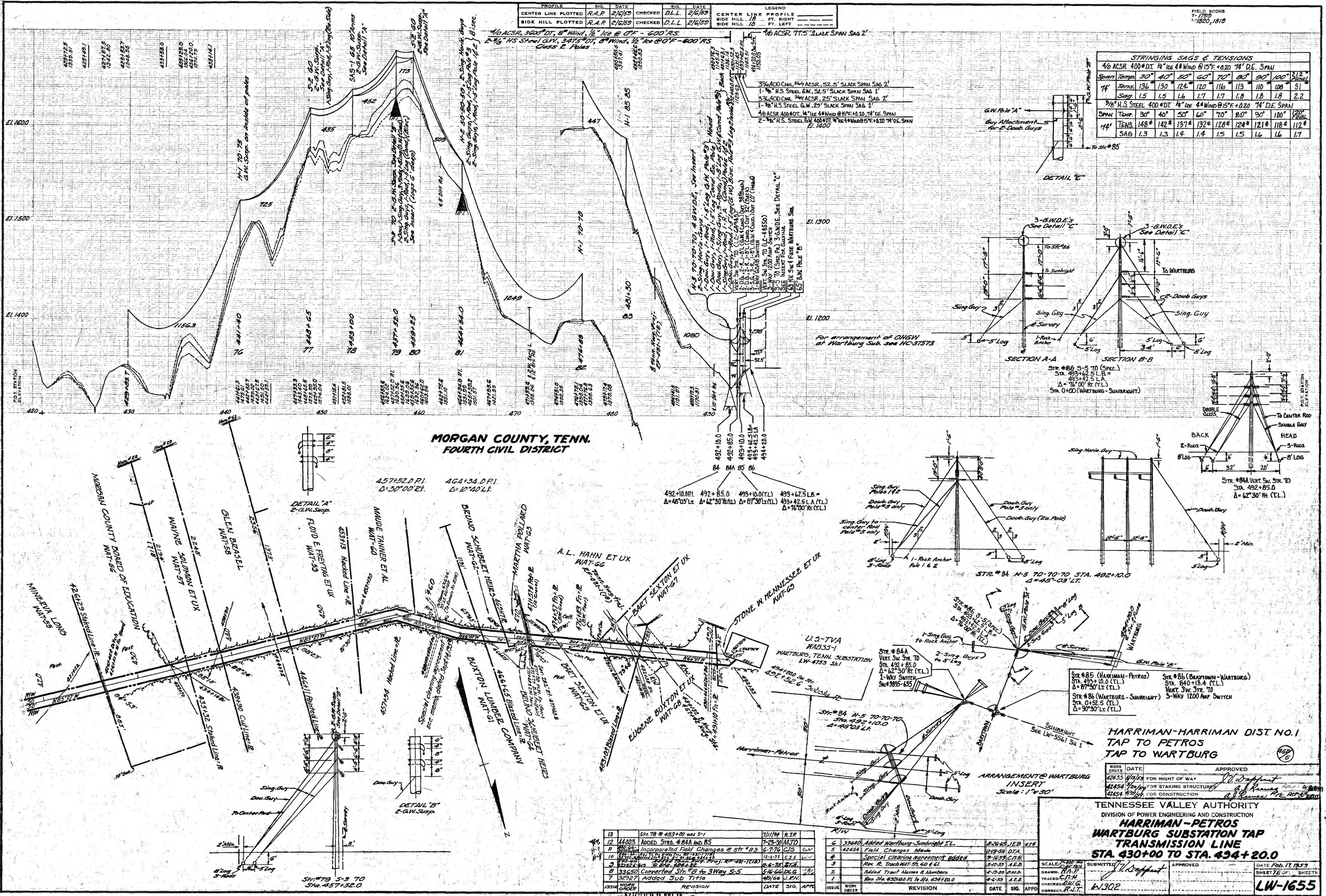




PROFILE	SIG.	DATE	CHECKED	SIG.	DATE
CENTER LINE PLOTTED	R.A.P.	2/6/59		D.L.L.	2/6/59
SIDE HILL PLOTTED	R.A.P.	2/6/59		D.L.L.	2/6/59

STRINGING SAGS & TENSIONS									
4/0 ACSR 400#DT 1/4" ICE 4# WIND @ 15° +0.20 74' DE. SPAN	Span	Temp	30°	40°	50°	60°	70°	80°	90°
74' Tens.	136	130	124	120	116	113	110	108	91
Sag	1.5	1.5	1.6	1.7	1.7	1.8	1.8	1.8	2.2
3/8" H.S. STEEL 400#DT 1/4" ICE 4# WIND @ 15° +0.20 74' DE. SPAN	Span	Temp	30°	40°	50°	60°	70°	80°	90°
74' Tens.	148	142	137	132	128	124	121	118	112
SAG	1.3	1.3	1.4	1.4	1.5	1.5	1.6	1.6	1.7

REVISION	DATE	SIG.	APPR.
13	11/11/94	R.T.P.	
12	11-23-90	M.J.D.	
11	6-7-76	C.J.S.	
10	12-1-75	C.J.S.	
9	11-6-75	C.J.S.	
8	5-16-66	D.L.G.	
7	4-29-66	J.R.N.	
6	4-29-66	J.R.N.	
5	4-29-66	J.R.N.	
4	4-29-66	J.R.N.	
3	4-29-66	J.R.N.	
2	4-29-66	J.R.N.	
1	4-29-66	J.R.N.	

WORK ORDER DATE: 4/24/59 FOR RIGHT OF WAY
4/24/59 FOR STAKING STRUCTURES
4/24/59 FOR CONSTRUCTION

APPROVED: [Signature]

TENNESSEE VALLEY AUTHORITY
DIVISION OF POWER ENGINEERING AND CONSTRUCTION
**HARRIMAN-PETROS
WARTBURG SUBSTATION TAP
TRANSMISSION LINE
STA. 430+00 TO STA. 434+20.0**

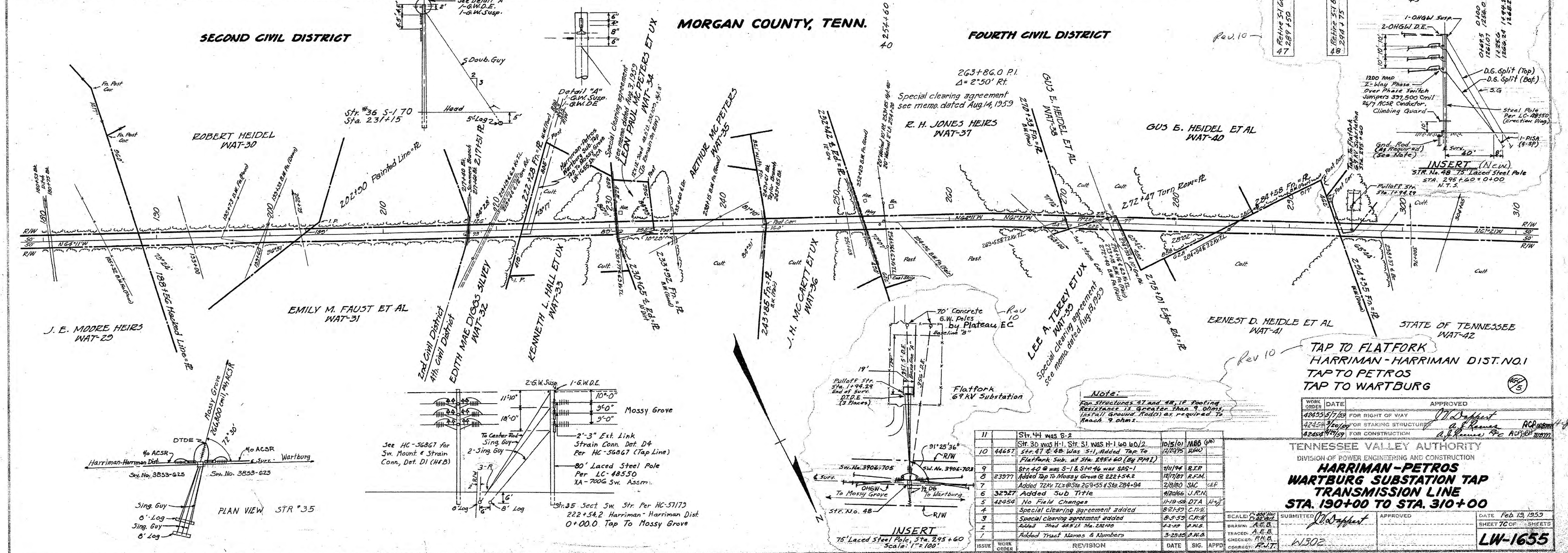
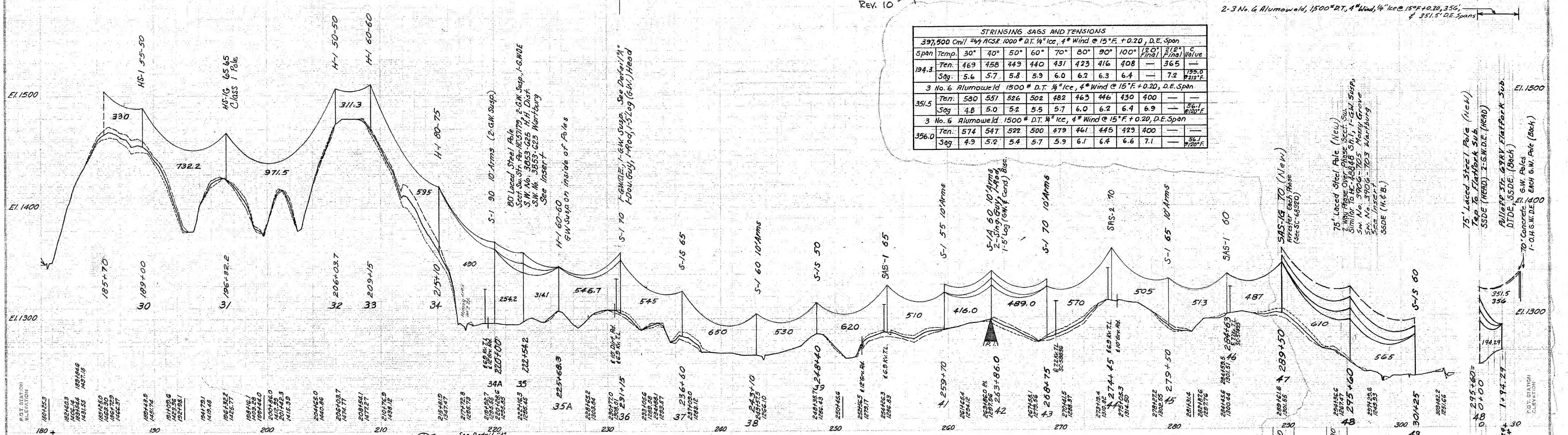
SCALE: 1"=30'
DRAWN: R.A.P.
CHECKED: D.L.G.
CORRECT: R.T.P.

SUBMITTED: [Signature]
APPROVED: [Signature]
DATE: Feb. 17, 1959
SHEET 76 OF 76 SHEETS
LW-1655

PROFILE	SIG.	DATE	CHECKED	SIG.	DATE
CENTER LINE PLOTTED	R.A.P.	2/4/53		D.L.L.	2/4/53
SIDE HILL PLOTTED	R.A.P.	2/5/53		D.L.L.	2/5/53

Rev. 10

STRINGS SAGS AND TENSIONS											
Span	Temp.	30°	40°	50°	60°	70°	80°	90°	100°	Final	Value
194.3	Ten.	469	458	449	440	431	423	416	408	—	365
	Sag.	5.6	5.7	5.8	5.9	6.0	6.2	6.3	6.4	—	7.2
3 No. 6 Alumoweld 1500 # D.T. 1/4" Ice, 4" Wind @ 15° F + 0.20, D.E. Span											
351.5	Ten.	580	557	526	502	482	463	446	430	400	—
	Sag.	4.8	5.0	5.2	5.5	5.7	6.0	6.2	6.4	6.9	—
3 No. 6 Alumoweld 1500 # D.T. 1/4" Ice, 4" Wind @ 15° F + 0.20, D.E. Span											
356.0	Ten.	574	547	522	500	479	461	445	429	400	—
	Sag.	4.9	5.2	5.4	5.7	5.9	6.1	6.4	6.6	7.1	—



NO.	REVISION	DATE	SIG.	APPROVED
1	Added Tract Names & Numbers	3-25-50	D.W.B.	
2	Added Sub Title	4-2-50	P.R.B.	
3	Added 72 KV TLs @ Sta. 269+55 & Sta. 284+94	2/18/50	SAC	
4	Added 72 KV TLs @ Sta. 269+55 & Sta. 284+94	2/18/50	J.R.N.	
5	No Field Changes	11-19-50	DTA	
6	Special clearing agreement added	8-21-50	C.P.W.	
7	Special clearing agreement added	8-21-50	C.P.W.	
8	Added 72 KV TLs @ Sta. 269+55 & Sta. 284+94	10/17/50	R.F.M.	
9	Added 72 KV TLs @ Sta. 269+55 & Sta. 284+94	10/17/50	R.F.M.	
10	Added 72 KV TLs @ Sta. 269+55 & Sta. 284+94	10/17/50	R.F.M.	

WORK ORDER DATE 4/25/51 FOR RIGHT OF WAY 4/25/51 FOR STAKING STRUCTURE 4/25/51 FOR CONSTRUCTION

APPROVED *[Signature]* *[Signature]* *[Signature]*

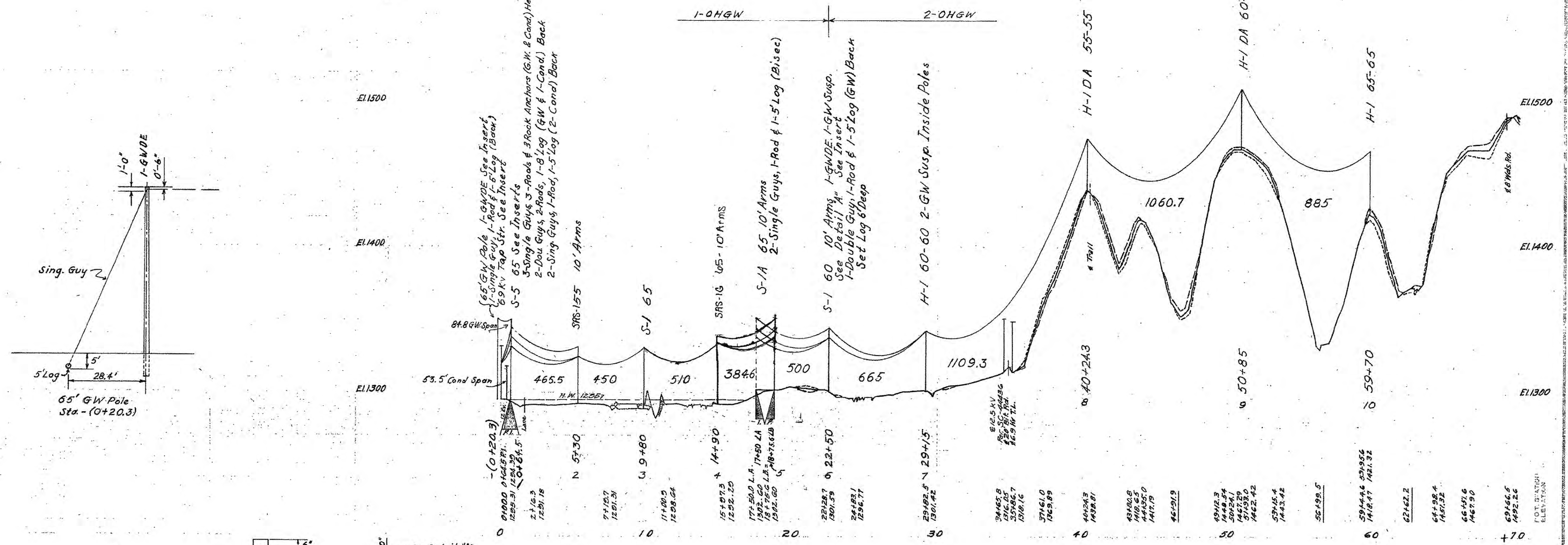
TENNESSEE VALLEY AUTHORITY
DIVISION OF POWER ENGINEERING AND CONSTRUCTION

**HARRIMAN-PETROS
WARTBURG SUBSTATION TAP
TRANSMISSION LINE
STA. 190+00 TO STA. 310+00**

SUBMITTED *[Signature]* DATE Feb. 19, 1953
SHEET 70 OF SHEETS
W302
LW-1655

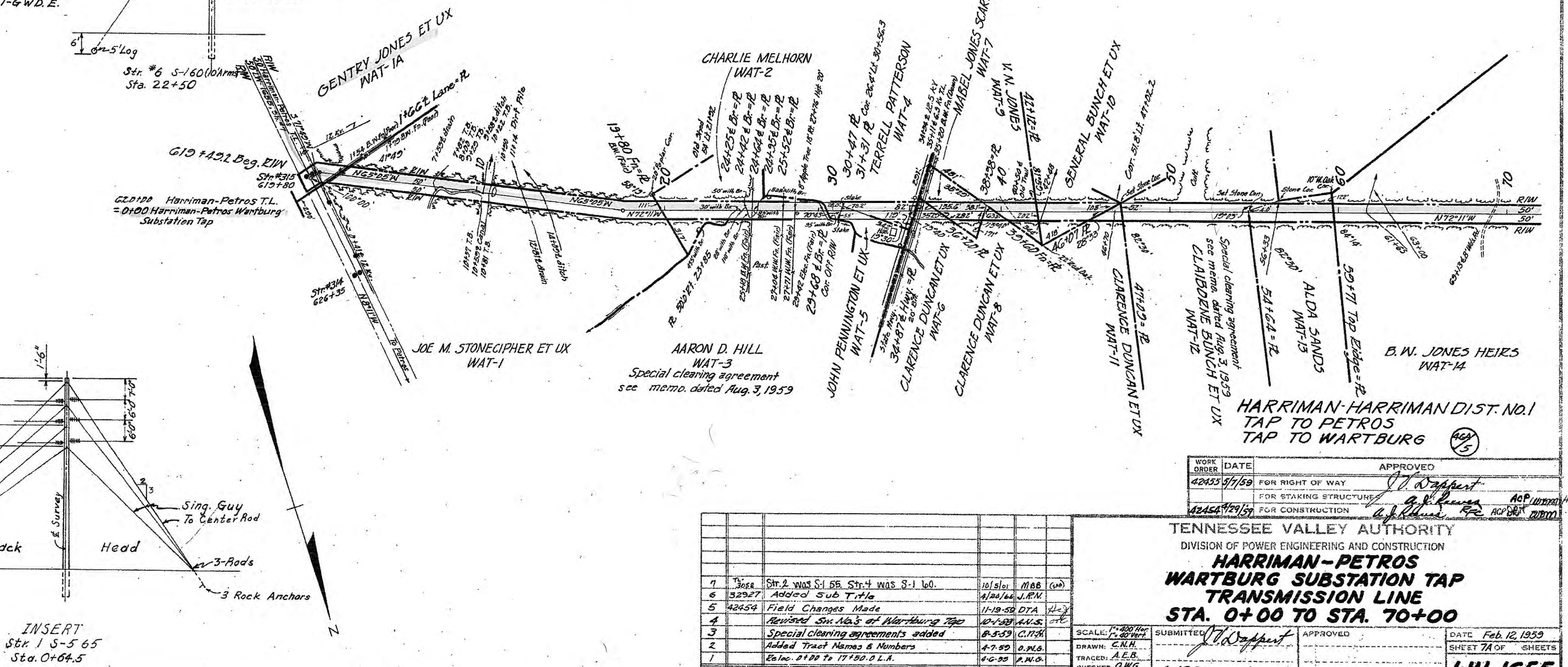
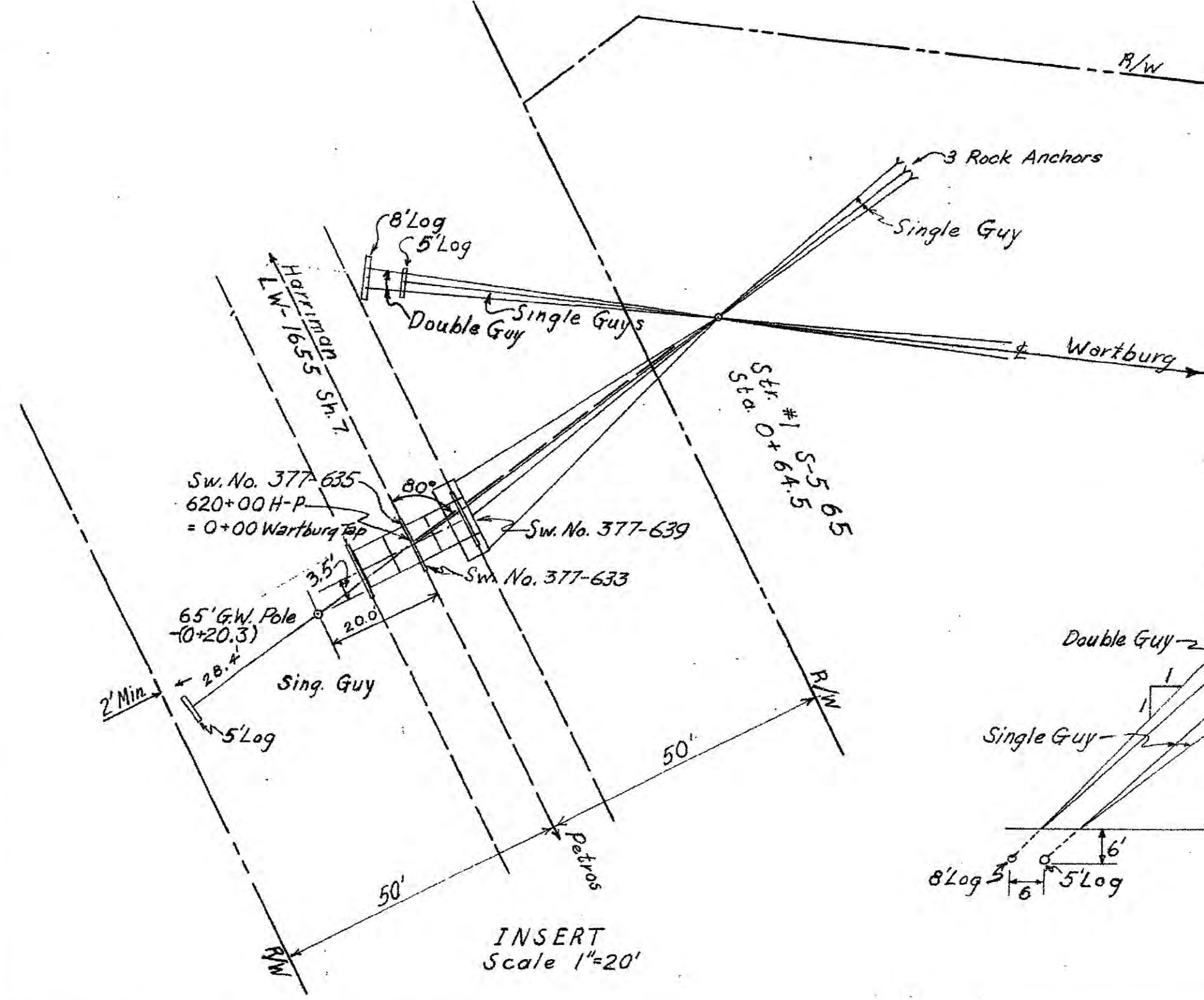
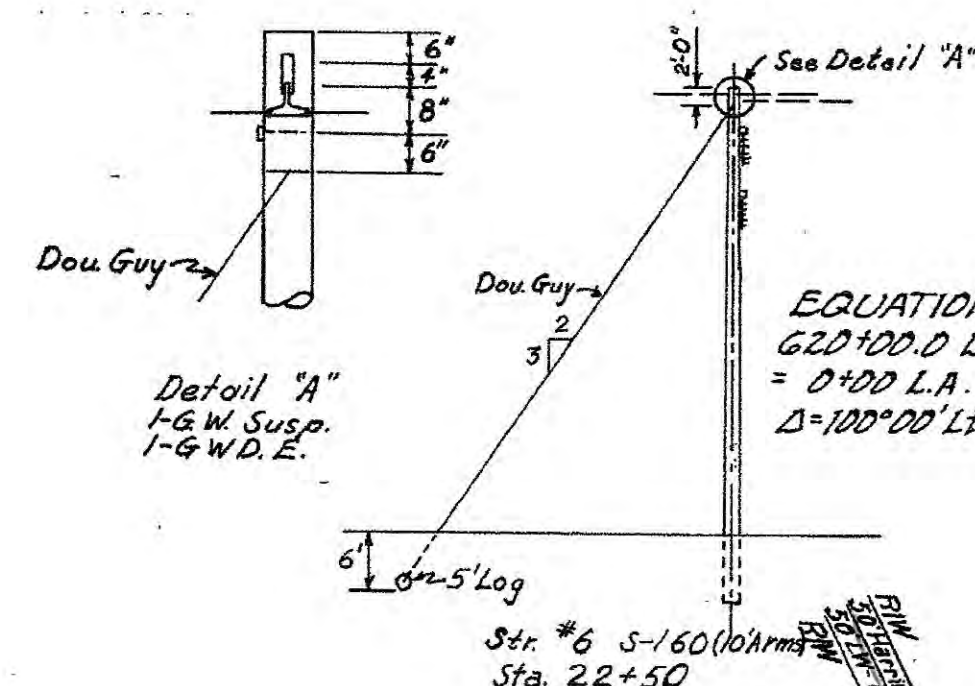
PROFILE	SIG	DATE	CHECKED	SIG	DATE	LEGEND
CENTER LINE PLOTTED	C.N.H.	1-30-59	CHECKED	O.W.G.	1-30-59	CENTER LINE PROFILE
SIDE HILL PLOTTED	C.N.H.	1-30-59	CHECKED	O.W.G.	1-30-59	SIDE HILL 1/8" FT. RIGHT
						SIDE HILL 1/8" FT. LEFT

4/0 ACSR 6/1 SLACK SPAN SAG = 2'
 3/8" H.S. STEEL GW 84'5" SLACK SPAN Sag 2'
 4/0 ACSR 6/1 4/25" D.T. 1/2" ICE 8" WIND @ 0° P. 800' A.S.
 3/8" H.S. STEEL GW 4550' D.T. 1/2" ICE 8" WIND @ 0° P. 800' A.S.
 CLASS 2-POLES



**MORGAN COUNTY, TENN.
SECOND CIVIL DISTRICT**

EQUATION
 $18+75.6 \text{ L.B. } 0^{\circ} 44.5' \text{ P.I.}$
 $17+50.0 \text{ L.A. } 17^{\circ} 06' 11''$
 $D = 7^{\circ} 06' 11''$

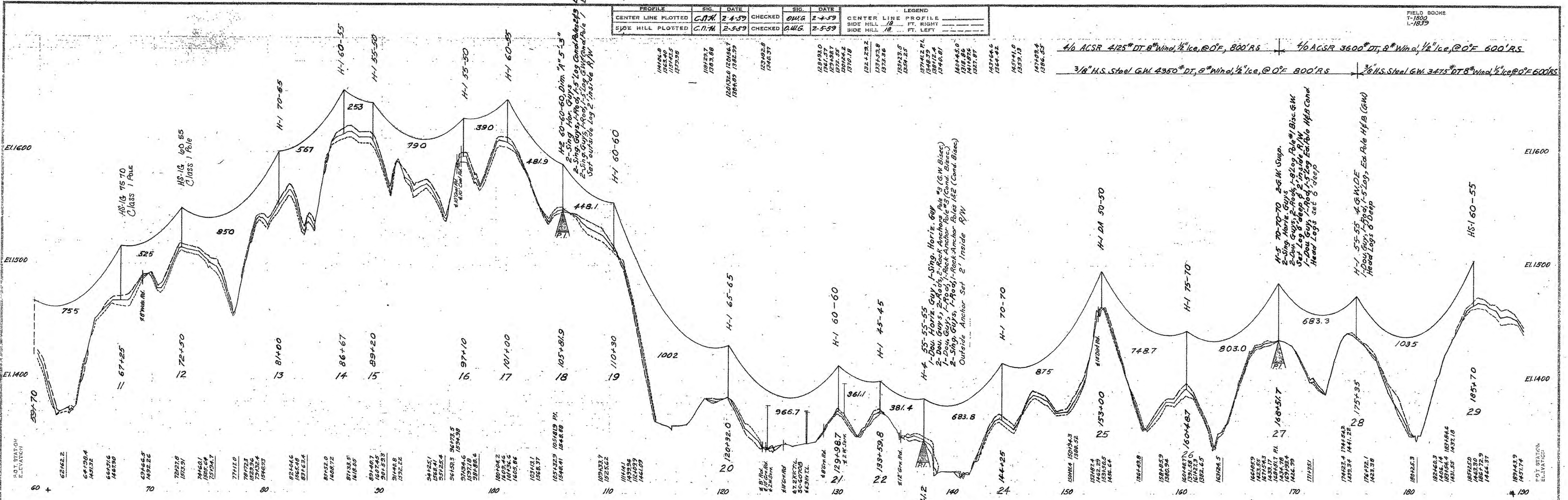


WORK ORDER		DATE		APPROVED	
42453		5/1/59		[Signature]	
FOR RIGHT OF WAY		FOR STAKING STRUCTURE		FOR CONSTRUCTION	
42454		5/1/59		[Signature]	
TENNESSEE VALLEY AUTHORITY					
DIVISION OF POWER ENGINEERING AND CONSTRUCTION					
HARRIMAN-PETROS					
WARTBURG SUBSTATION TAP					
TRANSMISSION LINE					
STA. 0+00 TO STA. 70+00					
1		2		3	
3/558		52927		42454	
Str. 2 was S-1 65 Str. 4 was S-1 60		Added Sub Title		Field Changes Made	
Revised Sta. 10.5 at Wartburg Tap		Special clearing agreements added		Added Tract Names & Numbers	
Balance 2100 to 17150.0 L.A.		4-0-50 A.M.O.		1-0-50 A.M.O.	
DATE		SIG.		APPRO.	
5/1/59		[Signature]		[Signature]	
DATE		SIG.		APPRO.	
Feb. 12, 1959		[Signature]		[Signature]	
SHEET 7A OF SHEETS		LW-1655			

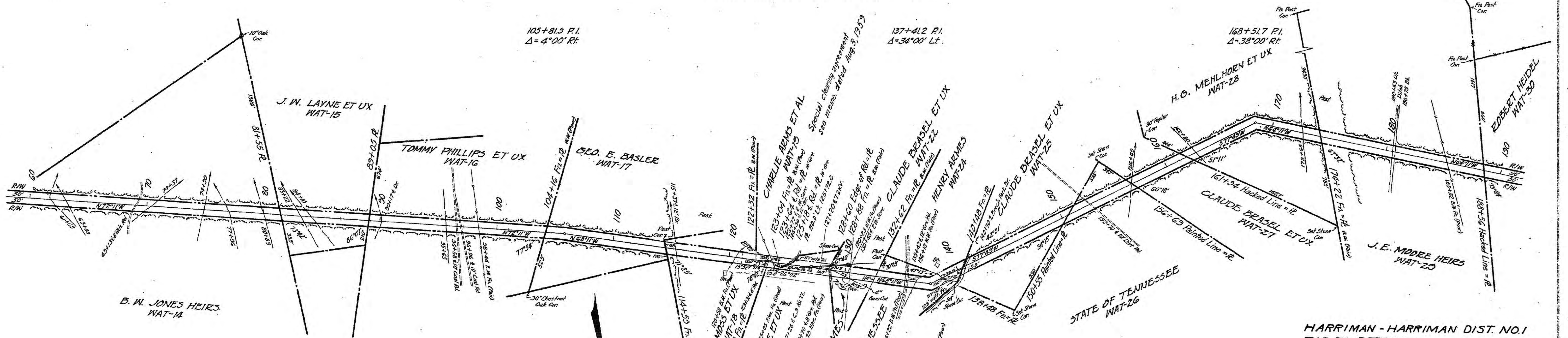
MICROFILMED

PROFILE	SIG.	DATE	CHECKED	SIG.	DATE	LEGEND
CENTER LINE PLOTTED	C.N.H.	2-4-59		C.N.H.	2-4-59	CENTER LINE PROFILE
SIDE HILL PLOTTED	C.N.H.	2-5-59		C.N.H.	2-5-59	SIDE HILL 18 FT. RIGHT
						SIDE HILL 18 FT. LEFT

FIELD BOOKS
T-1800
L-1839



**MORGAN COUNTY, TENN.
SECOND CIVIL DISTRICT**



HARRIMAN - HARRIMAN DIST. NO. 1
TAP TO PETROS
TAP TO WARTBURG

DATE	APPROVED
10/15/59	
FOR RIGHT OF WAY	
FOR STAKING STRUCTURE	
FOR CONSTRUCTION	
Tennessee Valley Authority	
DIVISION OF POWER ENGINEERING AND CONSTRUCTION	
HARRIMAN - PETROS	
WARTBURG SUBSTATION TAP	
TRANSMISSION LINE	
STA. 70+00 TO STA. 190+00	
SCALE: 1"=100'	SUBMITTED
DATE: Feb. 17, 1959	APPROVED
SHEET 78 OF 100	
LW-1655	

MICROFILMED 6

72119

001655 78

