

888 322-5606 (toll free)

# Assembly Instructions

## WEST COAST FRAME TENTS

TWIN TUBE

30'x30'

30'x45'

30'x60'

30'x75'

TWIN TUBE

40'x40'

40'x60'

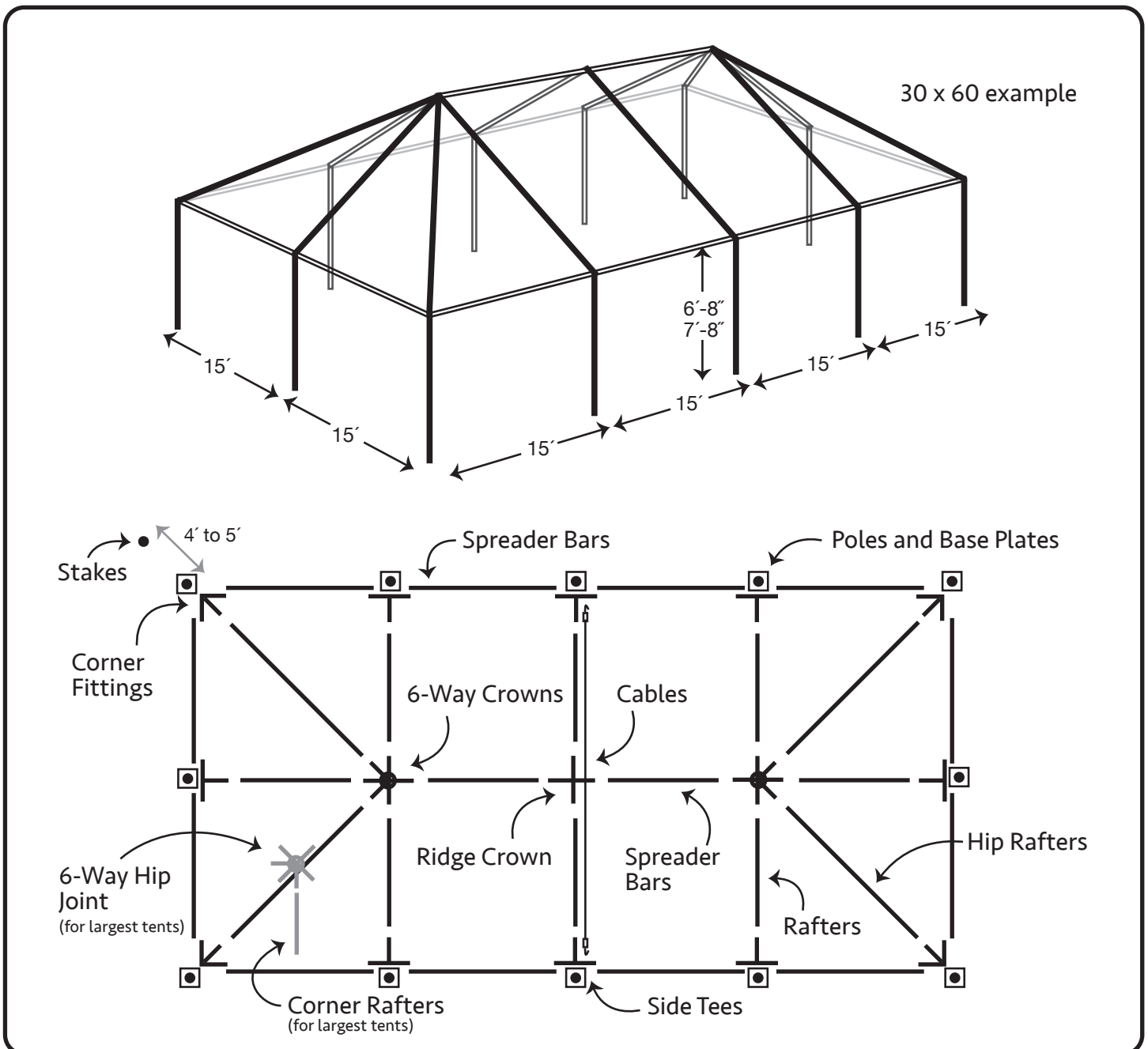
40'x80'

40'x100'

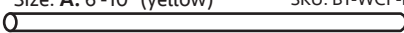


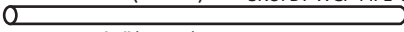


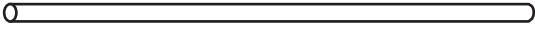
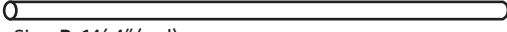
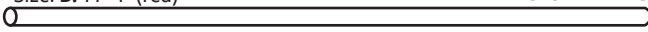
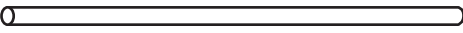


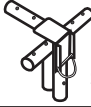

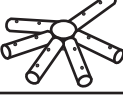







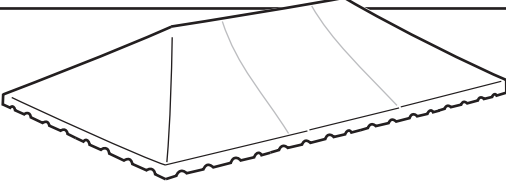
## WEST COAST TENT OVERVIEW

West Coast designed tents involved less frame work, with no center poles. This tent features stronger tubes, fewer parts which makes for faster set-up. It's worth pointing out fewer parts means; less load, less to assemble, faster set-up and faster strike time. For investment purposes, the frames are expandable. With the purchase of extra parts you can easily make a second, larger tent.

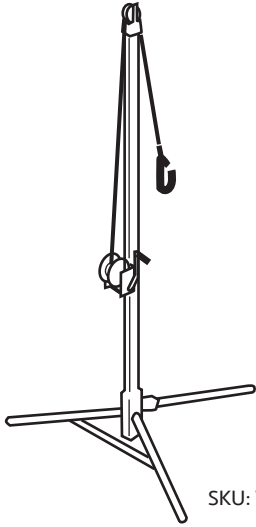
Take a look here at the basic design.



## STEP 1. ITEM LIST Cont. (30ft. and 40ft. wide tents)

Item	Illustration (all parts available for replacement)	Size	Qty.	Size	Qty.
<b>Hip Rafters</b> (yellow/red)	Size: A: 6'-10" (yellow) SKU: BT-WCF-PIPE-82 	30x30 30x45	4-C 4-C	30x60 40x40 40x60 40x80 40x100	4 - C 16 - B 16 - B 16 - B 16 - B
	Size: B: 14'-4" (red) SKU: BT-TT-WCF-PIPE-RED 				
	Size: C: 21'-10" (red) SKU: BT-WCF-PIPE-21 				
<b>Rafters</b> (green/red)	Size: A: 6'-8" (brown) SKU: BT-WCF-PIPE-68 	30x30 30x45	4-B 6-B	30x60 40x40 40x60 40x80 40x100	8 - B 4 - C 8 - C 12 - C 16 - C
	Size: B: 16'-1" (green) SKU: BT-WCF-PIPE-16 				
	Size: C: 21'-10" (red) SKU: BT-WCF-PIPE-21 				
<b>Corner Rafters</b> (green)	Size: 10'-4" (green) SKU: BT-TT-WCF-PIPE-GREEN 	30x30 30x45 30x60	- - -	40x40 40x60 40x80 40x100	8 8 8 8
<b>Spreaders</b> (white/red)	Size: A: 9'-4" (white) SKU: BT-TT-WCF-PIPE-WHITE 	30x30 30x45 30x60	8-B 11-B 14-B	40x40 40x60 40x80 40x100	16 - A 22 - A 28 - A 32 - A
	Size: B: 14'-4" (red) SKU: BT-TT-WCF-PIPE-RED 				
<b>Leg Poles / Base Plates</b> (black)	Sizes: 6'-8" (brown) and 7'-8" (black)  SKU: BT-WCF-PIPE-68      SKU: BT-TT-WCF-LEG-8	30x30 30x45 30x60	8 10 12	40x40 40x60 40x80 40x100	16 20 24 28
	 SKU: BT-TT-WCF-PLATE				
<b>Corner Fittings</b>	 SKU: BT-WCF-CRNER-DTUBE	30x30 30x45 30x60	4 4 4	40x40 40x60 40x80 40x100	4 4 4 4
<b>Side Tee Fittings</b>	 SKU: BT-TT-WCF-SIDET	30x30 30x45 30x60	4 6 8	40x40 40x60 40x80 40x100	8 10 14 22
<b>6-Way Side Tees</b>	 SKU: BT-WCF-6WYSIDE-DT	30x30 30x45 30x60	- - -	40x40 40x60 40x80 40x100	4 6 6 6
<b>6-Way Crowns</b>	 SKU: BT-WCF-CROWN6	30x30 30x45 30x60	- 2 2	40x40 40x60 40x80 40x100	4 2 2 2
<b>(Crowns)</b>	 <b>RIDGE CROWNS</b> 30x60 (1), 40x60 (1), 40x80 (3), 40x100 (5) SKU: BT-WCF-CROWNR				
	 <b>8-WAY CROWNS</b> 30x30 (1), 40x40 (1) SKU: BT-WCF-CROWN8				
	 <b>6-WAY HIP JOINT</b> 40x40 (4), 40x60 (4) 40x80 (4), 40x100 (4) SKU: BT-WCF-HIP6				
<b>Cross Cables</b>		30x30 30x45 30x60	- - 3	40x40 40x60 40x80 40x100	1 3 5 7
<b>Loop Ratchet Strap Assembly, w/ ring</b>	 SKU: BT-12STRAP-2	30x30 30x45 30x60	8 10 12	40x40 40x60 40x80 40x100	16 20 24 28
<b>'R' Pins</b>	 SKU: BT-WCF-RPIN-50	30x30 30x45 30x60	48 62 76	40x40 40x60 40x80 40x100	120 148 156 204
<b>Single Head Stakes</b> (1" x 40")	 SKU: BT-SH-40-1STK-4	30x30 30x45 30x60	8 10 12	40x40 40x60 40x80 40x100	16 20 24 28
<b>Canopy Top</b> (sectional)		All sizes-			1
		(see appendix for more info)			

## STEP 1. CONTINUED



SKU: WCF-JACK-12

This item is very important in the process, Frame Tent Jack (sold separately). Most West Coast Frame tents require *frame tent jacks*—and larger tents require multiple jacks.

General rules are; work on the long side, one side at a time, and never place jack in the middle of a spreader bar.

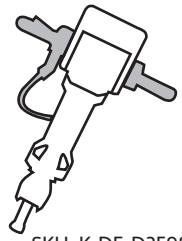
(set-up and use can be found on internet)

Tent Size	Estimated Quantity
30 x 30	2
30 x 45	3
30 x 60	4
40 x 40	3
40 x 60	4
40 x 80	5
40 x 100	6

### Recommended Tools

6ft. step ladders  
Sledge Hammer  
Tape Measure

Stake Driver  
(for larger tents)



SKU: K-DE-D25980K

## WARNING

Tent products are manufactured for use as temporary structure and do not meet structural code, unless specified. Since weather is unpredictable, the customer must incorporate their own good judgment, common sense & knowledge of local conditions with the installation instruction guidelines.

The customer is responsible to anticipate weather severity for proper time and method of construction.

## 'BEFORE YOU DIG' (hammer stakes)

By Law you are required to contact your local "Call before you dig" number before you plan to dig. After calling, your local utility company will mark the location of underground utility lines. Laws from state to state vary on how far in advance you must call.

Planning ahead and checking with your state's program is always a smart idea. Failure to obtain a line location before digging can result in a substantial fine. Please find your local "call before your dig number" by going to [call811.com](http://call811.com).

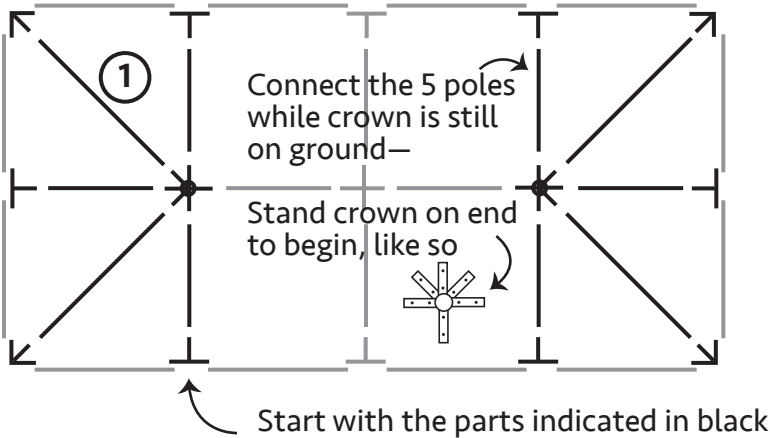
## STEP 2. SAFETY CHECK LIST



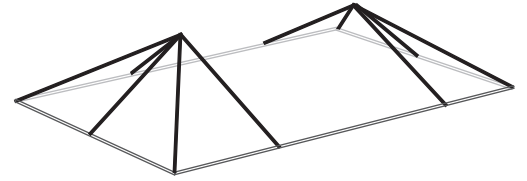
- When building or assembling anything above shoulder height, wear a hard hat
- Steel toe boots are recommended
- Inspect the site, look for overhead and underground obstructions— such as utilities
- Call your local utility to have utility lines marked (call 3–5 days ahead)— [call811.com](http://call811.com) is a good resource— 'click' 811 in Your State
- Inspect all ropes and tie lines
- Inspect poles, making sure there are no bends or breaks
- Replace or repair any items in poor condition

## STEP 3. LAYOUT FRAME

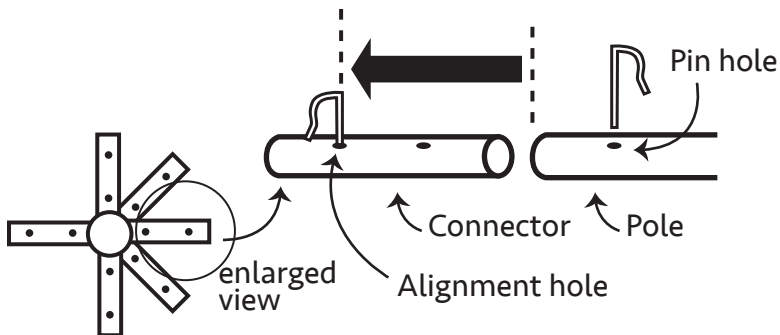
Position parts in the exact location of finished tent



- Place all metal poles and fittings on the ground in the location you have selected for the finished tent
- This layout illustrates a 30 x 60 tent — see (appendix A/B/C/D) for your specific size, layout and pole sizes
- 1) Start with the crown and its connecting poles—the drawing shows the correct position of the crown—secure these parts using (2) 'R' pins per pole
- See (figure A.) for 'R' pin usage
- Stand these two *end* assemblies up, to connect the ridge parts next



## FIGURE A. 'R' PIN AND ALIGNMENT HOLE

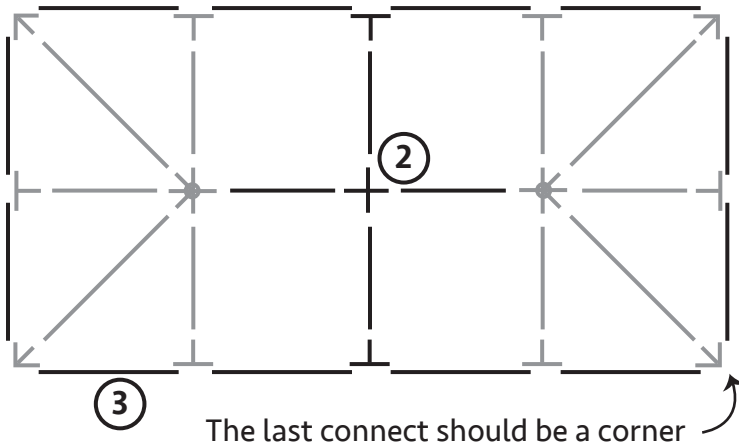


- All connection will be made using this method—2 pins needed
- Insert a pin, halfway, into the alignment hole—this will act as *stop*, for spreader and rafter bars
- Slide pole (spreader, rafter etc.), onto the appropriate connector—touch the *alignment* pin, as a guide
- The pin holes are now lined up—insert the second 'R' pin, all the way, until it locks in place

Reminder:

Frame plans and connector positions, for your tent, appear in the appendix

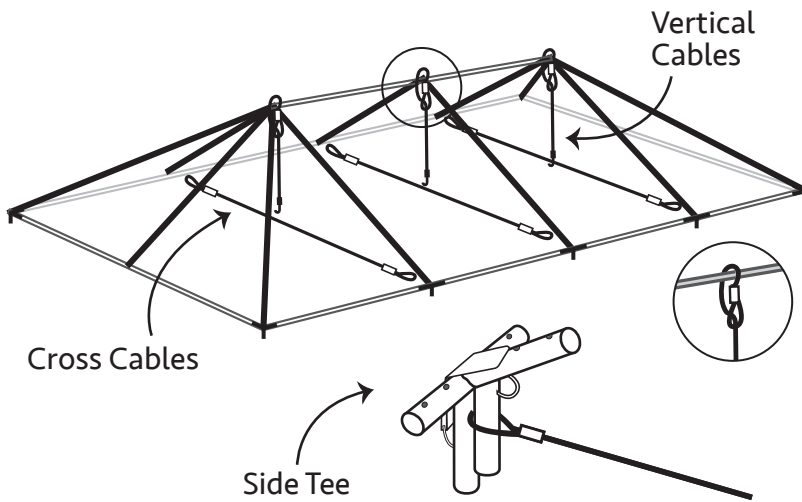
## STEP 4. RIDGE AND PERIMETER



- 2) Connect the ridge line next, crowns and spreaders
- While standing on a ladder(s) make all connections from end to end
- If you are short of people, use a tent jack to hold horizontal poles
- 3) Lastly, connect all perimeter bars to the upper spreaders and rafter bars
- When working around the perimeter, the last connection should be at a corner, *not* a side tee
- The frame should now be complete

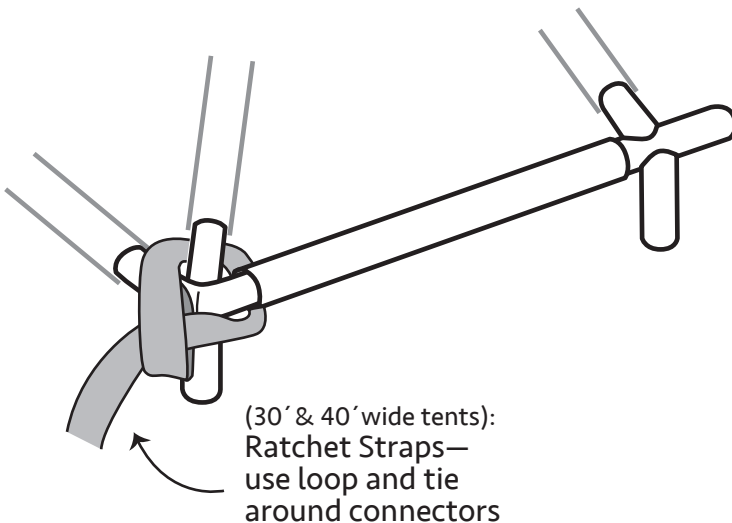


## STEP 5. CROSS CABLES



- While the frame is still on the ground slide the cross cables on the side tees (only for tents 30x60 and larger)—the leg poles will help to keep cables in place
- Each tent has a specific number of cables see (appendix) for your layout
- The vertical cables are part of the cable assembly—attach them from crown to cross cable
- Side tees, for larger tents, have metal loops built on them—to accommodate different style cables
- Attach cable to hooks, directly opposite each other

## STEP 6. RATCHET STRAPS OR ROPES

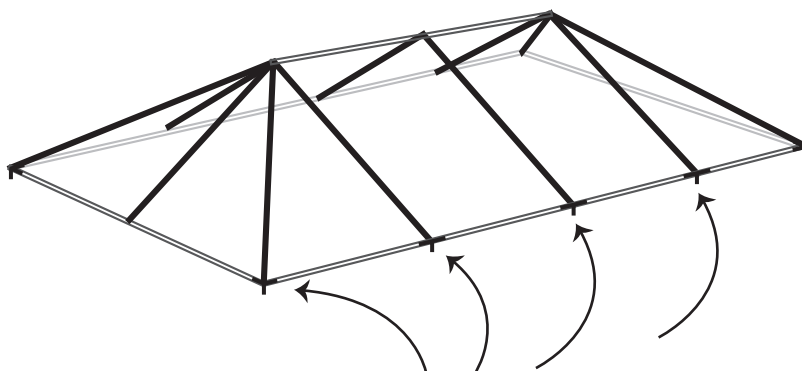


- While frame is still on the ground, tie ratchet straps/ropes to frame
- The straps/ropes will be secured to the tent stakes at the end of the assembly
- One strap/rope per leg pole
- The straps/ropes go under and over, to prevent the them from sliding—see (drawing)

Note: this step can occur after the leg poles have been installed and the frame is elevated

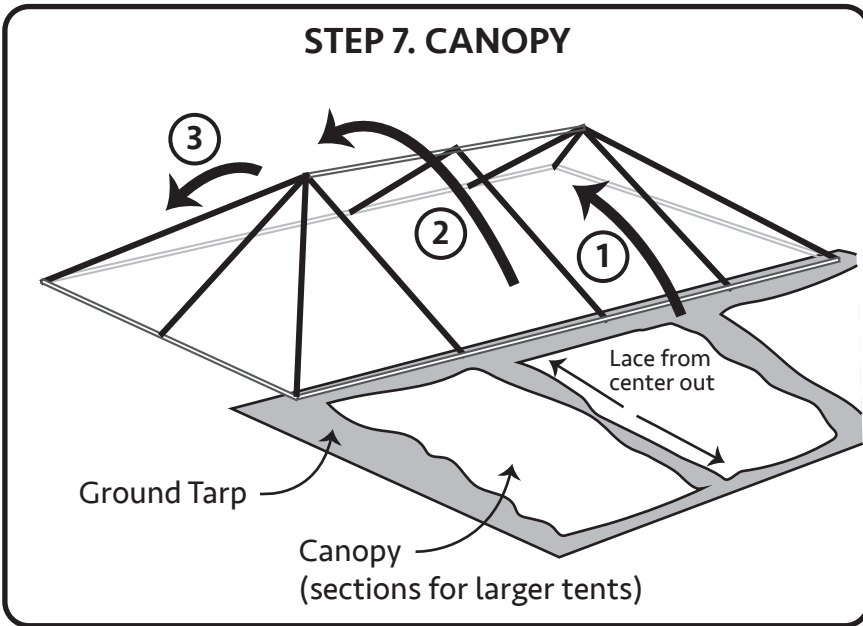
Note: some twin tube fittings have metal rings, to connect ratchet straps

## FIGURE B. COMPLETED FRAME

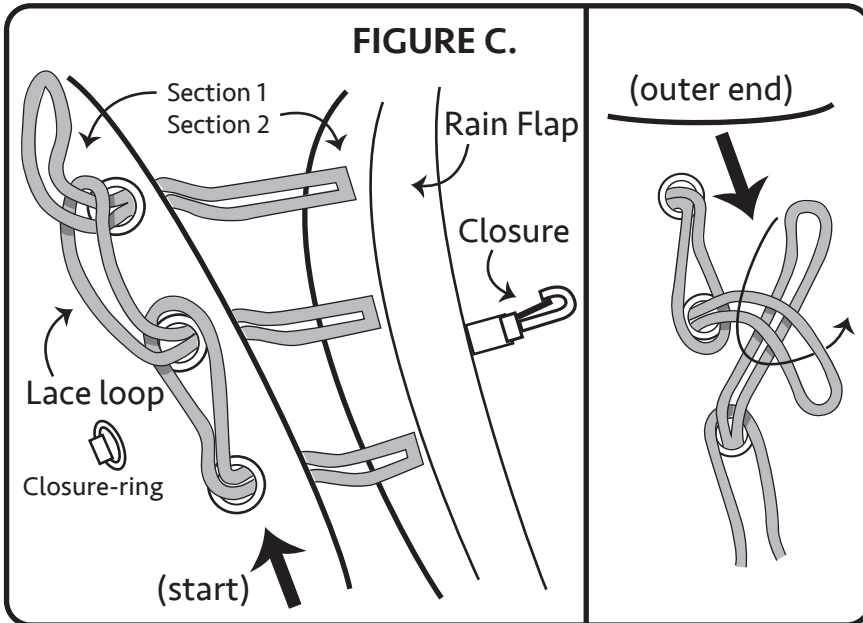


If repositioning is necessary, try to have one person lift at each fitting, all the way around

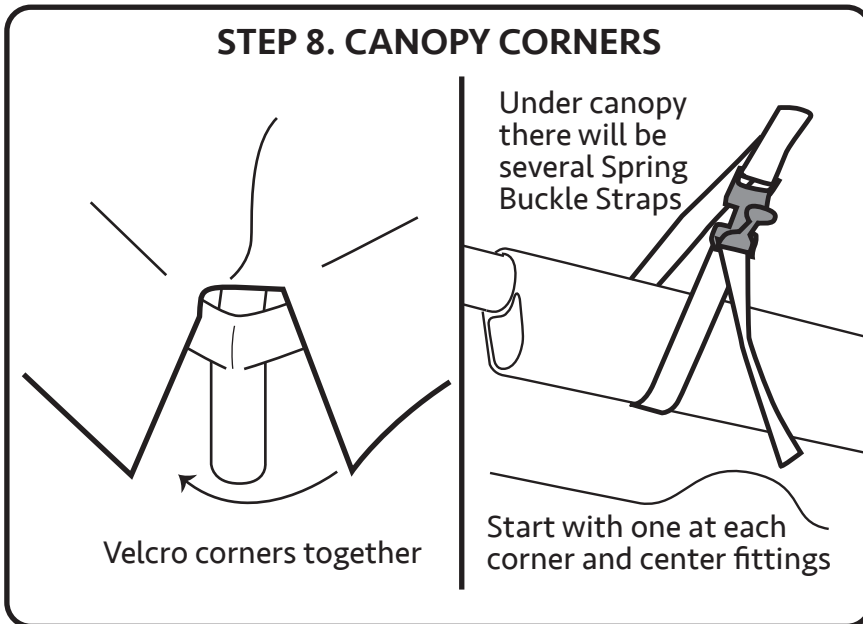
- Now that the frame portion is complete and while the frame is still on the ground, double check the 'R'-pins
- Also, with plenty of hands on deck, lift and adjust frame position if needed, at this point— see (figure B)
- Always lift at a side or corner fittings



- Once again, while frame is still on the ground, lay down a tarp(s), to protect canopy—arrange canopy along one of the long sides of the tent
- Most large tents will need to have canopy sections laced together, first—see (figure C)
- Place a ladder(s) next to ridge spreaders —as many as it takes to easily to pull canopy over ridge
- One person needed for every 10ft of tent
- 1) In unison, pull canopy up one side—‘flapping’ in the beginning, to create lift —then stop
- 2) 2 to 4 people stay on the ground, others on the ladders—pull canopy over the ridge
- 3) Pull down the other side—‘flapping’ for all three steps

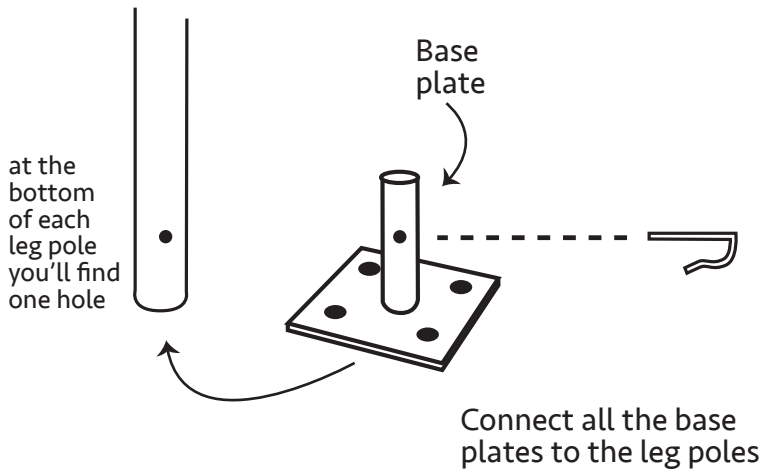


- Starting at **center** of canopy, push first loop through corresponding grommet
- Second loop passes through grommet and first loop—continue with this way
- DO NOT walk on canopy
- Continue lacing the loops—pull tight at every loop, as you go
- Snap the closures and close rain flap as you progress outward
- When you get toward the *outer end*, lace the last two or three loops backwards and tie off the connecting loops
- Last, attach sections using ring and clip



- After canopy is pulled over frame and corners are pulled into position, velcro corner seams together, loosely—tighten after legs are installed
- The canopy should be attached to the frame, after leg poles are installed—secure some of the spring buckle straps so, any high wind won't cause issues during the raising process
- Spring buckle straps are located on the underside of canopy
- Secure the remaining straps after one side have legs installed and secure—it's easier at this height—Final tightening happens after legs are installed (**step 10**)

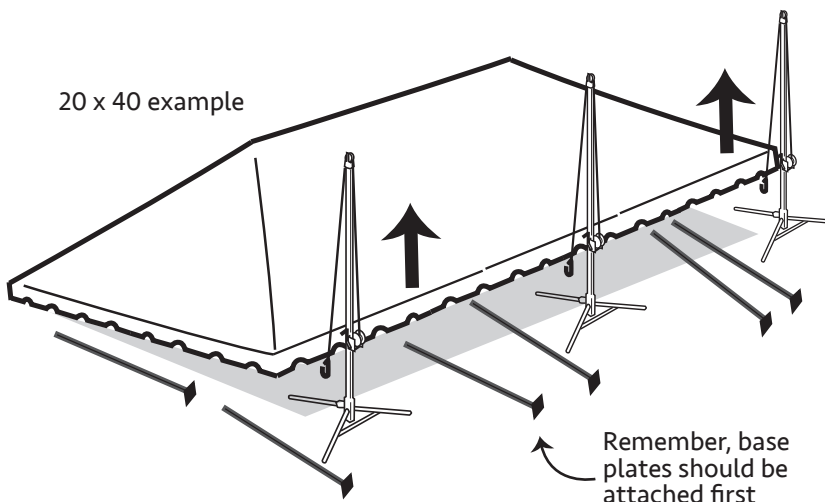
## STEP 9. BASE PLATES



- Before the tent is raised, prepare the leg poles
- Place poles on top of base plate and secure with 'R' pins
- Do this for all the leg poles

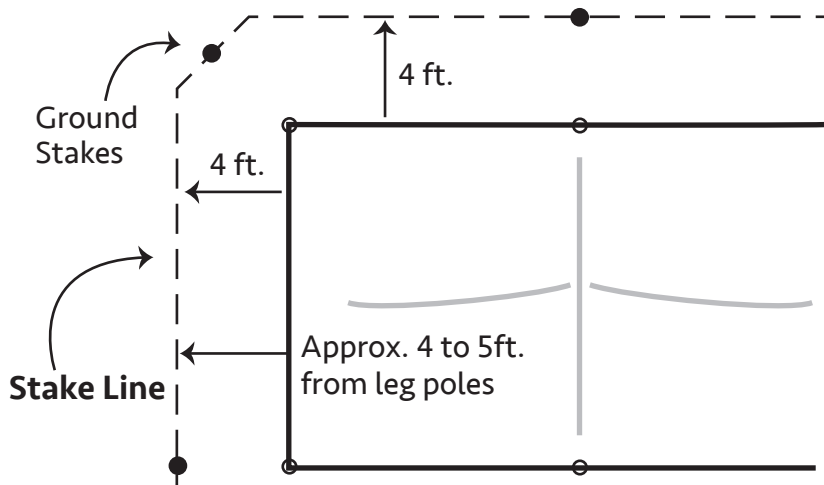
Note: some legs have adjustable heights, be aware— select the same pin hole when attaching base plates

## STEP 10. INSTALLING LEGS (15x30 and larger tents)



- For larger tents, (30x30 and larger) frame tent jacks should be used to raise the frame and install the leg poles
  - Locate one of the long sides of the frame—this will be raised first, while the opposite side remains on the ground
  - **Important:** Lift the entire side of the frame at once (not one corner)—crank jacks in unison
- General rules are; work on the long side, one side at a time, and never place jack in the middle of a spreader bar*
- Install all the legs on this side—secure with 'R' pins
  - Repeat for opposite side, then install legs for the remaining two sides
  - **Important:** tighten spring buckle straps—for security and to help pull canopy corners into place

## STEP 11. STAKE LINE

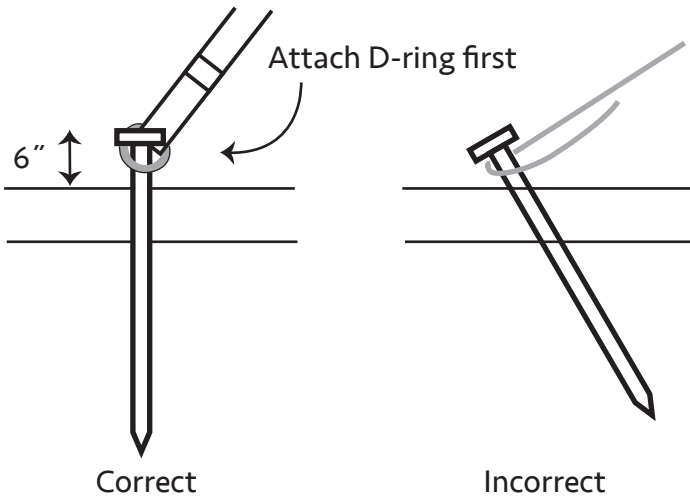


**Double check leg poles**—making sure each pole is straight and lined up correctly, while tent jacks are still handy

- Once the tent is vertical and all the leg poles are attached, begin the process of staking the tent—with plenty of hands on deck, lift and adjust tent position if needed, first
- Measure 4 ft. out from each leg pole and place a stake in the ground
- Slide stakes through ratchet straps, before stakes go in the ground—see (figure C)
- Stakes should then be hand hammered or for larger installs, use a stake driver



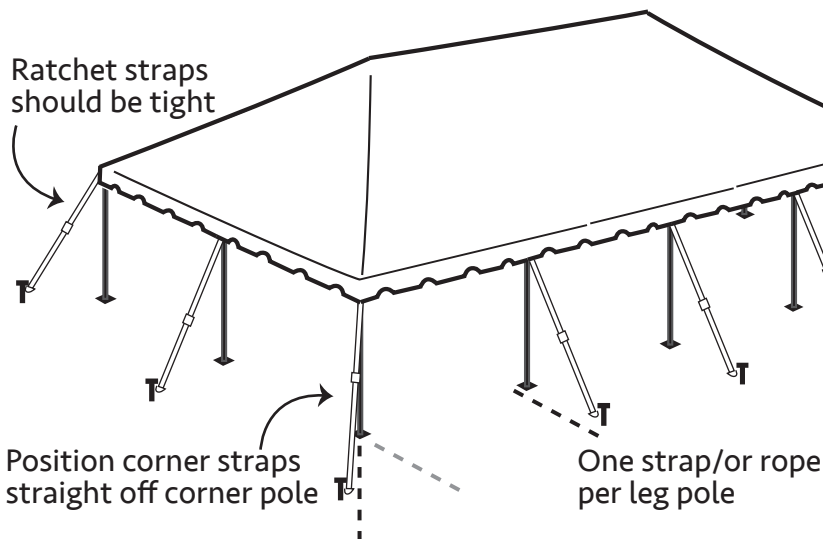
## FIGURE C. HAMMERING STAKES



- Ground stakes should be hammered in vertical, not angled (sledge hammer required)
- Check connection of 1" ratchet strap, from frame to ground stake, before stakes go in the ground—slide stake through 'D-ring'
- Complete the hammering process by driving the stakes in and leaving 6 inches showing

Note: Using the ratchet strap (buckle) can be found on (page 9)

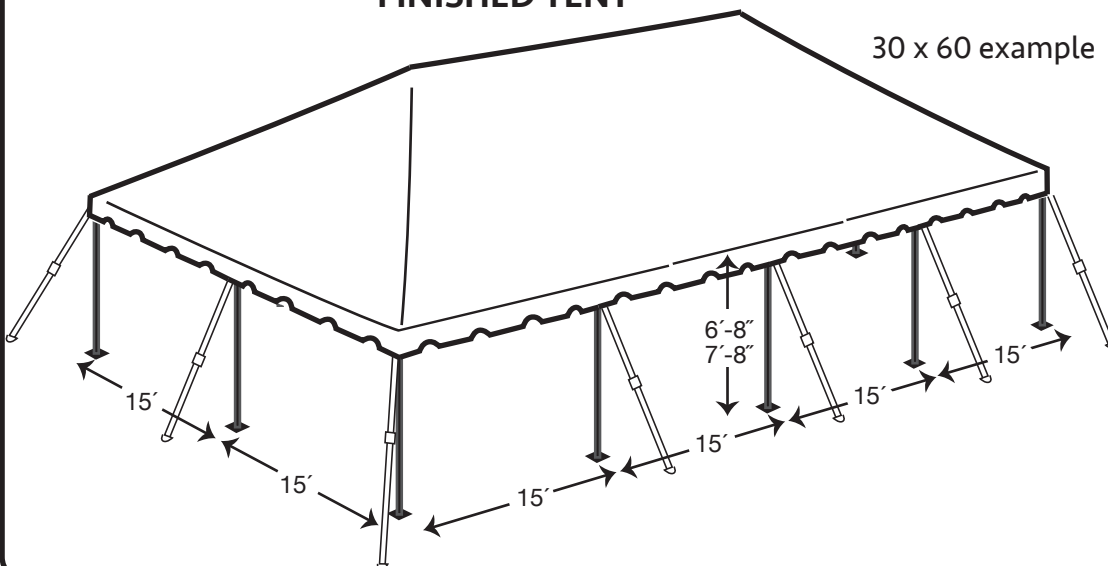
## STEP 12. SECURING RATCHET STRAPS



- As the assembly nears completion it is time to tighten all ratchet straps/ropes
- Push the release lever on the buckle and remove excess slack, then crank the handle to tighten strap assembly—keep an eye any lean that might be caused
- Go around the tent, make adjustments for any leg pole and tent lean
- Finally, double check and tighten spring buckle straps, under the canopy, that were not secured in step 10

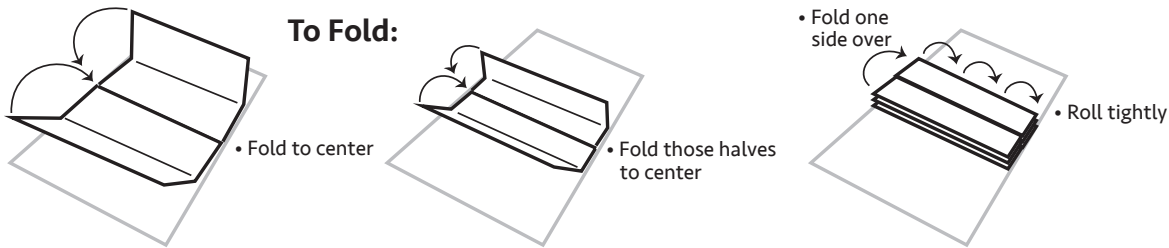
## FINISHED TENT

30 x 60 example



## STRIKE PROCEDURE (basically, reverse order from assembly)

- 1.) Undo ratchet strap assemblies/untie ropes
- 2.) Unfasten spring buckle straps, under canopy
- 3.) Remove leg poles, on one long side  
(use tent jacks for larger tents)
- 4.) Remove adjacent center, leg poles, on short sides
- 5.) Lower first long side to the ground
- 6.) Repeat, remove leg poles, on remaining long side
- 7.) Lower rest of frame to ground
- 8.) Lay tarp next to a long side of frame
- 9.) Loosen canopy corners
- 10.) Slowly slide canopy off frame—  
flapping, in unison, as you go
- 10.) Fold and bag canopy (dry canopy)
- 11.) Disassemble bars and connectors
- 12.) Remove ground stakes



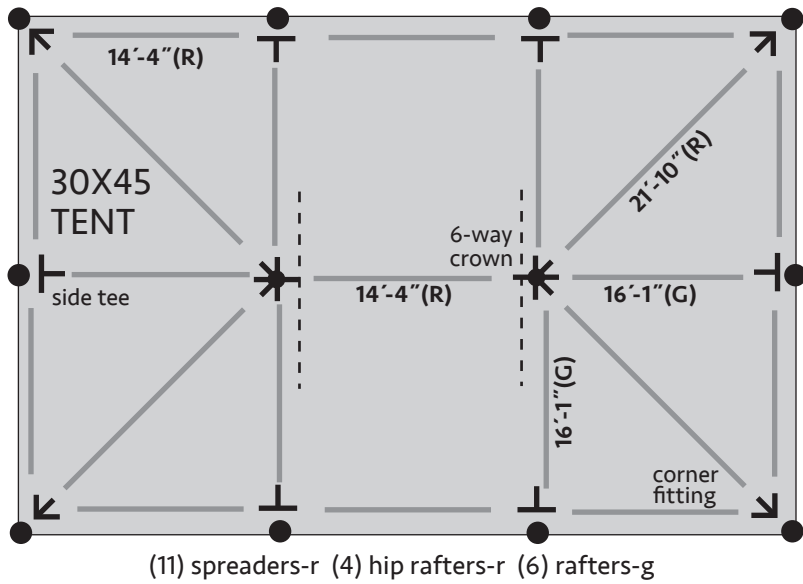
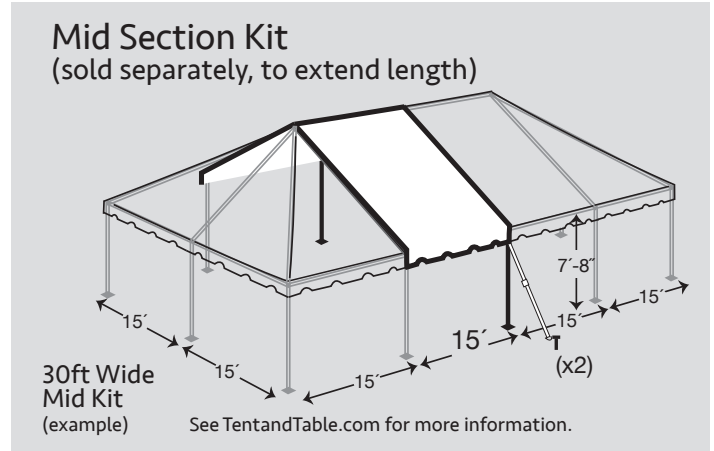
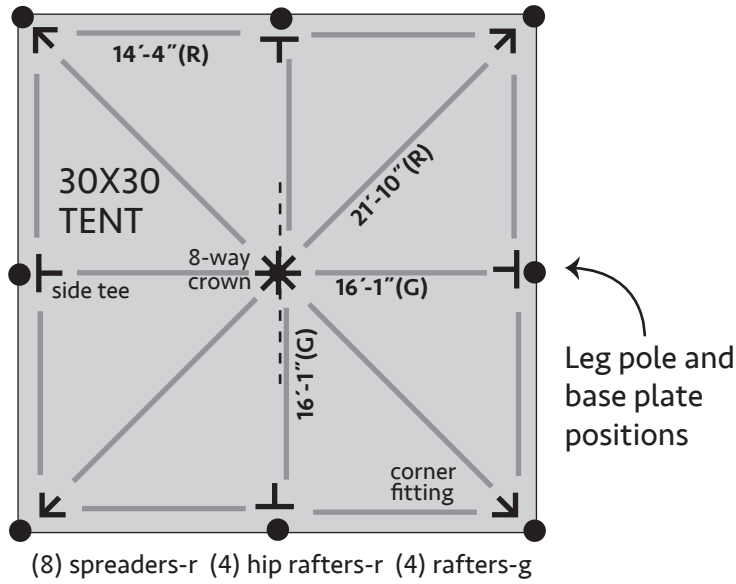
### USING RATCHET STRAPS

(Ratchet Buckle Components)

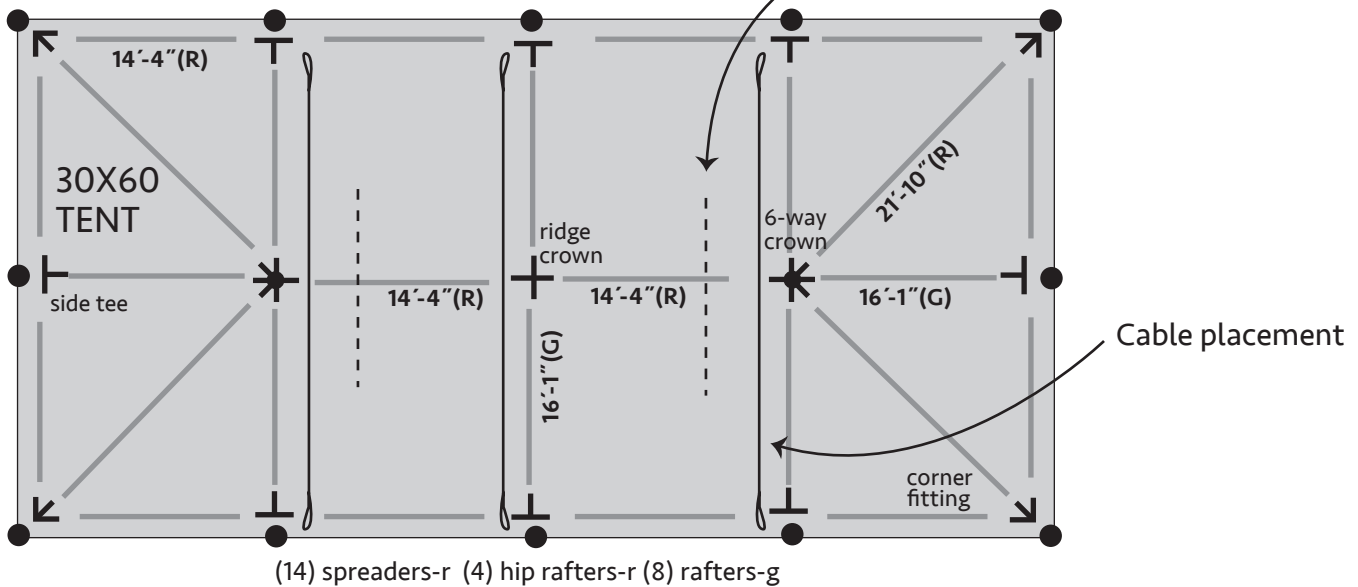
- Release handle, crank until slot is pointing up
- Close handle
- Pass strap underneath and through the slot (as shown)
- While holding the whole strap assembly attach both ends (eg. tent to stake)
- Remove slack, before tightening
- Push 'release'— lift handle and tighten ratchet
- Roll-up any excess strap, put under handle
- Close handle

# Appendix A.

- Plans— showing tent sizes, leg pole and connector quantity and locations

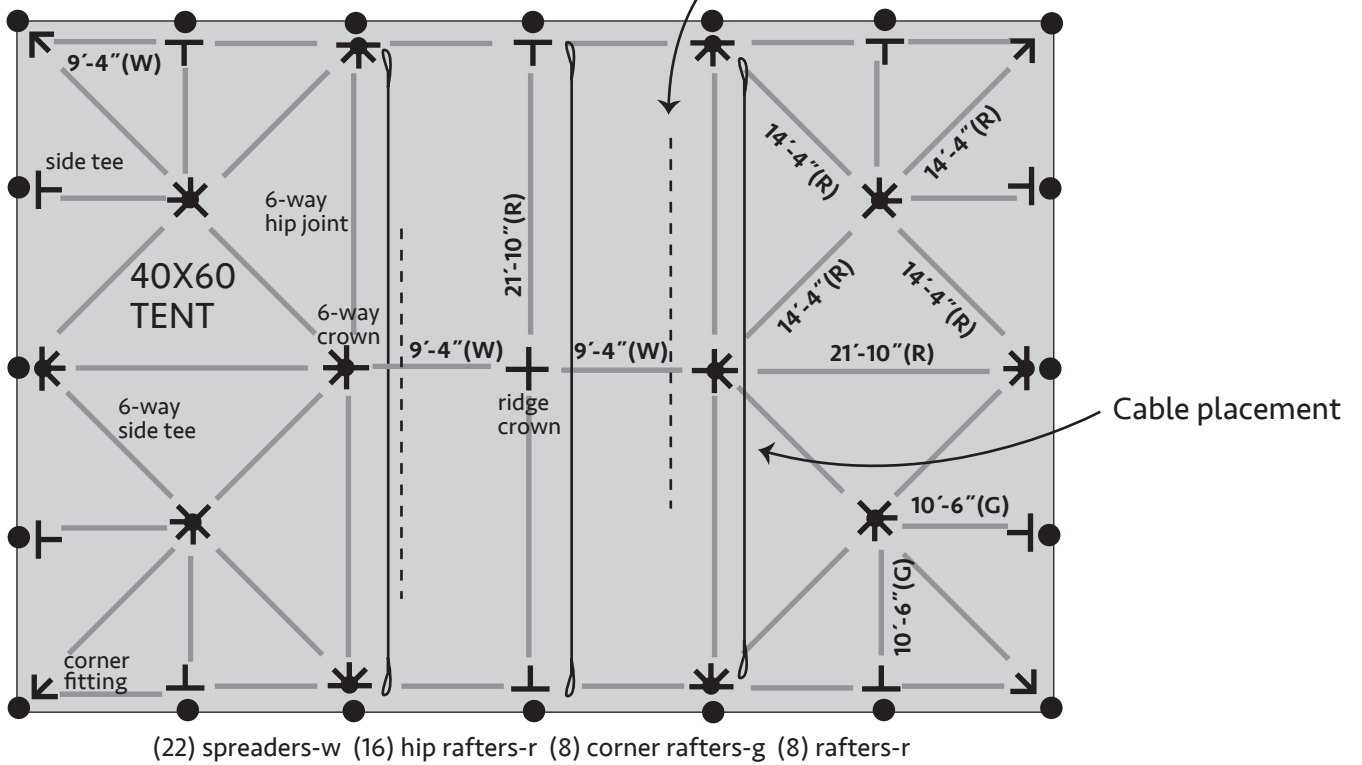
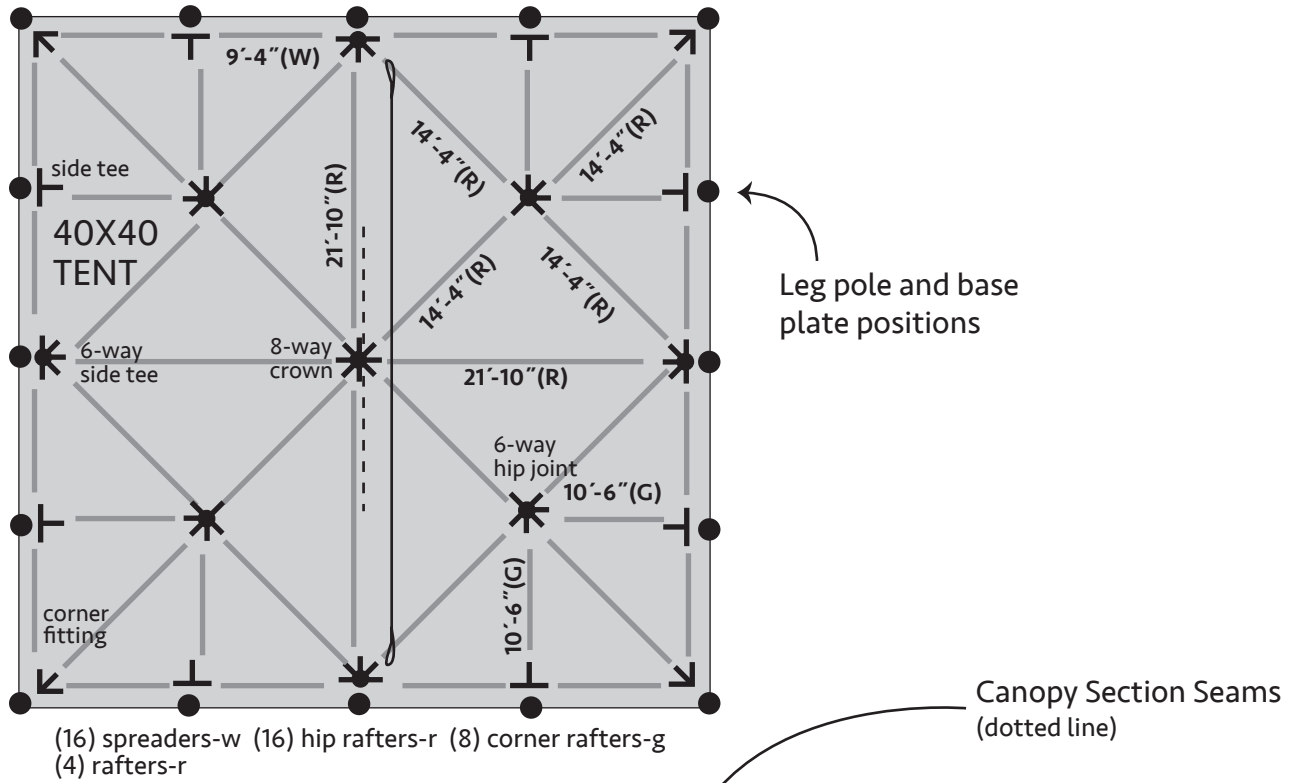


Refer to (page 1) for basic spreader and rafter layout



# Appendix B.

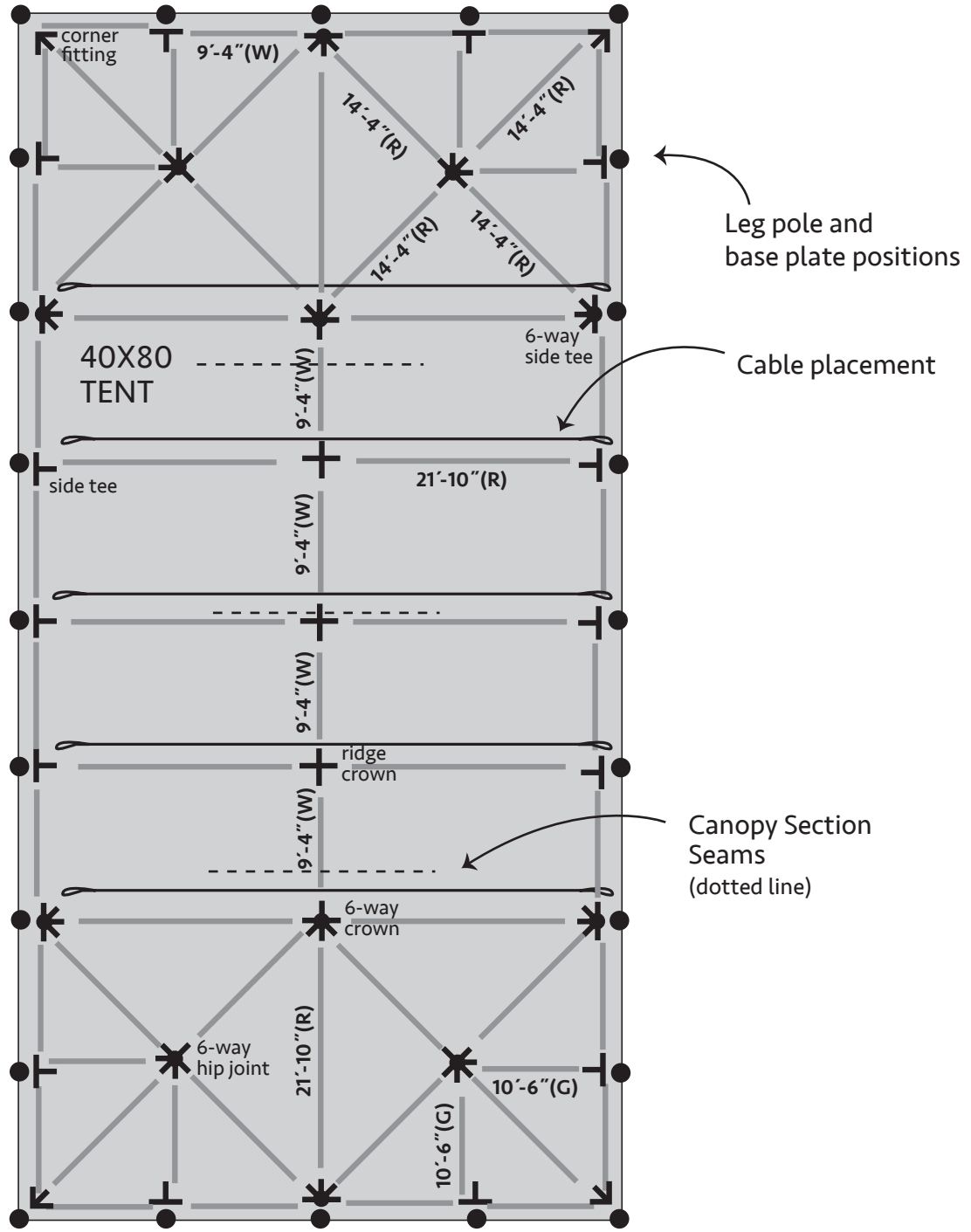
- Plans— showing tent sizes, leg pole and connector quantity and locations



Refer to (page 1) for basic spreader and rafter layout

# Appendix C.

- Plans— showing tent sizes, leg pole and connector quantity and locations



(28) spreaders-w (16) hip rafters-r (8) corner rafters-g  
(12) rafters-r

Refer to (page 1) for basic spreader and rafter layout



# Appendix D.

- Plans— showing tent sizes, leg pole and connector quantity and locations

