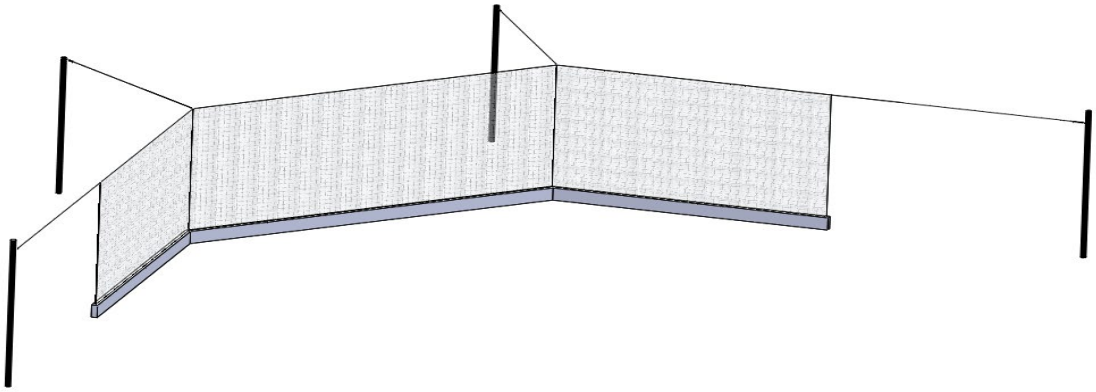
# TNTB - Tie-Back Tensioned Backstop Netting System Installation Instructions



1. Place Poles

a) Locate poles per site plans and install according to applicable foundation details. A site-specific foundation design is strongly recommended.

b) To facilitate plumb lifting utilize both tabs shown below. The single hole tab is provided for lifting only and will not be used for final system installation. Some systems, with netting stopping short of the pole, will have a single hole tab on each side, one of them is provided for lifting purposes only, either one is adequate for system installation. When properly installed the tabs will be in line with the cable for both the terminating poles and tie-back poles, elevations are unique to the individual system and proper embedment is indicated by a welded line near the bottom of the pole.

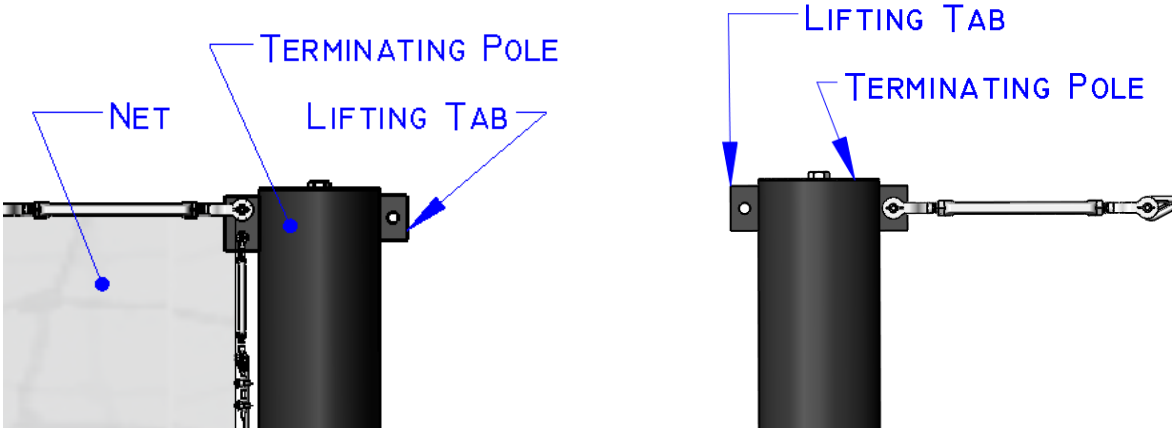
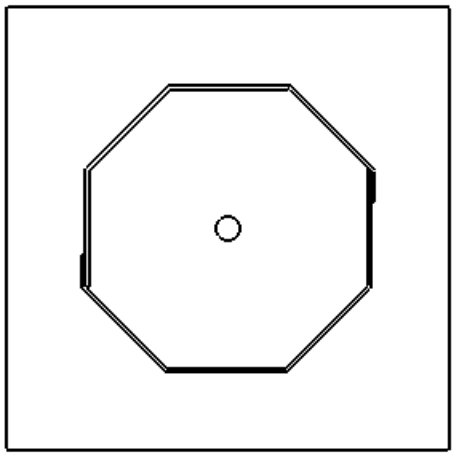
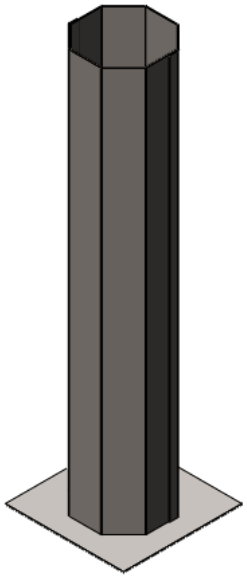



**Figure 1. Tensioned Cable Termination**

**NOTE**: For tie-back poles and termination poles that the netting terminates before the pole, both tabs will be single hole tabs. Either tab can be used as the system tab in such cases.

## Ground Sleeve Install (Optional)





1. Mark the locations of the ground sleeves on the field. Being sure to match the center distance to the desired system.

2. Excavate holes for foundations and set the concrete forms.

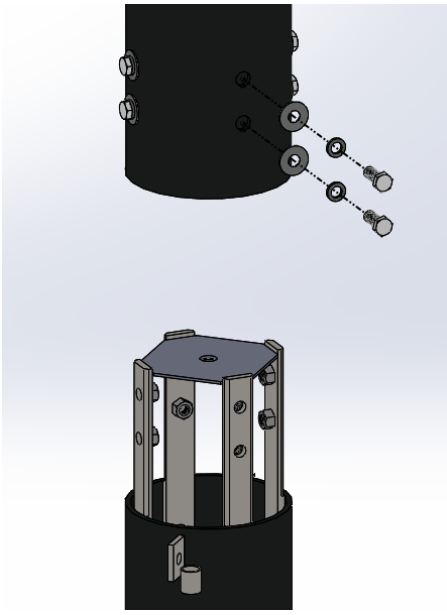
3. Center the ground sleeve in the form and secure it in a plumb and level position. The top of the ground sleeve should be set according to the site plans (Generally level with Finish Grade).

4. Pour concrete foundation to the top of the sleeve. Allow concrete to adequately cure.

5. Caulk all around the top of the ground sleeve, using backer rod where needed to prevent the caulk from falling into the ground sleeve.

6. After the pole is installed, fill ground sleeve with non-shrink grout (provided by others).

## Pole Assembly (Optional)



1. Slide Top Pole onto Lower Pole, using lifting tabs, aligning bolt holes in pipe.

2. Install all (4) bolts with Flat & Lock Washers, finger tight as pictured in Figure 4.

3. Tighten all bolts (500ft/lbs.) maintaining alignment of pole sections.

1. Assembly Hardware

   a) Begin by assembling the main upper horizontal cable between the two terminating poles using turnbuckles on both ends.

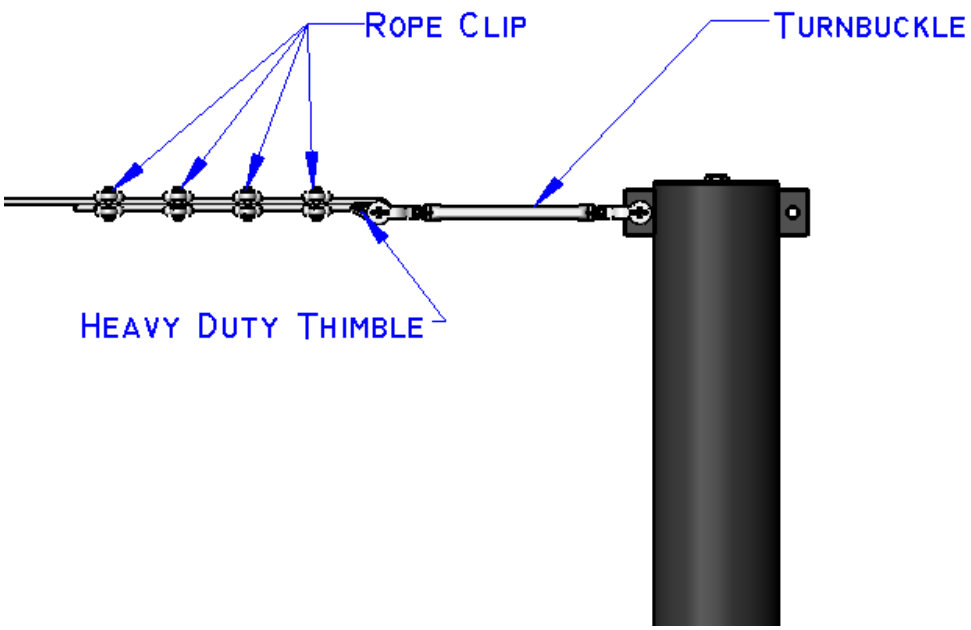



**Figure 2. Tensioned Cable Termination**

   b) Locate where the corner tie back cables will be located on the main cable. Assemble tie back cables between the tie back pole and at the correct location on the main cable. There will be a vertical cable at each tie back and at each end of the net.

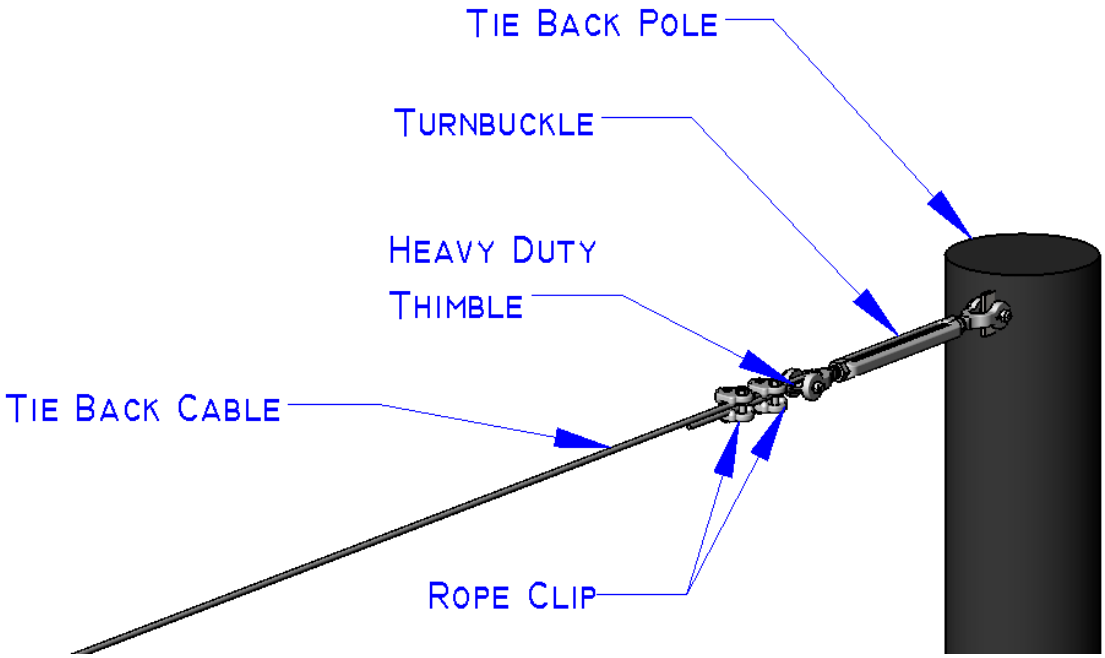



**Figure 3. Tie Back Cable Termination**

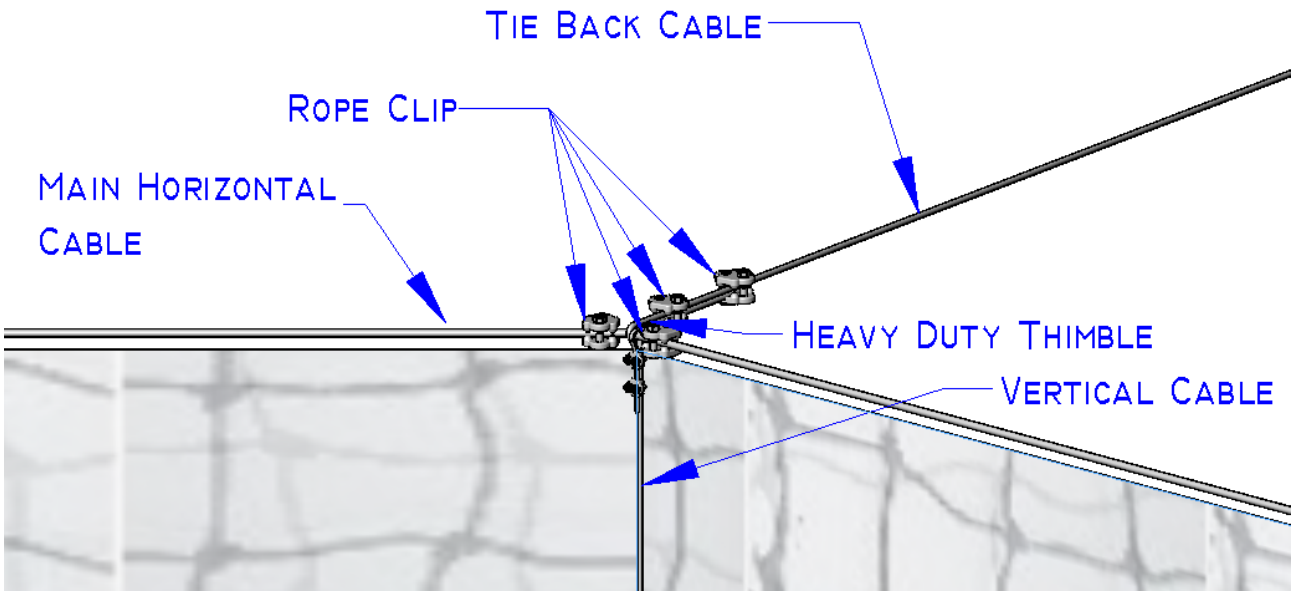



**Figure 4. Tie back Cable Connection**

c) The vertical cables can be secured to the bottom cable or an eye bolt. Assemble bottom cable with thimbles and rope clips at each end. Bottom cable needs to be run through the eye bolts, or equivalent, to secure the cable and hold it down. (Recommended 5' Spacing)

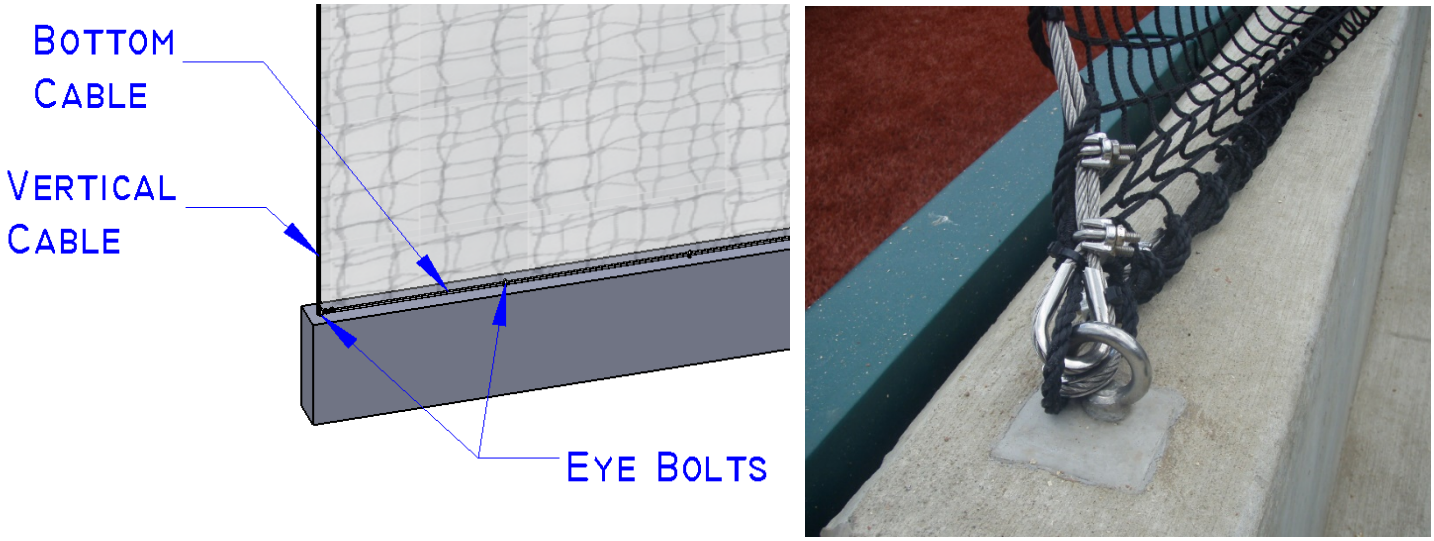



**Figure 5. Bottom Cable Termination**

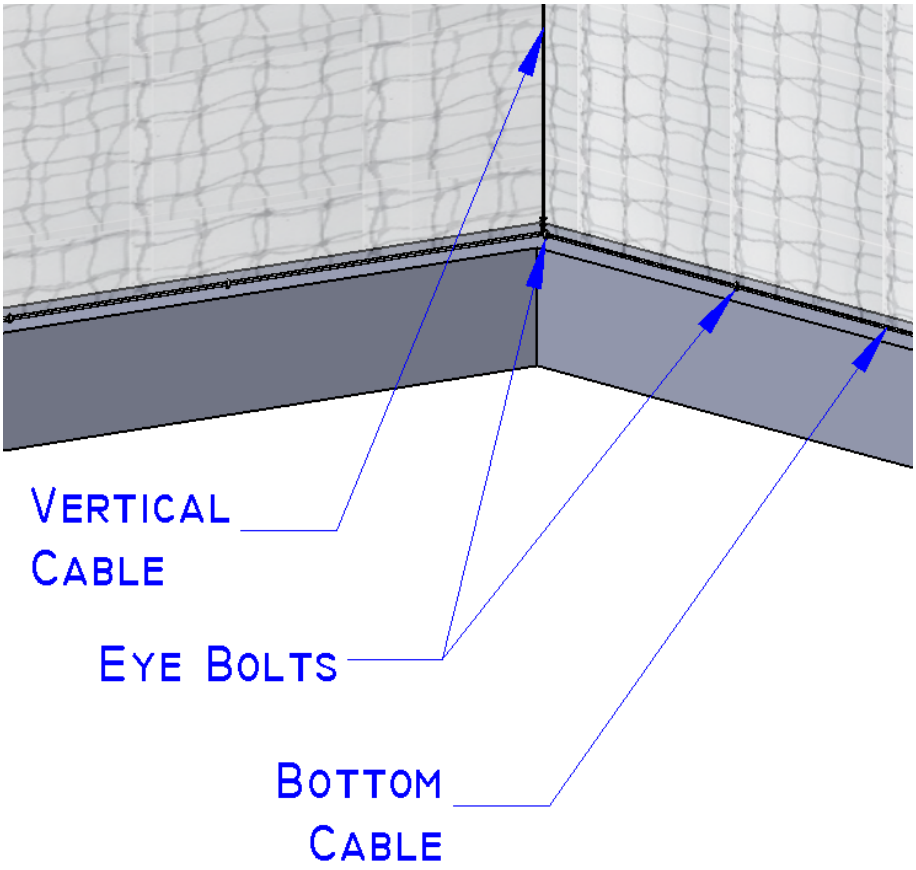



**Figure 6. Bottom Intermediate Cable Connection**

d) After all the cables have been mounted on the poles and the vertical cables have been set to length, the sag of the main cable can now be removed by tightening the turnbuckles on both ends. Do not tighten turnbuckles so much that the poles themselves deflect. The vertical cables may be adjusted after the main cable is tensioned. Tighten vertical cables until taught, not so much as to deform the main cable itself.

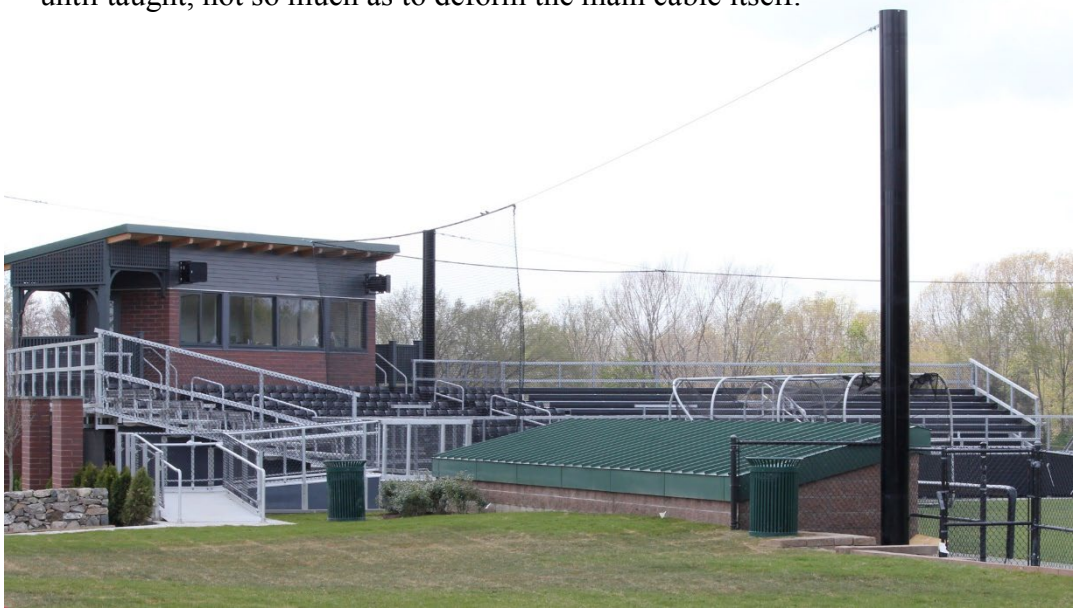


**Figure 7. Net Installation**

c) The nets can then be hung from the assembled cables. Using the zip-ties, fasten the net to top cable and each side cable. The net may then be secured to the cable using the black rope provided, looping through each square, around the net perimeter binding and cable. For Ultra Cross netting systems, it's important to leave excess material along the net perimeter (i.e. no short tag ends and a minimum of one extra square) so that the net intersection doesn't fail prematurely.

d) Once the net is installed, hang the provided laminated warning signs at either bottom corner of each of the netting panels along both base lines and the backstop using (4) Zip Ties on each sign.

**Figure 8. Rope Binding**

SSI tension netting system poles are designed to strength, not deflection. As a result, some deflection will occur during installation and should be considered normal. Deflection may also be evident in calm conditions, particularly on the outer most poles of a given tension netting system.

# REPLACEMENT PARTS

Contact Sportsfield Specialties Customer Service at 1-888-975-3343 for replacement hardware.

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