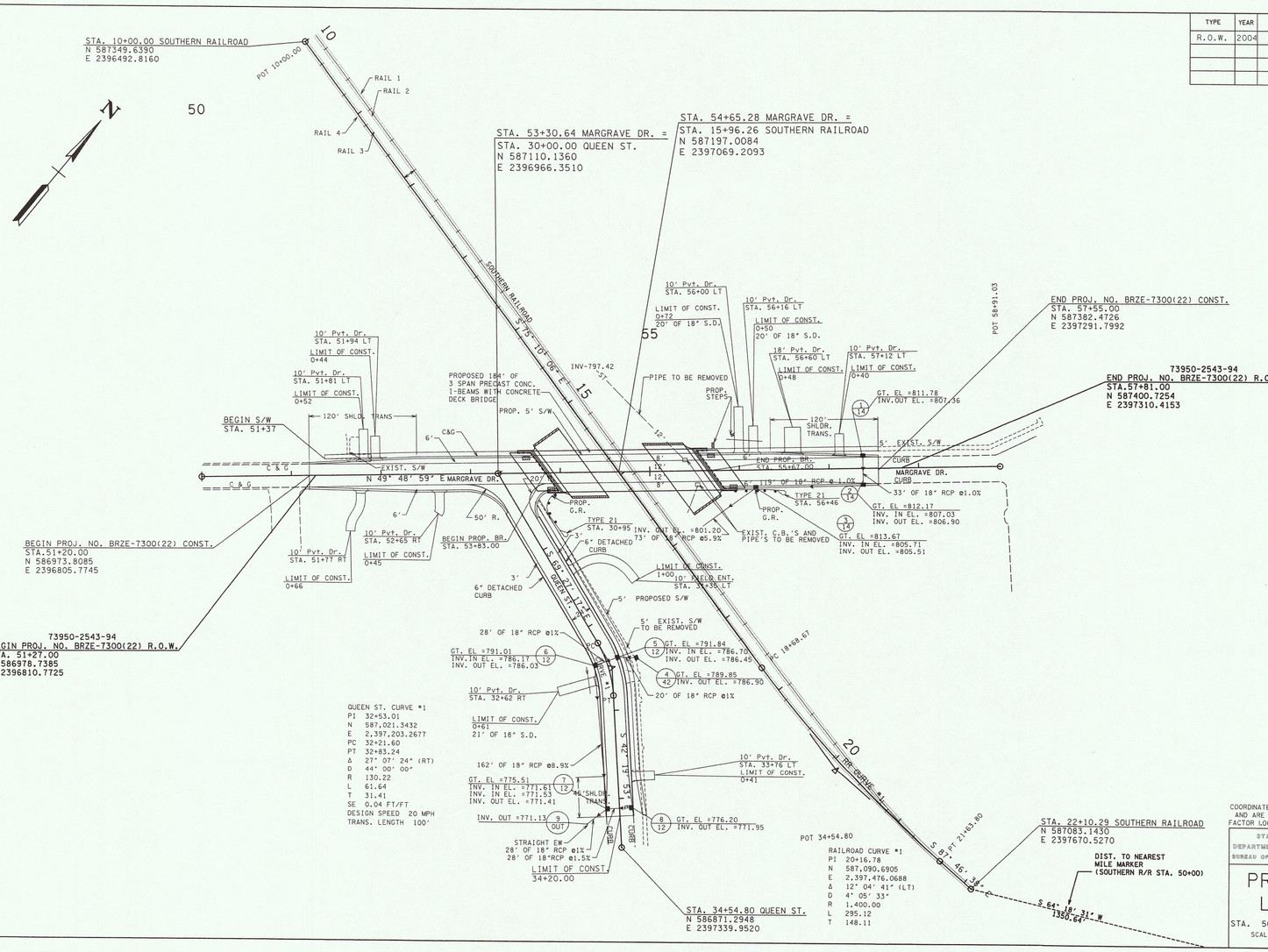
R.O.W. DETAIL

STA. 50+00 TO STA. 58+91

SCALE: 1" = 50'

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

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2004	BRZE-7300(22)	4B



COORDINATE VALUES ARE NAD/83(1995) AND ARE DATUM ADJUSTED BY THE FACTOR L00008 & TIED TO THE TGRN.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
BUREAU OF PLANNING & DEVELOPMENT

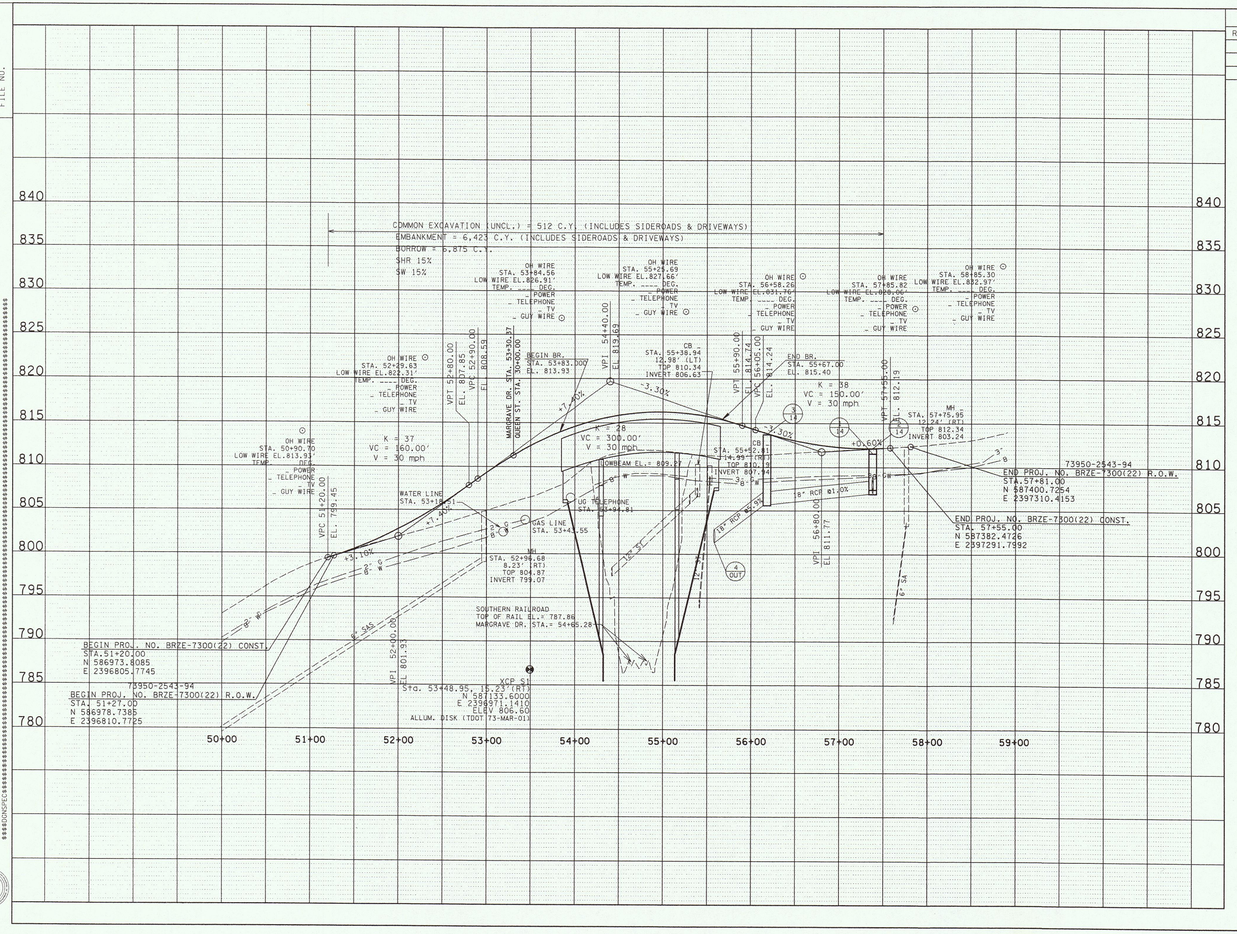
PROPOSED LAYOUT

STA. 50+00 TO STA. 58+91

SCALE: 1"= 50' HORIZ.

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

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2004	BRZE-7300(22)	4C



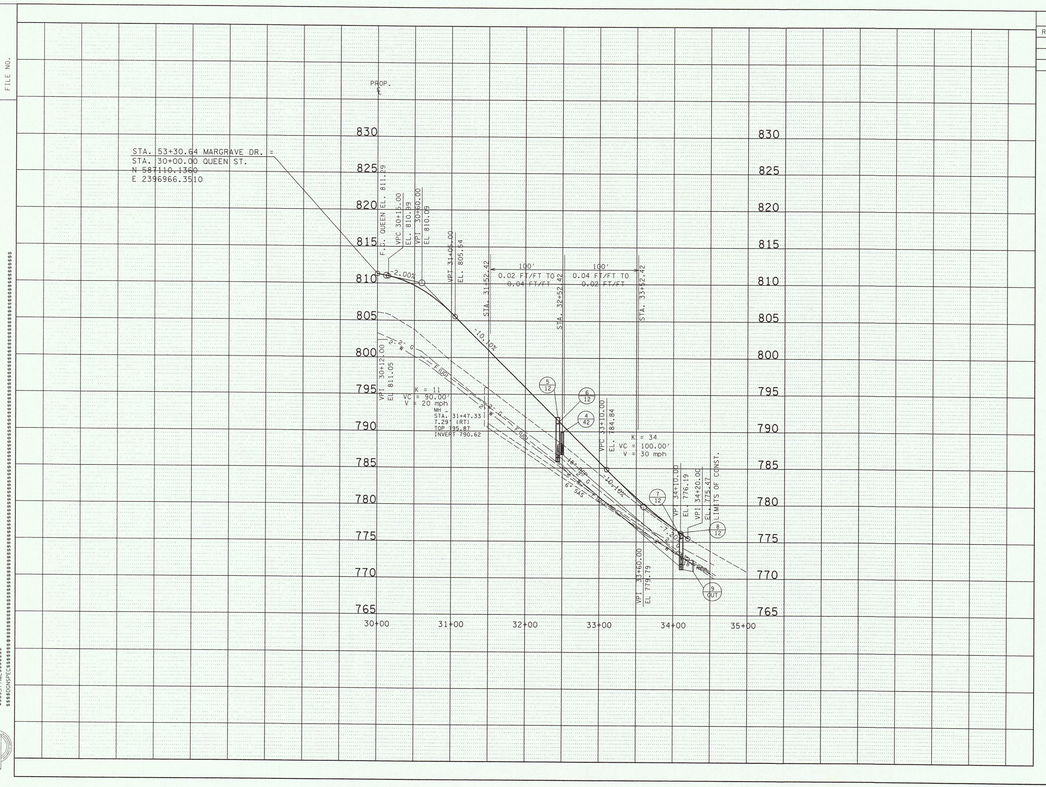
STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
BUREAU OF PLANNING & DEVELOPMENT

PROFILE OF MARGRAVE DR.

STA. 50+00 TO STA. 58+91
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	BRZE-7300(22)	5



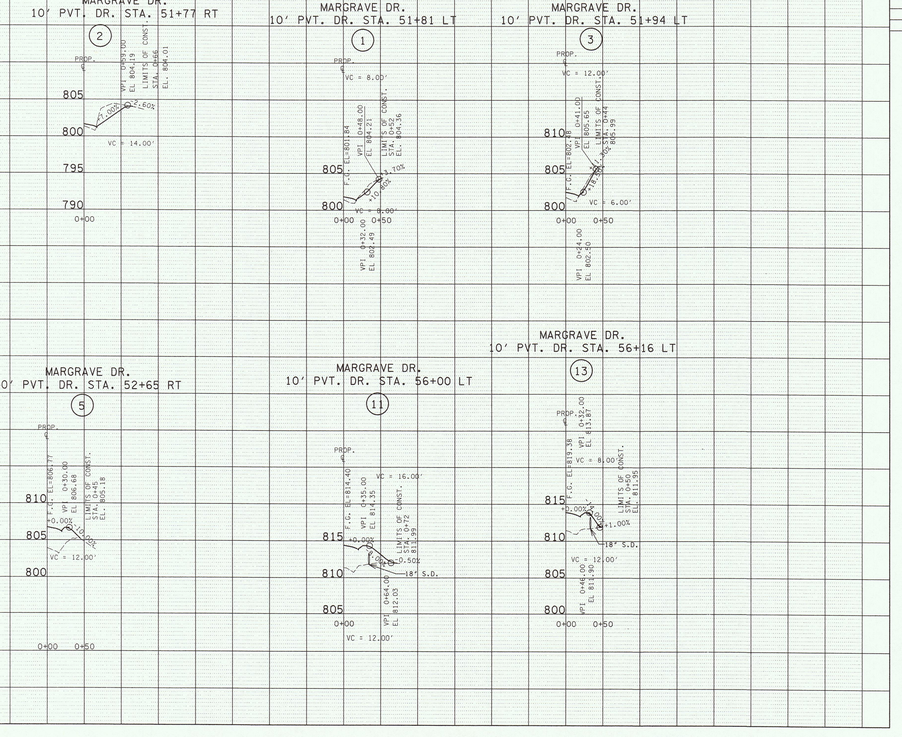
STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
BUREAU OF PLANNING & DEVELOPMENT

PROFILE OF QUEEN ST.

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	BRZE-7300(22)	6



STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
BUREAU OF PLANNING & DEVELOPMENT

DRIVEWAY PROFILES

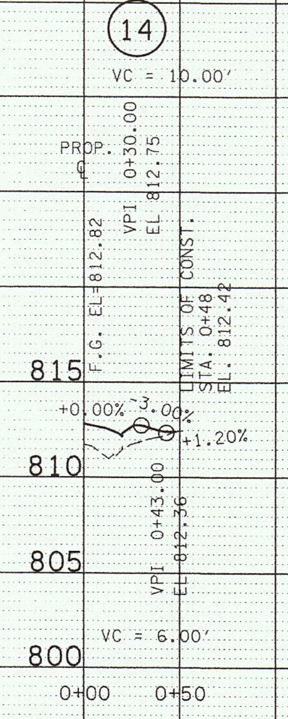
SCALE: 1"= 50' HORIZ.
1"= 5' VERT.

TENNESSEE D.O.T.
DESIGN DIVISION

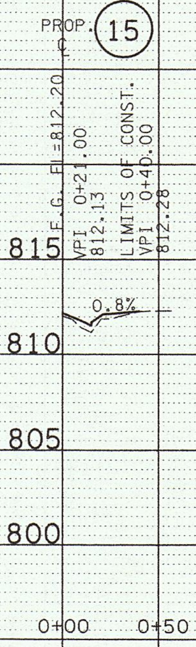
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2004	BRZE-7300(22)	7

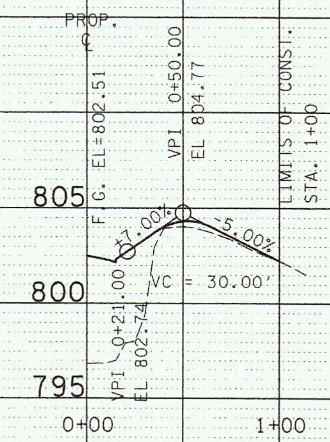
MARGRAVE DR.
18′ PVT. DR. STA. 56+60 LT



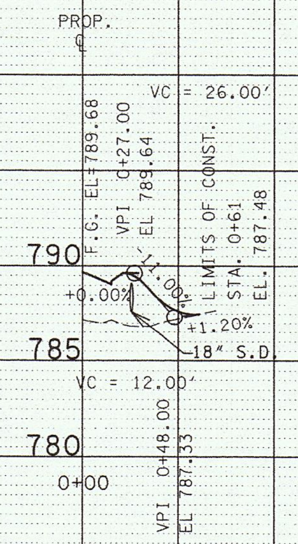
MARGRAVE DR.
10′ PVT. DR. STA. 57+12 LT



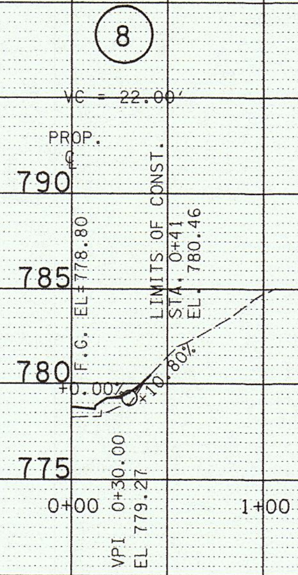
QUEENS ST.
10′ FIELD ENT. STA. 31+35 LT



QUEENS ST.
10′ PVT. DR. STA. 32+62 RT



QUEEN ST.
10′ PVT. DR. STA. 33+76 LT



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

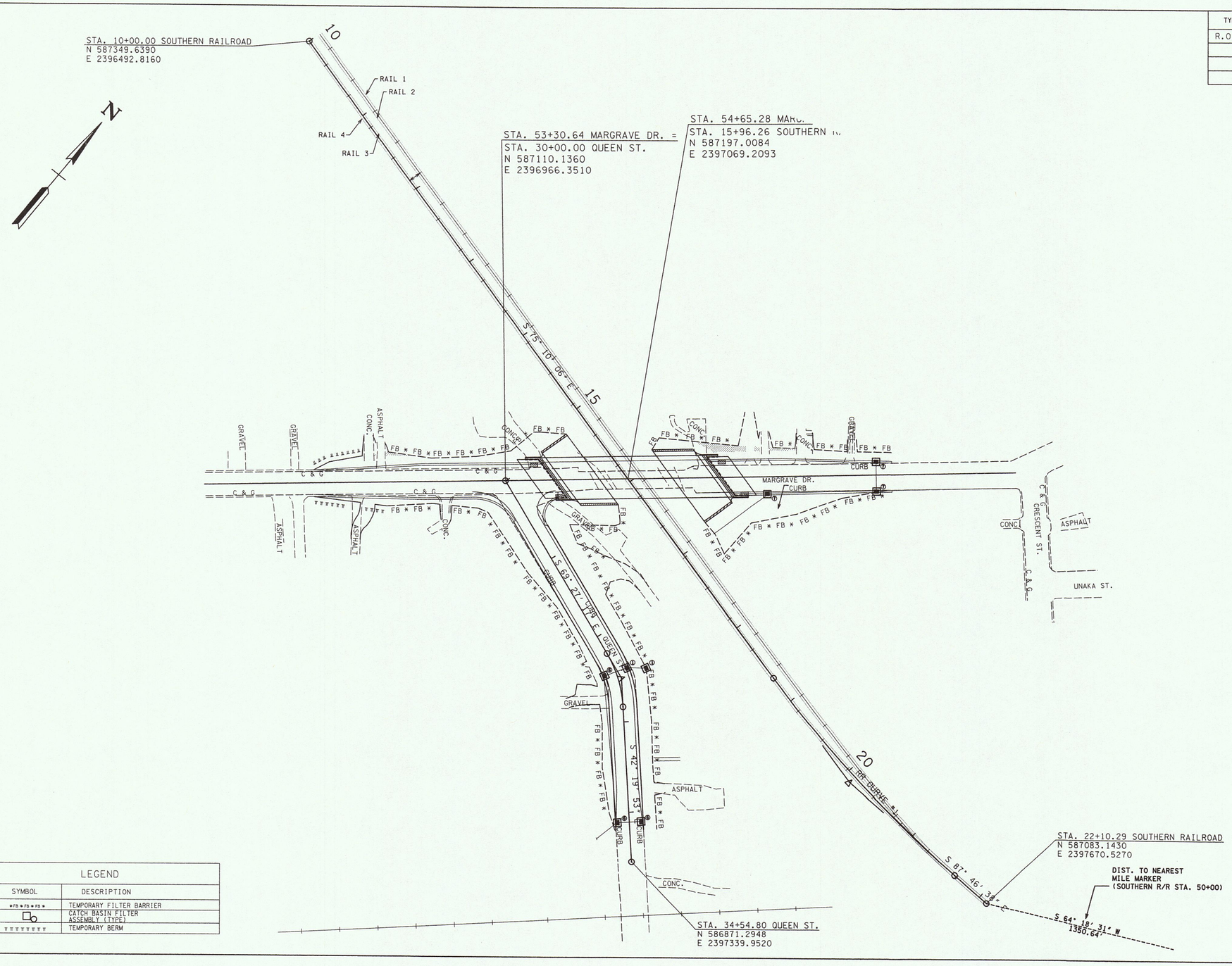
STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
BUREAU OF PLANNING & DEVELOPMENT

DRIVEWAY PROFILES

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	BRZE-7300(22)	8



LEGEND	
SYMBOL	DESCRIPTION
*FB*FB*FB*	TEMPORARY FILTER BARRIER
	CATCH BASIN FILTER ASSEMBLY (TYPE)
	TEMPORARY BERM

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

COORDINATE VALUES ARE NAD/83(1995) AND ARE DATUM ADJUSTED BY THE FACTOR 1.00008 & TIED TO THE TGRN.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
BUREAU OF PLANNING & DEVELOPMENT

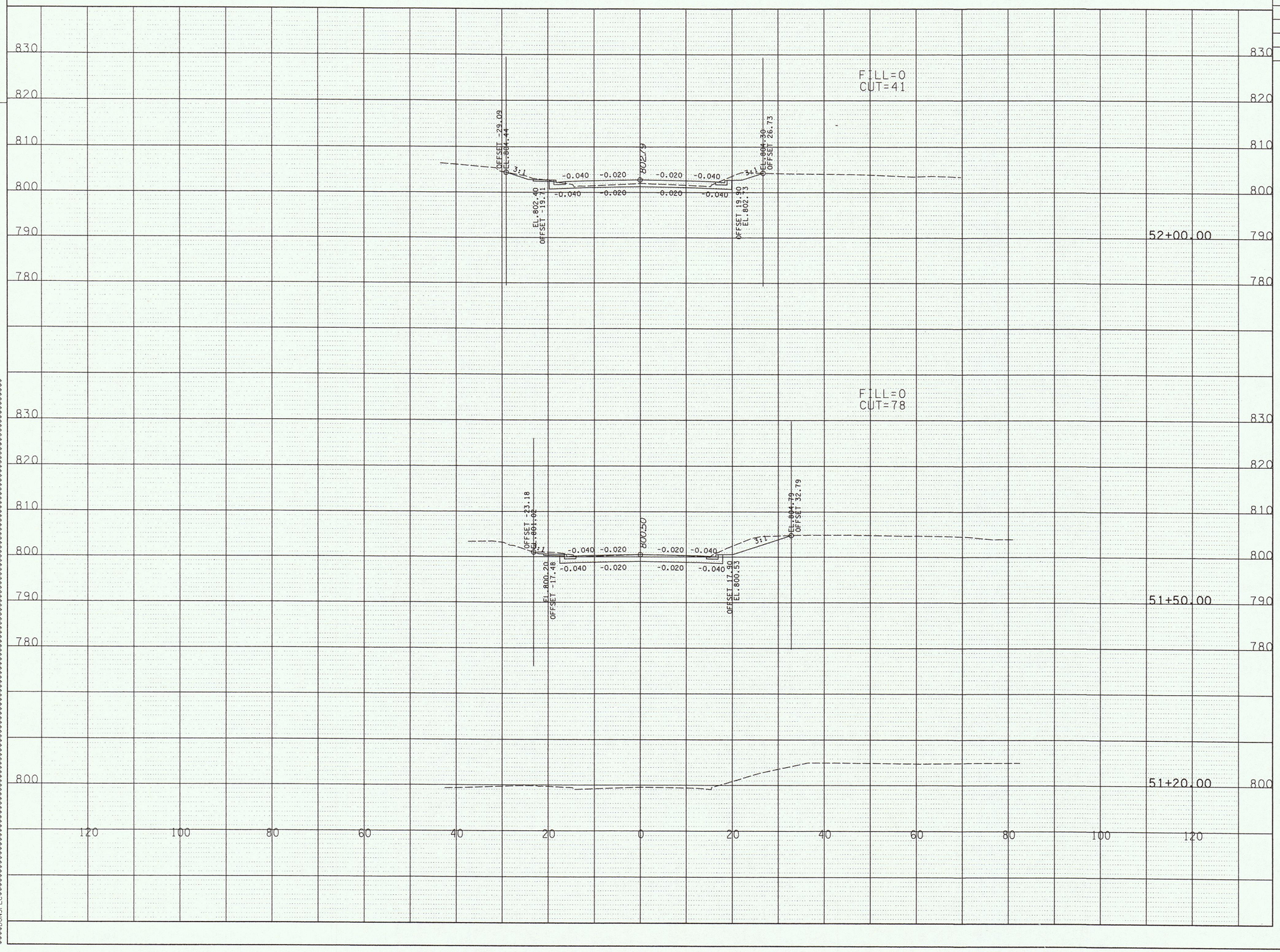
EROSION CONTROL

STA. 50+00 TO STA. 58+91

SCALE: 1" = 50' HORIZ.

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

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2004	BRZE-7300(22)	9



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

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

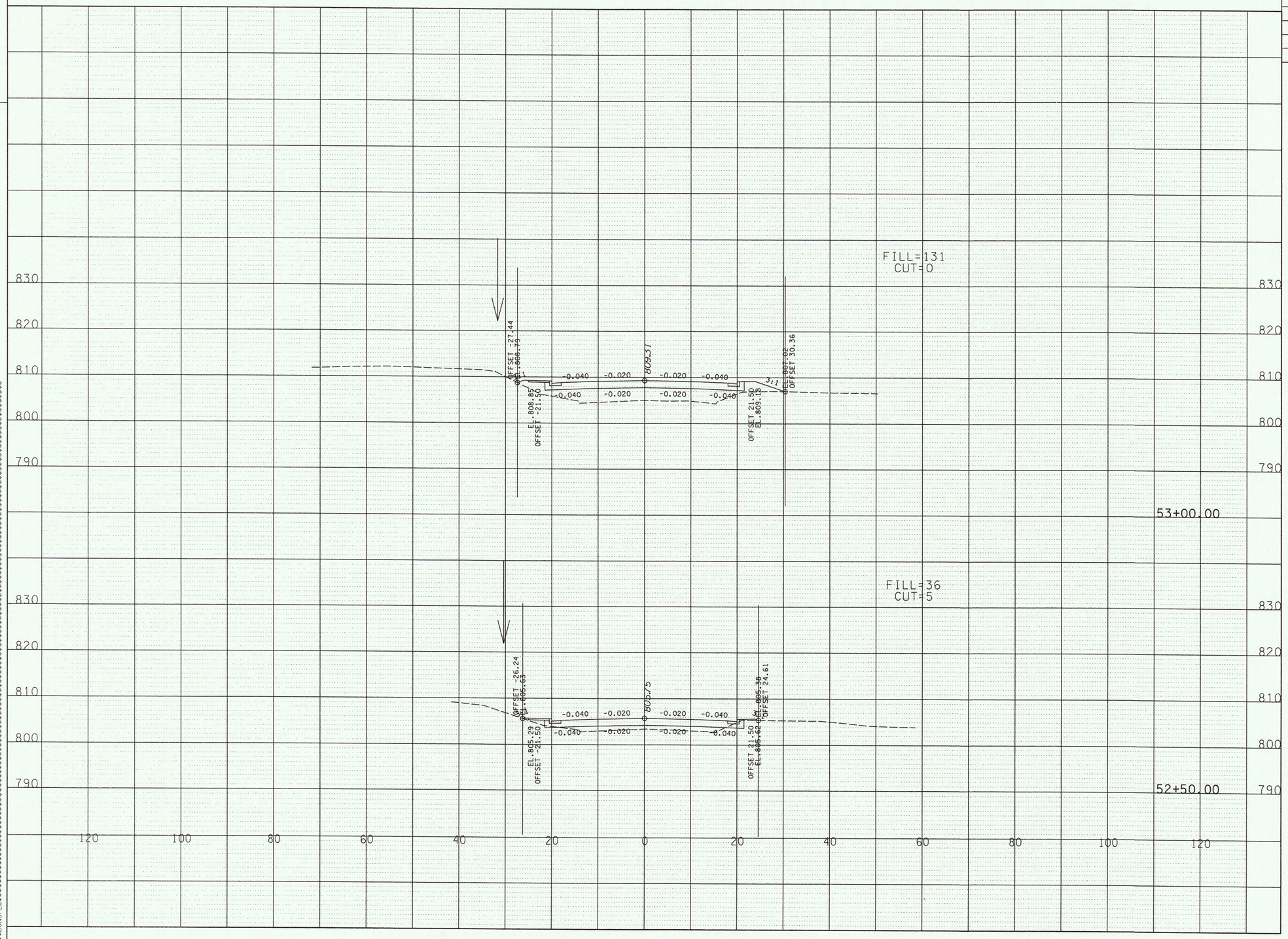
MARGRAVE DR.
CROSS SECTIONS

STA. 51+20 TO STA. 52+00

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

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

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2004	BRZE-7300(22)	10



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

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

MARGRAVE DR.
CROSS SECTIONS

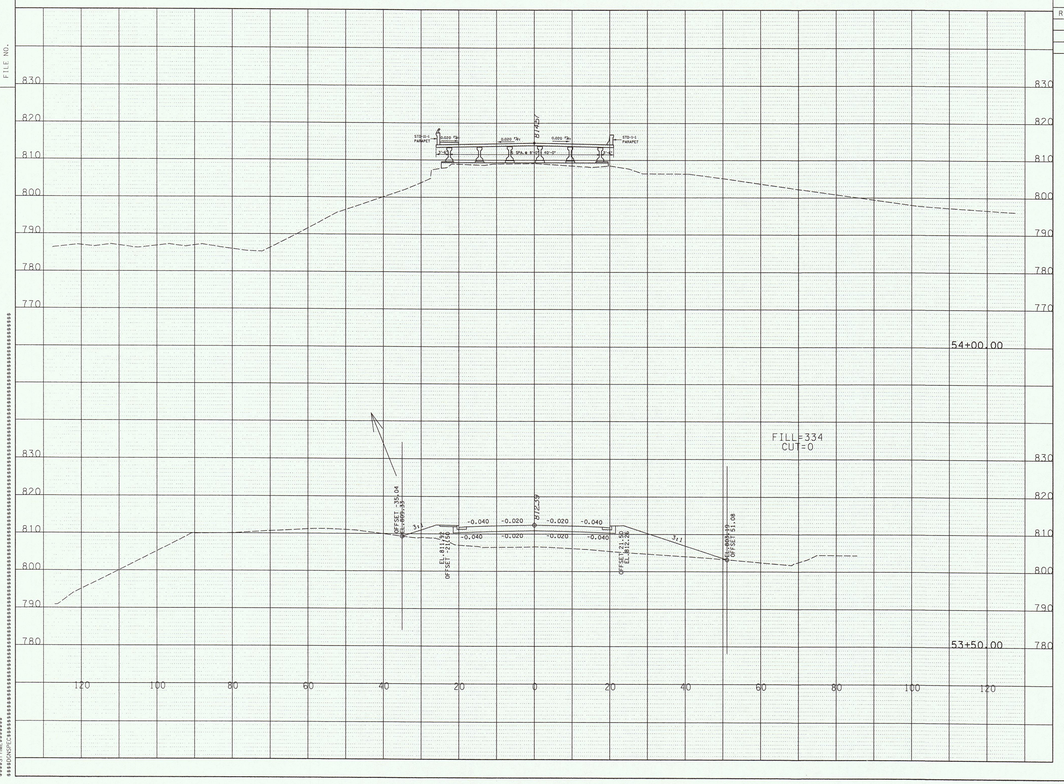
STA. 52+50 TO STA. 53+00

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

TENNESSEE D.O.T.
DESIGN DIVISION

FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2004	BRZE-7300(22)	11



STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

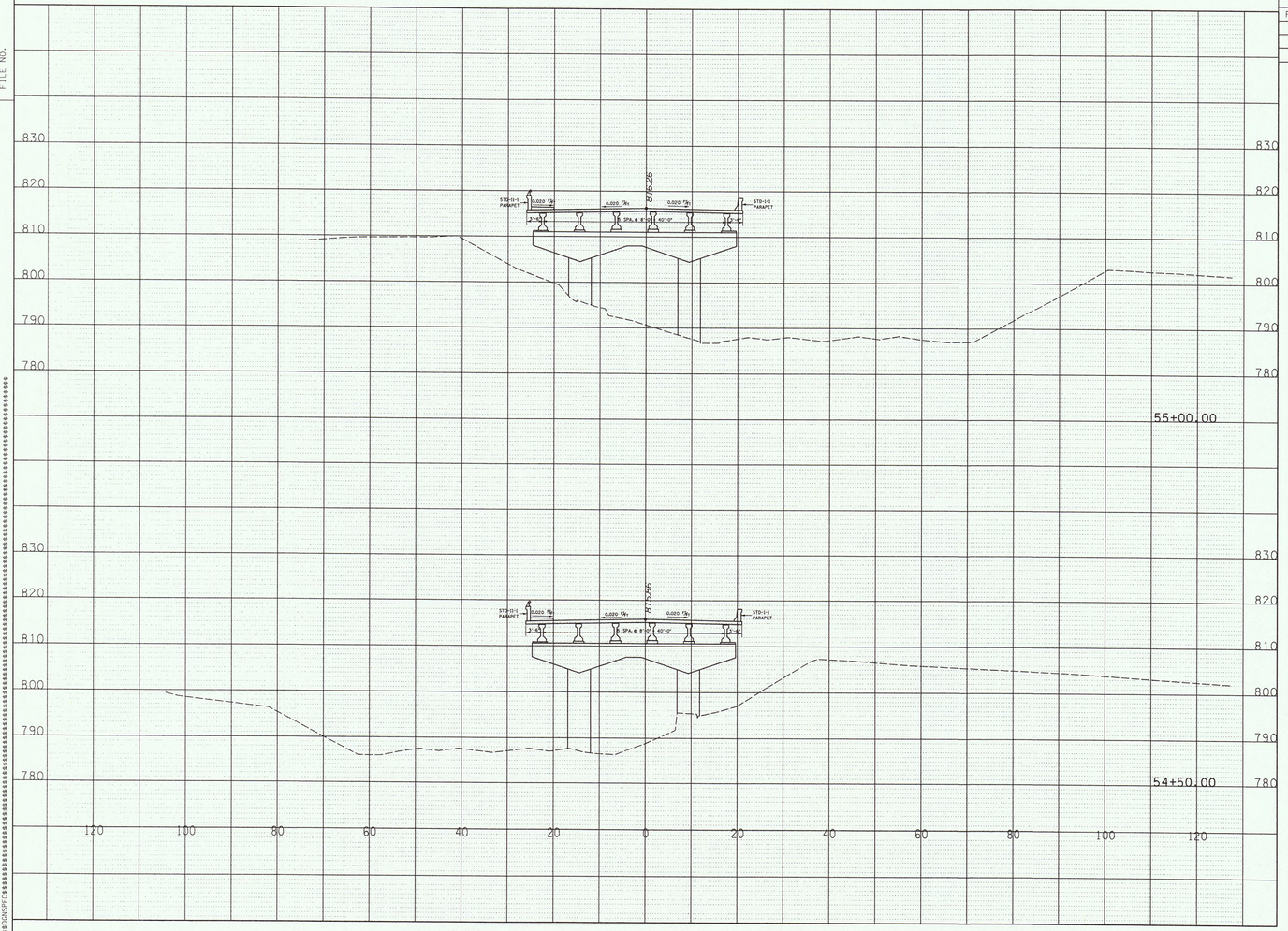
MARGRAVE DR.
CROSS SECTIONS

STA. 53+50 TO STA. 54+00

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

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

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2004	BRZE-7300(22)	12



STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

MARGRAVE DR. CROSS SECTIONS

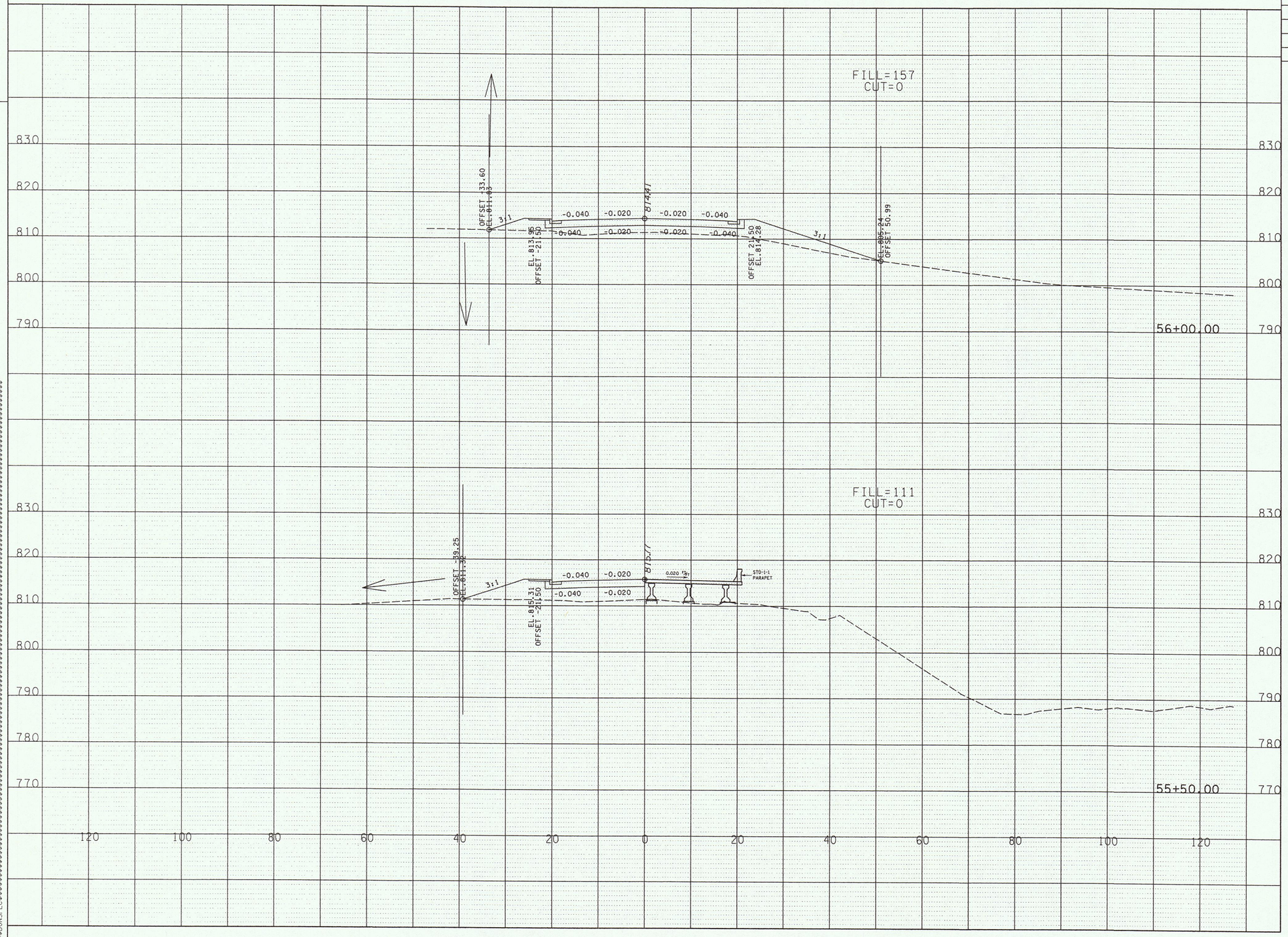
STA. 54+50 TO STA. 55 +00

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

$$$$$$/TMG$$$$$$
$$$$$$/DGN$$$$$$

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

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2004	BRZE-7300(22)	13



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

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

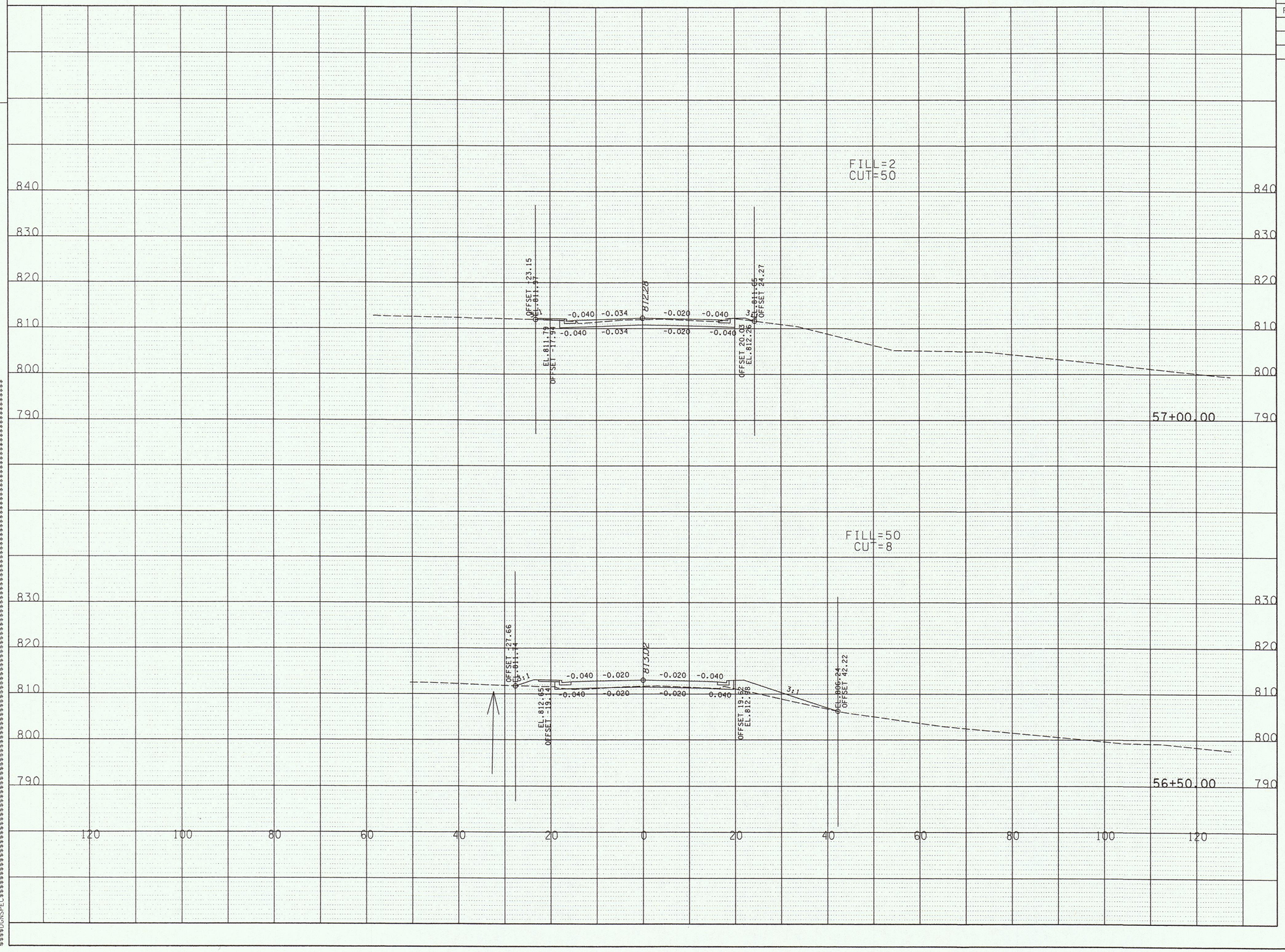
MARGRAVE DR.
CROSS SECTIONS

STA. 55+50 TO STA. 56+00

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

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

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2004	BRZE-7300(22)	14



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

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

MARGRAVE DR.
CROSS SECTIONS

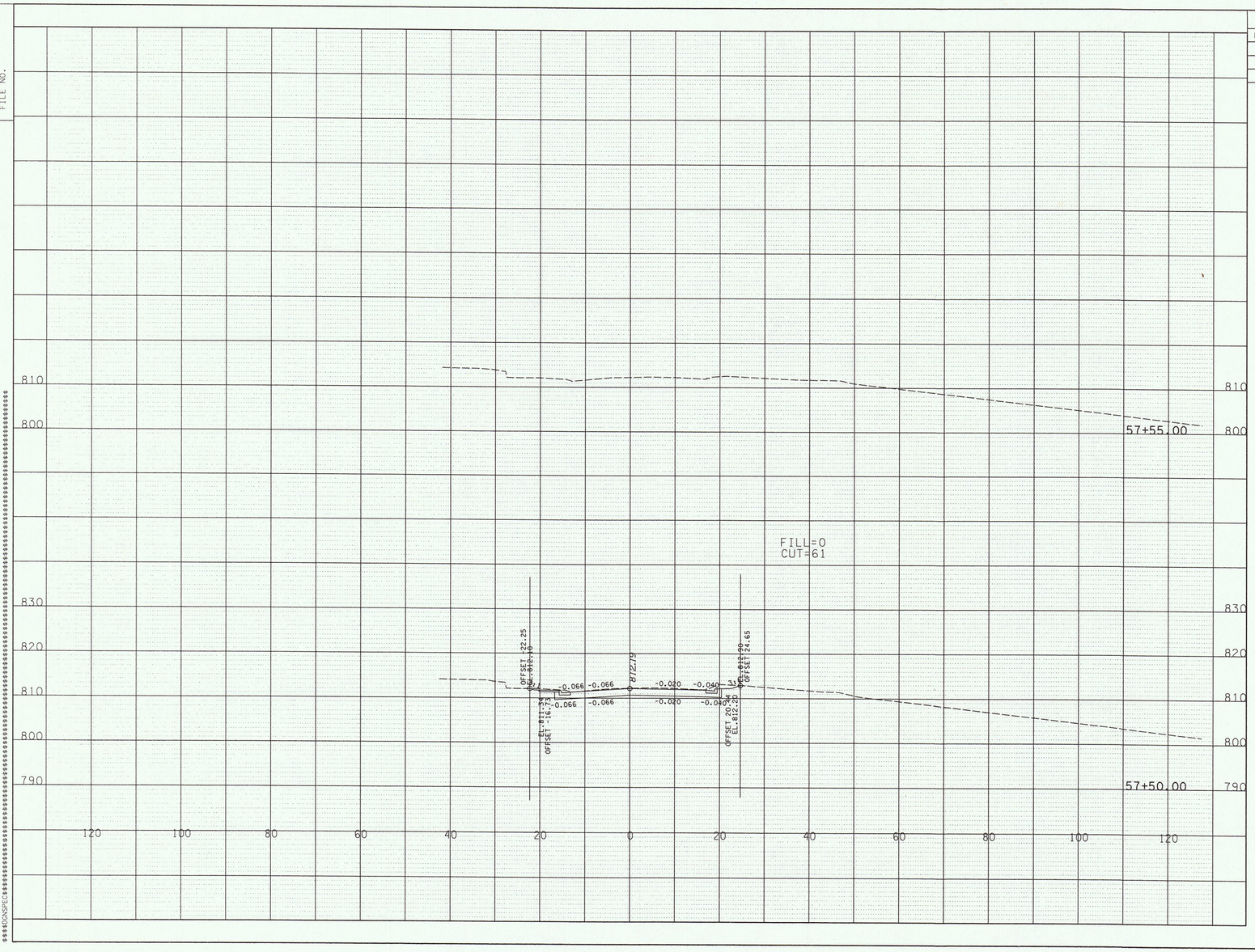
STA. 56+50 TO STA. 57+00

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

TENNESSEE D.O.T.
DESIGN DIVISION

FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2004	BRZE-7300(22)	15



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

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

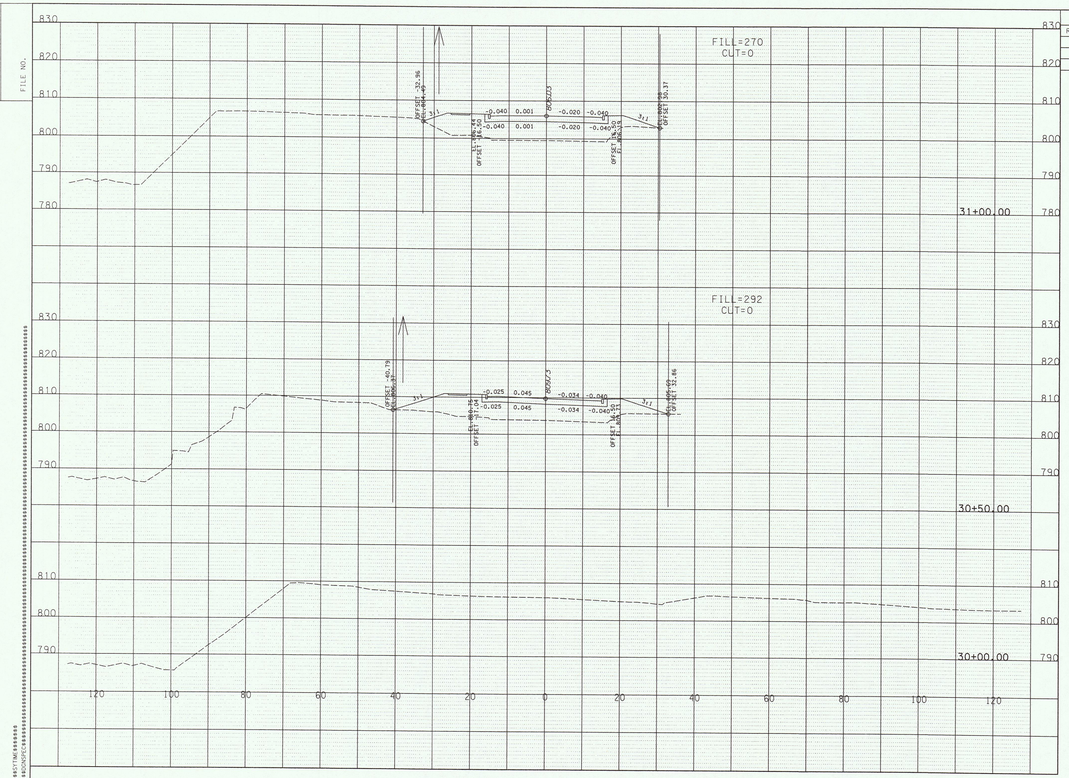
MARGRAVE DR.
CROSS SECTIONS

STA. 57+50 TO STA. 57+55

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

TENNESSEE D.O.T.
DESIGN DIVISION

FILE NO.



TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2004	BRZE-7300(22)	16

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

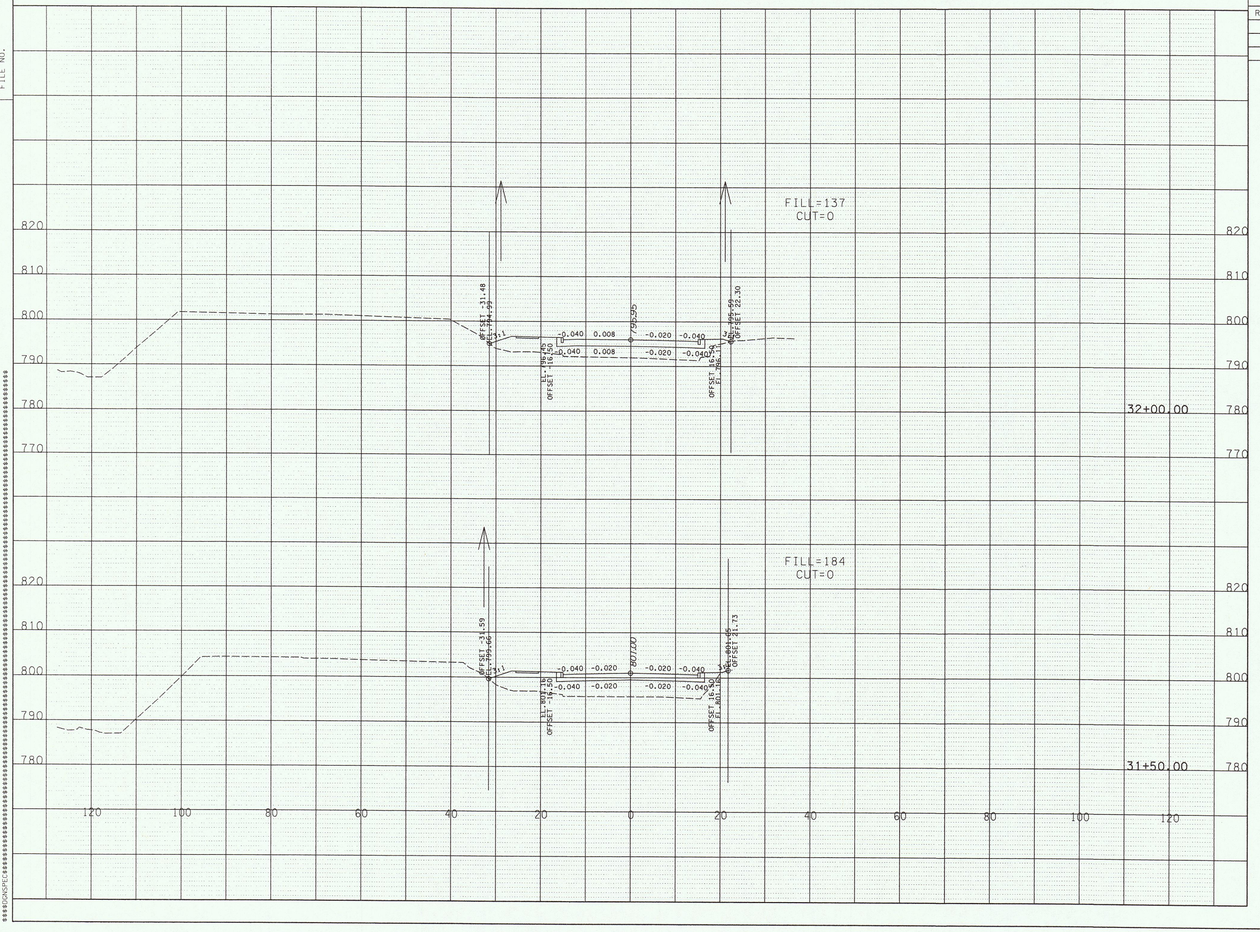
QUEEN ST.
CROSS SECTIONS

STA. 30+00 TO STA. 31+00

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

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

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2004	BRZE-7300(22)	17



STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

QUEEN ST. CROSS SECTIONS

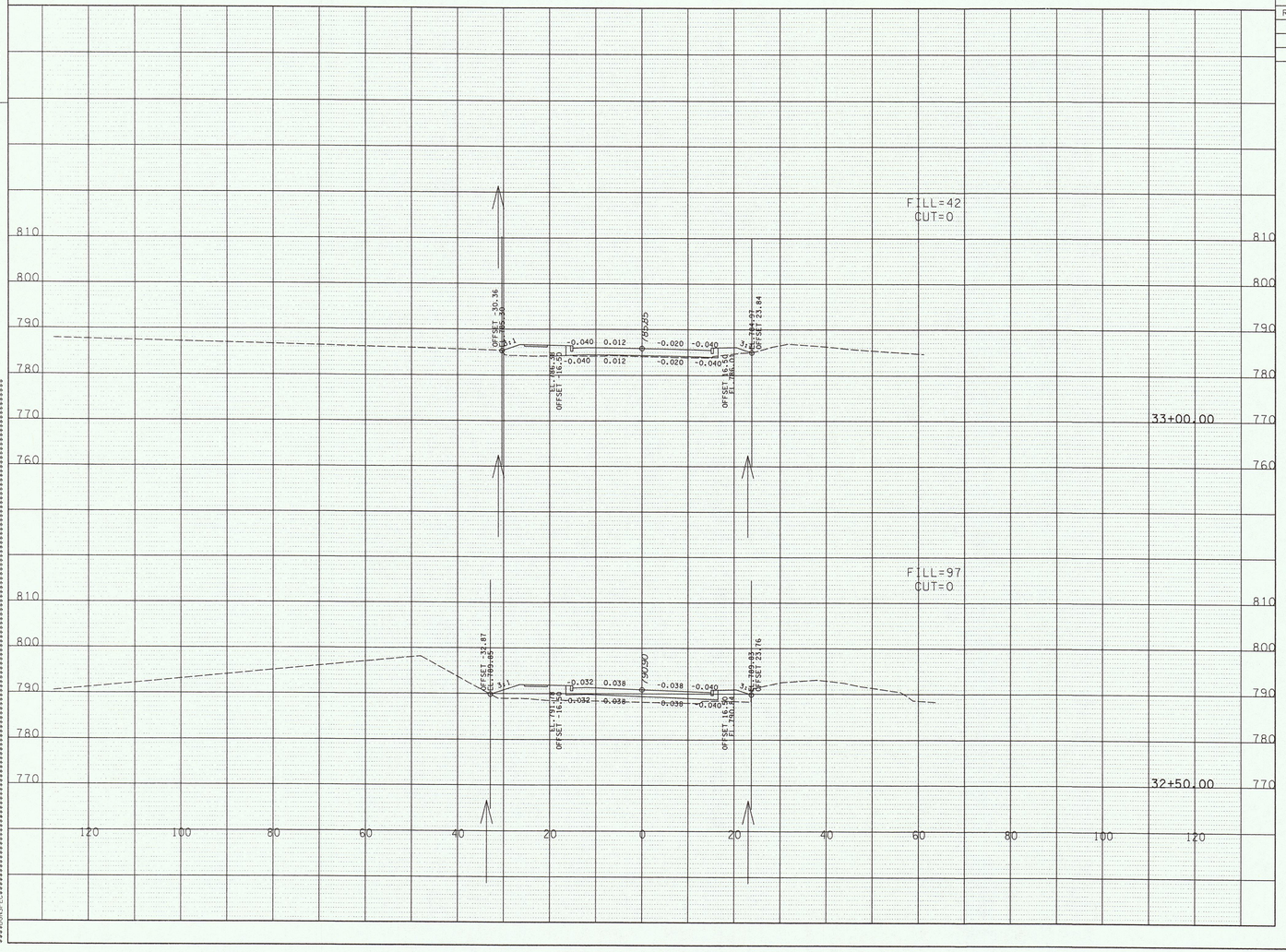
STA. 31+50 TO STA. 32+00

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

****SYSTIME********
****RDOPCHECK********

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

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2004	BRZE-7300(22)	18



STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

QUEEN ST. CROSS SECTIONS

STA. 32+50 TO STA. 33+00

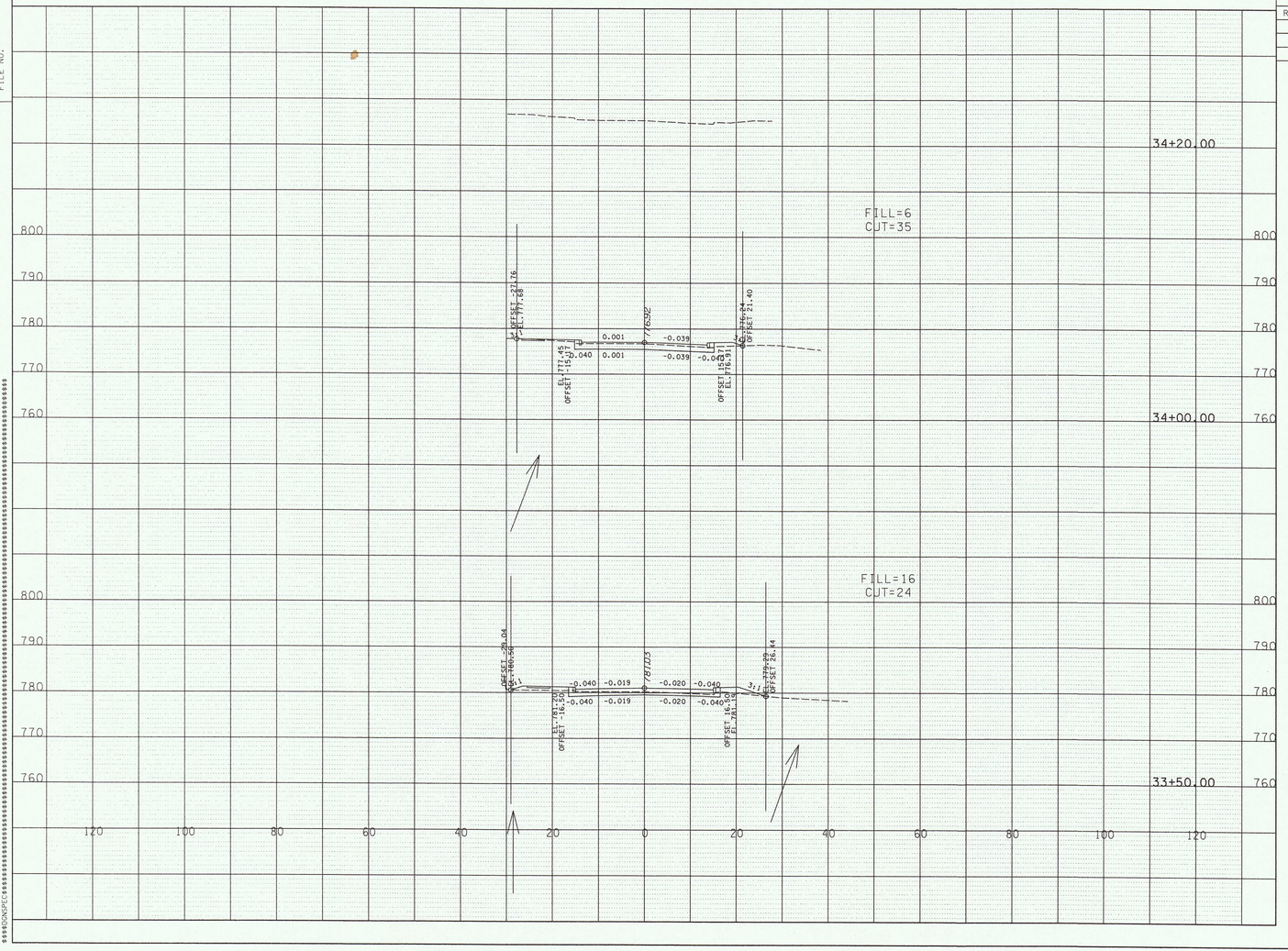
SCALE: 1"=10' HORIZ.
1"=10' VERT.

$$$$$SYTMCR$$$$$
$$$$$DGNSPEC$$$$$

TENNESSEE D.O.T.
DESIGN DIVISION

FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2004	BRZE-7300(22)	19



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

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

QUEEN ST.
CROSS SECTIONS

STA. 33+50 TO STA. 34+20

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