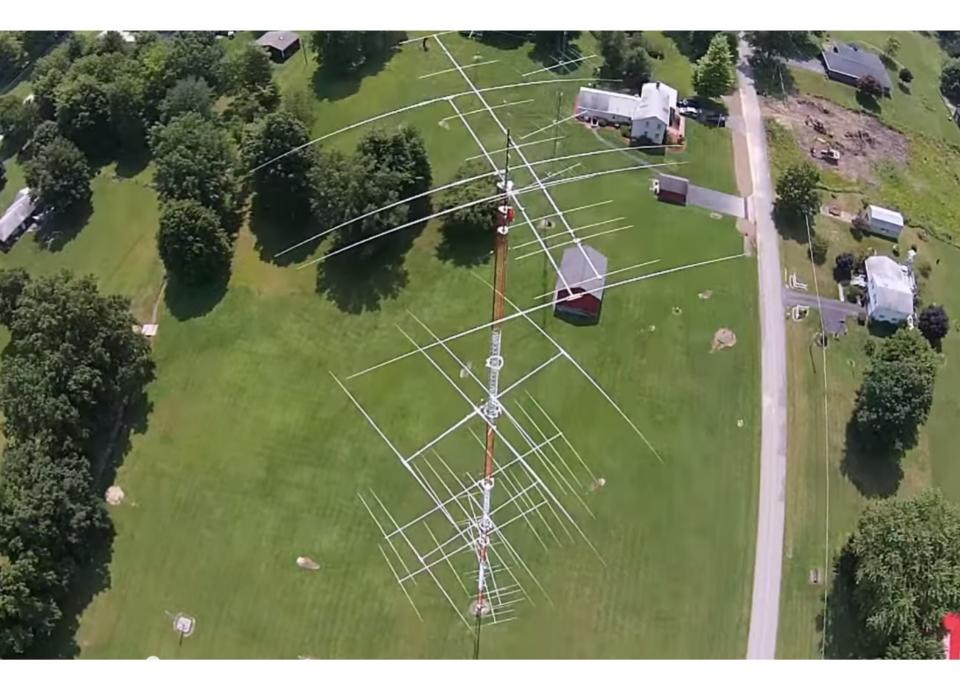
Towers and Antennas

Tim Jellison W3YQ/KL7WV



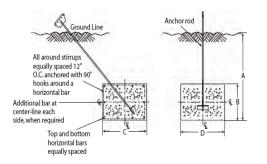
 Know what you're getting into when planning a tower

• Be safe when working on antennas and towers



- Do it right or don't do it
- Follow the manufacturers' design rules
- Get advice from others
- Be professional (not a cheap ham)

STANDARD ANCHOR BLOCKS

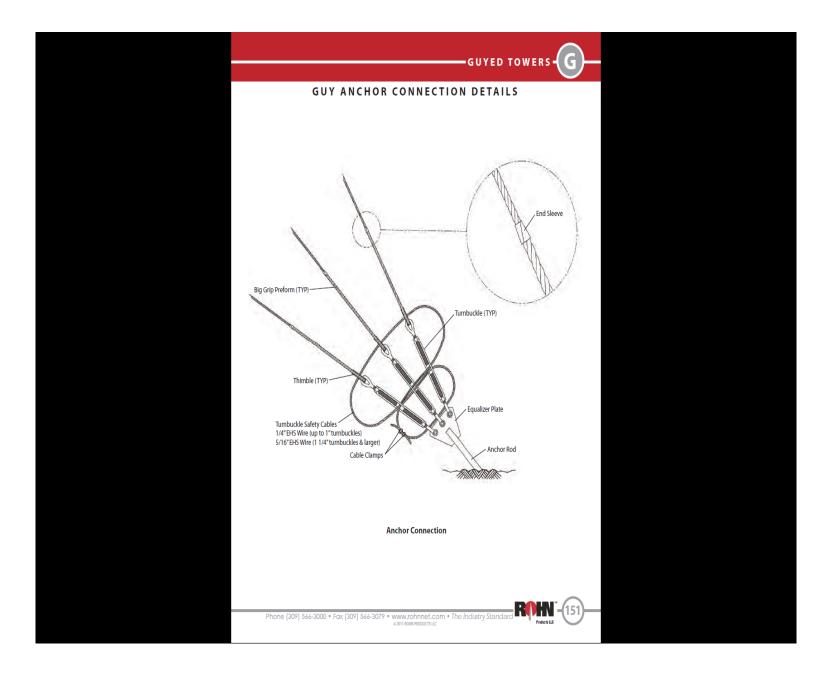


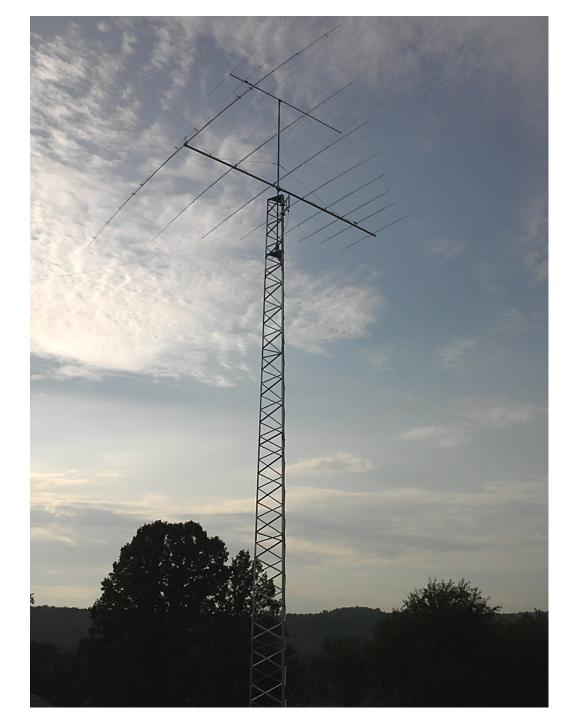
Refer to page 68 for anchor rod installation angles.

Block	Anchor Dimensions (in.)				Horizontal Bars	Stirrup Size	Concrete Vol.
	Α	В	с	D	(Qty. & Size)	& Spacing	(Cu. Yds.)
AB2	4'-0"	1'-6"	4'-0"	6′-0″	(5) #6 Bars, Top Layer (5) #6 Bars, Bottom Layer (0) Additional Bar, Each Side	#3 @ 12″O.C.	1.33 Per Block 4.0 Total for 3
AB3	6'-0"	1'-6"	3'-0"	6'-0"	(4) #6 Bars,Top Layer (4) #6 Bars, Bottom Layer (0) Additional Bar, Each Side	#3 @ 12″O.C.	1.0 Per Block 3.0 Total for 3
AB4	6' - 0″	1'-6"	4'-0"	9'-0"	(5) #6 Bars, Top Layer (5) #6 Bars, Bottom Layer (0) Additional Bar, Each Side	#4@12″O.C.	2.0 Per Block 6.0 Total for 3
AB5	8'-0"	2'-0"	3'-0"	10'- 0"	(4) #7 Bars, Top Layer (4) #7 Bars, Bottom Layer (1) Additional Bar, Each Side	#4@12″O.C.	2.22 Per Block 6.7 Total for 3
AB6	8'-0"	2'-0"	4'-0"	10'- 0"	(5) #7 Bars, Top Layer (5) #7 Bars, Bottom Layer (1) Additional Bar, Each Side	#4@12″O.C.	2.96 Per Block 8.9 Total for 3



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Item	Amount
Tower - AN HD60	\$4 <i>,</i> 450
Tower - Rohn TB3 Thrust Bearing	\$160
Tower - Mast	\$832
Tower - Shipping	\$250
Tower - Concrete Work	\$4,500
Tower - Crane	\$420
Tower - Labor	\$3,830
Rotator - M2 Orion 2800	\$1,803
6M Yagi - M2 6M5XHP	\$350
HF Antenna - M2 7-1030LP8	\$2,200
Coax - BuryFlex Wireman #103A	\$632
Rotor Cable - Wireman #306	\$376
Entrance Panels, Strap, Clamps,	
Arrestors	\$850
Machinging of rotor plates	\$50
Installation of Entrance	
Panels/Grounding	\$900
* Total *	\$21,603

NO SK's



<u>Some</u> of the risks

- Falling
- Electrocution
- Medical issues while climbing
- Structural failure (including crank-up and tiltover towers)

- Use the proper equipment
- Watch for power lines!
- What about the ground crew?
- Take a safety training course

COMTRAIN Tower Climbing Safety & Rescue Training TIMOTHY J. JELLISON Has Successfully Completed ComTrain's Requirements for **Basic Certification as an** AUTHORIZED CLIMBER/RESCUER at TACOMA, WA 4/11/2012 WZWindham **ComTrain Authorized Representative** www.comtrainusa.com 512-275-6600 opyright © 2012 Contrain Texas LLC

Finally a nice day!

