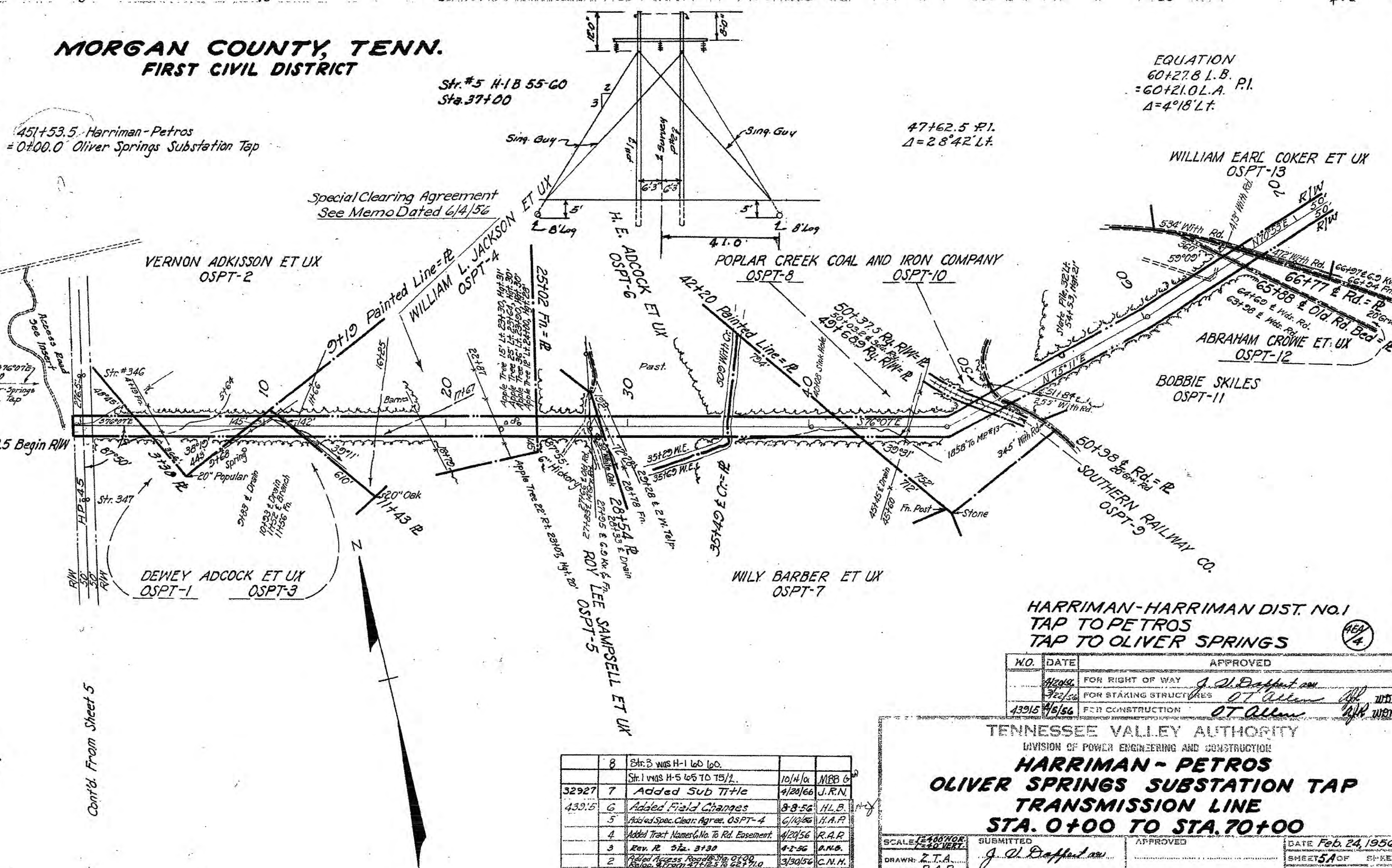
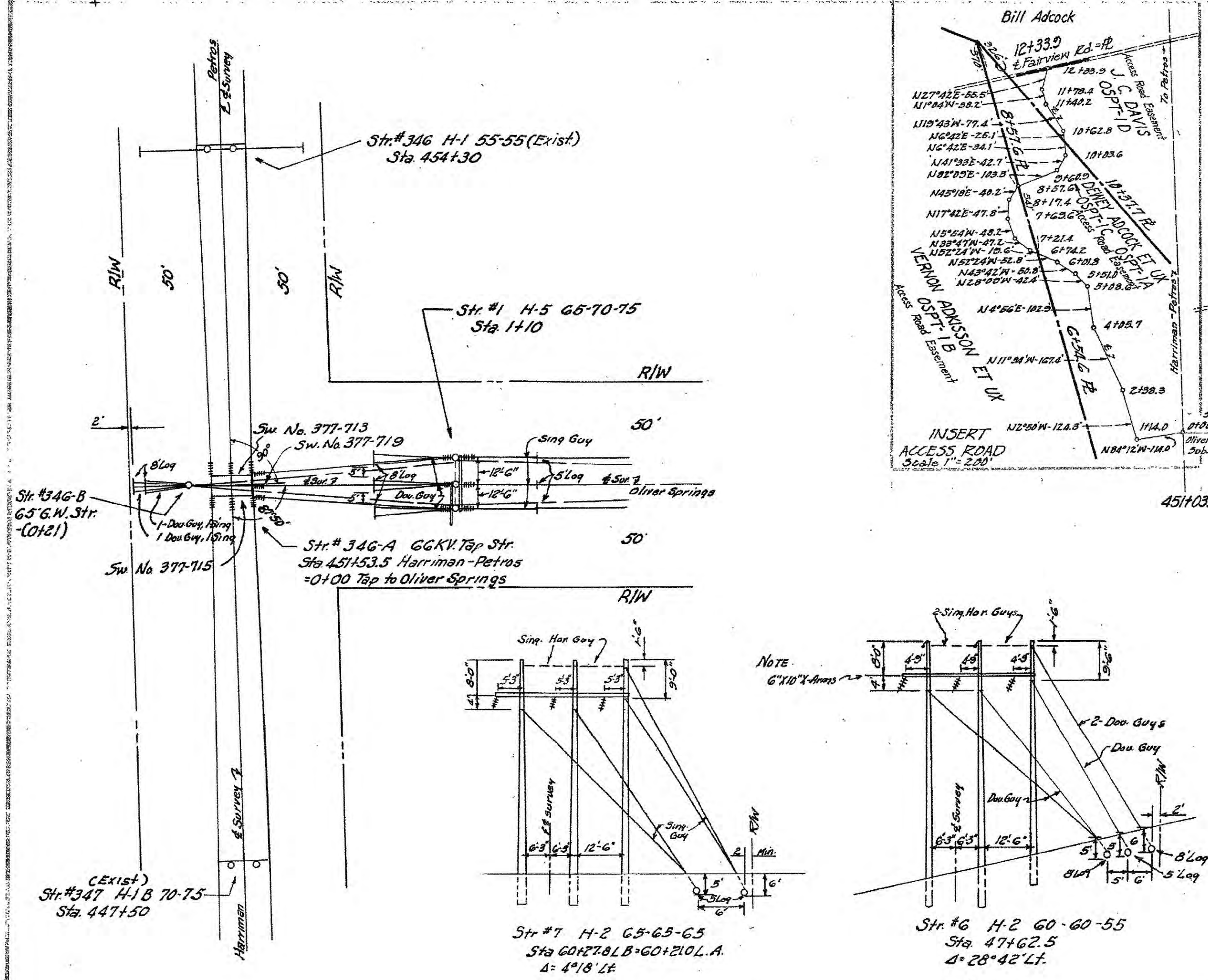
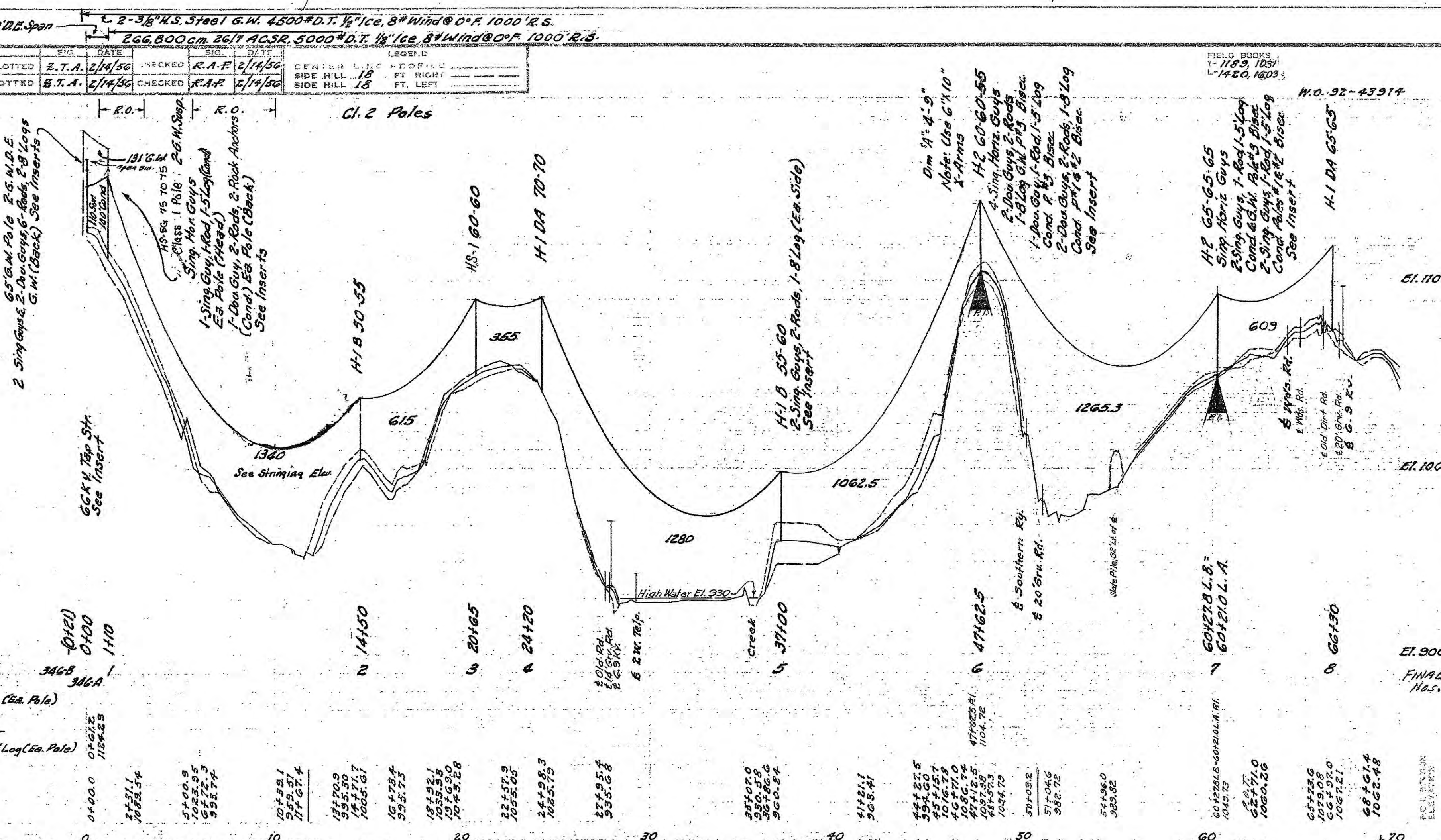


PROFIL	SIG.	DATE	SIG.	DATE
CENTER LINE PLOTTED	E.T.A.	2/14/56	CHECKED	R.A.F. 2/14/56
SIDE HILL PLOTTED	E.T.A.	2/14/56	CHECKED	R.A.P. 2/14/56

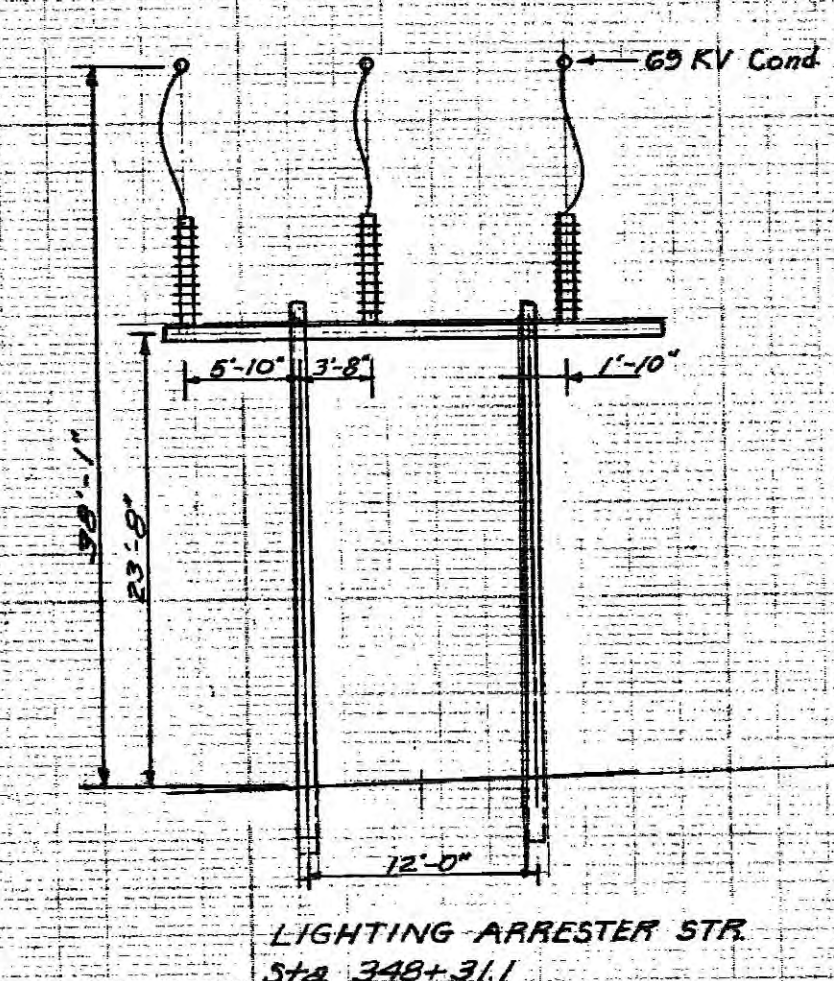
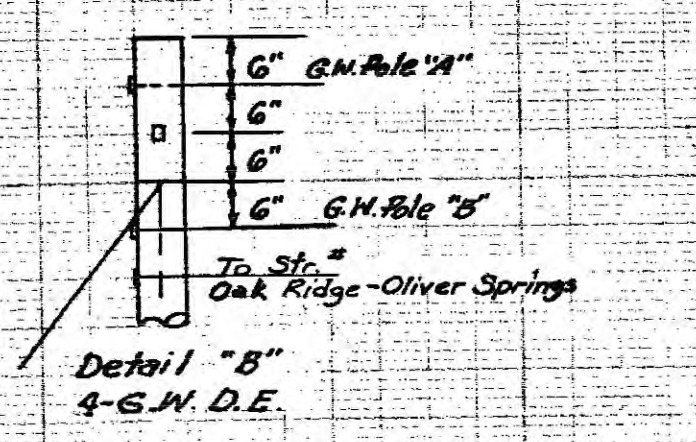
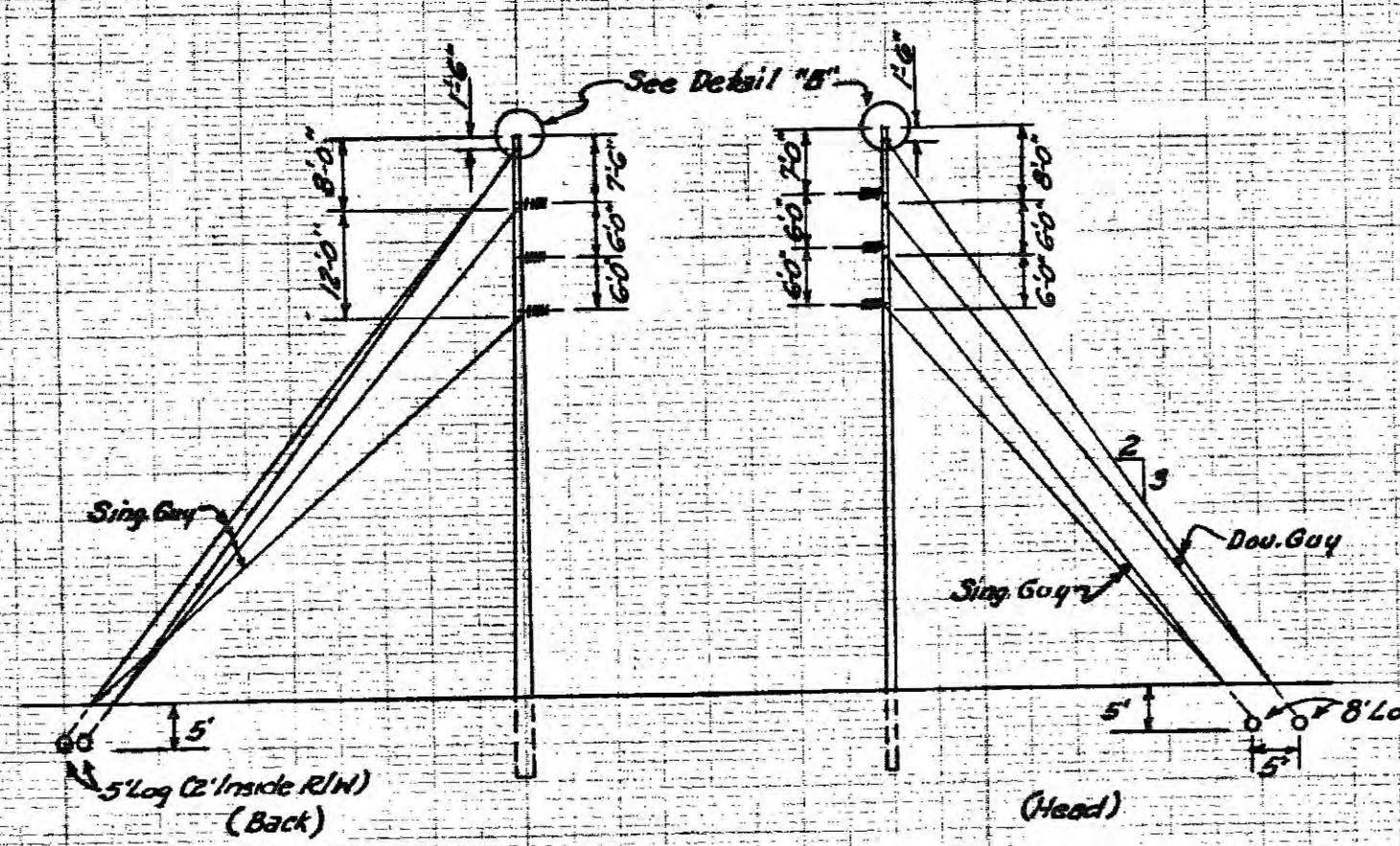
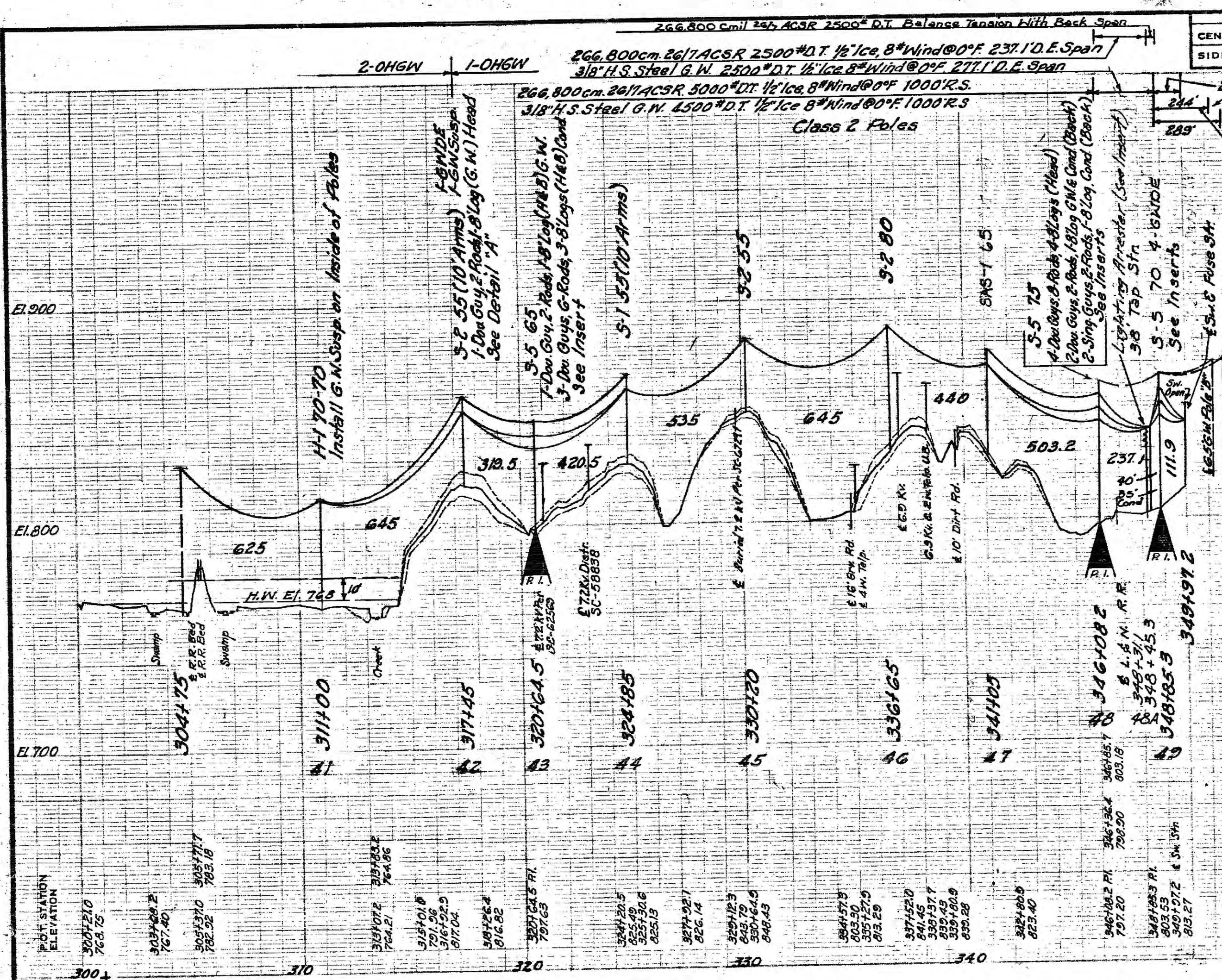
The top diagram is a side view of a utility pole. It shows a vertical pole with a cross-arm at the top. A guy wire is attached to the pole at a height of 12' and extends to the ground at a distance of 8' from the pole. Another guy wire is attached to the pole at a height of 10' and extends to the ground at a distance of 6' from the pole. The pole is labeled 'To Oliver Springs' at the top. The ground is indicated by a horizontal line. The pole is labeled '1- Sing Guy & 1- Dow Guy' and '1- Sing Guy & 1- Dow Guy'. The text 'Install Sing Guy to Center Rod' is written next to the pole. The pole is labeled '2'' at the top. The ground is labeled 'G' and 'G'.

The bottom diagram is a front view of a utility pole. It shows a vertical pole with a cross-arm at the top. A guy wire is attached to the pole at a height of 12' and extends to the ground at a distance of 5' from the pole. Another guy wire is attached to the pole at a height of 10' and extends to the ground at a distance of 5' from the pole. The pole is labeled '2- G.M. Susp.' at the top. The ground is indicated by a horizontal line. The pole is labeled 'Dow Guy (See A/B)' and 'Sing Guy'. The text '2- Rock Anchors (See A/B)' is written next to the pole. The pole is labeled 'Back' and 'Head'. The pole is labeled 'Sta. #1 H.S. 65-70-75 Sta. 1110' at the bottom.



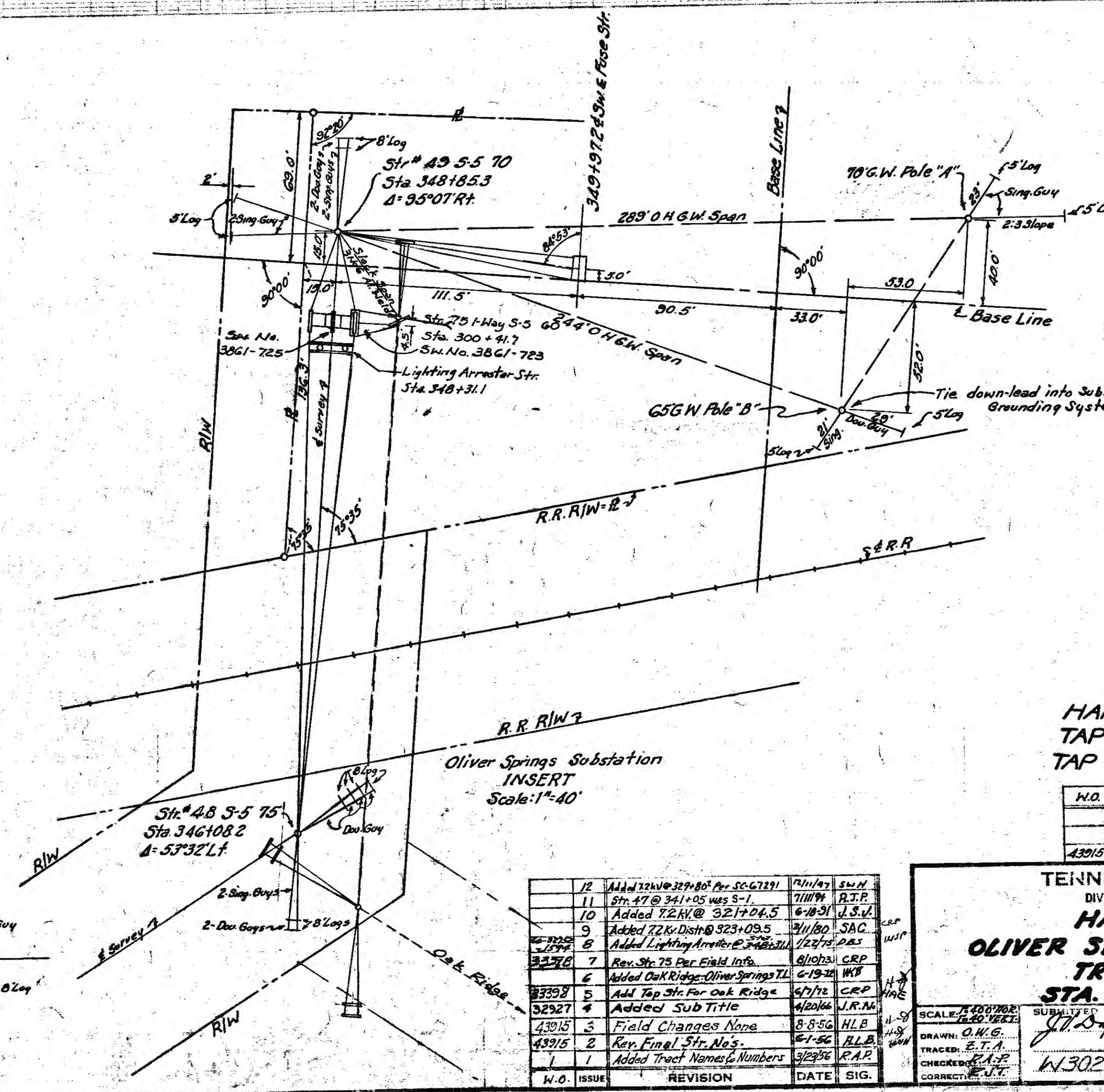
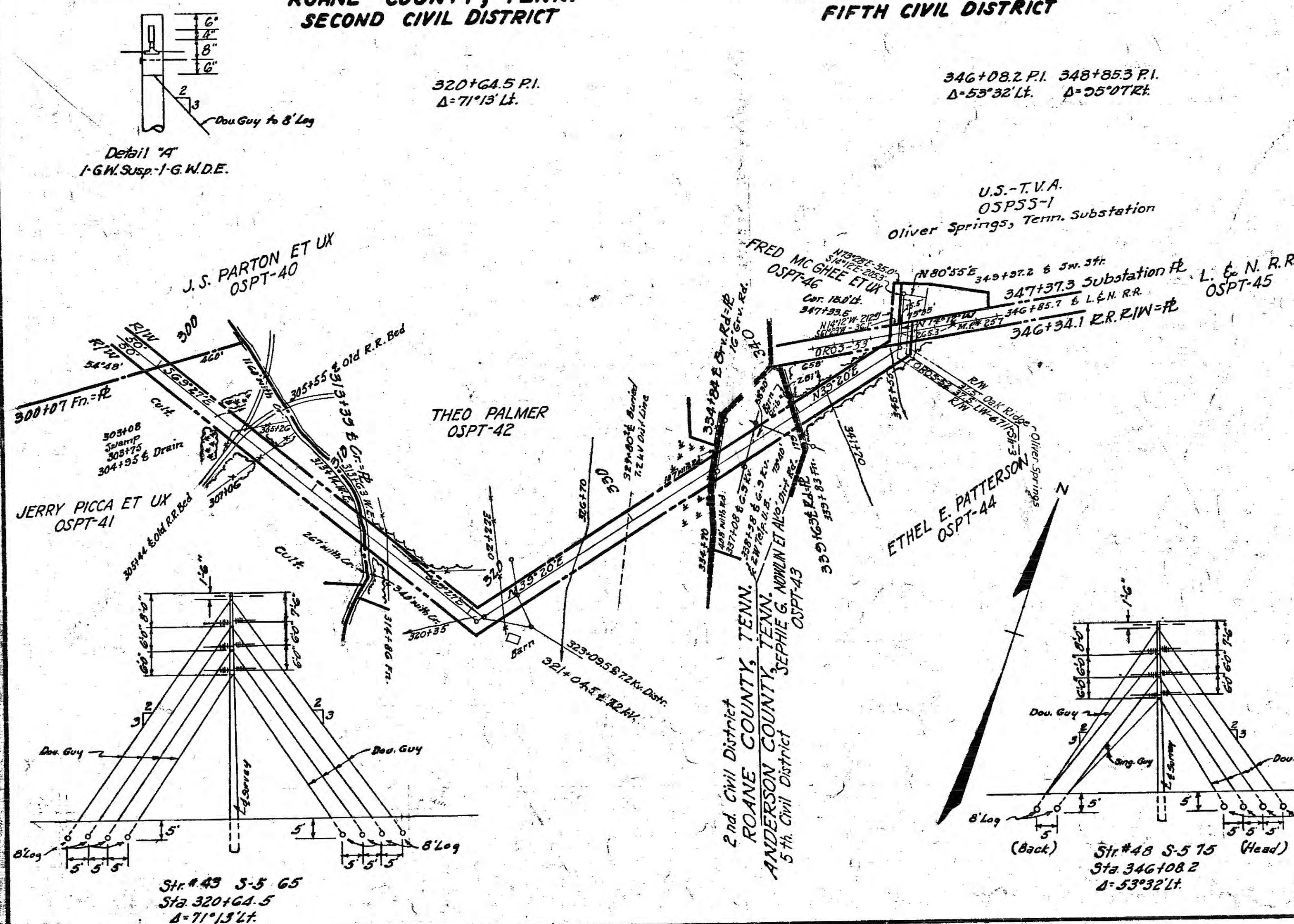
PROFILE	SIG.	DATE	CHECKED	SIG.	DATE	LEGEND
CENTER LINE PLOTTED	R.A.P.	2/20/56		H.A.R.	2/20/56	CENTER LINE PROFILE
SIDE HILL PLOTTED	R.A.P.	2/20/56		C.H.G.	2/20/56	SIDE HILL 18 FT. RIGHT SIDE HILL 18 FT. LEFT

STRINGING SAGS & TENSIONS										
SPAN	TEMP	30°	40°	50°	60°	70°	80°	90°	100°	Final
266,800cm. 26/7ACSR 1000'D.T. 1/2" Ice 8" Wind @ 0°F 111.9'D.E. Span										
TENS	220	215	210	205	200	195	190	185		
SAG	2.9	2.4	2.5	2.6	2.7	2.7	2.8	2.8	3.0	
266,800cm. 26/7ACSR 2500'D.T. 1/2" Ice 8" Wind @ 0°F 237.1'D.E. Span										
TENS	780	740	705	655	630	600	575	555	515	
SAG	3.5	3.5	3.7	3.9	4.1	4.4	4.6	4.8	5.1	
316'H.S. Steel G.W. 2500'D.T. 1/2" Ice 8" Wind @ 0°F 271'D.E. Span										
TENS	925	870	820	765	730	695	660	630	570	
SAG	2.9	3.1	3.2	3.4	3.6	3.8	4.0	4.2	4.6	



ROANE COUNTY, TENN.
SECOND CIVIL DISTRICT

ANDERSON COUNTY, TENN.
FIFTH CIVIL DISTRICT

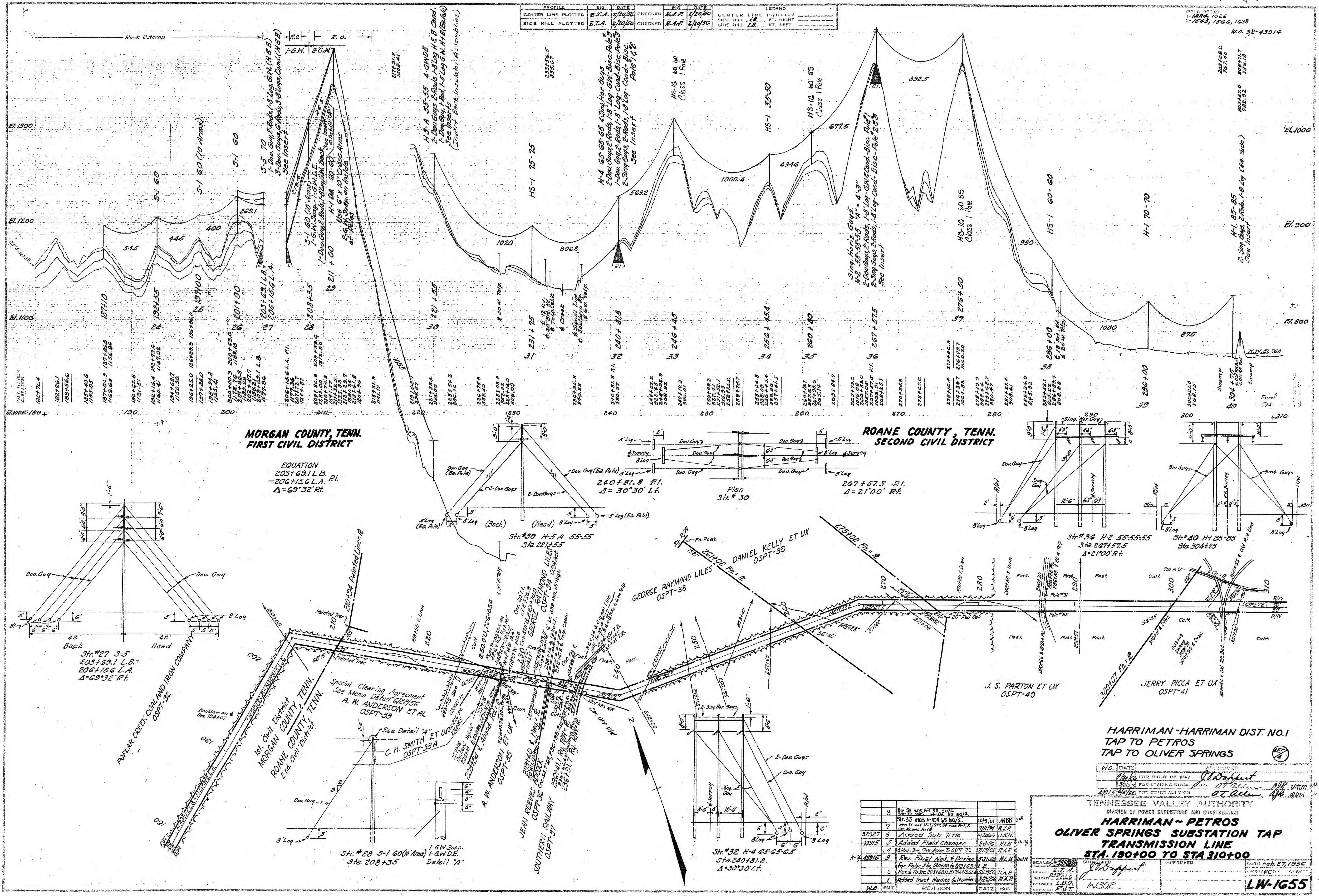


HARRIMAN-HARRIMAN DIST. NO. 1
TAP TO PETROS
TAP TO OLIVER SPRINGS

W.O.	DATE	APPROVED
43915	1/5/56	W.O. 92-43314

TENNESSEE VALLEY AUTHORITY DIVISION OF POWER ENGINEERING AND CONSTRUCTION	
HARRIMAN - PETROS OLIVER SPRINGS SUBSTATION TAP TRANSMISSION LINE STA. 310+00 TO STA. 349+972	
SCALE	DATE
1" = 100'	Feb. 28, 1956
DESIGNED	CHECKED
W.O. 92-43314	W.O. 92-43314
REVISION	DATE
1. Added Tract Names & Numbers	2/20/56
2. Rev. Final Str. No.	2/20/56
3. Field Changes None	2/20/56
4. Added Sub Title	2/20/56
5. Add Top Str. for Oak Ridge	2/20/56
6. Add Oak Ridge-Oliver Springs T.L.	2/20/56
7. Rev. Str. 75 per Field Info.	2/20/56
8. Added Lighting Arresters	2/20/56
9. Added 72K Dist. @ 321+26.5	2/20/56
10. Added 72K Dist. @ 321+26.5	2/20/56
11. Str. 47 @ 341+05 was S-1	2/20/56
12. All 122K Dist. @ 341+05 was S-1	2/20/56

LW-1655



PROFILE	SIG.	DATE	CHECKED	SIG.	DATE	LEGEND
CENTER LINE PLOTTED	E.T.A.	2/20/50		H.A.P.	2/20/50	CENTER LINE PROFILE
SIDE HILL PLOTTED	E.T.A.	2/20/50		H.A.P.	2/20/50	SIDE HILL 18' FT. RIGHT
						SIDE HILL 18' FT. LEFT

FIELD BOOKS
1-1004, 1026
1845, 1566, 1638
N.O. 32-43914

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

EQUATION
203+69.1 L.B.
= 206+15.6 L.A. P.I.
Δ = 69°32' Rt.

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

267+57.5 P.I.
Δ = 21°00' Rt.

**HARRIMAN-HARRIMAN DIST. NO. 1
TAP TO PETROS
TAP TO OLIVER SPRINGS**

NO.	ISSUE	REVISION	DATE	SIG.
1	Rev. Final No. 1		2/20/50	H.A.P.
2	Rev. 6 to Sta. 203+69.1 L.B.		2/20/50	H.A.P.
3	Added Sub Title		2/20/50	H.A.P.
4	Added Field Changes		2/20/50	H.A.P.
5	Added Spec. Clear. Notes to O.S.P.T.		2/20/50	H.A.P.
6	Rev. Final No. 1		2/20/50	H.A.P.
7	Rev. 6 to Sta. 203+69.1 L.B.		2/20/50	H.A.P.
8	Added Tract Names & Numbers		2/20/50	H.A.P.

W.O. DATE 2/20/50 FOR RIGHT OF WAY 100' FOR STAKING STRUCTURES 100' FOR CONSTRUCTION

APPROVED
J. S. Parton
J. S. Parton
J. S. Parton

TENNESSEE VALLEY AUTHORITY
DIVISION OF POWER ENGINEERING AND CONSTRUCTION

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

SCALE: 1" = 100' HORIZ. 1" = 20' VERT.

DATE Feb. 27, 1950

LW-1655

