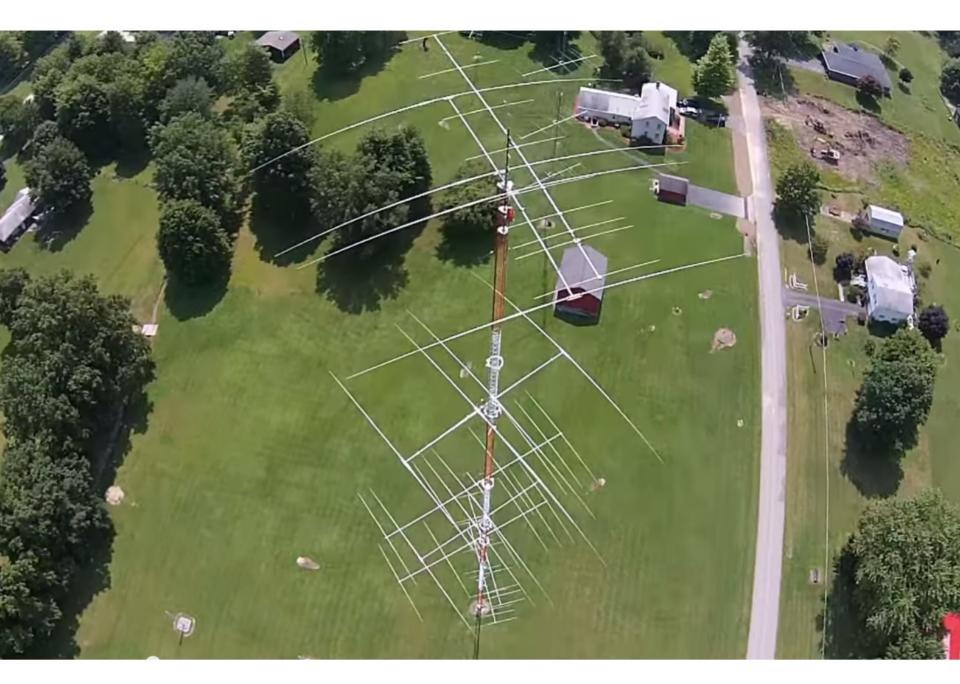
Towers and Antennas

Tim Jellison W3YQ/KL7WV



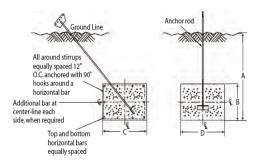
 Know what you're getting into when planning a tower

• 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

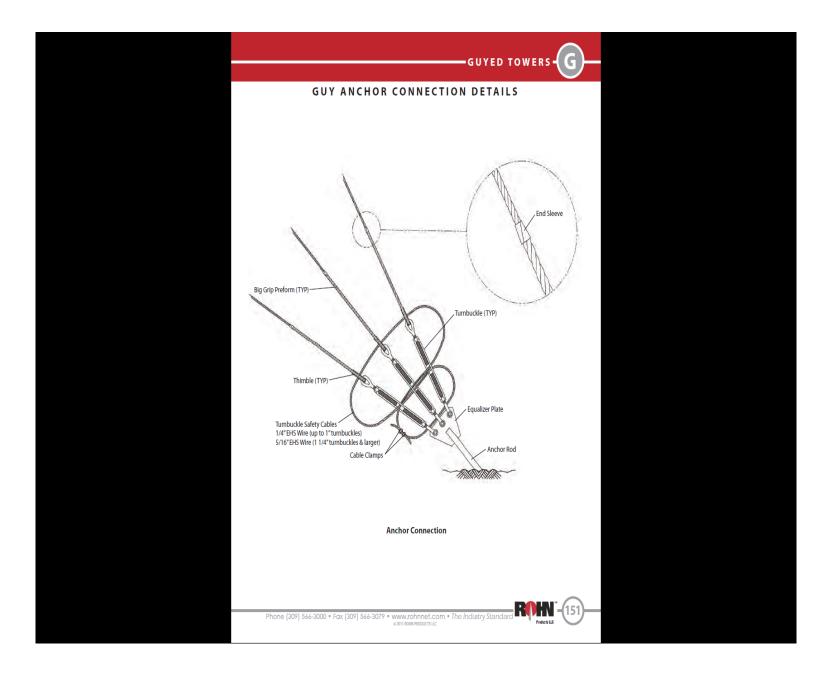


Refer to page 68 for anchor rod installation angles.

| 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!

