PROFILE	BY	DATE		BY	DATE
CENTER LINE PLOTTED	M.U.H.	6-9-44	CHECKED	M.S.H.	6-9-44
SIDE HILL PLOTTED	M.U.H.	6-11-44	CHECKED	M.S.H.	6-11-44

LEGEND
CENTER LINE PROFILE
SIDE HILL 18" FT. RIGHT
SIDE HILL 18" FT. LEFT

2-3/8" H.S. Steel G.W.'s 3250# Tension
1/2" Ice, 8# Wind @ 0°F 600' Ruling Span

9212.3

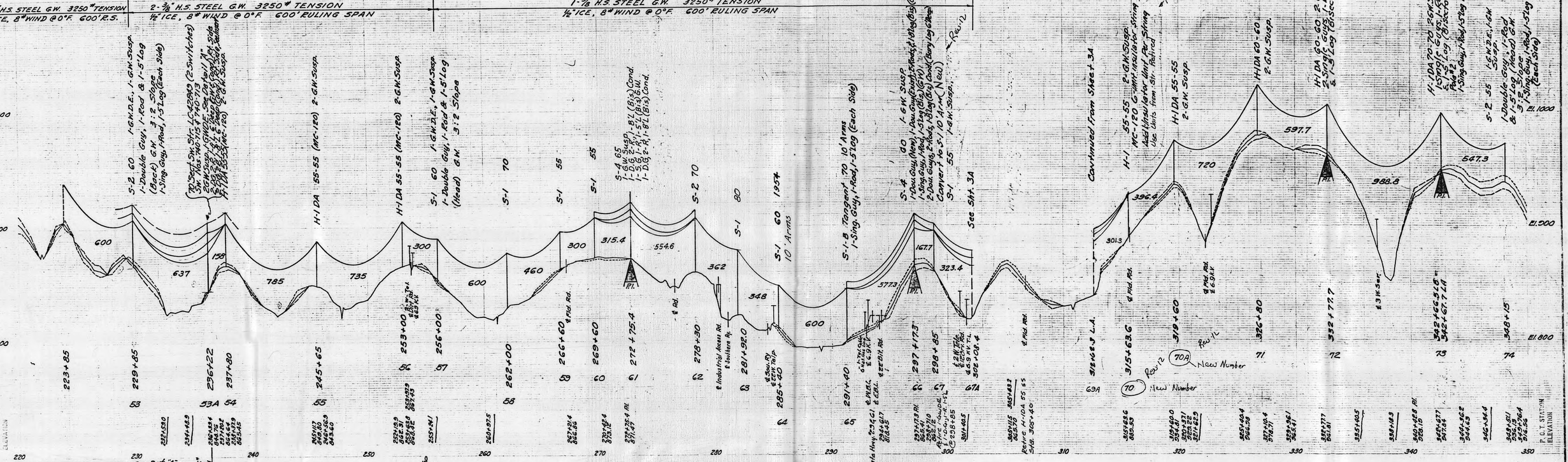
FIELD BOOKS
T. G39
L. G50

W.O. 33-92-43177

1-3/8" H.S. STEEL G.W. 3250# TENSION
1/2" ICE, 8# WIND @ 0°F. 600' R.S.

2-3/8" H.S. STEEL G.W. 3250# TENSION
1/2" ICE, 8# WIND @ 0°F. 600' RULING SPAN

1-3/8" H.S. STEEL G.W. 3250# TENSION
1/2" ICE, 8# WIND @ 0°F. 600' RULING SPAN



ROANE COUNTY, TENN.
FIFTH CIVIL DISTRICT

272+75.4 P.I.
Δ=36°55' Lt.

297+17.3 P.I.
Δ=39°30' Rt.

332+77.7 P.I.
Δ=1°15' Lt.

342+66.5 L.B. P.I.
342+67.7 L.A.
Δ=4°15' Lt.

	13	Add Sold TV-98604U	4/5/95	BEW
	12	Rev. & 30+52.8 A. To 312+62.2 L.A.	4/1/89	R.F.M.
	11	Str. 62 was 65' Rt.	11-2-87	CJS
60-32462 J161	10	Rev. Str. 63 From 3-1/2" To 2-3/8"	11/10/78	D.B.S.
	9	Rev. Str. 63 From 1-3/8" To 1-3/8"	10/10/75	F.B.K.
		& Add Str. 63A & 63B		
33692	8	Added Plan View Str. 53A & Det. 22	4/20/66	G.T.C.
33692	7	Added Sect. Sm. Str. 53A	4/20/66	G.T.C.
	6	Added Stake Hole. #23 & 61 At Sta. 229+53.2 & 236+34.5	1-31-66	F.B.K.
60-32462	5	Field Changes Added	9-16-57	A.C.P.
	4	Rev. Str. 53A, 53B & 53C Sta. 236+34.5	9-9-57	E.H.
60-32462	3	Cond. Changed From 1/0 ACSR	10-9-56	A.C.P.
	2	Rev. Str. 53 & 53A & 53B	10-3-56	A.C.P.
		& Add Str. 53C		
		Rev. Str. 53 & 53A	10-2-56	C.P.W.
	1	Added Final Str. nos.	10-3-56	W.C.P.
W.O.		REVISION	DATE	SIG.

22506 10066 43369	8-18-87	FOR ACQUISITION OF HR-AS TRACT	Cecil N. Thornton
	11/5/56	FOR CONDUCTOR CHANGE	O.T. Allen

W.O.	DATE	APPROVED
	7/18/45	FOR RIGHT OF WAY
	6/18/45	FOR STAKING STRUCTURES
	7/9/45	FOR CONSTRUCTION

TENNESSEE VALLEY AUTHORITY
DEPARTMENT OF POWER ENGINEERING AND CONSTRUCTION

HARRIMAN-ROCKWOOD TRANSMISSION LINE
STA. 230+00 TO STA. 350+00

SCALE: 1" = 40' HOR. 1" = 10' VER.
DRAWN: J.E.A.
TRACED: J.E.A.
CHECKED: P.W.H.
DESIGNED: R.J.T.
APPROVED
DATE: June 9, 1945.
SHEET 3 OF 4 SHEETS
LW-2433

540-GG-32152-J161

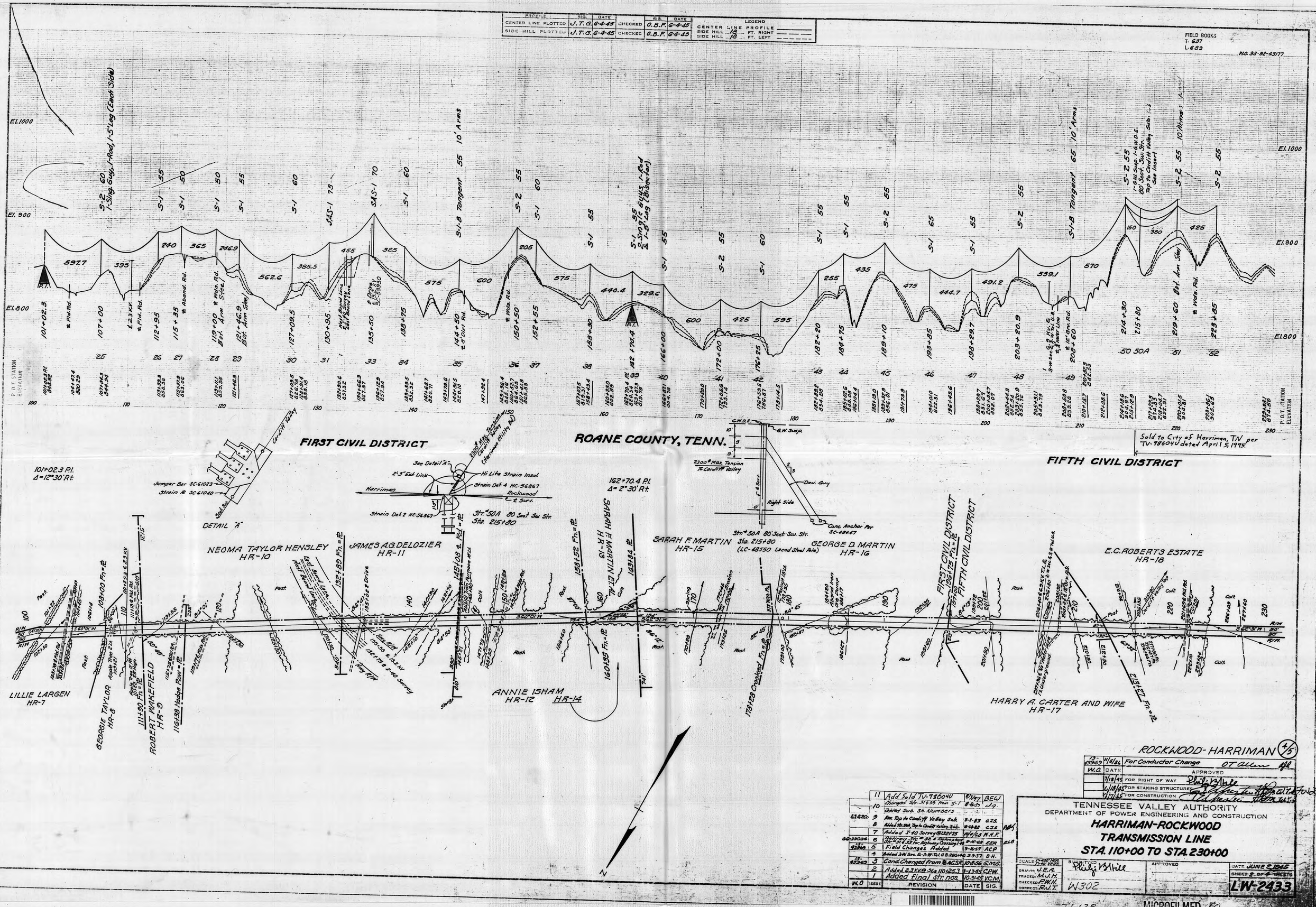
MICROFILMED

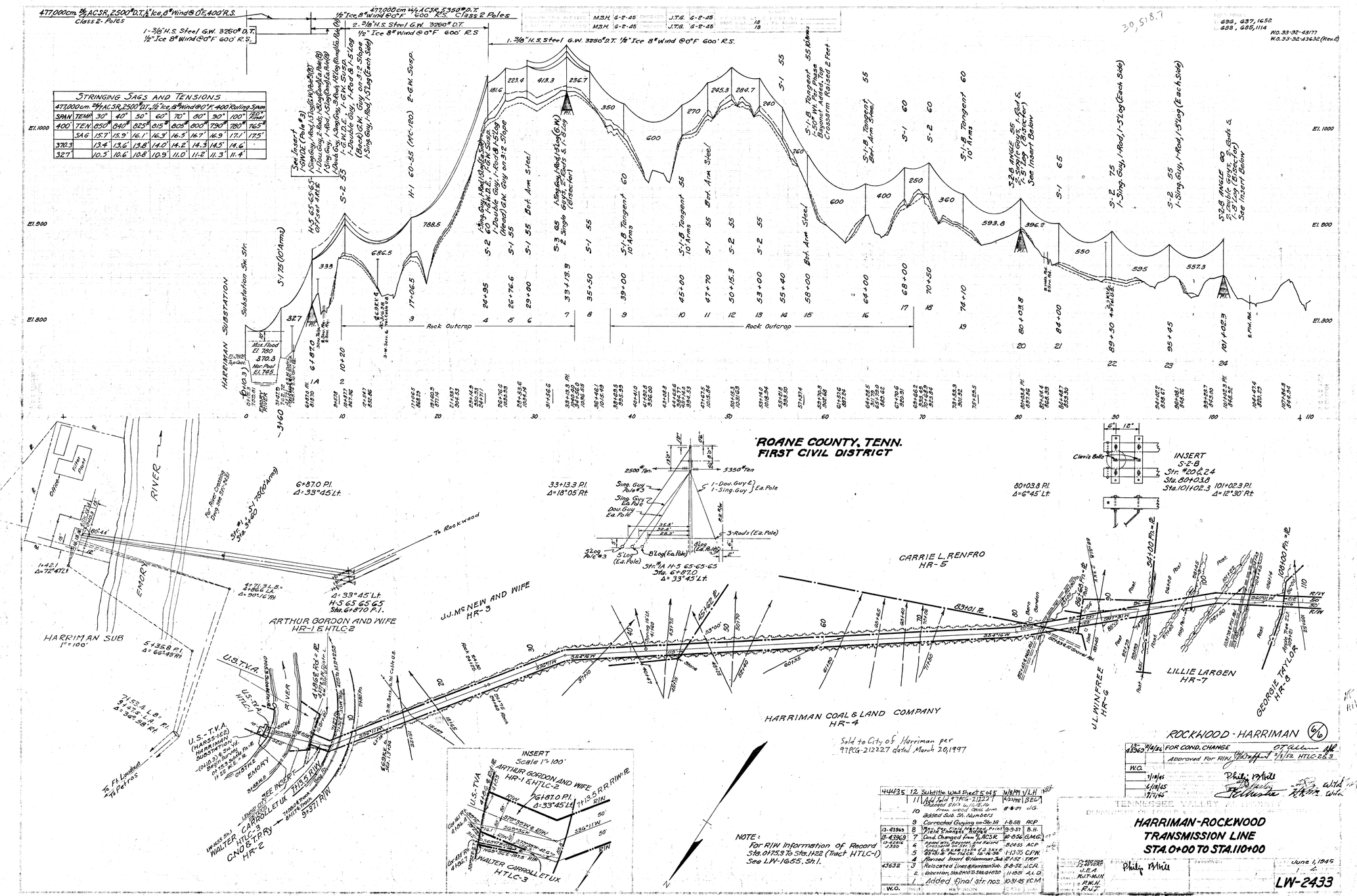
PROFILE	SIG.	DATE		SIG.	DATE
CENTER LINE PLOTTED	J.T.G.	6-4-45	CHECKED	O.B.F.	6-4-45
SIDE HILL PLOTTED	J.T.G.	6-4-45	CHECKED	O.B.F.	6-4-45

LEGEND
CENTER LINE PROFILE
SIDE HILL 10 FT. RIGHT
SIDE HILL 10 FT. LEFT

FIELD BOOKS
T-637
L-683

W.O. 93-92-43177




ROANE COUNTY, TENN.
FIRST CIVIL DISTRICT
HARRIMAN SUBSTATION
HARRIMAN SUB 1"=100'
ARTHUR GORDON AND WIFE HR-1 & HTLC-2
J.J. McNEW AND WIFE HR-3
CARRIE L. RENFRO HR-5
HARRIMAN COAL & LAND COMPANY HR-4
J.L. WINFREE HR-6
LILLIE LARGEN HR-7
GEORGIE TAYLOR HR-8
WALTER CARROLL ET UX HTLC-3
GNO & T.P. RY HR-2
U.S.T.V.A.
EMORY RIVER
To Rockwood
To Ft. Loudon
To Petros
INSERT S-2-B
INSERT Scale 1"=100'
Sold to City of Harriman per 91RCG-2122227 dated March 20, 1997
NOTE: For R/W Information of Record Sta. 0+75.9 To Sta. 1+22 (Tract HTLC-1) See LW-1655, Sh. 1.
ROCKWOOD - HARRIMAN (6/6)
TENNESSEE VALLEY AUTHORITY
HARRIMAN-ROCKWOOD TRANSMISSION LINE
STA. 0+00 TO STA. 110+00
June 1, 1945
LW-2433
MICROFILMED

W.O. 13-43969
Reconductor

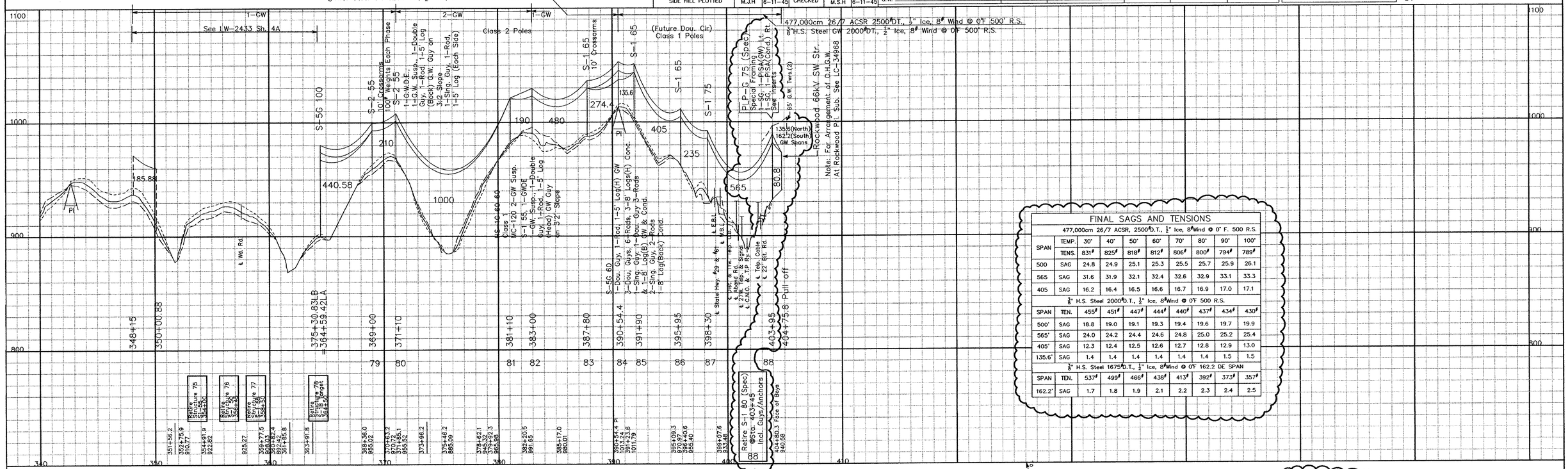
PROFILE	SIG.	DATE		DATE	COND.	DESIGN TENSION	LOADING	RULING SPAN	COND. "C" VALUE	G.W. "C" VALUE
CENTER LINE PLOTTED	M.J.H	6-11-45	CHECKED	M.S.H 6-11-45					AT	AT
SIDE HILL PLOTTED	M.J.H	6-11-45	CHECKED	M.S.H 6-11-45	G.W.					

PROFILE LEGEND: CENTER LINE; SIDE HILL 18' FT. RIGHT; SIDE HILL 18' FT. LEFT

FIELD BOOKS: T-614, 967; L-649, 1418; R T-

CRONAFLEX: YES ☐ NO ☐

W.O. 93-92-43177

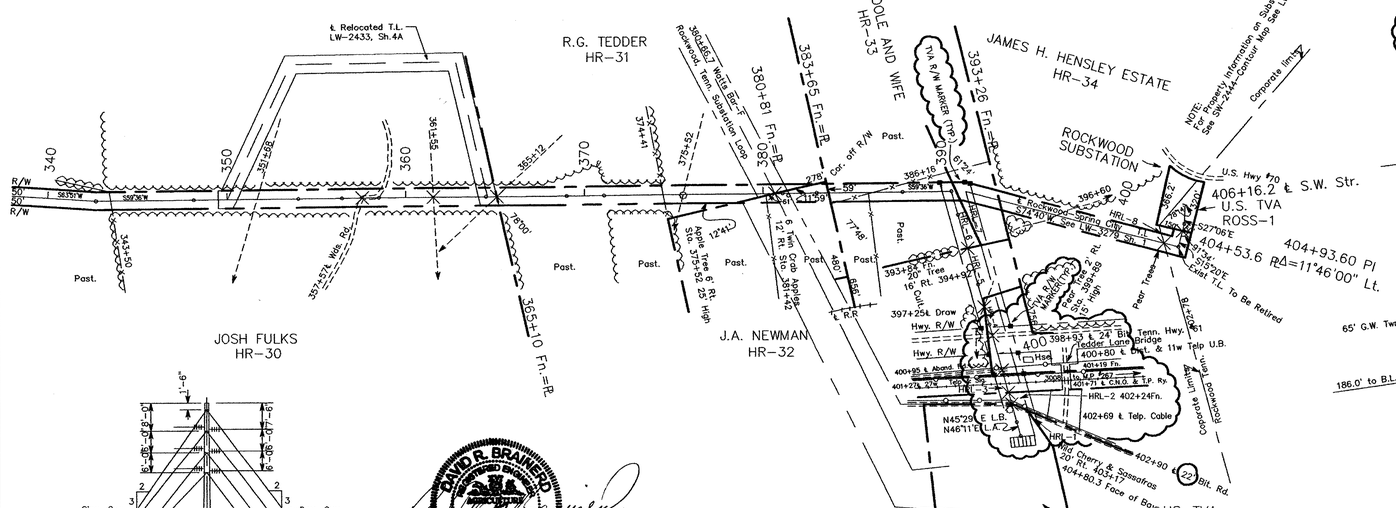


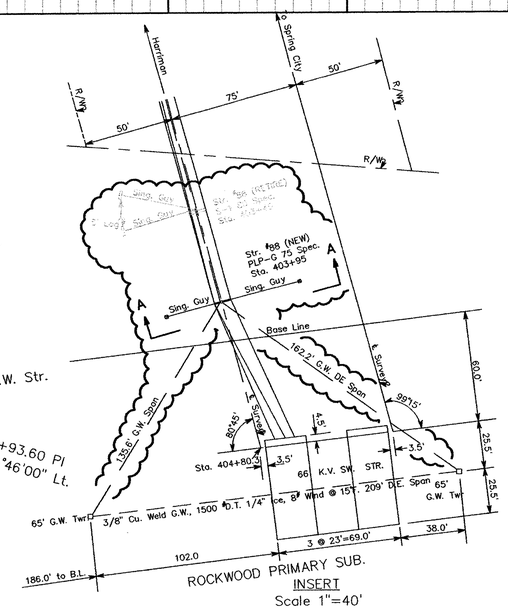
FINAL SAGS AND TENSIONS									
477,000cm 26/7 ACSR, 2500# D.T., 1/2" Ice, 8# Wind @ 0° F. 500 R.S.									
SPAN	TEMP.	30°	40°	50°	60°	70°	80°	90°	100°
	TENS.	831#	825#	818#	812#	806#	800#	794#	789#
500	SAG	24.8	24.9	25.1	25.3	25.5	25.7	25.9	26.1
565	SAG	31.6	31.9	32.1	32.4	32.6	32.9	33.1	33.3
405	SAG	16.2	16.4	16.5	16.6	16.7	16.9	17.0	17.1
3/8" H.S. Steel 2000# D.T., 1/2" Ice, 8# Wind @ 0°F 500 R.S.									
SPAN	TEN.	455#	451#	447#	444#	440#	437#	434#	430#
500'	SAG	18.8	19.0	19.1	19.3	19.4	19.6	19.7	19.9
565'	SAG	24.0	24.2	24.4	24.6	24.8	25.0	25.2	25.4
405'	SAG	12.3	12.4	12.5	12.6	12.7	12.8	12.9	13.0
135.6'	SAG	1.4	1.4	1.4	1.4	1.4	1.4	1.5	1.5
3/8" H.S. Steel 1675# D.T., 1/2" Ice, 8# Wind @ 0°F 162.2 DE SPAN									
SPAN	TEN.	537#	499#	466#	438#	413#	392#	373#	357#
162.2'	SAG	1.7	1.8	1.9	2.1	2.2	2.3	2.4	2.5

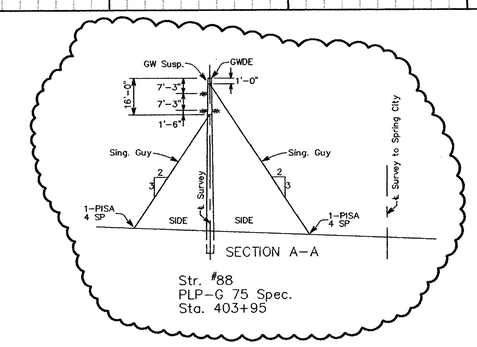
ROANE COUNTY, TENN.
FIFTH CIVIL DISTRICT

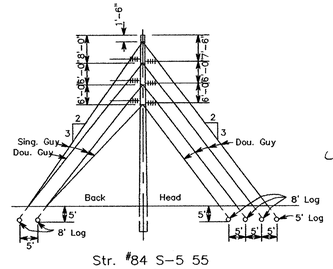
342+66.50 LB=
342+67.70 LA
Δ=4°15'00" Lt.

390+54.40 PI 391+22.30 PI R/W 403+61.00 PI R/W
Δ=74°55'00" Rt. Δ=15°04'00" Rt. Δ=90°00'00" Lt.









ISSUE	W.O.	REVISION	DATE	SIG.
16		Added Sub. Sh. Numbers	8-15-89	JG
15		Added State Hwy. #29 & #61 to profile	1-31-66	FBR
		Sta. 398+93 & 399+43		
14	13-43969	Field Changes Added	9-16-57	ACP
13	13-43969	Cond. Changed from 2/0 ACSR	10-16-56	GMG
12	43934	Rearrangement of lines at Rockwood.	9-6-56	ACP
11	43928	Added Rockwood Pri. Loop	7-26-56	DBC
10		Added HRL Tract Numbers	4-12-56	BCD
9	92-43928	Rev. Sta. 390+54.4 to 404+80.3	3-14-56	JDP
8		Revised Fence Line at sub.	11-30-51	HJT
7	92-43539	Rev for Add. of Tap. Str.	6-20-51	RAB
6		Rev Strs. 86 & 87 for Hwy X-ing	5-9-50	PHF
5		Added final Str. nos.	10-31-45	VCM
4		Chg R. Angle @ Sta. 365+10	10-4-45	JEA
3		Added Guying Detail Str. #89 & Stringing Sags For G.W.	9-11-45	TWL
2		Ties at Substation Changed	8-4-45	PWH
1		Added Ties To SW Str.	7-14-45	PWH

ISSUE	W.O.	REVISION	DATE	SIG.
19	44F67	Relocate Str 88 & Remove Spring City Line. By S&L.	8-27-04	CMB
18		Str.81 was H-1 55 Class 2. Str. 84 was S-5 55.	9-24-01	MBB
17	44435	Redrawn on AutoCAD/Revised for Wal-Mart Relocation Subtitle was sheet 1 of 5.	9-17-99	VLH VCAD
16		Added Sub. Sh. Numbers	8-15-89	JG

	13-43969	11/5/86	FOR CONDUCTOR CHANGE	OTA AJH
SCALE	W.O.	DATE	APPROVED	
1" = 400' HOR. 1" = 40' VERT.		7/18/45	FOR RIGHT OF WAY	PBH
		6/18/45	FOR STAKING STRUCTURES	TEC HRM WTS
		7/7/45	FOR CONSTRUCTION	TEC HRM WTS

ROCKWOOD—HARRIMAN (1/6)

TENNESSEE VALLEY AUTHORITY

HARRIMAN—ROCKWOOD TRANSMISSION LINE
STA. 350+00 TO STA. 404+80.3

C.E. BR.	SURVEY TOPO.	SURVEY PROP.	TRANS. LINE DESIGN	SUBMITTED PBH	DATE June 8, 1945
DRAWN:	J.E.A			W302	SHEET 4 OF 4
TRACED:	M.S.H			APPROVED	LW-2433
CHECKED:	P.W.H				
CORRECT:	R.J.T				

RESPONSIBLE FOR WORK PERFORMED BY ANY ORGANIZATION OTHER THAN SARGENT & LUNDY.
10182-497 (R19)
730 Cherry Street, Chattanooga, TN 37402 (423) 752-4332

DAVID R. BRAINERD REGISTERED ENGINEER NO. 109861 STATE OF TENNESSEE
8-27-04 R19 Only