

Construction of the Largest SteppIR Yagi Stack in the World at K9LTN

Presented by NØAE

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Construction of the Largest SteppIR Yagi Stack in the World at K9LTN

50 Feet

Rohn 25

Rohn 25

NOT TO SCALE
K9LTN
Proposed Tower and
Antenna System

66 Feet

Rohn 45

Rohn 45

Mounting Location of 4 Element SteppIR Yagi

Mounting Location of 4 Element SteppIR Yagi

Mounting location of KLM 4 Element 40 M Yagi

K9LTN Assembly 2

K9LTN Assembly 4A & 4B

One of 3 guy reinforcement lines
the other 2 not shown for simplicity

K9LTN
Assembly 3

Rohn 65G
K9LTN Assembly 1

5 Inch Sch 80
Pipe

One of 3 guy reinforcement lines
the other 2 not shown for simplicity

Elevation Rotator

8 Inch Sch 40
Pipe

Azimuth Rotor

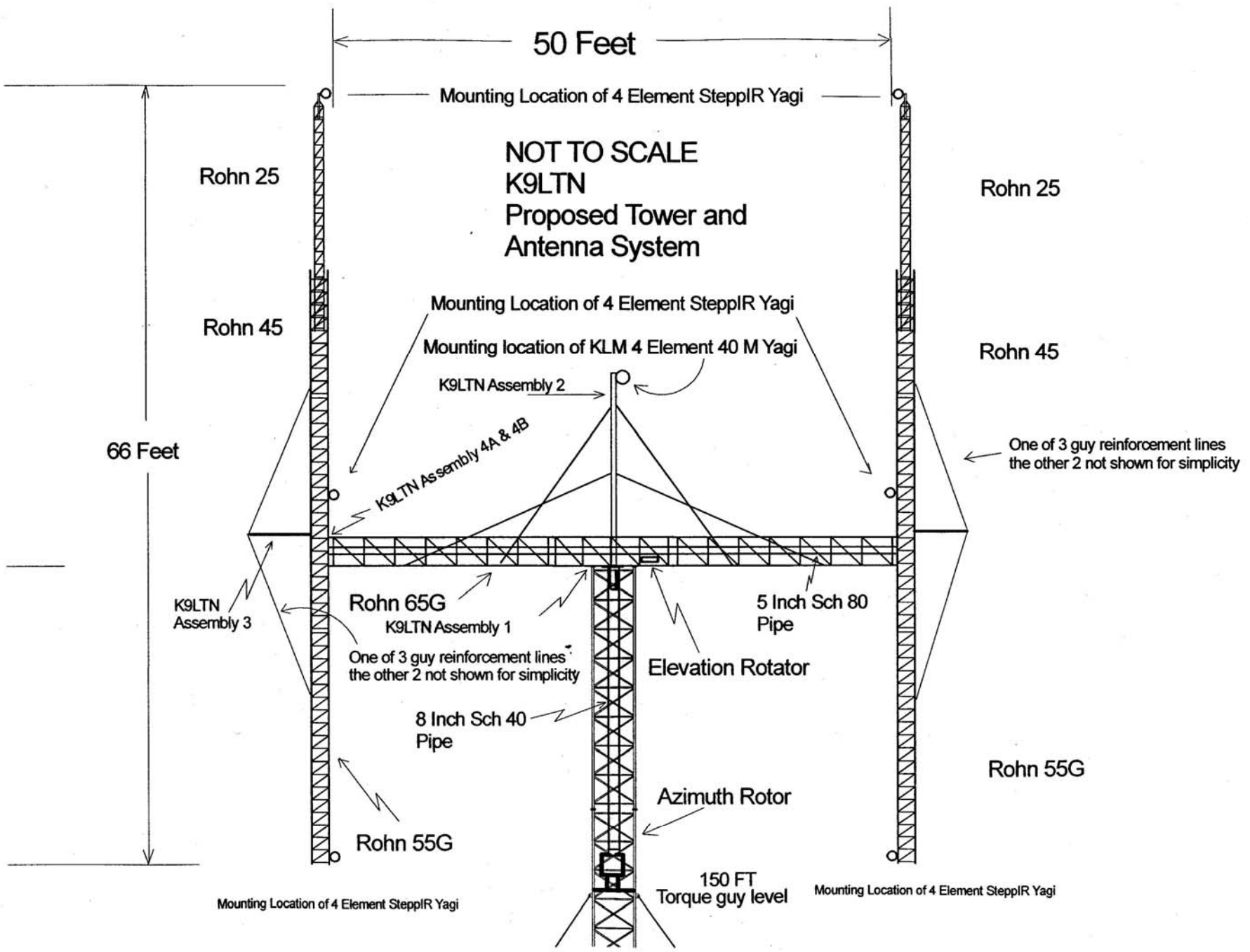
Rohn 55G

Rohn 55G

150 FT
Torque guy level

Mounting Location of 4 Element SteppIR Yagi

Mounting Location of 4 Element SteppIR Yagi





SKY TRAK

5028
HI-ORQ

RSC

332355











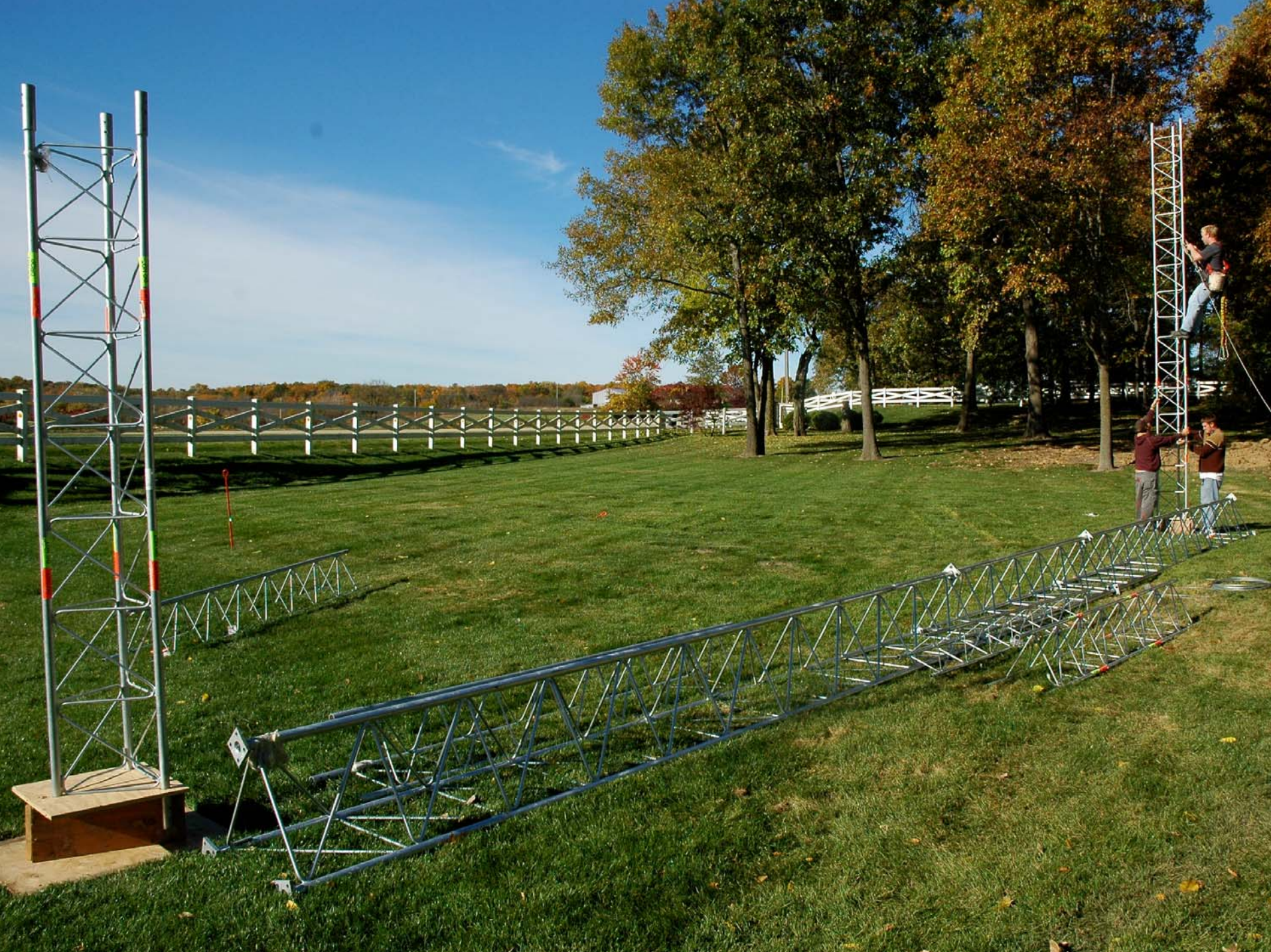
















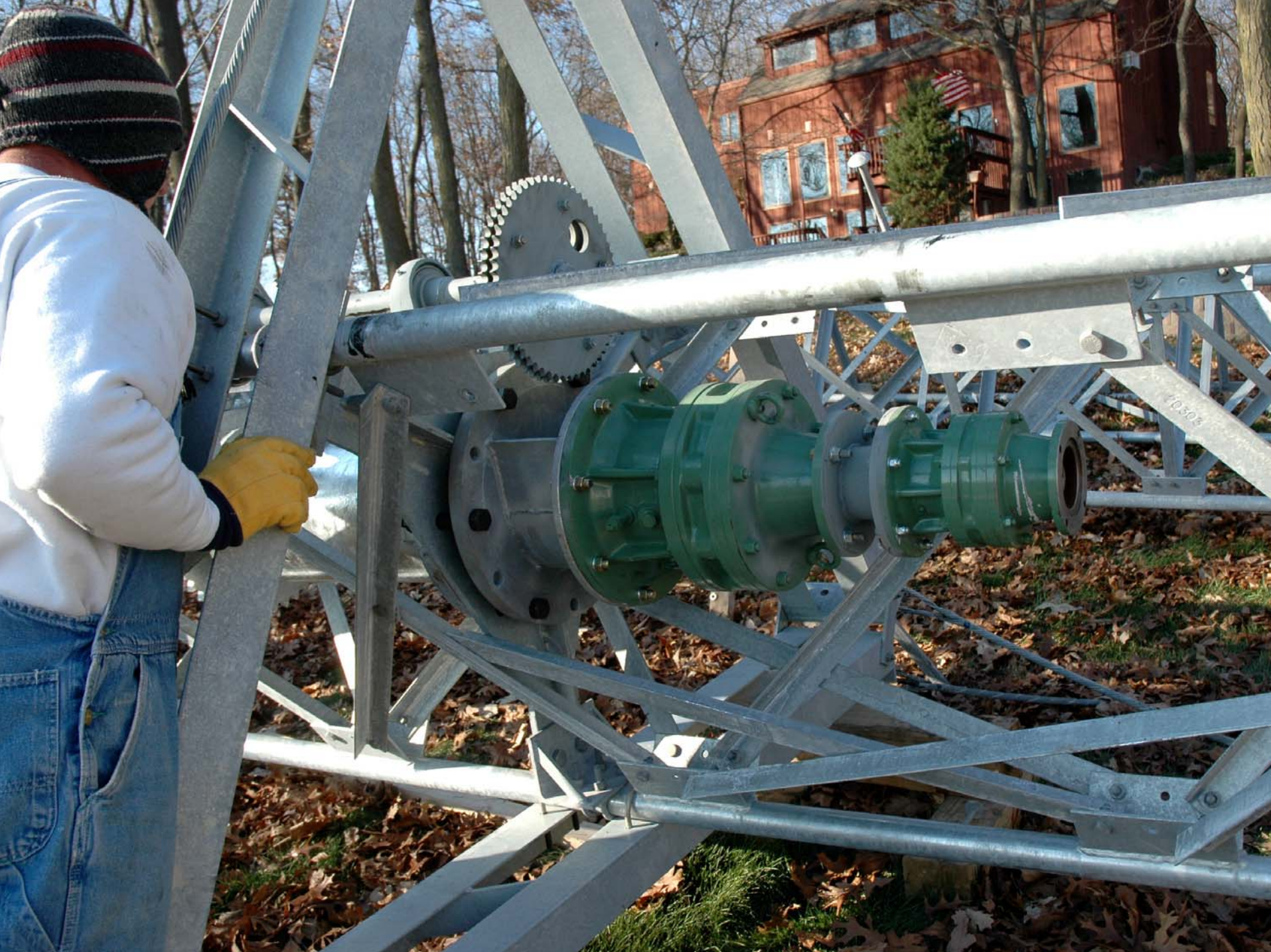














GROVE



COUNTER CRANE









NOVA
WOB
OLTA

I WROTE
KITT
TECH

THE

CRUISED THE

FLAME

NOVA
WOB
OLTA

















































DX
Model CC-3

FLUOROTRON Step 11
20m 17m 15m 12m 10m 6m

FLUOROTRON Step 11
20m 17m 15m 12m 10m 6m

FLUOROTRON Step 11
20m 17m 15m 12m 10m 6m

FLUOROTRON Step 11
20m 17m 15m 12m 10m 6m
MASTER

FLUOROTRON Step 11
20m 17m 15m 12m 10m 6m

FLUOROTRON Step 11
20m 17m 15m 12m 10m 6m

DXE DUAL RECEIVER

YAESU FT-101D
TUNER

YAESU FT-1000D
TRANSCEIVER

YAESU FT-1000D
TRANSCEIVER
15.150.02-00.100. 14.179.5

ANTENNA SYSTEMS
MB-VA
CAPACITORS

EQplus by W2IHY
ISOLATED TRUCKS & COMP. PROGRAMMABLE EXPANDER

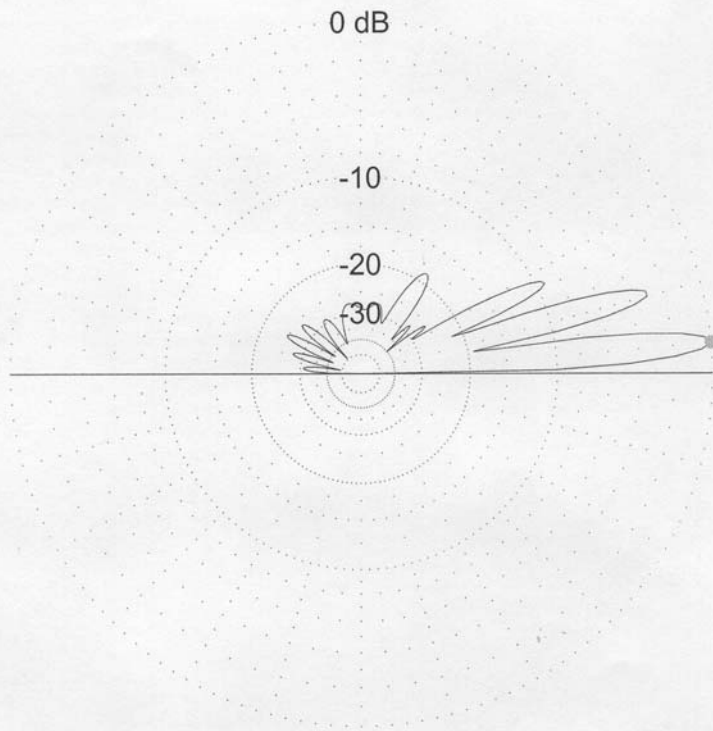
COMTEK
100W 100W 100W 100W 100W

COMTEK
100W 100W 100W 100W 100W

AMPLEAD
100W 100W 100W 100W 100W

METERED DEVICE

10 Fri 23 14 11

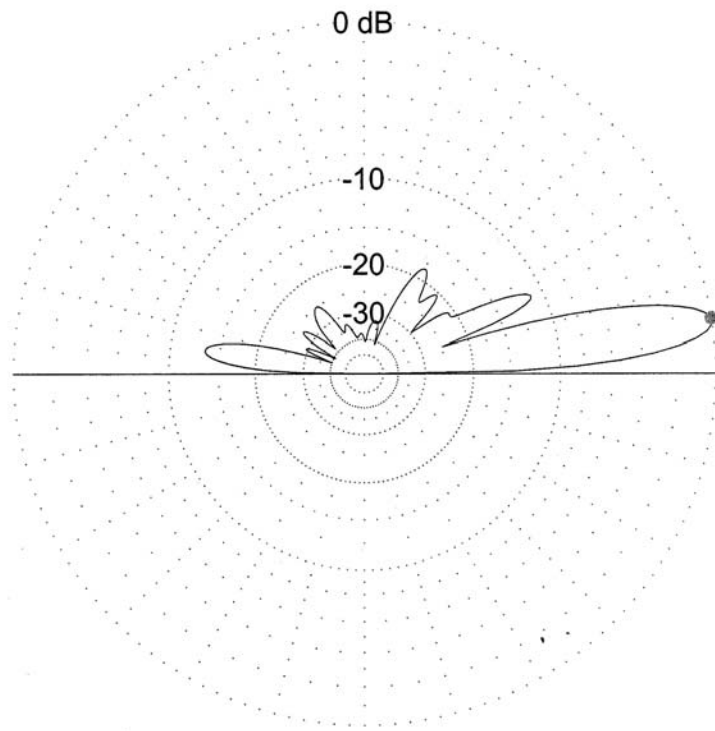


14.15 MHz

6-4 EI StepIR Yagis 20M 180ft

Elevation Plot		Cursor Elev	5.0 deg.
Azimuth Angle	0.0 deg.	Gain	20.87 dBi
Outer Ring	20.87 dBi		0.0 dBmax

Slice Max Gain	20.87 dBi @ Elev Angle = 5.0 deg.
Beamwidth	5.1 deg.; -3dB @ 2.6, 7.7 deg.
Sidelobe Gain	17.93 dBi @ Elev Angle = 15.0 deg.
Front/Sidelobe	2.94 dB

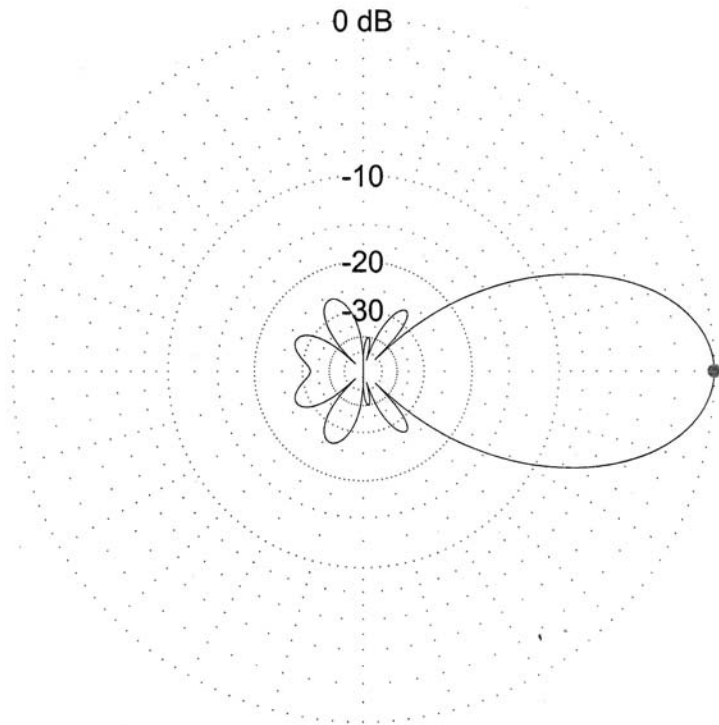


14.15 MHz

225ft 12 EI 20m Yagi up 180ft

Elevation Plot		Cursor Elev	9.0 deg.
Azimuth Angle	0.0 deg.	Gain	20.57 dBi
Outer Ring	20.57 dBi		0.0 dBmax

Slice Max Gain	20.57 dBi @ Elev Angle = 9.0 deg.
Beamwidth	9.0 deg.; -3dB @ 4.2, 13.2 deg.
Sidelobe Gain	9.44 dBi @ Elev Angle = 25.0 deg.
Front/Sidelobe	11.13 dB

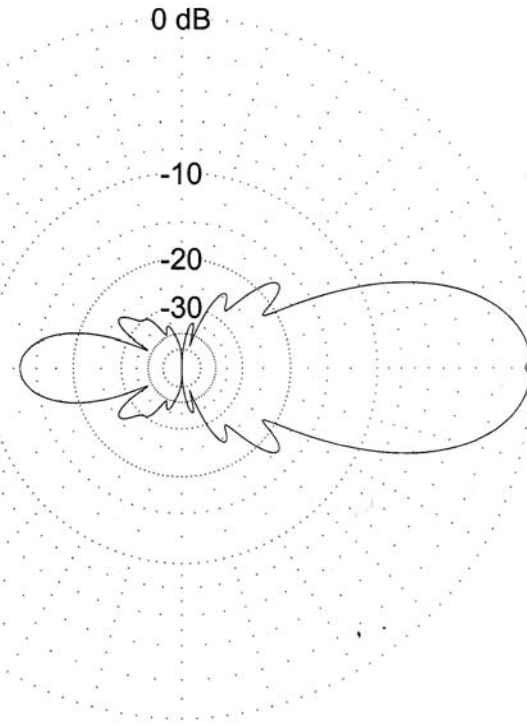


14.15 MHz

6-4 EI StepIR Yagis 20M FreeSp

Azimuth Plot		Cursor Az	0.0 deg.
Elevation Angle	0.0 deg.	Gain	15.34 dBi
Outer Ring	15.34 dBi		0.0 dBmax

Slice Max Gain	15.34 dBi @ Az Angle = 0.0 deg.
Front/Back	32.4 dB
Beamwidth	32.8 deg.; -3dB @ 343.6, 16.4 deg.
Sidelobe Gain	-10.37 dBi @ Az Angle = 245.0 deg.
Front/Sidelobe	25.71 dB

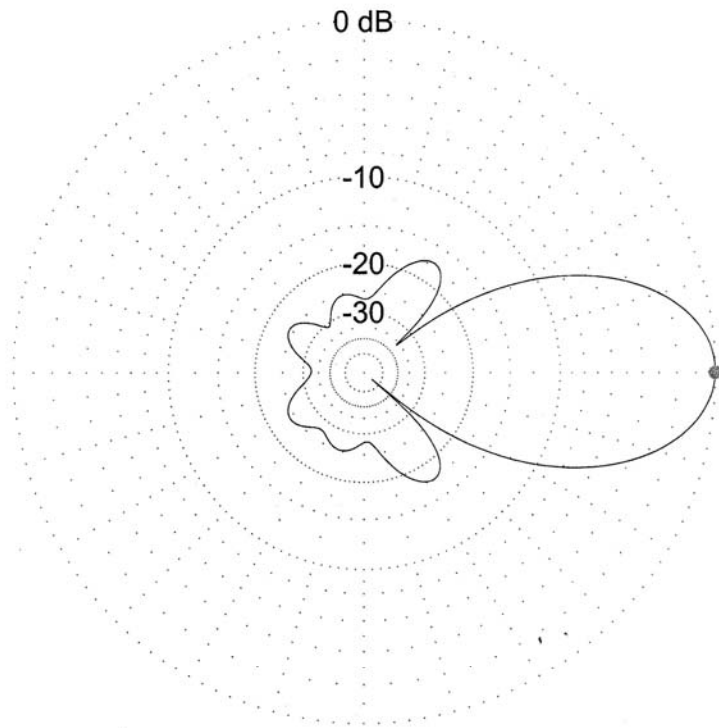


14.15 MHz

225ft 12 EI 20m Yagi FreeSpace

Azimuth Plot		Cursor Az	0.0 deg.
Elevation Angle	0.0 deg.	Gain	15.74 dBi
Outer Ring	15.74 dBi		0.0 dBmax

Slice Max Gain	15.74 dBi @ Az Angle = 0.0 deg.
Front/Back	13.17 dB
Beamwidth	30.2 deg.; -3dB @ 344.9, 15.1 deg.
Sidelobe Gain	2.57 dBi @ Az Angle = 180.0 deg.
Front/Sidelobe	13.17 dB

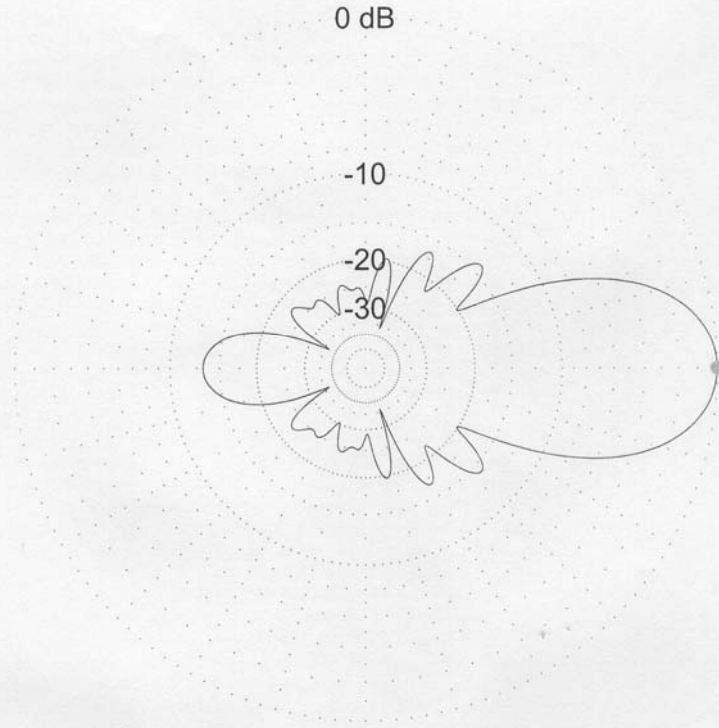


14.15 MHz

6-4 EI StepIR Yagis 20M FreeSp

Elevation Plot	Cursor Elev	0.0 deg.
Azimuth Angle	Gain	15.34 dBi
Outer Ring		0.0 dBmax

Slice Max Gain	15.34 dBi @ Elev Angle = 0.0 deg.
Front/Back	32.4 dB
Beamwidth	32.8 deg.; -3dB @ 343.9, 16.7 deg.
Sidelobe Gain	-1.71 dBi @ Elev Angle = 57.0 deg.
Front/Sidelobe	17.05 dB



14.15 MHz

225ft 12 EI 20m Yagi FreeSpace

Elevation Plot	Cursor Elev	0.0 deg.
Azimuth Angle	Gain	15.74 dBi
Outer Ring		0.0 dBmax

Slice Max Gain	15.74 dBi @ Elev Angle = 0.0 deg.
Front/Back	13.17 dB
Beamwidth	32.2 deg.; -3dB @ 343.9, 16.1 deg.
Sidelobe Gain	2.57 dBi @ Elev Angle = 180.0 deg.
Front/Sidelobe	13.17 dB

73,



NØAE

K9LTN