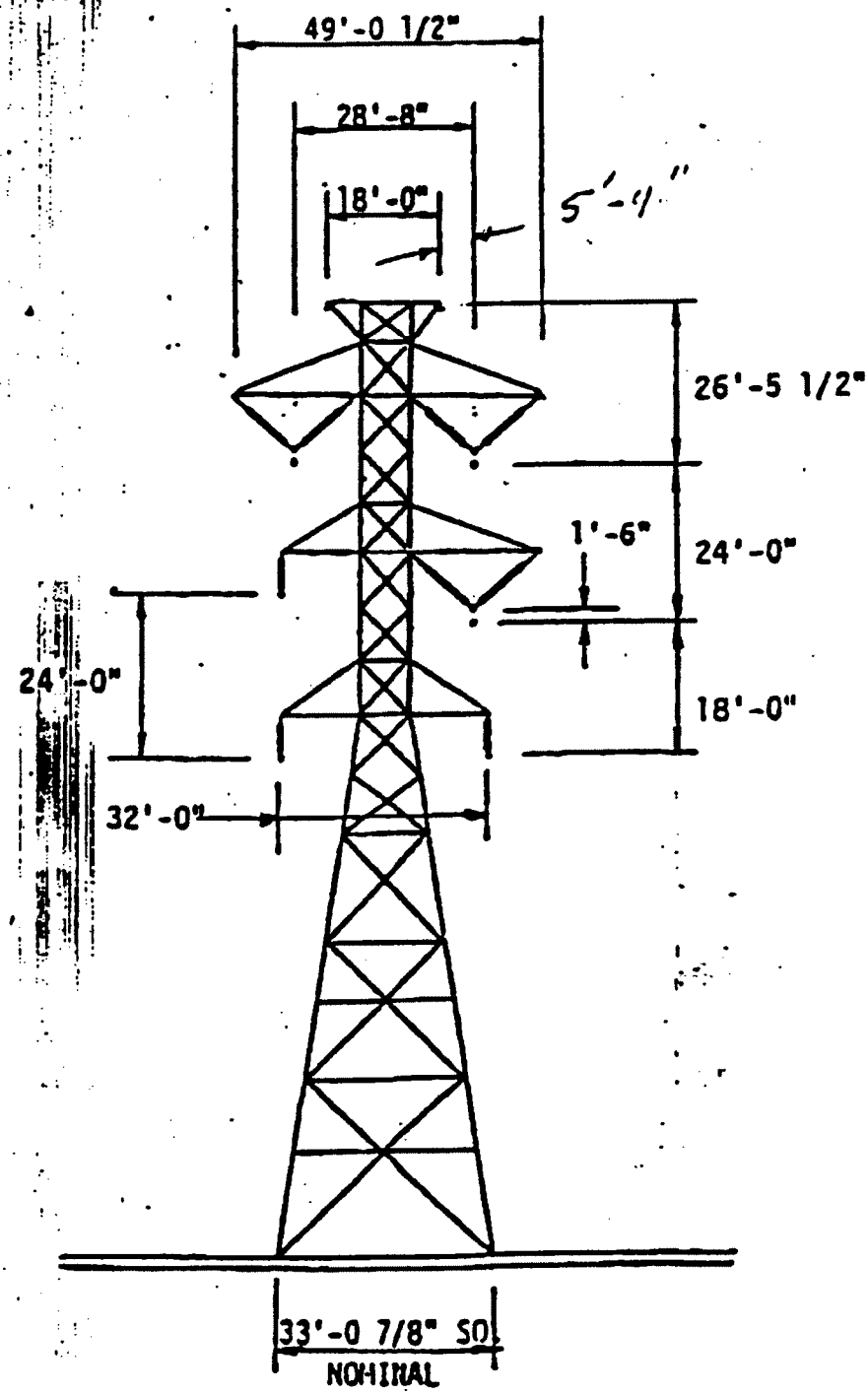
ATTACHMENT I

AERIAL MAINTENANCE SERVICES

TOWER DIMENSIONS

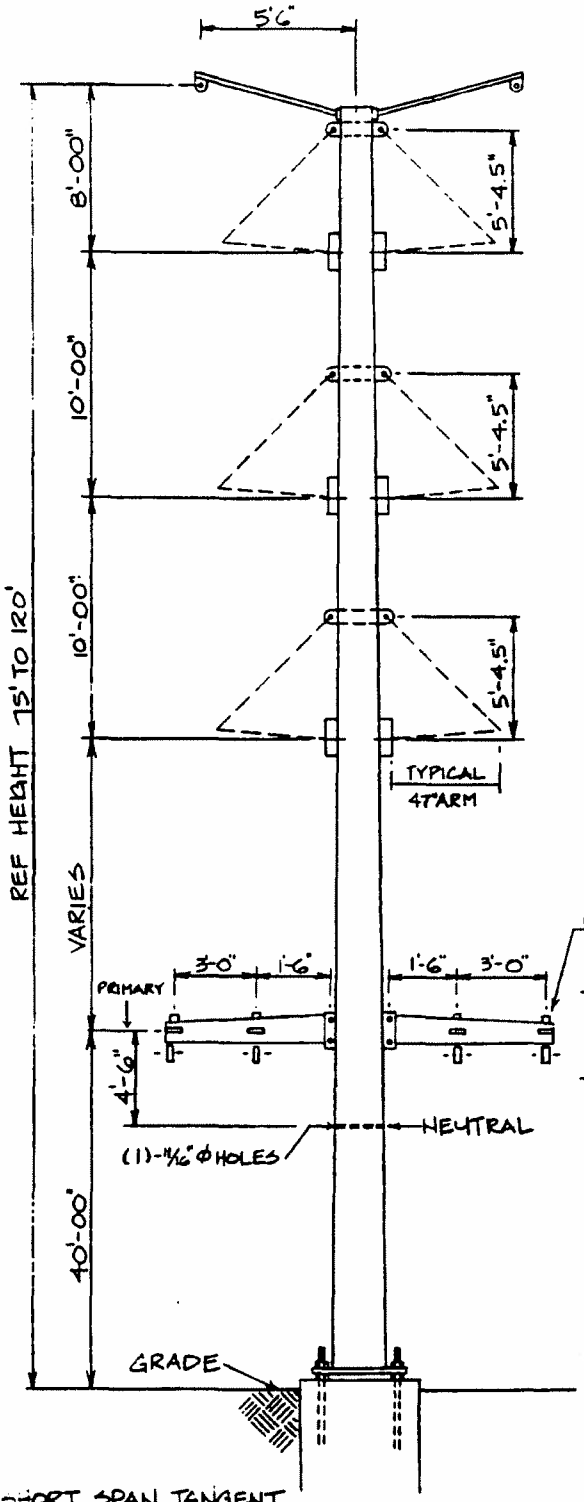


TOP RIGHT "V" STRING CIRCUIT - FIG. 91

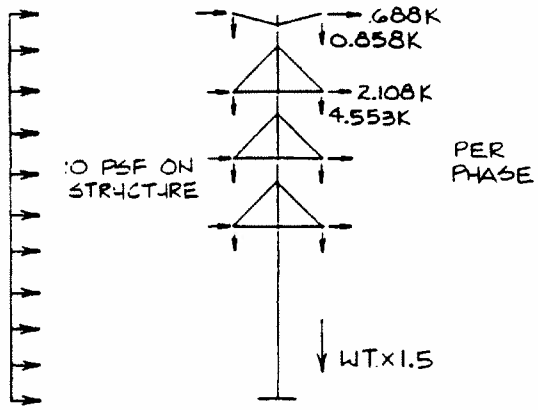
BOTTOM LEFT SUSPENSION CIRCUIT - FIG. 92

LOWER COLORADO RIVER AUTHORITY
AUSTIN, TEXAS

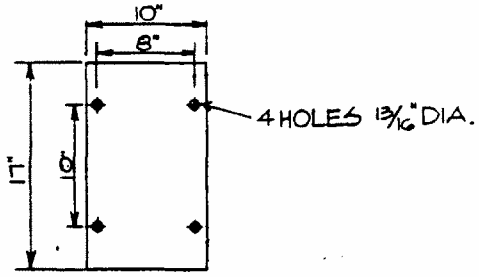
NO.	DATE	REVISION	BY	CHKD.
2				
1				



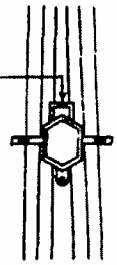
SHORT SPAN TANGENT
W/ UNDERBUILD
WIND SPAN = 300' WT. SPAN = 350'
INS. WT. = 104 #



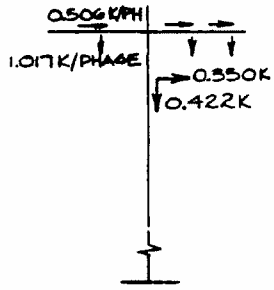
LOAD TREE TRANSMISSION
NESC HEAVY



INSULATOR BOLT HOLE PATTERN AND BASE DIMENSION



SECTION B-B



LOAD TREE UNDERBUILD

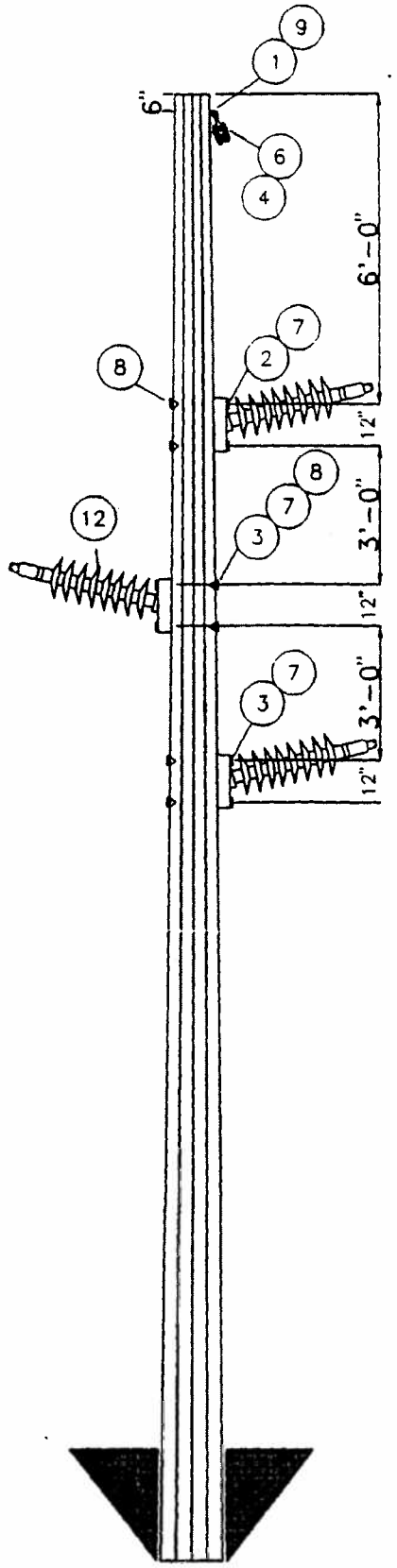
DESIGN DATA

O.H.G.W.: (1) 3/8" E.H.S STEEL, 5400 MAX. DESIGN TENSION

TRANSMISSION CIRCUIT
- WIND SPAN - 600'
- WEIGHT SPAN - 700'
- CONDUCTOR: (2) 795 MCM A.C.S.R. (26/7)
- 12,480# M.D.T PER CONDUCTOR

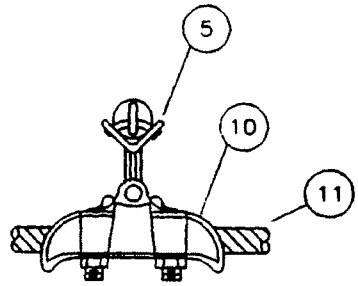
UNDERBUILD
- WIND SPAN - 300'
- WEIGHT SPAN - 400'
- PRIMARY: 1-795 MCM (37) ALL ALUM/PHASE
- 6885# MAX. DESIGN TENSION
- NEUTRAL: 2500# MAX. DESIGN TENSION

CITY OF AUSTIN, TEXAS ELECTRIC DEPARTMENT ENGINEERING DESIGN DIVISION	TITLE: TANGENT STRUCTURE 138 KV TRANSMISSION LINE DOUBLE CIR-BUNDLED COND.	DATE: 8-26-86 SCALE: N.T.S	
	APPROVED	DRAWING NUMBER: 7D-375-35	REV.



BILL OF MATERIALS

ITEM NO.	ITEM REQ	DESCRIPTION	EL SPEC	STOCK NUMI
1	1	BOLT MACH. GALV. 3/4" X 12"	122	320-20-107-
2	2	BOLT MACH. GALV. 3/4" X 18"	122	320-20-107-
3	4	BOLT MACH. GALV. 3/4" X 20"	122	320-20-107-
4	1	SHACKLE. ANCHOR -- 20,000 LB.	227	285-74-105
5	3	Y -- CLEVIS -- EYE	231	285-74-330
6	1	CLAMP-SUSPENSION-3/8" STATIC	245	285-95-485
7	6	WASHERS -- 2 1/4 X 2 1/4	259	320-20-133
8	8	WASHER -- SQ. CURVED. GALV. --	264	320-20-133
9	1	NUT -- OVAL EYE -- 3/4" GALV.	315	320-20-126
10	3	CLAMP-SUSP-795 MCM ACSR (26/7)	500	285-78-285
11	3	ROD-ARMOR PREF 795MCMACSR(26/7)	501	285-74-440
12	3	HORIZ. POST INSULATOR-GAIN BASE	698	285-74-180

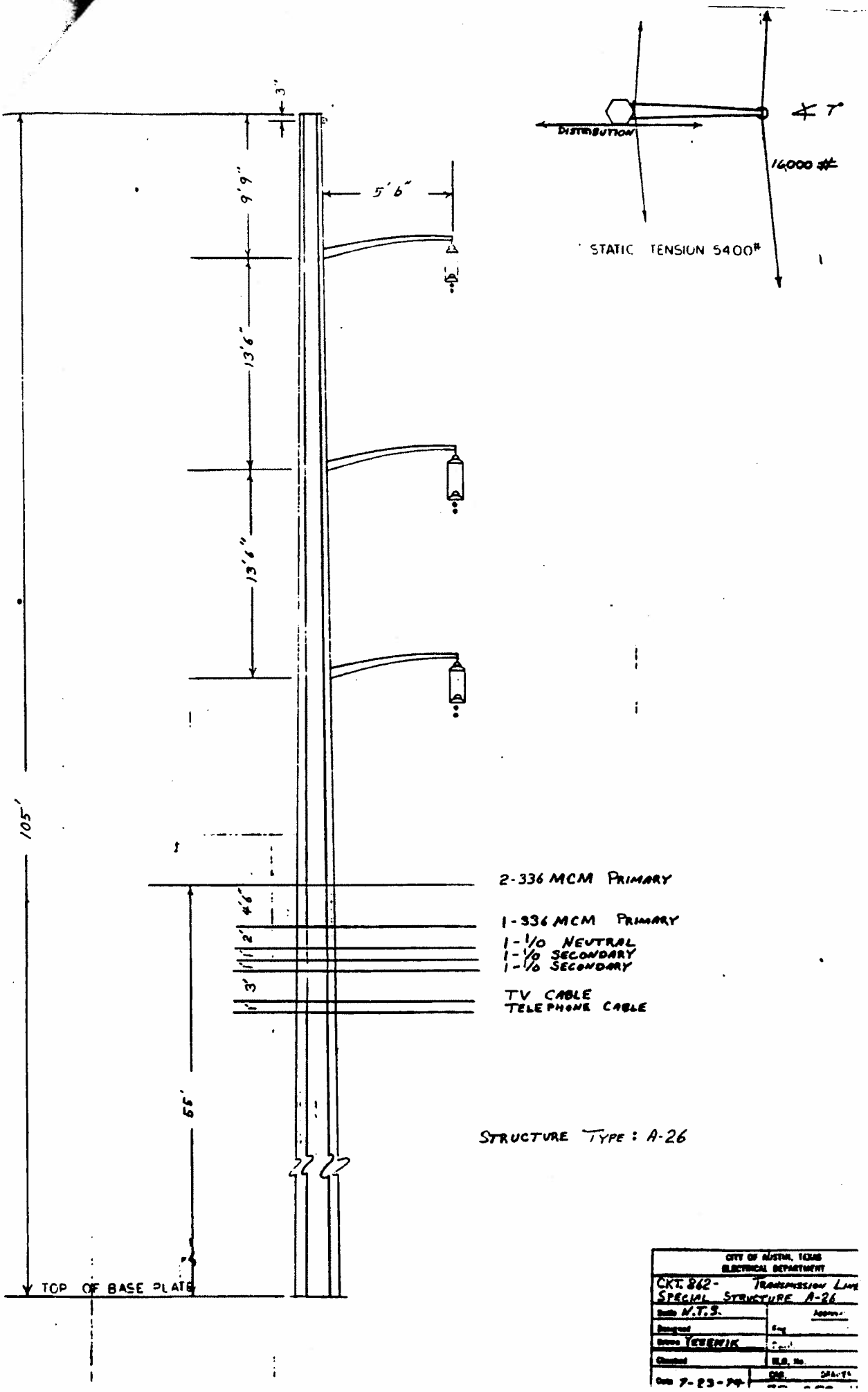


138kV CONDUCTOR DETAIL

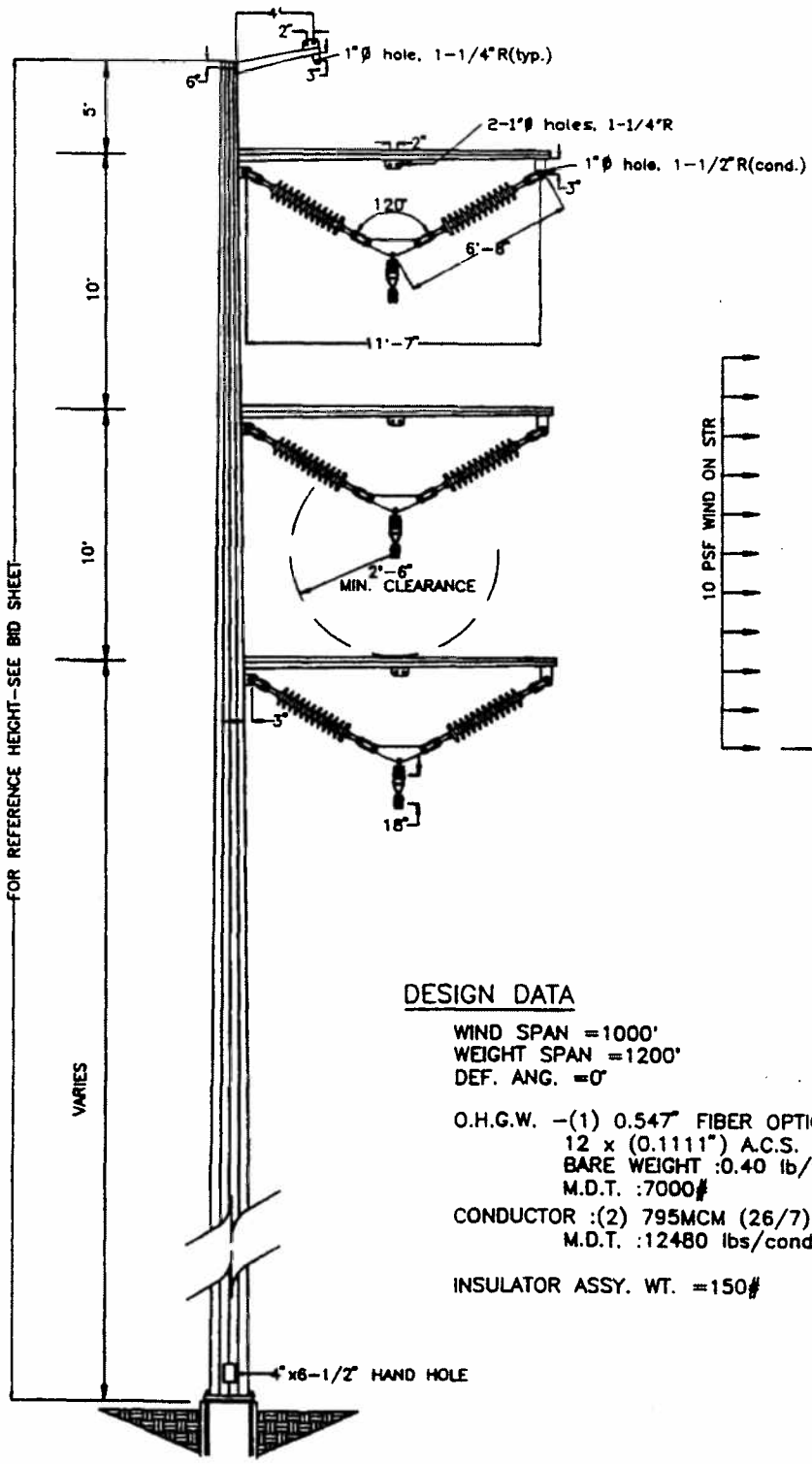
CITY OF AUSTIN, TEXAS

TITLE: HORIZONTAL POST TANGENT STRUCTURE (LT. DUTY STEEL)

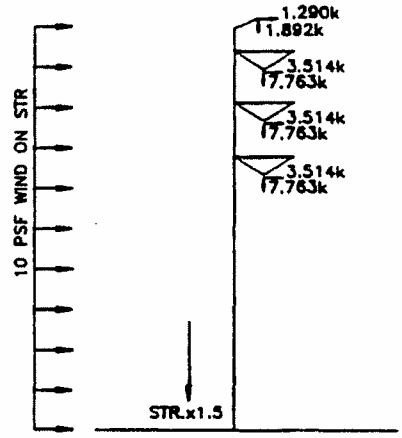
DATE: 14 SE
SCALE: N.T.S
DRAWING N



3"
9'9"
5'6"
13'6"
13'6"
105'
4'6"
2'
1'
3'
1'
55'
TOP OF BASE PLATE
2-336 MCM PRIMARY
1-336 MCM PRIMARY
1-1/0 NEUTRAL
1-1/0 SECONDARY
1-1/0 SECONDARY
TV CABLE
TELEPHONE CABLE
DISTRIBUTION
∢ 7°
16,000 #
STATIC TENSION 5400#
STRUCTURE TYPE: A-26
CITY OF AUSTIN, TEXAS
ELECTRICAL DEPARTMENT
CKT. 862 - TRANSMISSION LINE
SPECIAL STRUCTURE A-26
Scale N.T.S.
Designed
Drawn YESENIK
Checked
Date 7-23-74



ELEVATION



LOAD TREE
NESC HEAVY
(OLF INCLUDED)

DESIGN DATA

WIND SPAN =1000'
WEIGHT SPAN =1200'
DEF. ANG. =0°

O.H.G.W. -(1) 0.547" FIBER OPTIC GROUND WIRE
12 x (0.1111") A.C.S. WIRES
BARE WEIGHT :0.40 lb/ft
M.D.T. :7000#

CONDUCTOR :(2) 795MCM (26/7) ACSR DRAKE/PHASE
M.D.T. :12480 lbs/cond.

INSULATOR ASSY. WT. =150#

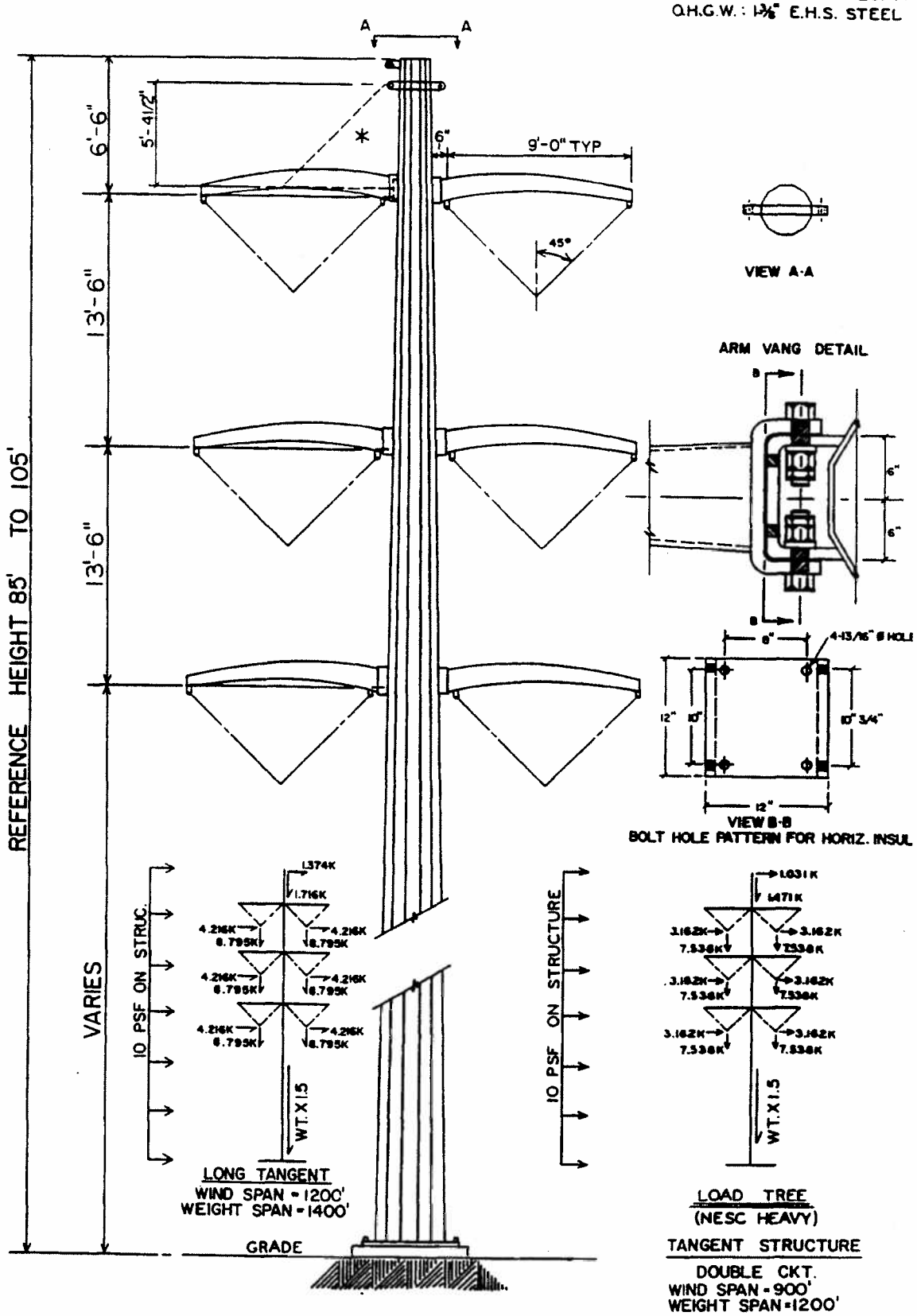
CITY OF AUSTIN, TEXAS ELECTRIC DEPARTMENT ENGINEERING DESIGN DIVISION	TITLE: 138kV SINGLE CIRCUIT-BUNDLED TANGENT	DATE: 31 JAN 92 SCALE: NTS	
	APPROVED	DRAWING NUMBER	7D-375-99

* (PROVIDE FOR ATTACHMENT OF HORIZONTAL V-STRING AT EACH ARM LOCATION.)

DESIGN DATA

CONDUCTOR: 2-795 MCM ACSR (26/7)

O.H.G.W.: 1-3/8" E.H.S. STEEL



CITY OF AUSTIN, TEXAS ELECTRIC DEPARTMENT ENGINEERING DESIGN DIVISION	TITLE: DOUBLE CIRCUIT 138 KV STEEL POLE STRUCTURE W/VERTICAL V-STRING	DATE: 10 - 3 - 83 SCALE: N.T.S.	
	APPROVED	DRAWING NUMBER	REV
		7D-363-1	

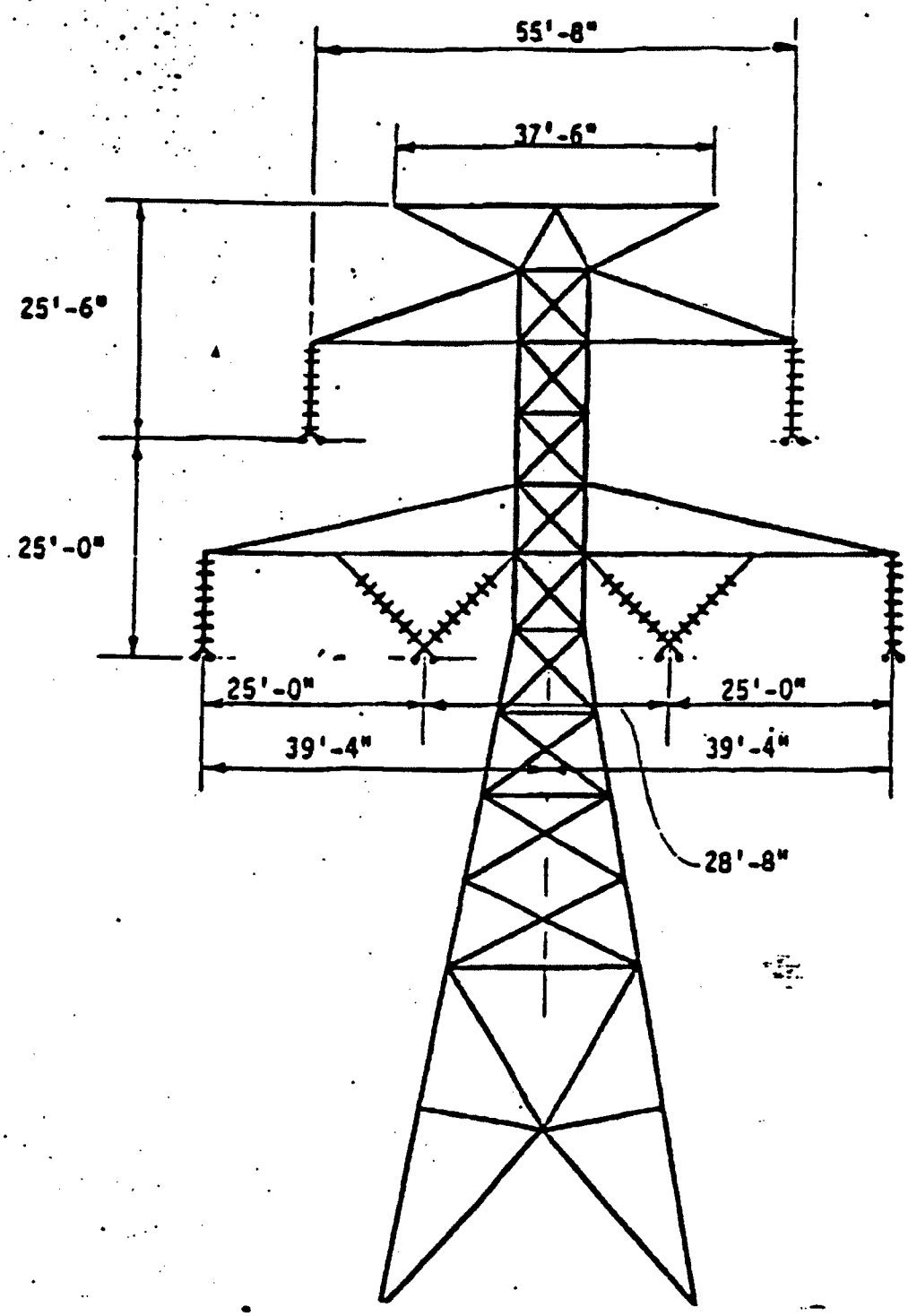


FIG. 43

LOWER COLORADO RIVER AUTHORITY
AUSTIN, TEXAS

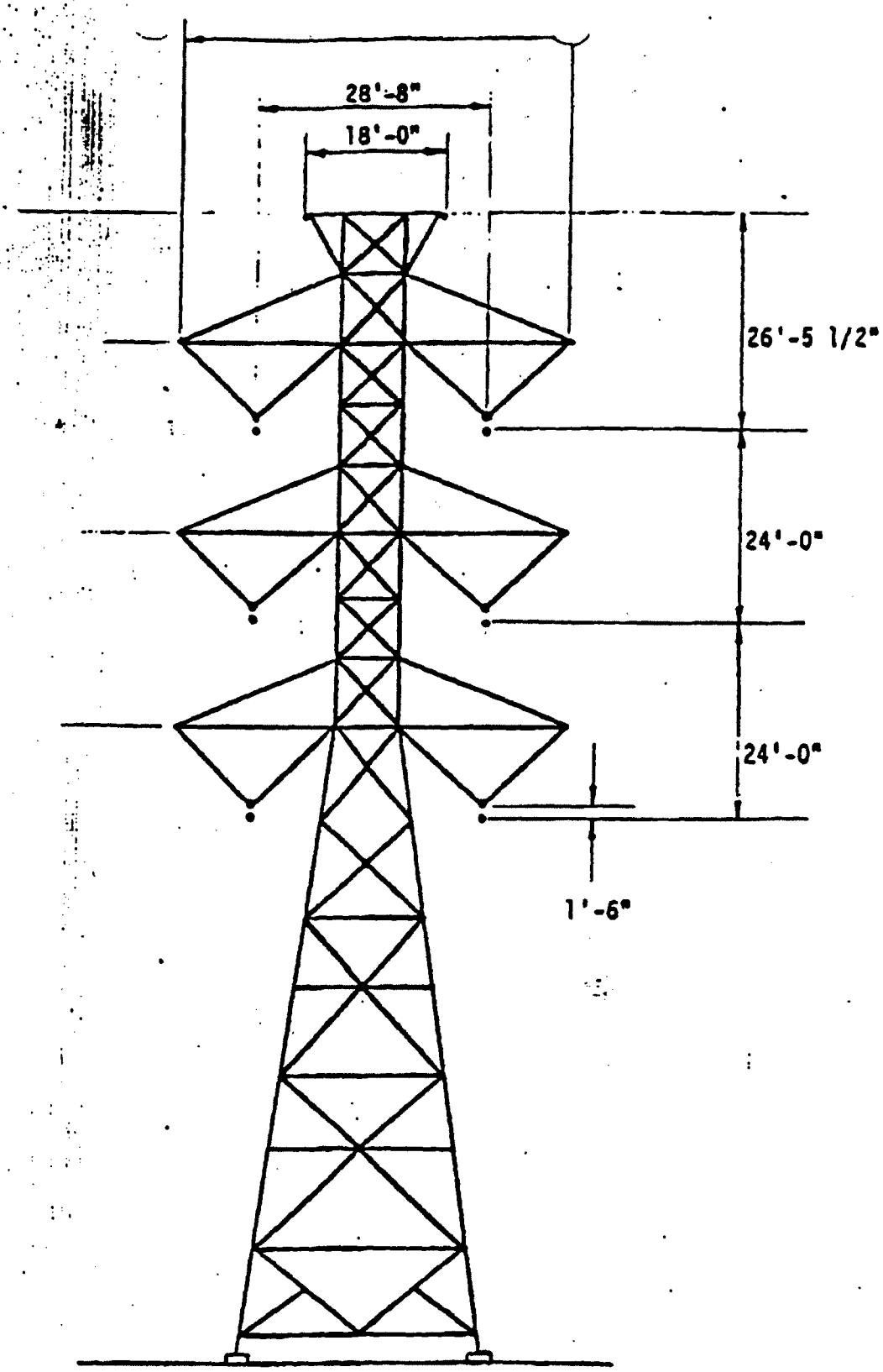


FIG. 60

LOWER COLORADO RIVER AUTHORITY
AUSTIN, TEXAS

NO.	DATE	REVISION	BY	CHKD.
2				
1				