

40' Wide Gabled End System

Please read all assembly / installation instructions before the installation or removal of this product.



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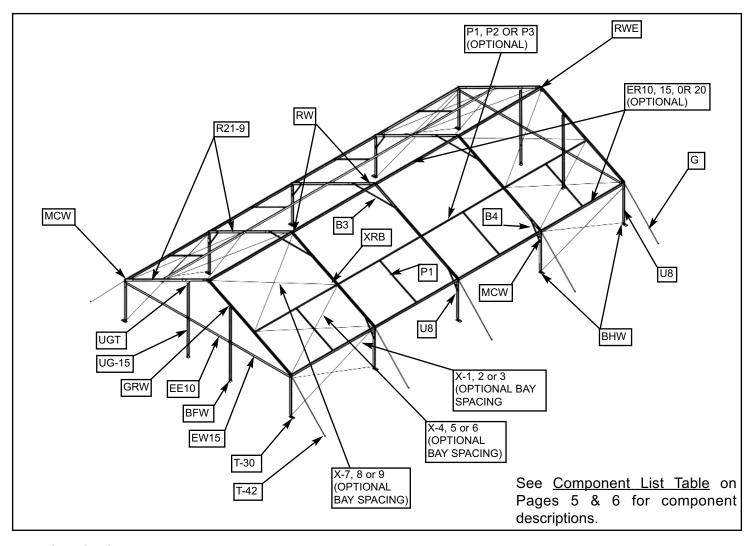
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5.0"

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40' Gabled Navi-Trac Frame Terminology



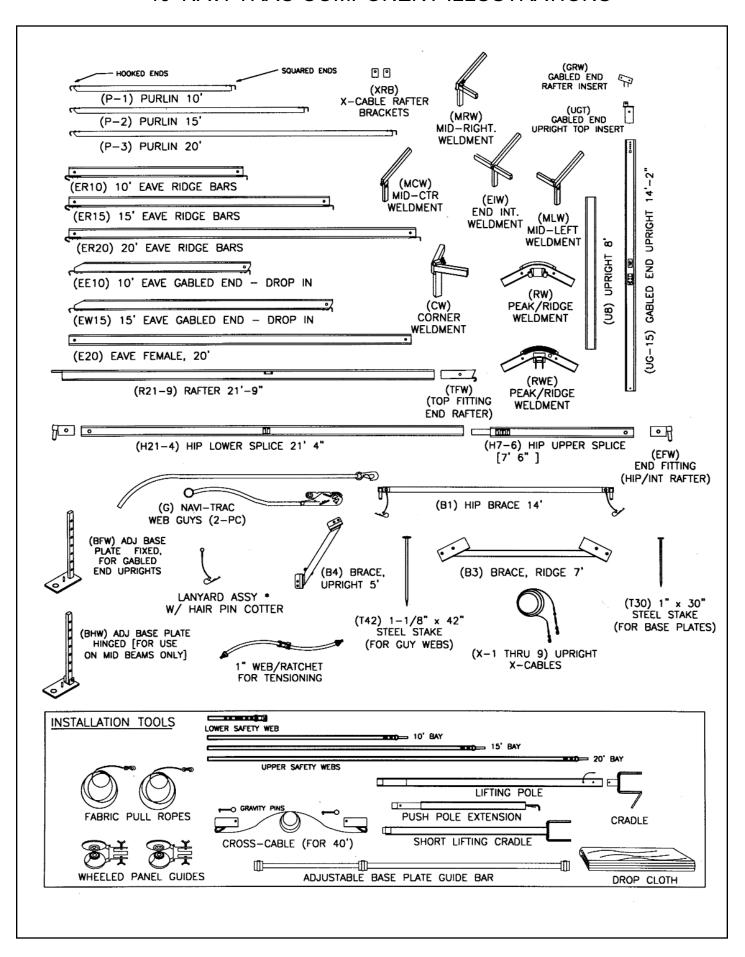
INTRODUCTION:

Like the hip-end version, the gabled end NAVI-TRAC frame is made up of extruded aluminum members joined by weldments. The aluminum frame members themselves are extruded with channels into which the NAVI-TRAC fabric "kedar" is fed. However, the gabled end version of the Navi-Trac differs from the Hip End version in a number of ways:

- 1. All the beams are parallel to each other.
- 2. Beam base plates are hinged for pivoting to a vertical position. End Upright plates are fixed, non-pivoting.
- 3. The eave fittings are the MCW style that allows a simple drop-in action for purlin installation, rather than the slip joint of the hip end configuration.
- 4. Fabric middle bays are installed into the channels of adjacent beams one bay at a time.
- 5. Gabled End fabric is intalled simply into the outer channel of the end beams and tensioned to the Gabled End uprights.
- 6. X-Cabling extends into the overhead rafter area to compensate for the lack of hip end support.
- 7. Corner guys are in one direction only, parallel to the beams.

It is possible to combine the hip end and gabled end styles within one building unit (see kit #3); however this assembly manual focuses on the gabled end configuration only. The last few pages describe the hip/gabled combination and refer the customer to the hip end assembly manual for the hip end part of the building unit.

40' NAVI-TRAC COMPONENT ILLUSTRATIONS



40' NAVI-TRAC COMPONENT LIST

A MINIMUM GABLED UNIT CONSISTS OF (1) KIT #1, (1) KIT #2 AND (2) EXTENSION MIDS.

TO EXTEND THE LENGTH FURTHER, SIMPLY ADD ADDITIONAL EXTENSION MIDS.

STARTER MIDS ARE REQUIRED WITH HIP ENDS ONLY.

		I.D.		10' C	ΔARI	FD	ENIC) NIA	<u> </u>	RΔC	
LABEL		CODES	40' GABLED END NAVI-TRAC							, 10'	
(LETTER ON DRAWING)	COMPONENT DESCRIPTION	(STAMPED OR TAPED)	KIT 1	KIT 2		MID	MID		MID	MID	MID
	EXTRUSIONS W/CHANNELS										
E20	EAVE - FEMALE 20'				4						
ER10	EAVE/RIDGE - DROP-IN 10'									3	3
ER15	EAVE/RIDGE - DROP-IN 15'							3	3		
ER 20	EAVE/RIDGE - DROP-IN 20'					3	3				
EE-10	EAVE/GABLED END, DROP-IN 10'		1	1							
EW-15	EAVE/GABLED END, DROP-IN 15'		2	2							
H21-4	HIP LOWER SPLICE 21-4 (2 pc) 21'-4 (40')				2						
H7-6	HIP UPPER SPLICE (2PC) 7'-6 (40')				2						
R21-9	RAFTER 21'-9		2		1	2	2	2	2	2	2
	BRACES										
B1	BRACE, HIP 14' (W/LANYARDS)				4						
B3	BRACE, RIDGE 7'					1	1	1	1	1	1
B4	BRACE, UPRIGHT, 5'				1	2	2	2	2	2	2
	PURLINS										
P1	PURLIN 10'					2	2			2	2
P2	PURLIN 15'							2	2		
P3	PURLIN 20'					2	2				
	UPRIGHTS										
U8	UPRIGHT - 8'		2		3	2	2	2	2	2	2
UG-15	END UPRIGHT - 14'-2"		2	2							
	WELDMENTS, FITTINGS & PLATES										
BFW	ADJ. BASE PLATES W/INSERTS (FIXED)	"END"	2	2	3	2		2		2	
BHW	ADJ BASE PLATEW/INSERTS (HINGED)		2	2			2		2		2
CW	CORNER WELDMENTS				2						
EIW	END INTERMEDIATE WELDMENTS				1						
MLW	MID LEFT WELDMENTS					2		2		2	
MRW	MID RIGHT WELDMENTS					2		2		2	
MCW	MID CENTER WELDMENTS		2				2		2		2
RW	PEAK/RIDGE WELDMENT					1	1	1	1	1	1
RWE	GABLED END RIDGE WELDMENT		1	1							
GRW	GABLED END UPRIGHT RAFTER WELD.		2	2							
UGT	GABLED END UPRIGHT TOP INSERT		2	2							
XRB	X-CABLE RAFTER BRACKET		8	8							
TFW	TOP FITTING (END RAFTER) W/HDWR				1						
EFW	END FITTING (HIP/INT. RAFTER) W/HDWR				4						

40' NAVI-TRAC COMPONENT LIST

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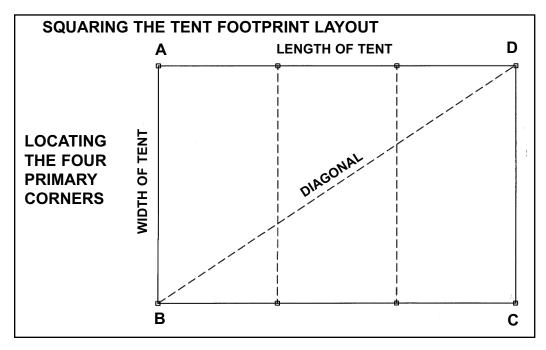
		I.D.	40' GABLED END NAVI-TRAC								
LABEL (LETTER ON DRAWING)	COMPONENT DESCRIPTION	CODES (STAMPED OR TAPED)	GBL KIT 1	KIT 2			EXT	STR	EXT	10' MID STR	EXT
	STAKES, CABLES & WEB GUYS		**OPTIONS OF 10',15', OR 20' BAYS MUST BE SPECIFIED.								
G	NAVI-TRAC WEB GUYS		2 5 2 2 2 2				2	2	2		
T-30	1" x 30" STEEL STAKES		2		3	2	2	2	2	2	2
T-42	1 1/8" x 42" STEEL STAKES		2		5	2	2	2	2	2	2
X-1	UPRIGHT X-CABLES FOR 10' MID BAY**	GREEN NAV-BAY10-U8	[4]	[4]	INSTALL AS SPECIFIED FOR UNITS 100' +						
X-2	UPRIGHT X-CABLES FOR 15' MID BAY**	GREEN NAV-BAY15-U8	[4]	[4]	INSTALL AS SPECIFIED FOR UNITS 100' +						
X-3	UPRIGHT X-CABLES FOR 20' MID BAY**	GREEN NAV-BAY20-U8	[4]	[4]	INSTALL AS SPECIFIED FOR UNITS 100' +						
X4	LOWER ROOF X-CABLES FOR 10' MID BAY A**	RED NAV-BAY10	4	4							
X5	LOWER ROOF X-CABLES FOR 15' MID BAY A**	RED NAV-BAY15	4	4							
X6	LOWER ROOF X-CABLES FOR 20' MID BAY A**	RED NAV-BAY20	4	4							
X7	UPPER ROOF X-CABLES FOR 10' MID BAYB**	BLUE NAV40-BAY10	4	4							
X8	UPPER ROOF X-CABLES FOR 15' MID BAY B**	BLUE NAV40-BAY15	4	4							
X9	UPPER ROOF X-CABLES FOR 20' MID BAY B**	BLUE NAV40-BAY20	4	4							
	BOLTS AND HARDWARE										
	LANYARD ASS'Y W/HAIRPIN COTTER				4						
	1/2"-13 x 3" BOLT W/NYLOCK NUT		6	4	10	2	2	2	2	2	2
	1/2"-13 x 3 1/2" BOLT W/NYLOCK NUT		6	6							
	INSTALLATION TOOLS										
	CROSS CABLE FOR 40'	BLUE	1	1	1	1		1		1	
	LOWER SAFETY STRAP W/RATCHET		4								
	UPPER SAFETY STRAP FOR 10' BAYS		4								
	UPPER SAFETY STRAP FOR 15' BAYS		4								
	UPPER SAFETY STRAP FOR 20' BAYS		4								
	1/2" GRAVITY PIN (FOR CROSS CABLE)		2	2	2	2		2		2	
	LONG LIFTING CRADLE		1								
	PUSH POLE EXT. (FOR LONG CRADLE)		1								
	SHORT LIFTING CRADLE		1								
	ADJ. BASEPLATE GUIDE BAR		2								
	FABRIC PULL ROPES		2								
	WHEELED PANEL GUIDES		2								
	DROP CLOTH (8' x 30')		1								

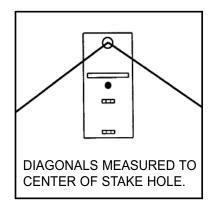
NAVI-TRAC INSTALLATION SAFETY GUIDELINES

Your installation techniques will evolve to fit the needs of your clients, the experience level of your crews, the nature of other tentage on-site, and the equipment that you have most readily available. We encourage you to begin with a crew of (4) workers and only reduce this number as your experience level allows you to do so safely. Whatever techniques you adapt for your crews, we encourage you to keep safety utmost in mind.

Please read through this assembly manual completely before beginning your installation. Be sure the proper equipment, crew and safety precautions are in place. We hope that you enjoy the design features of the NAVI-TRAC each time the unit is installed.

- 1. It is recommended that workers wear safety shoes and hard-hats on site.
- 2. When moving beam sections by hand, use proper lifting techniques to protect the back, and avoid pinching fingers while making hardware connections.
- 3. Never permit bystanders or uninvolved to stand or walk even briefly in the falling path of a beam as it is being raised or lowered.
- 4. Be aware to avoid contact of beams with any overhead power lines near the site.
- 5. When anchoring the structure, avoid all underground power lines and gas lines or other utility easements. Local authorities should be able to map the location of these obstacles.
- 6. Keep site clear of debris to avoid tripping, especially while carrying components or bundles of fabric.
- 7. Do not drag bundles of fabric on concrete, asphalt, or ground as this can cause damage to the fabric from abrasion through the bag.
- 8. When lifting the NAVI-TRAC Hip End frame (See Appendix), be sure to use the heavy duty NAVI-TRAC frame lift. The standard Anchor frame lift was not designed for the weight of the NAVI-TRAC frame. When lifting each side of an end section, (2) NAVI-TRAC frame lifts should be used.
- 9. Before pivoting beams to vertical, clear the area of items that could cause tripping or slipping.
- 10. Before pivoting middle beam, install the cross-cable for safety bracing. On the 50' NAVI-TRAC, the cross-cable should be left in place as an essential part of the structure.
- 11. NOTE: Hinged baseplates are used on all beams in the Gabled End Configuration. However, if the Hip End is constructed on either, or both ends of the unit, the base plates in the hip end module should all be the non-pivoting, fixed plates. Use of hinged baseplates in the end module could cause the end module to collapse during installation.
- 12. When using ladders to make peak connections, be sure the ladder is tall enough that workers can reach the peak from a ladder step consistent with the safety recommendations for the ladder being used. On middle beams, secure the eaves before climbing the ladder to secure the peak.
- 13. For any Gabled End NAVI-TRAC of 100 ft or more in length, one middle bay must be cross-cabled both in the over head and at ground level in an "X" fashion on both sides for each 100 ft of length.
- 14. For proper loading and anchoring information, consult the appropriate NAVI-TRAC blueprint available from Anchor Industries Inc.
- 15. If a Hip End is used on either end of the unit, before installing fabric, verify that all hip, brace, and rafter pins are seated into weldment fittings and secured by lanyard pins.
- 16. The installation method described herein requires coordination of tasks between workers. A safe installation is dependent on alertness and coordination.
- 17. Before lifting Gabled End top frame to install uprights, always guy out and stake at least both corners of the side or end being lifted. This will help maintain the intended footprint and will protect against uplift from the wind that could move or flip the tent, causing damage to the tent and/or severe injury to workers.





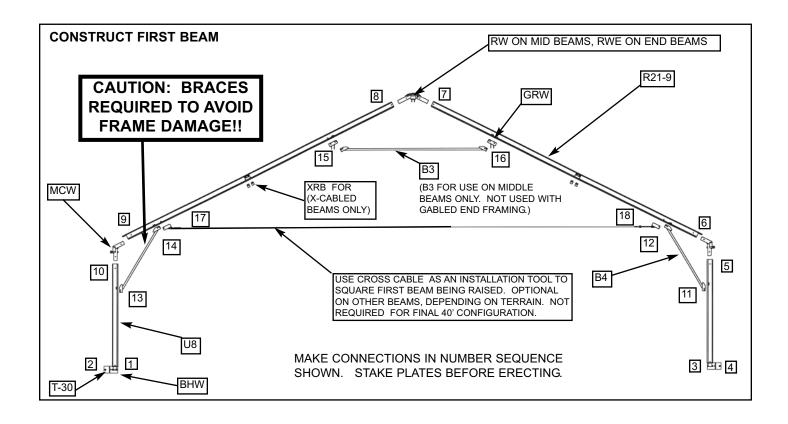
DIRECTIONS FOR SQUARING THE TENT

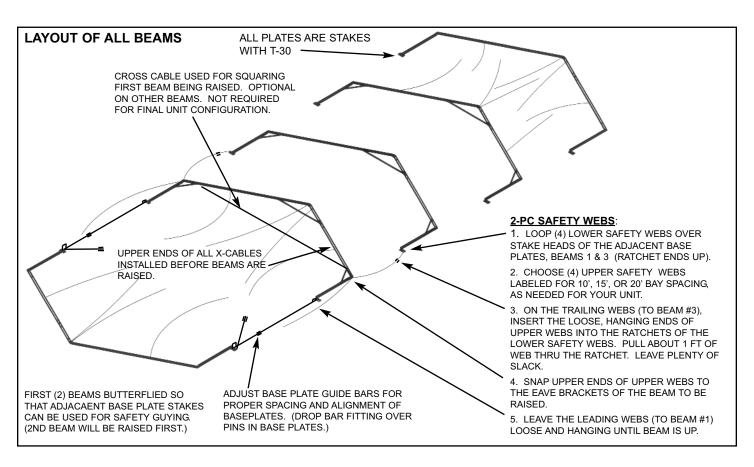
- 1. USE A TAPE MEASURE TO MARK THE ENDS OF A LINE FOR ONE END (A TO B ABOVE) EQUAL TO THE EXACT WIDTH OF THE UNIT.
- 2. HOLD THE "0" END OF ONE TAPE AT POINT "A" AND THE "0" END OF ANOTHER TAPE AT POINT "B".
- 3. EXTEND THE FIRST TAPE ALONG ONE SIDE OF THE UNIT TO A MEASUREMENT EQUAL TO THE EXACT LENGTH OF THE TENT.
- 4. CONSULT THE CHART BELOW TO FIND THE DIAGONAL FOR THE TENT YOU ARE BUILDING.
- 5. EXTEND THE SECOND TAPE TO A MEASUREMENT EXACTLY EQUAL TO THIS DIAGONAL.
- 6. BRING THE TWO TAPES TOGETHER SO THAT THE LENGTH MEASUREMENT OF ONE LIES DIRECTLY ON THE DIAGONAL MEASUREMENT OF THE OTHER. PULL THE TAPES TIGHT AND MARK THEIR INTERSECTION. THIS WILL LOCATE A FAR CORNER (POINT "D" ABOVE).
- 7. SWITCH TAPES SO THAT TAPE 1 (ABOVE) MEASURES THE DIAGONAL AND TAPE 2 (ABOVE) MEASURES THE LENGTH. THIS WILL LOCATE POINT "C" ABOVE.
- 8. WITH THE FOUR PRIMARY CORNERS LOCATED, LAY OUT BASEPLATES AND UPRIGHTS ACCORDING TO THE NUMBER OF BEAMS TO BE INCLUDED IN THE BUILDING UNIT. MEASUREMENTS GIVEN ARE TO THE CENTER OF THE STAKE HOLE OF EACH PLATE.

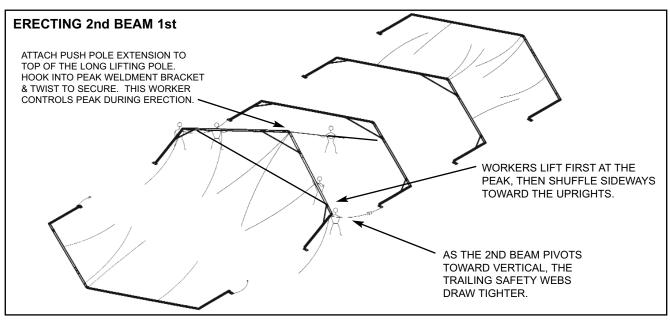
DIAGONALS FOR SQUARING FOOTPRINT **LENGTH OF TENT** FEET 30 40 45 50 55 60 65 70 75 80 85 90 95 100 105 110 115 120 125 130 54' 8" 81' 2" 43' 2" 50' 7" 58' 10" 63' 2" 67' 6" 72' 0" 76' 7" 85' 10" 90' 6" 95' 2" |99' 11"|104' 8"|109' 6"|114' 3"|119' 1"|123' 11|128' 9"|133' 8" 31 41 50' 10" 57' 3" |60' 11" |64' 8" |68' 7" 72' 8" 76' 10" 81' 1" 85' 6" |89' 11"|94' 4" |98' 11"|103' 6"|108' 1"|112' 9"|117' 5"|122' 1"|126' 10|131' 7"|136' 4" 59' 2" 64' 10" 68' 0" 71' 5" 75' 0" 78' 9" 82' 7" 86' 7" 90' 8" |94' 10"|99' 2" |103' 5"|107' 10|112' 3"|116' 9"|121' 3"|125' 10|130' 5"|135' 0"|139' 8" DIAGONAL SHOWN IN FEET-INCHES (TO NEAREST INCH) - - TO CENTERS OF STAKE HOLES

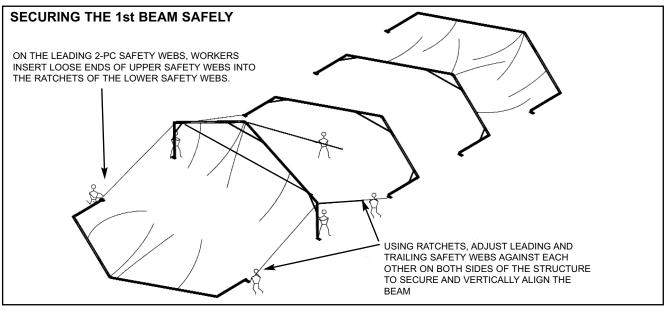
(STAKE HOLE TO STAKE HOLE.) **WIDTH OF TEN**

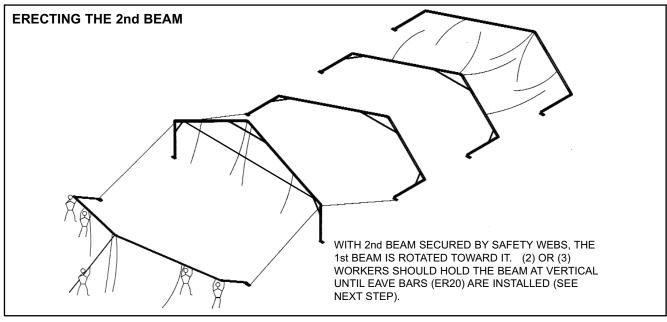
FEET 140 <u>145</u> 150 160 170 175 180 185 225 230 135 155 165 190 195 200 205 210 215 220 138' 6" | 143' 5" | 148' 3" | 153' 2" | 158' 1" | 163' 0" | 167' 11| 172' 10| 177' 9" | 182' 8" | 187' 7" | 192' 6" | 197' 5" | 202' 5" | 207' 4" | 212' 3" | 217' 3" | 222' 2" | 227' 2" | 232' 1" 31 41 141' 1" | 145' 11 | 150' 8" | 155' 6" | 160' 4" | 165' 2" | 170' 0" | 174' 10 | 179' 9" | 184' 7" | 189' 6" | 194' 4" | 199' 3" | 204' 2" | 209' 1" | 214' 0" | 218' 10 | 223' 9" | 228' 8" | 233' 8" 144' 4" | 149' 0" | 153' 8" | 158' 5" | 163' 2" | 167' 11 | 172' 8" | 177' 6" | 182' 3" | 187' 1" | 191' 11 | 196' 9" | 201' 7" | 206' 5" | 211' 3" | 216' 1" | 221' 0" | 225' 10 | 230' 8" | 235' 7"

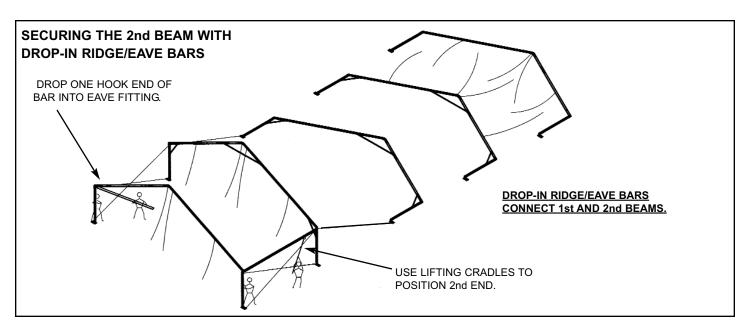


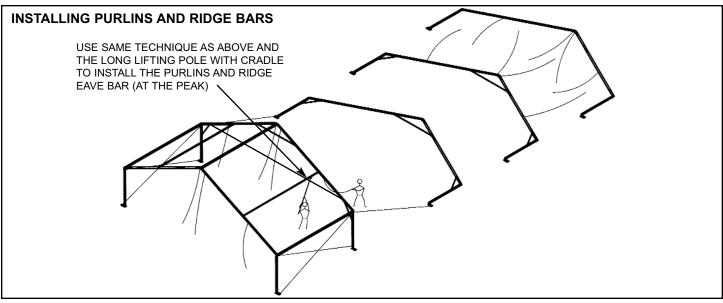


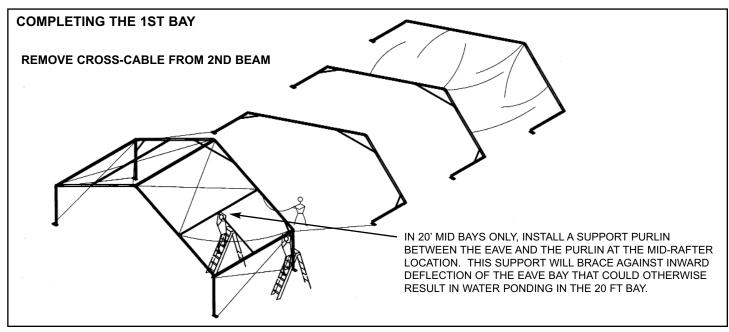


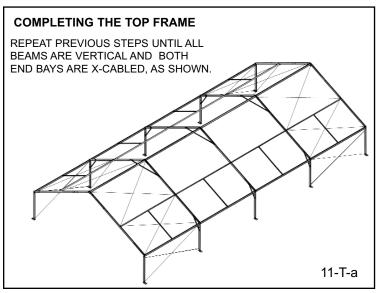


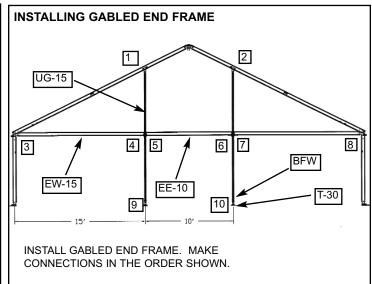


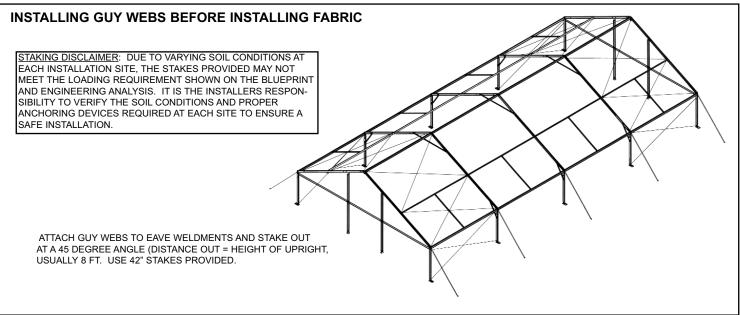


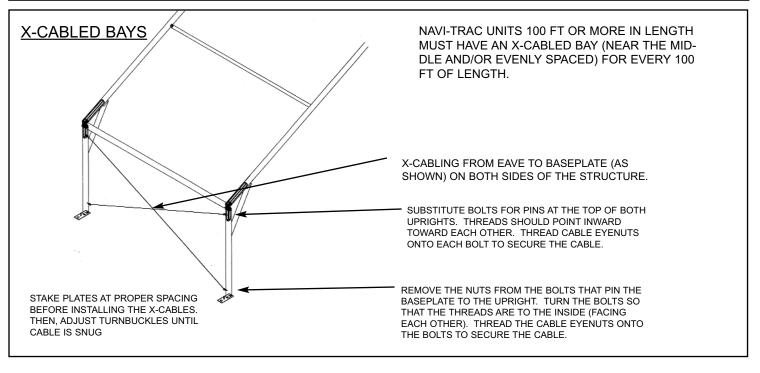


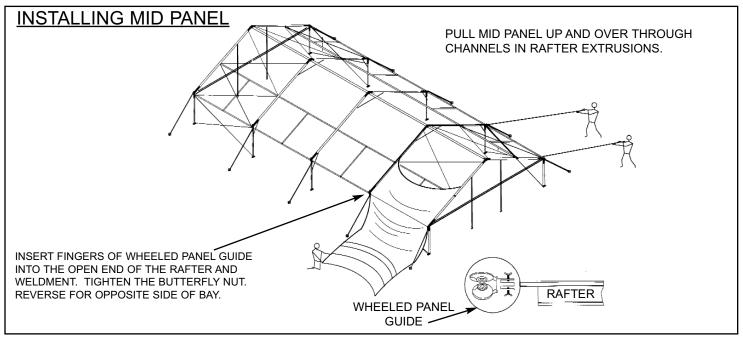


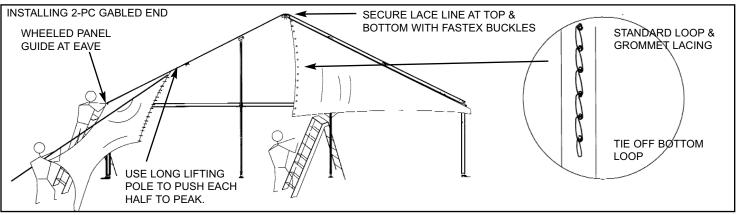


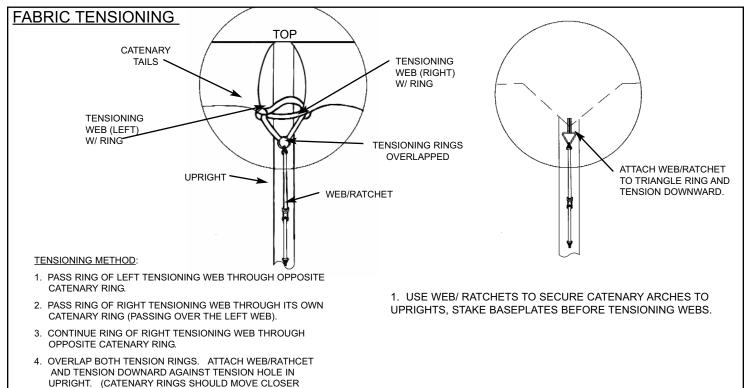




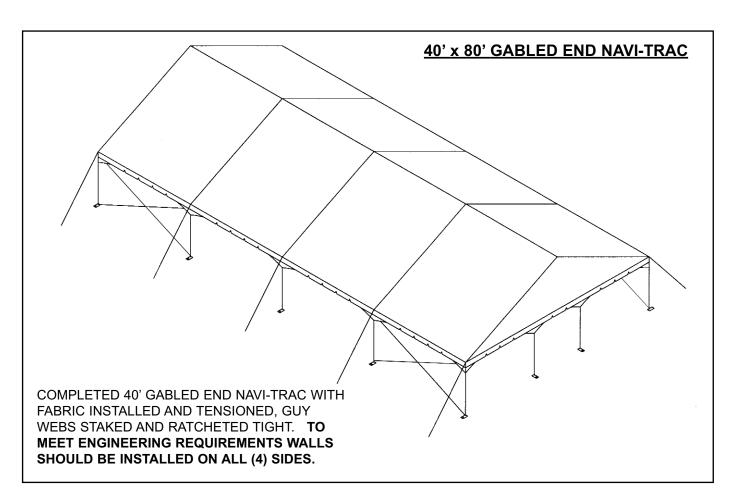


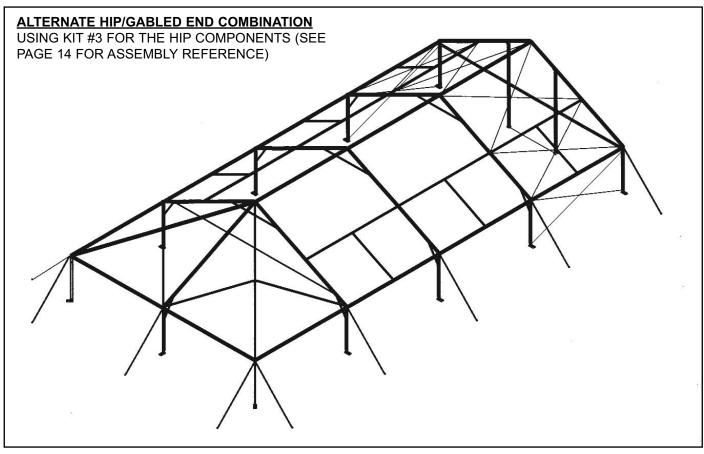


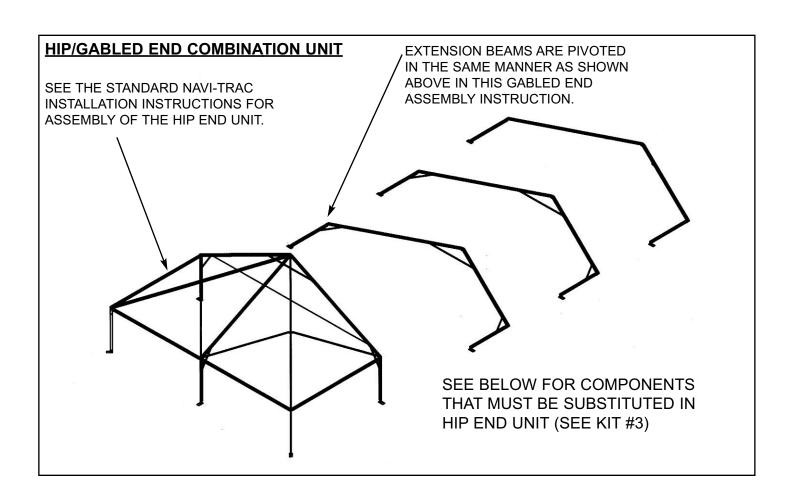


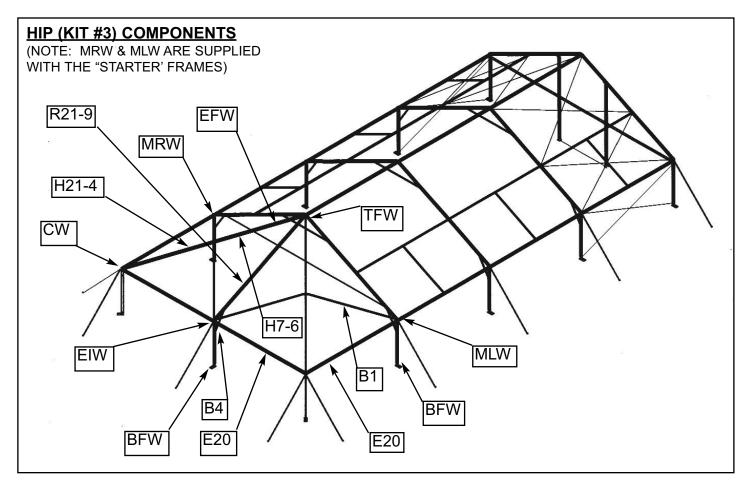


TOGETHER AS RATHCET IS TIGHTENED.)











Thank you for purchasing an Anchor product. In return, we pledge Quality, Service and Craftsmanship and are available for any questions you may have or assistance you may need.

PHONE NUMBER

812-867-2421

FAX NUMBER

812-867-0547

Anchor products are of superior design and operate best within the parameters of these instructions. It is IMPERATIVE that the instructions be carefully read and **COMPLETELY FOLLOWED**. Please read installation instructions before the installation or removal of this product. Installation instructions are available at **www.anchorinc.com**.

CAUTION

- 1. For each installation, the installer is solely responsible for evaluating the site and the proper securing method determined. Some soils require different staking or securing than that provided with the tent. Due to this variety of soil conditions, these are the manufacturer's suggested sequence of installation procedures. Anchor's responsibility is limited to the construction of the tent. We are not responsible for methods that installers may choose to secure the tent to the ground.
- 2. Inasmuch as the weather is unpredictable, good judgment and common sense must be incorporated within installation guidelines. It is the responsibility of the tent Installer/maintainer to determine the severity of the weather, proper time and method of installation and/or erection and disassembly.

The structure has been manufactured to meet code requirements. For the safety of all occupants, evacuation is recommended if inclement weather occurs, or if there is any doubt concerning the safe use of this product.

- 3. Proper safety equipment should be used at all times to insure a safe installation and take down. We suggest a careful evaluation be made to determine safety equipment needed, such as hard hats, steel-toe shoes, safety glasses and other as required.
- **4**. Anchor stands behind its products in accordance with its standard Terms and Conditions of sale. A copy of our Terms and Conditions of Sale can be obtained by contacting Anchor at the telephone number and/or address on this document.