

Installation Instructions

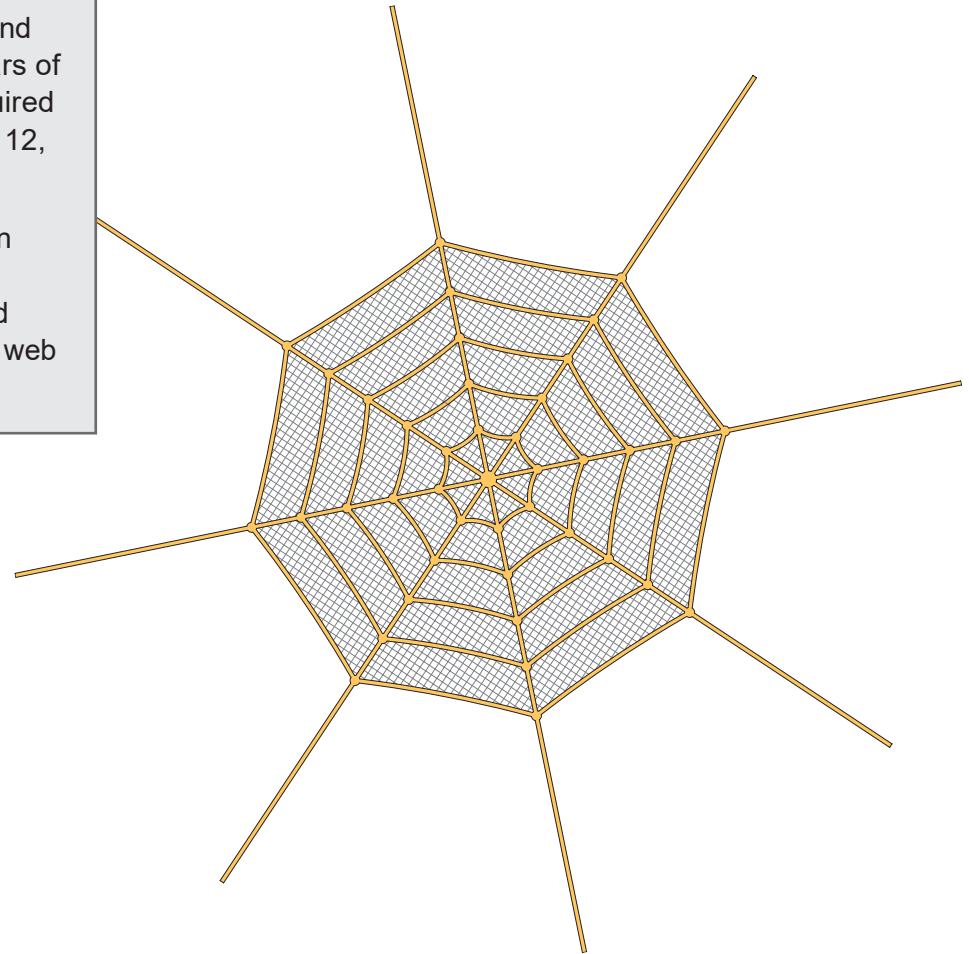
Spider Web Net For Playgrounds and Amusement Play Areas



INCOR

The spider web climbing nets are designed for playgrounds and amusement park play areas. An installed net will provide years of use with minimal maintenance. Basic hand tools will be required for installation of the net and support posts. Standard sizes; 12, 16 and 20 ft.

These instructions show standard installations. Site preparation may vary according to your plan. Always refer to the site plan drawing along with these instructions before starting. Illustrated examples and photographs show examples of common spider web net designs and installations.



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The spider web climbing net system is designed for playgrounds and amusement play areas. An installed net will provide years of use with minimal maintenance. Basic hand tools will be required for installation of net to eight support posts.

The spider web net requires wood bollard post uprights that are sourced and installed by the user. Recommended post size is 10 to 12 inch, either round or square. Length of the bollard posts including height above ground is dependent on the required design, considering ease of access, slope and height above the ground.

Introduction

As part of an interactive play system, a spider web net may be adjoined to other rope and netting structures such as cargo climb, fencing and bridges. These instructions cover only stand alone installations. Always refer to the overall site plan for installations if different than shown here.

InCord spider web nets with bed liners are hand woven and constructed using either of two methods – use of synthetic rope or for a more rigid construction, wire-core Netform™.

Rope constructed nets using three-strand natural looking ProMa-nila Ultra™ or soft play polyester are supplied with tails for wrapping around a support post or to weave onto another rope structure.

Netform™ constructed spider web nets are semi-rigid providing a bounce when climbed. Cross joints are assembled using knot and tee shaped connectors. The tails of the net are terminated with hardware.

Knotless mesh bed liners are used with all designs and are factory assembled to the spider web net. Do not remove or modify any bed net fasteners.



Spider Web Net System Planning

The Spider Web Net is an interactive play structure. Planning must consider safety from fall and collision. Refer to ASTM F1487 and US CPSC Handbook for Public Playground Safety – Publication 325.



Netform spider web net anchored to steel columns.



Rope spider web net anchored to wooden bollards.

Unpack the spider web net and any associated installation hardware. Check the net and related components against the packing slip for description, quantity, and size before proceeding with the Spider Web installation. Contact INCORD if anything is missing, not to length, or if any portion of the system is damaged. Do not substitute any installation hardware or net material not covered in these instructions.



Read all Instructions carefully before installing the Spider Web Net. Keep in mind that safe building practices must always be used during installation.

Suggested Tools for Installation:

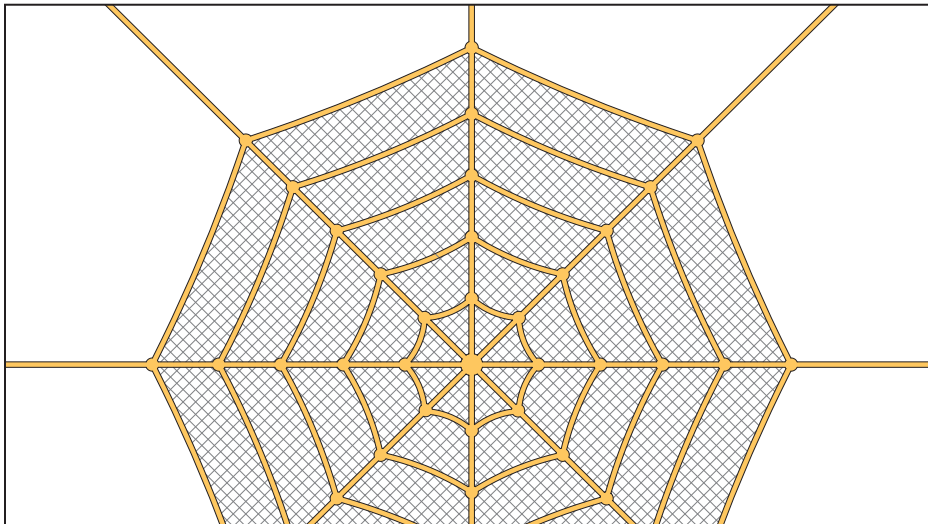
Post-hole digger • shovel • carpenter's level • tape measure • guide string or chalk line • stakes • cordless drill • Socket wrench or adjustable wrench for Netform anchor hardware.



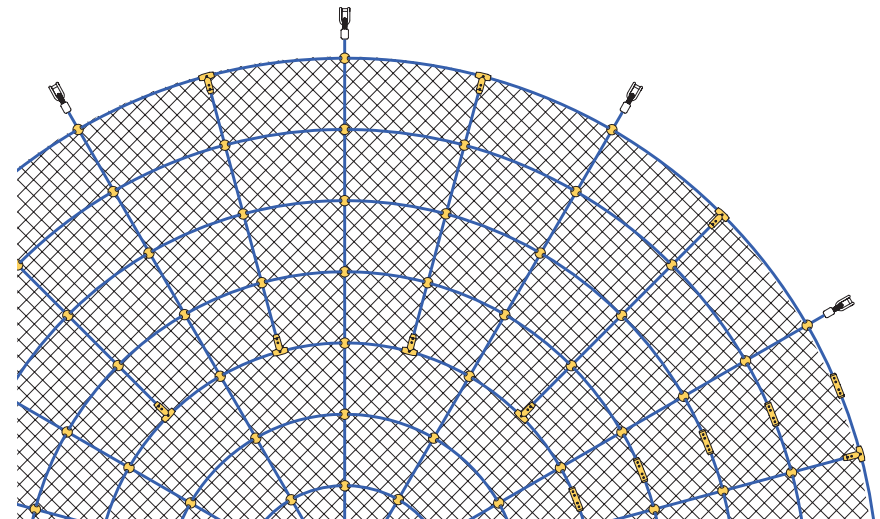
Bollard Type
Support Column

Rope constructed spider web nets are supplied with rope tails for attachment to support uprights. Assembling to the uprights may require hole drilling, wood staples and wood screws. Netform spider web nets requires hand tools for assembling hardware to support columns.

Rope Constructed Spider Web Net



Netform Constructed
Spider Web Net



Column Construction and Considerations

The spider web support columns, construction and their installation is the responsibility of the owner. The basic design criteria is to meet or exceed safe loading of the net and to meet the height and through hole requirements of the system plan.

Note: The spider web net terminations and support design drawings should be certified by a Professional Engineer and all installation work shall be performed in strict compliance with local and state building codes.

For typical installation examples and for illustration purposes, wooden bollard posts are shown in these instructions.

Before installing support columns, verify the orientation, height and slope of the spider web net in regards to support column height and anchor point locations.

Support columns placement for rope nets must consider the net tail length for anchoring and wrapping of the rope.

Netform spider web nets using metal anchors must consider the length of all hardware in determining exact placement of the support columns.



Rope spider web net connected to rope bridge.

Support Column Installation

Install the support columns according to the plan and following the drawings and all installation considerations for your rope or Netform constructed net.

The support column placement illustrations shown in the following instructions are for 12, 16 and 20 foot rope type installations.

The placement of support columns for Netform constructed spider web nets is not shown here because each net is custom sized. Follow the design plan for placement of the support columns.



Netform spider web net anchored to steel columns with decorative coverings.

Spider Web Installation, Rope or Netform

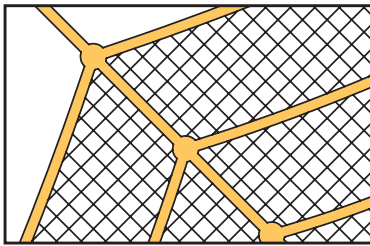
1. Place the spider web net between the support columns and oriented as it will be installed.

Note: The net may be installed either with the bed liner facing up or down - dependant on your installation preference or according to the design plan.

Unless used for climbing in a vertical configuration, the bed liner installed on top (in front) of the net will have greater support and will last longer than when mounted under the spider web net.

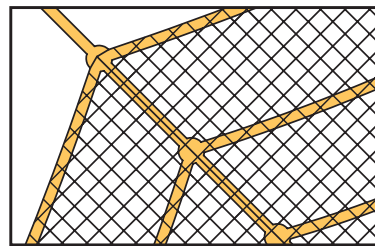
For horizontal installations where the stress is typically the highest on the bed liner, we recommend the spider web net be installed with bed liner on top.

Top View



Bed Liner on Bottom

Top View



Bed Liner on Top

2. Working from opposite ends to assure the web net remains centered, attach the tails to the support columns as shown in the examples.

Wrap the rope tail around the column and secure the end using one of the suggested methods shown in the illustrations. Additional theming rope may be added to the post for presentation and to add a soft surface to the column.

Netform constructed spider web nets may use hardware eyebolts, rod and shackles for attachment to the column upright.

Follow the illustration on the Netform Installation page as an example of a spider web net installed with threaded rod and eyebolt.

3. Adjust the net for even spacing between the support columns. Do not over tighten the rope net. It should have a natural sag but be tight enough to provide some bounce without touching the ground.

Netform nets are stiffer by construction and have little to no stretch when installed.

4. Check all anchors to be sure they are secure. This completes installation.

Spider Web Net Inspection and Maintenance

The installation is designed for several years of outdoor use, and with some care can last longer.

Aside from normal wear and tare from feet and hand climbing, spider web rope fiber and metal hardware breakdown slowly from natural outdoor conditions including sunlight UV, sand and moisture.

An installation will last longer if installed in a shaded area, washed on a scheduled basis of dirt and sand, and covered or removed from service if not in use during winter months.

On a scheduled basis inspect the support columns, tail ropes, theme ropes and anchoring hardware.

Inspect the bed liner for holes and the lashing that secures the rope structure and bed liner together. Tighten lashing or replace as necessary.

Screws for securing the rope to the support columns must be buried and not protruding from the rope.

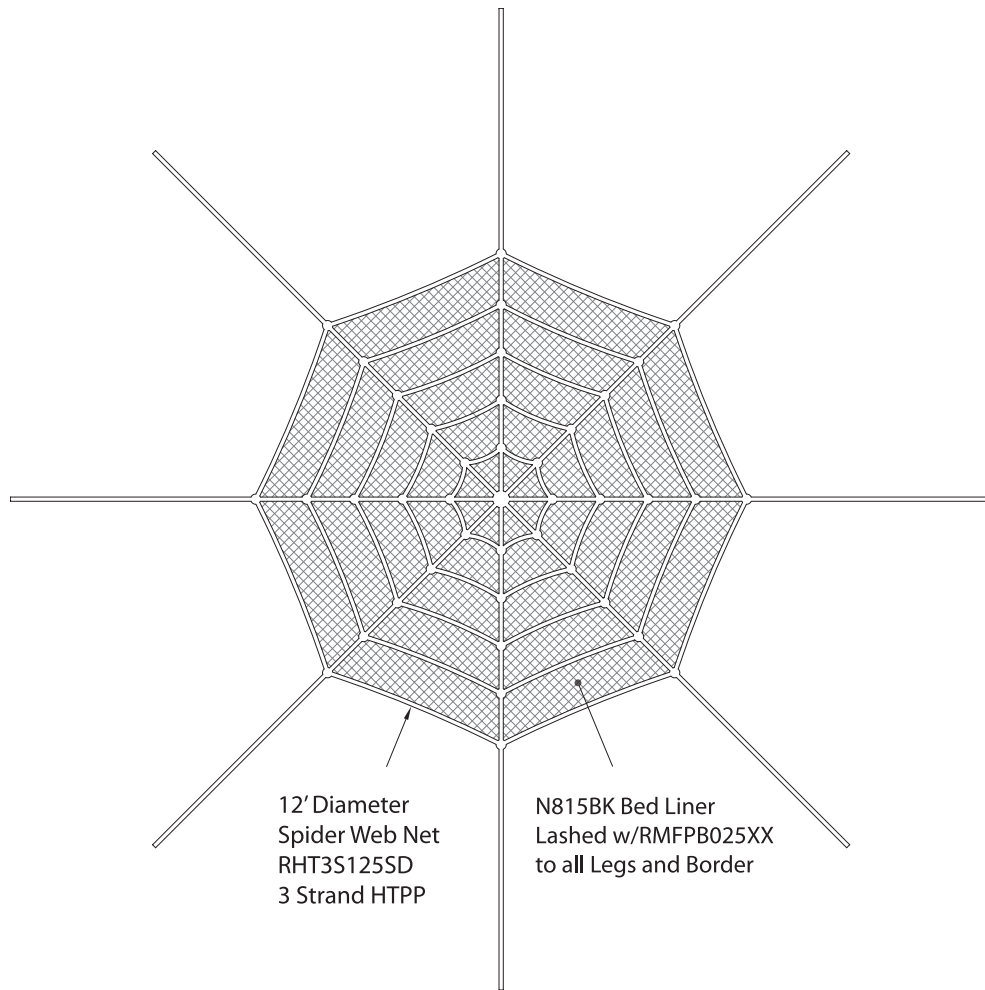
Netform threaded anchors should be inspected and retightened if necessary.

Cross connections and Tee's can be tighten with a Torx T20 wrench.

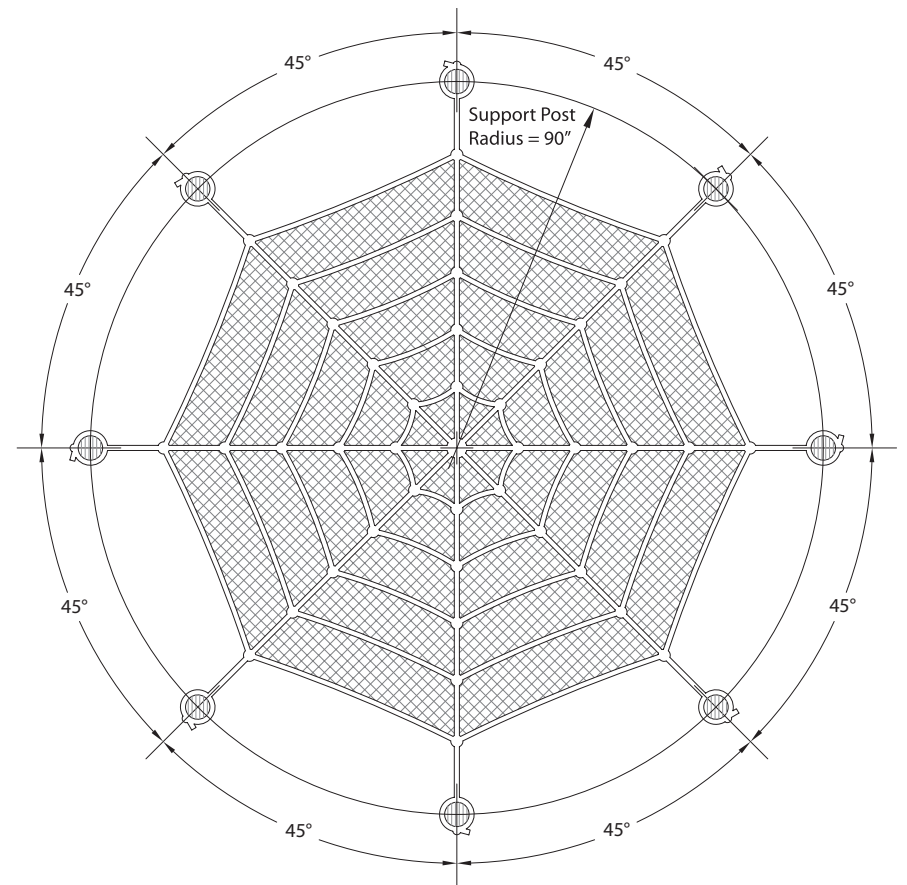
Promanila and polyester ropes should be inspected for cuts or frays that may weaken the function of the net. Contact InCord or your InCord distributor for repair instructions.

Netform wire-rope should be inspected for pulled hardware connections, protruding wire frays and loose cross connectors. Contact InCord or your InCord distributor for repair instructions.

Installation of 12 ft Rope Net

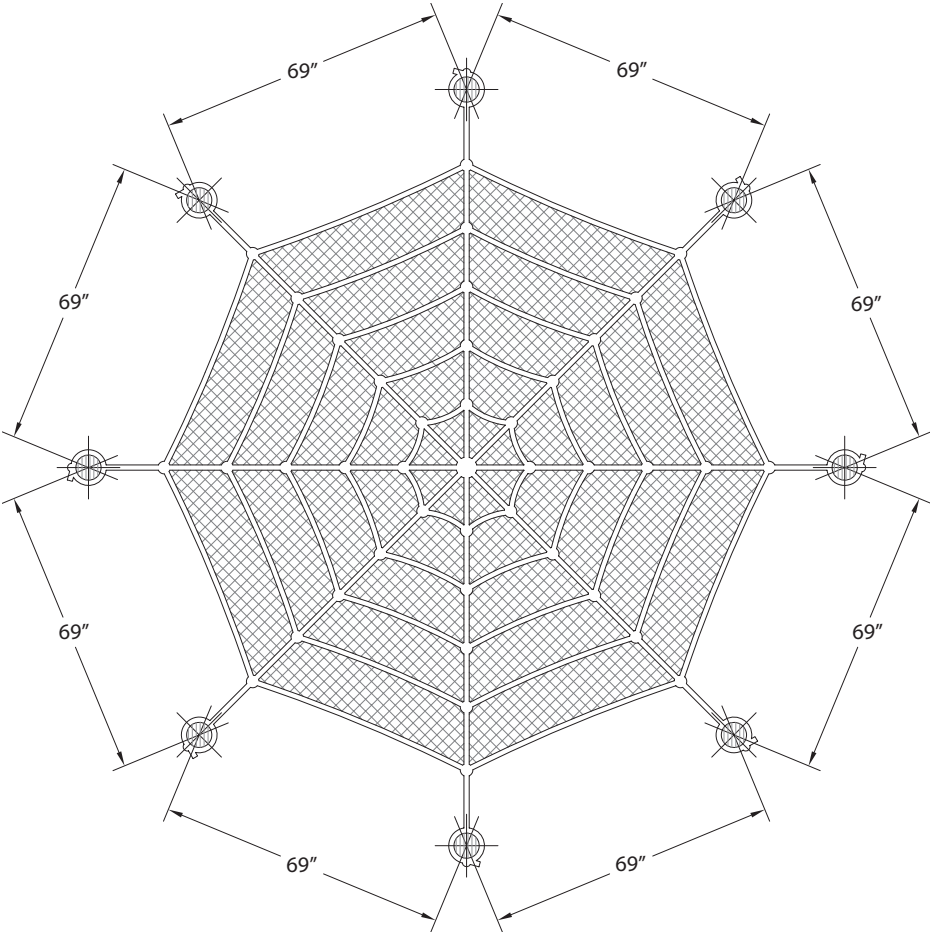


12 ft Rope Spider Web Net with Bed Liner

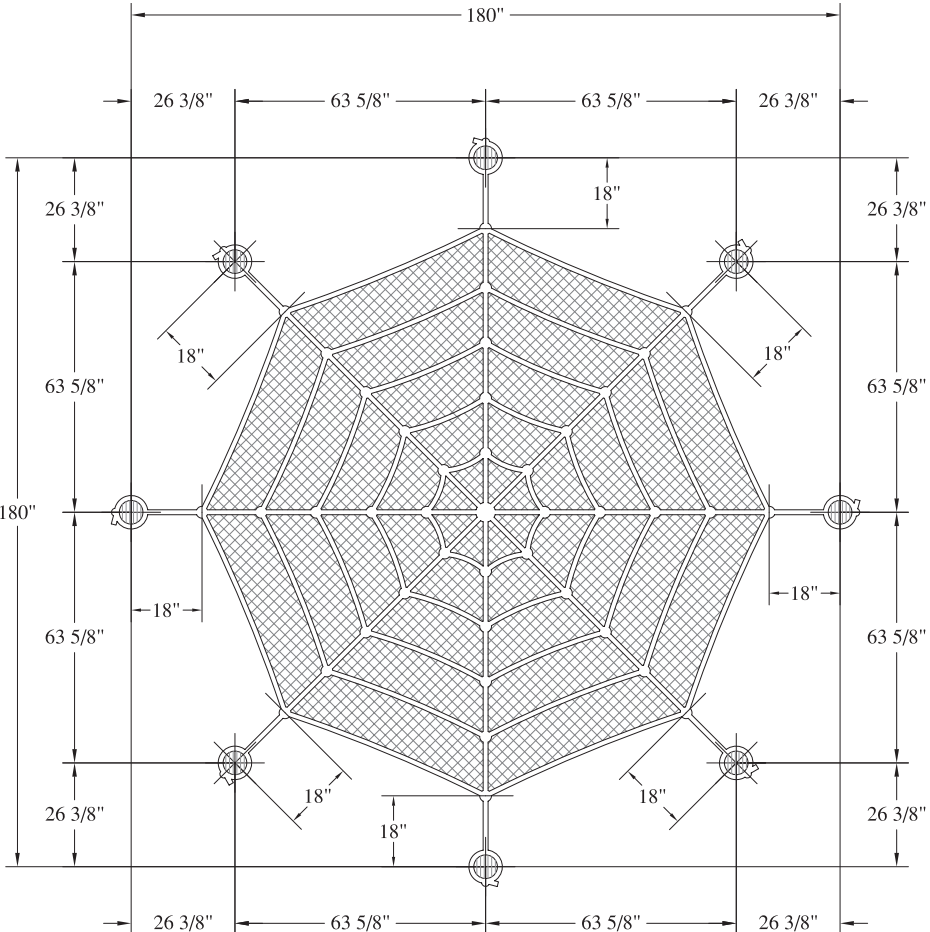


12 ft Rope Spider Web Net and Column Radius

Installation of 12 ft Rope Net

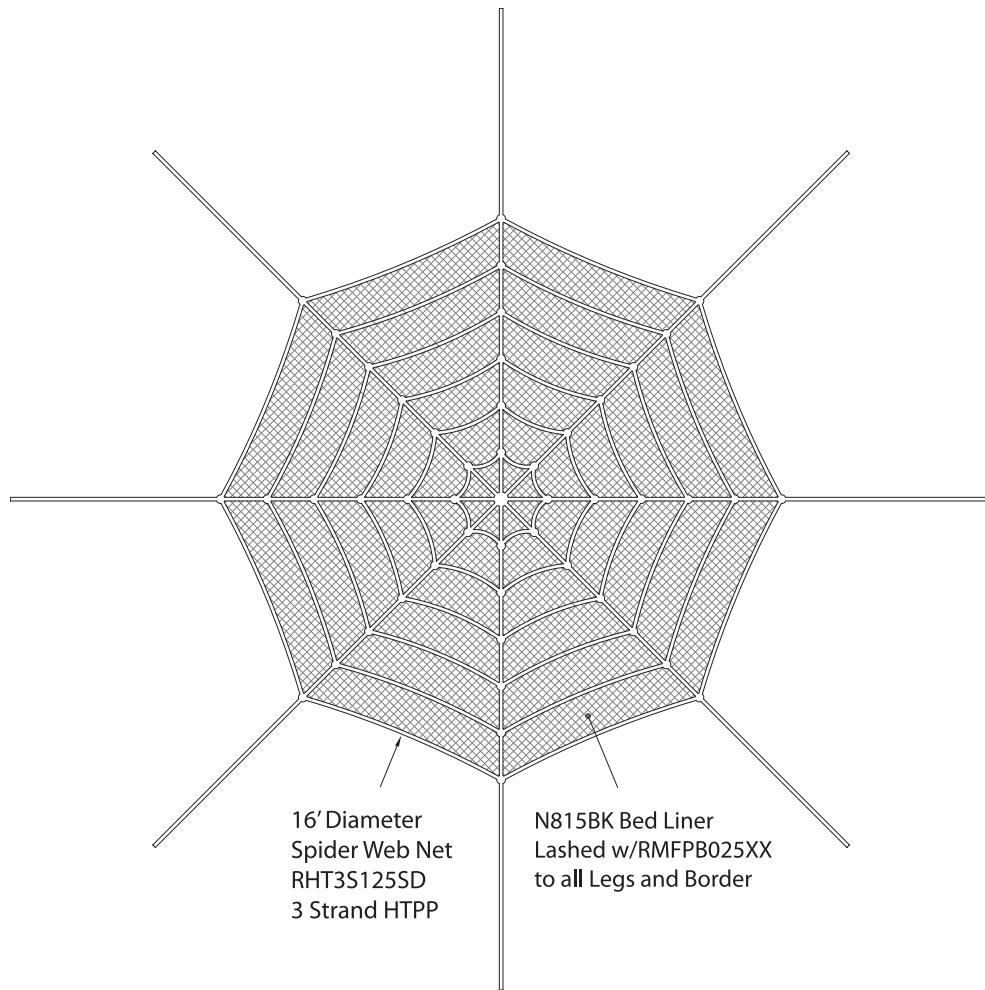


12 ft Rope Spider Web Net Column Spacing

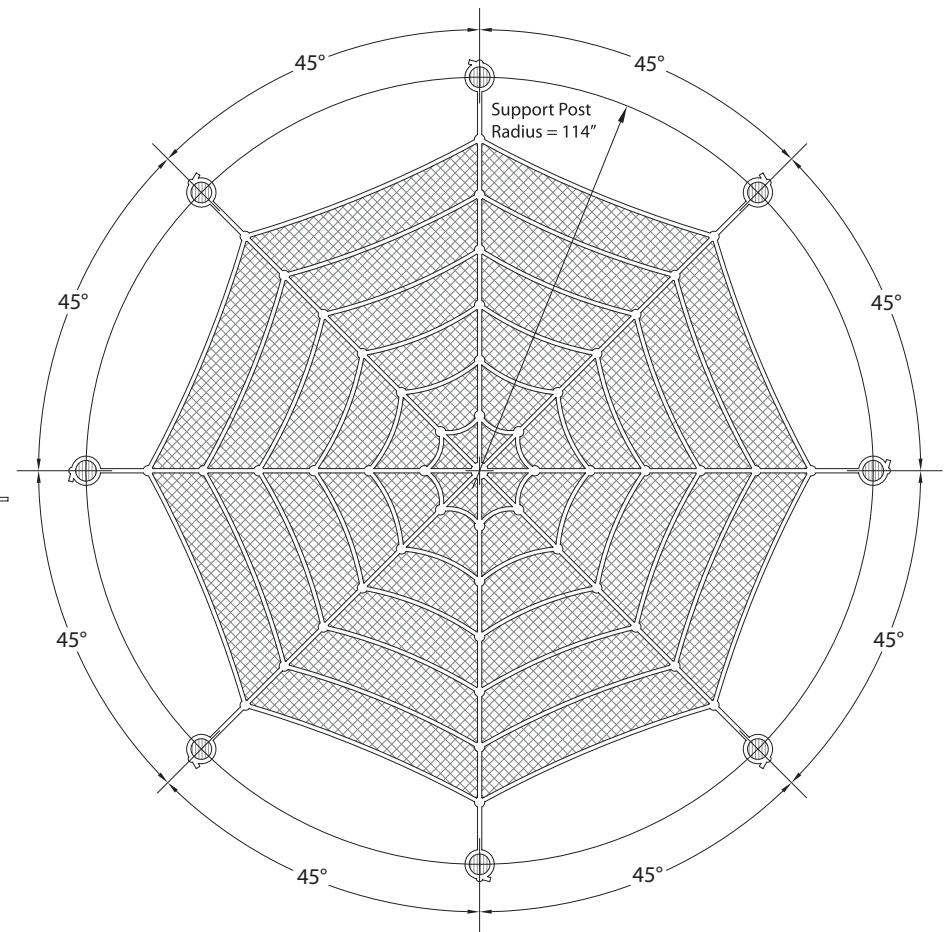


12 ft Rope Spider Web Net Installation Dimensions

Installation of 16 ft Rope Net

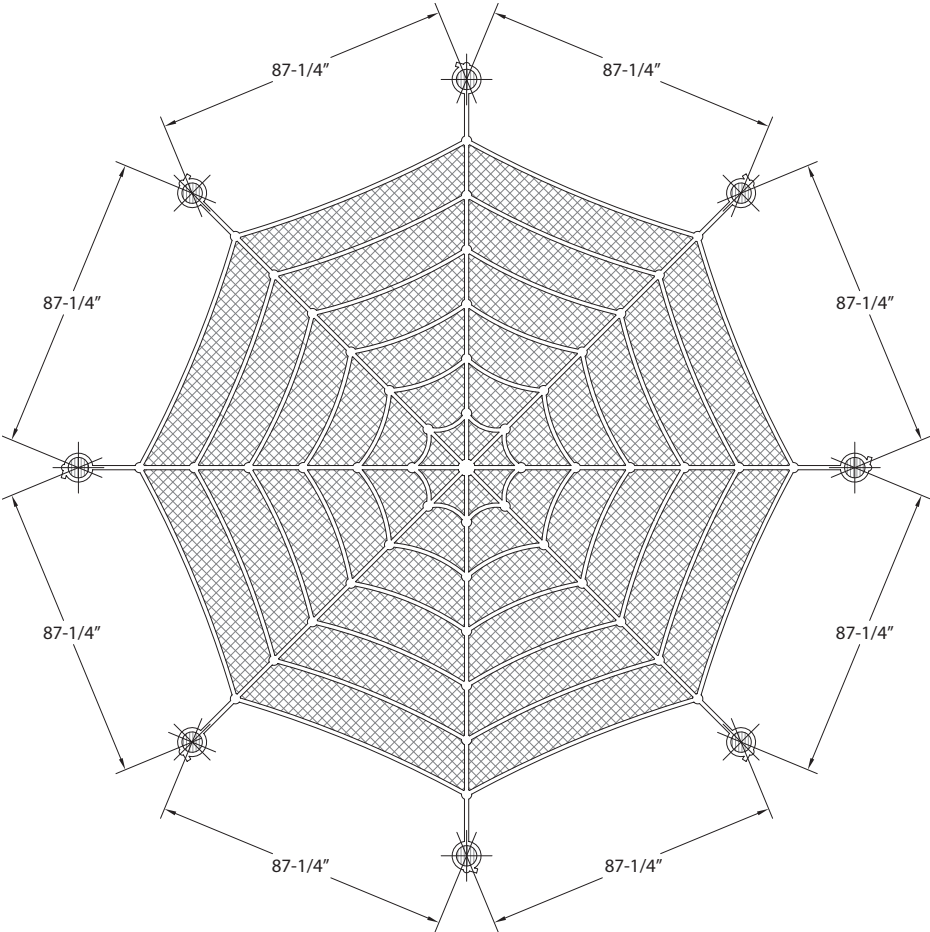


16 ft Rope Spider Web Net with Bed Liner

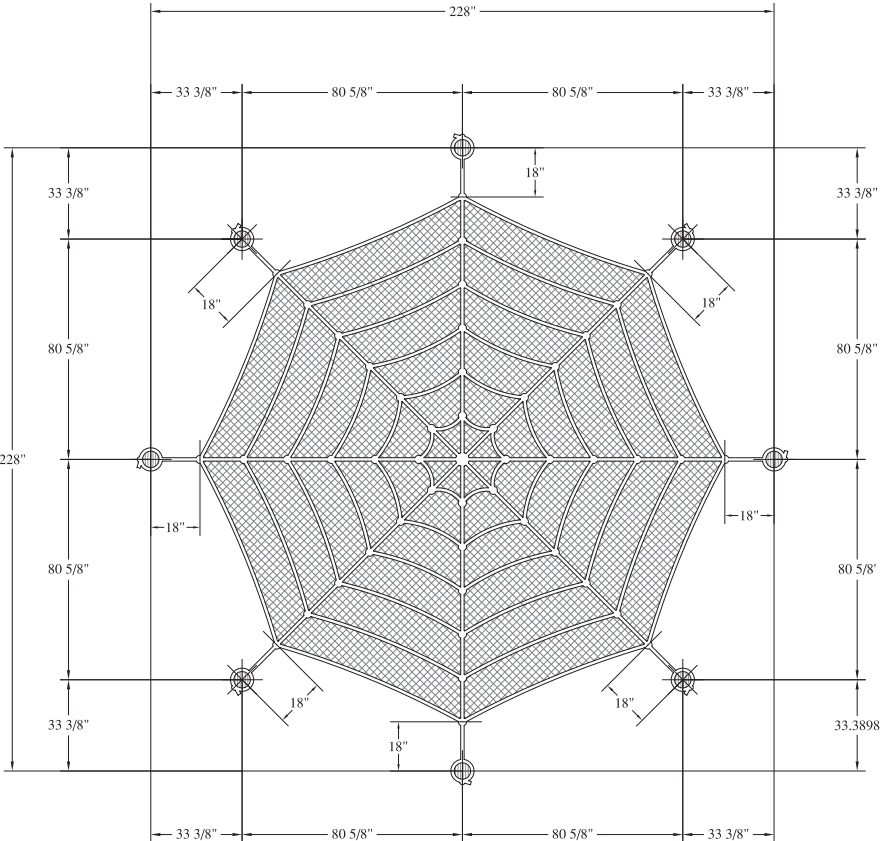


16 ft Rope Spider Web Net and Column Radius

Installation of 16 ft Rope Net

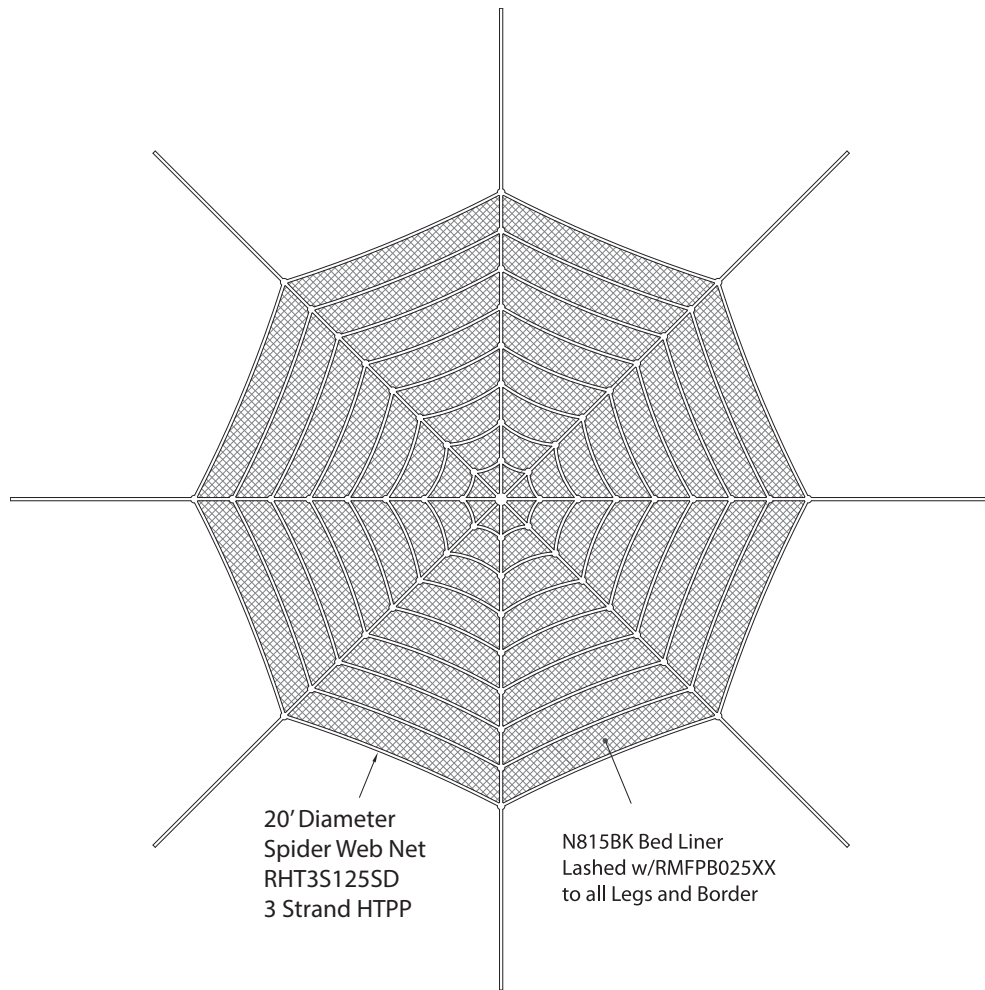


16 ft Rope Spider Web Net Column Spacing

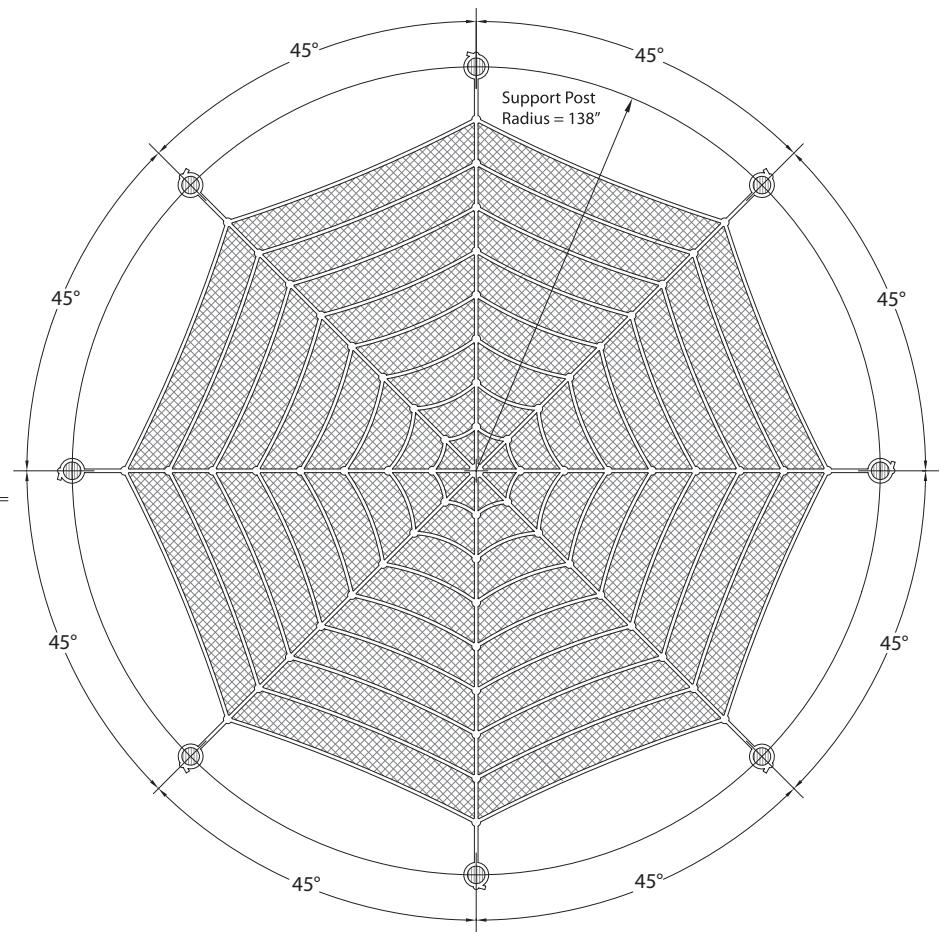


16 ft Rope Spider Web Net Installation Dimensions

Installation of 20 ft Rope Net

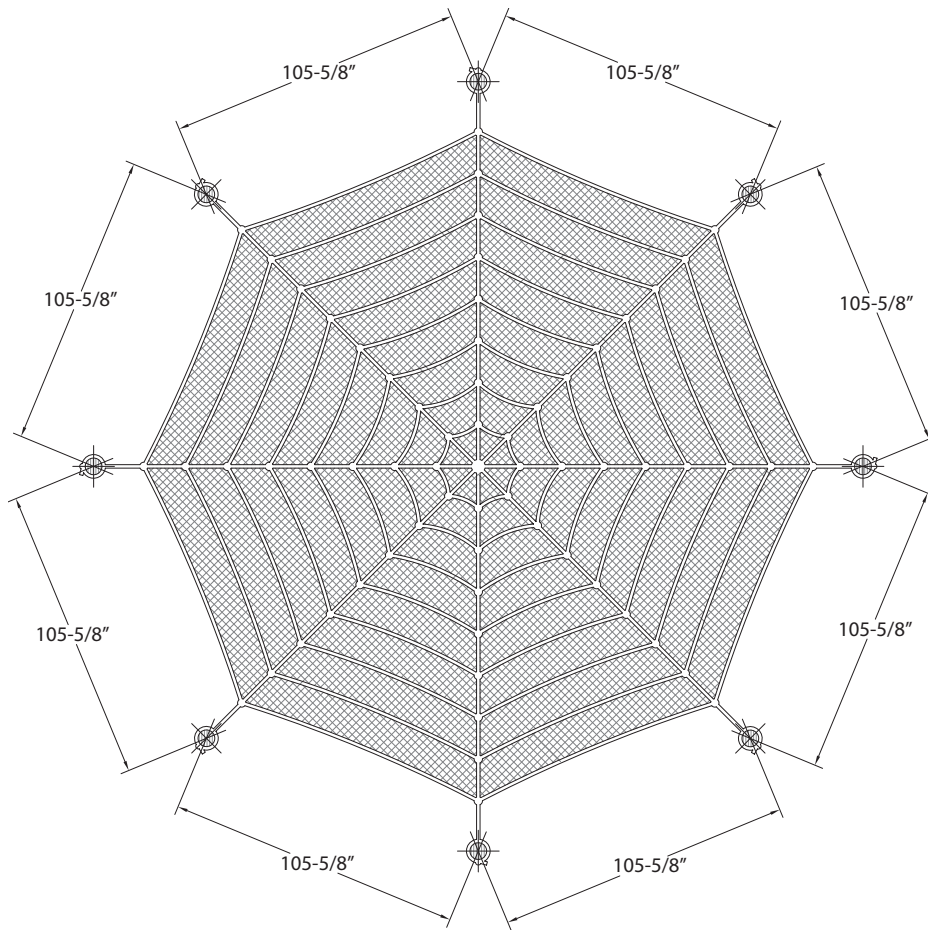


20 ft Rope Spider Web Net with Bed Liner

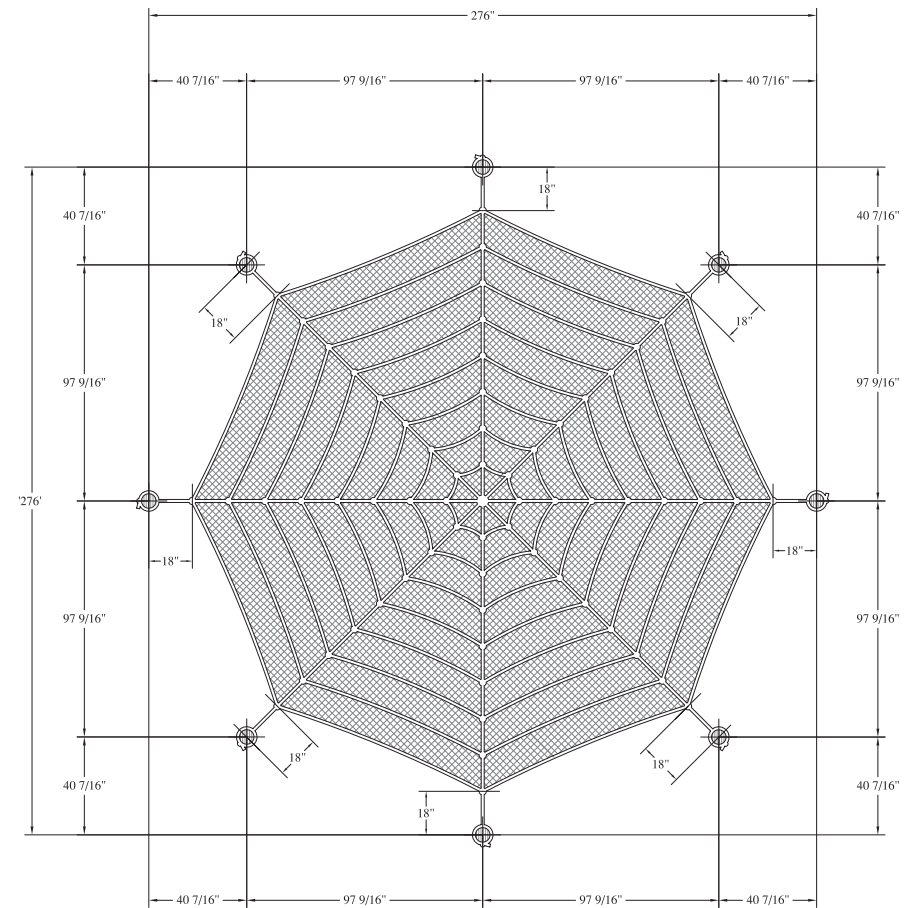


20 ft Rope Spider Web Net and Column Radius

Installation of 20 ft Rope Net

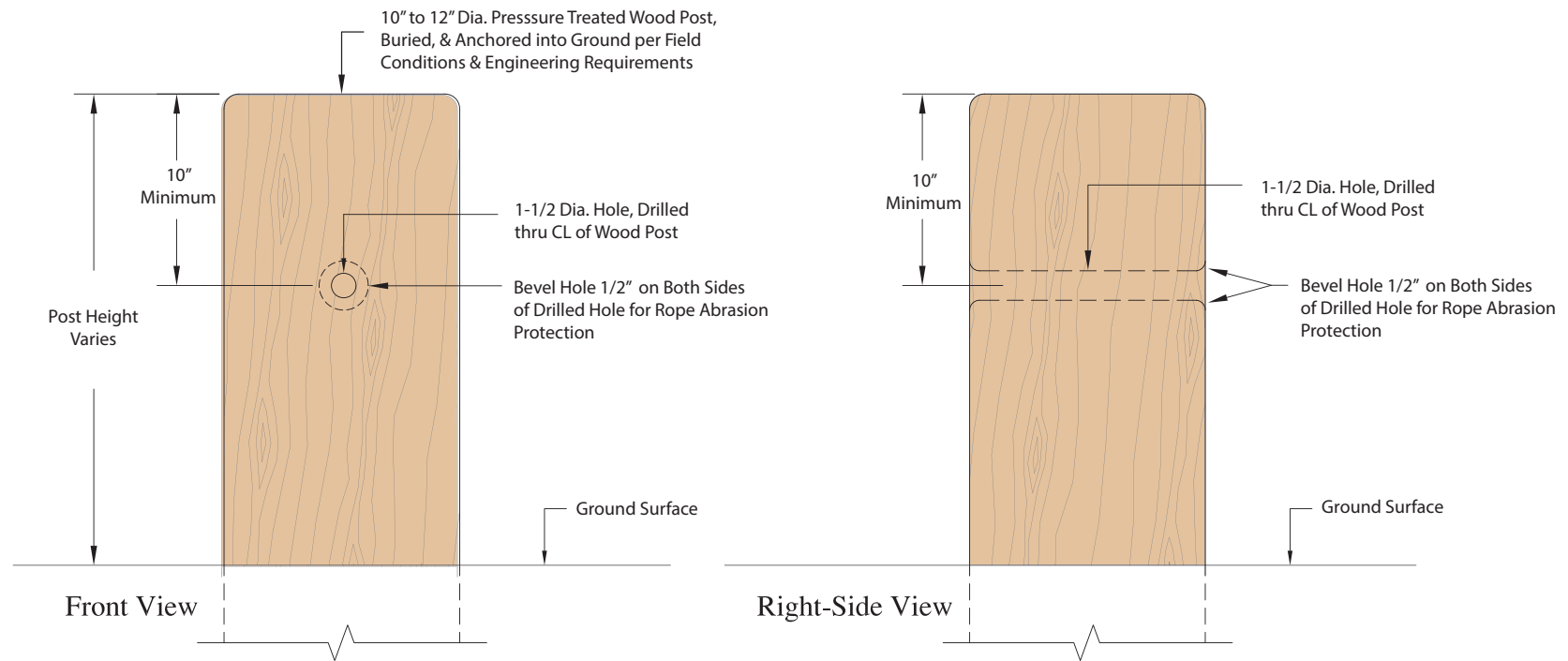


20 ft Rope Spider Web Net Column Spacing

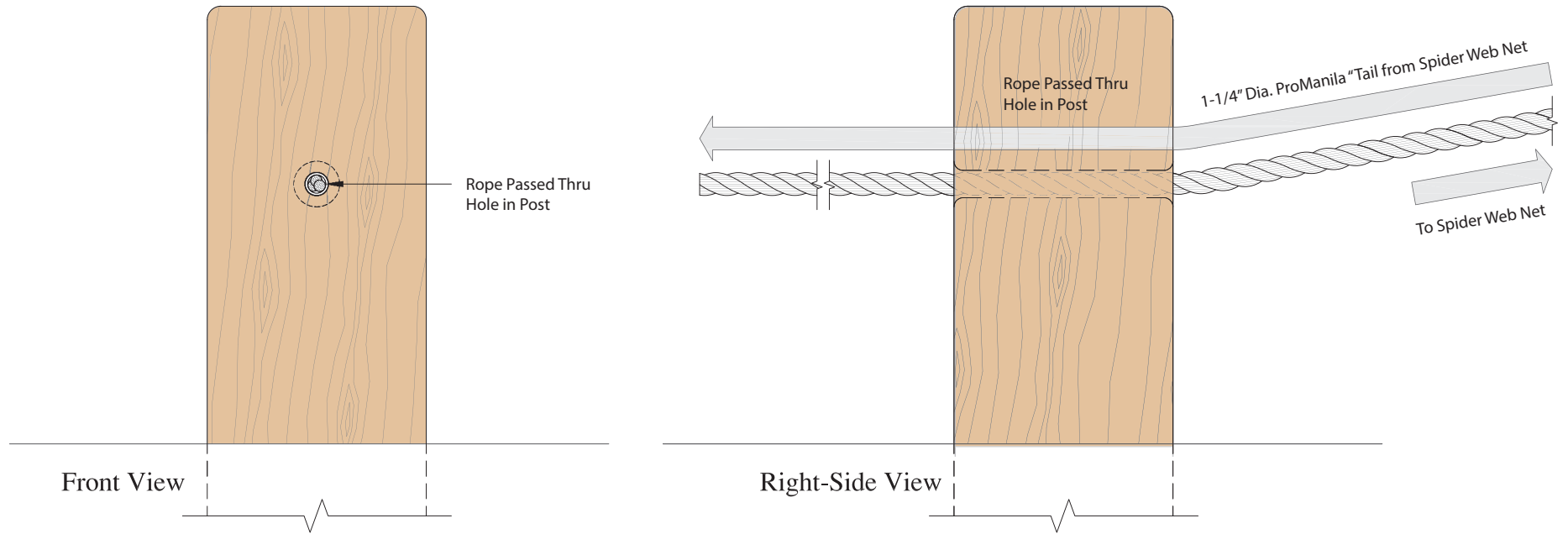


20 ft Rope Spider Web Net Installation Dimensions

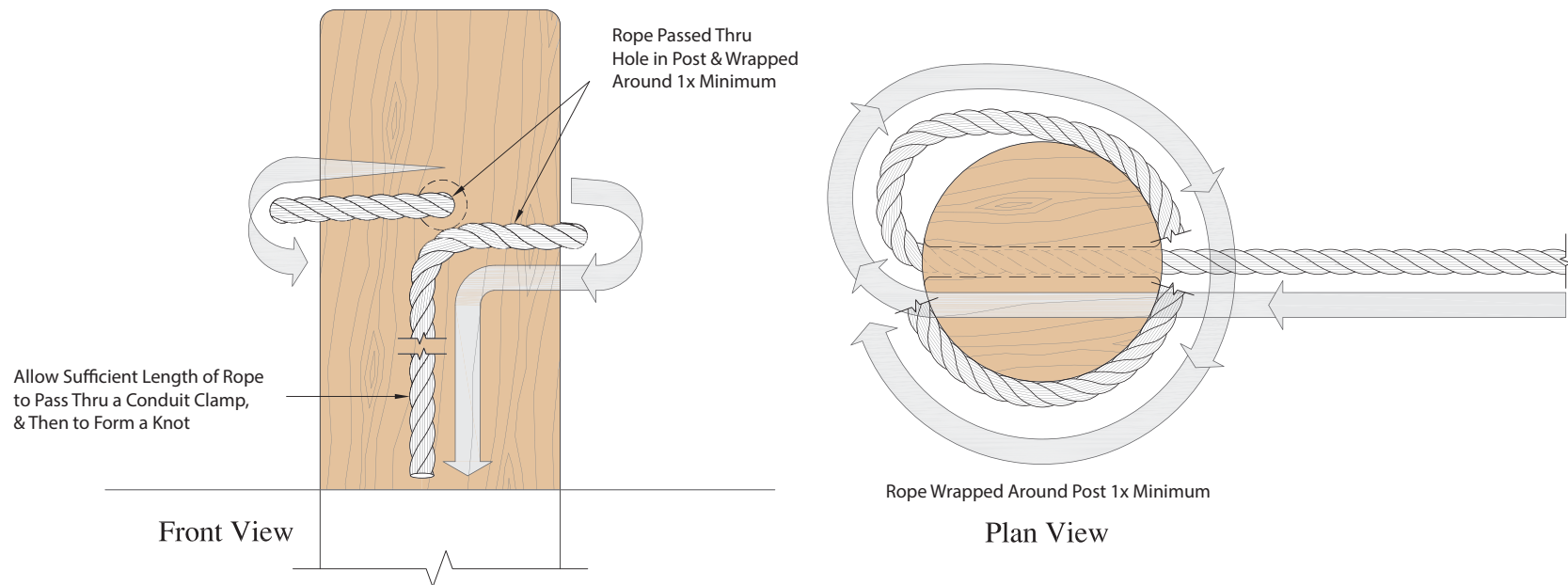
Hole Through Support Column



Rope Through Support Column

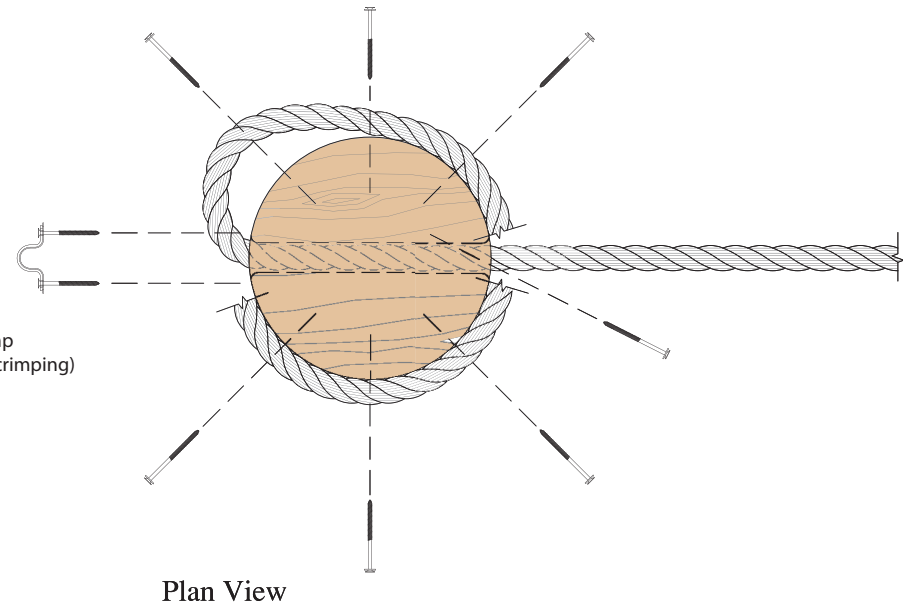
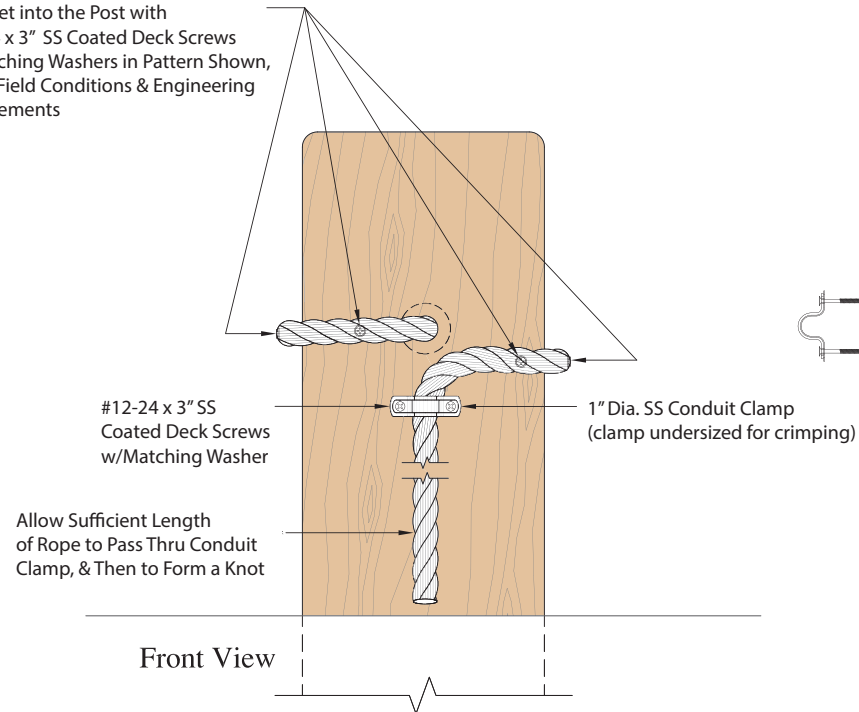


Column Rope Wrap

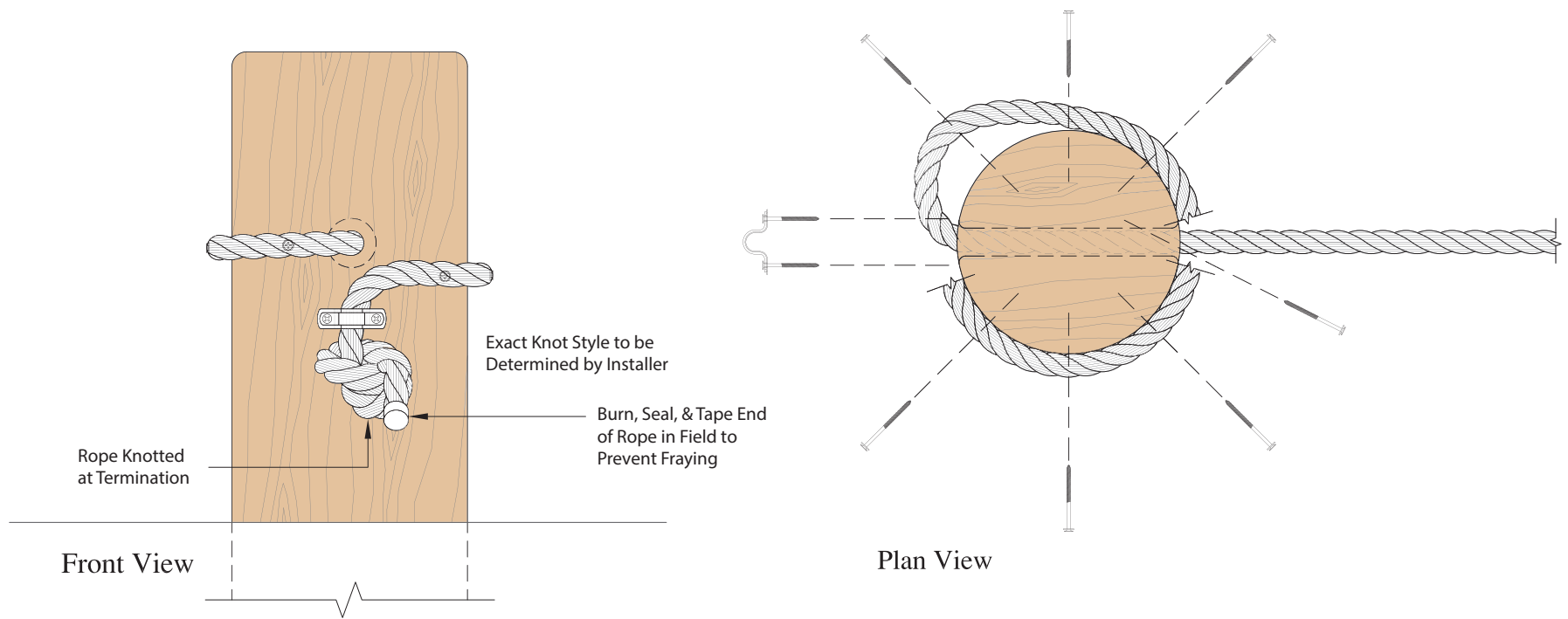


Rope Anchoring with Clamp

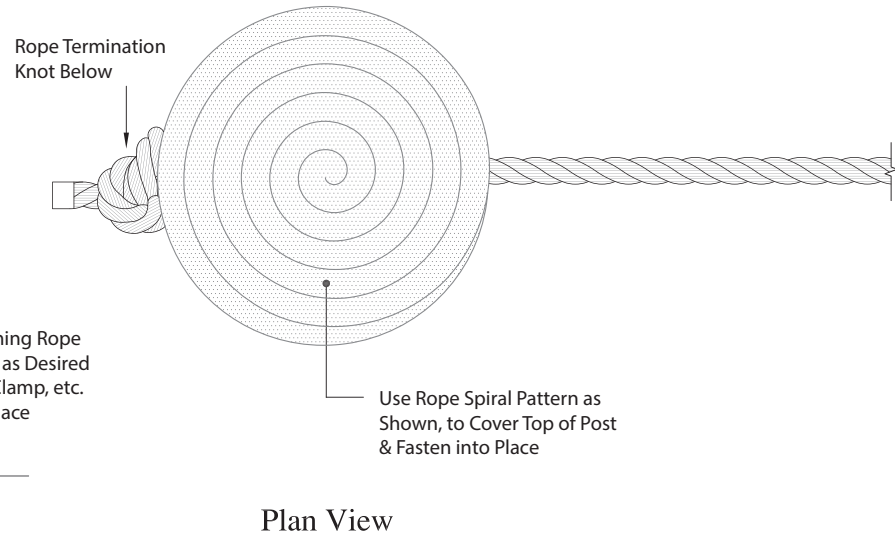
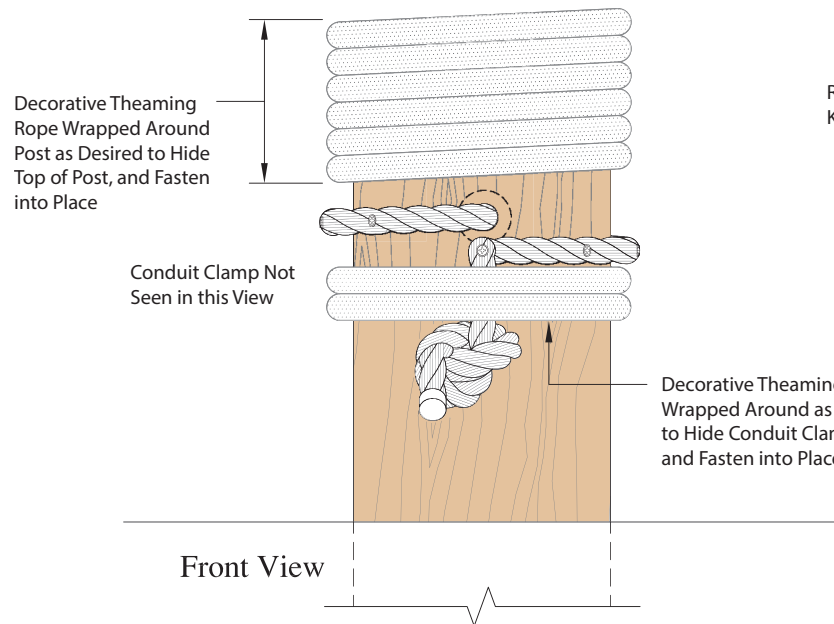
Fasten the Tail Rope from the Spider Web Net into the Post with #12-24 x 3" SS Coated Deck Screws w/Matching Washers in Pattern Shown, or Per Field Conditions & Engineering Requirements



Rope Anchoring with Knot

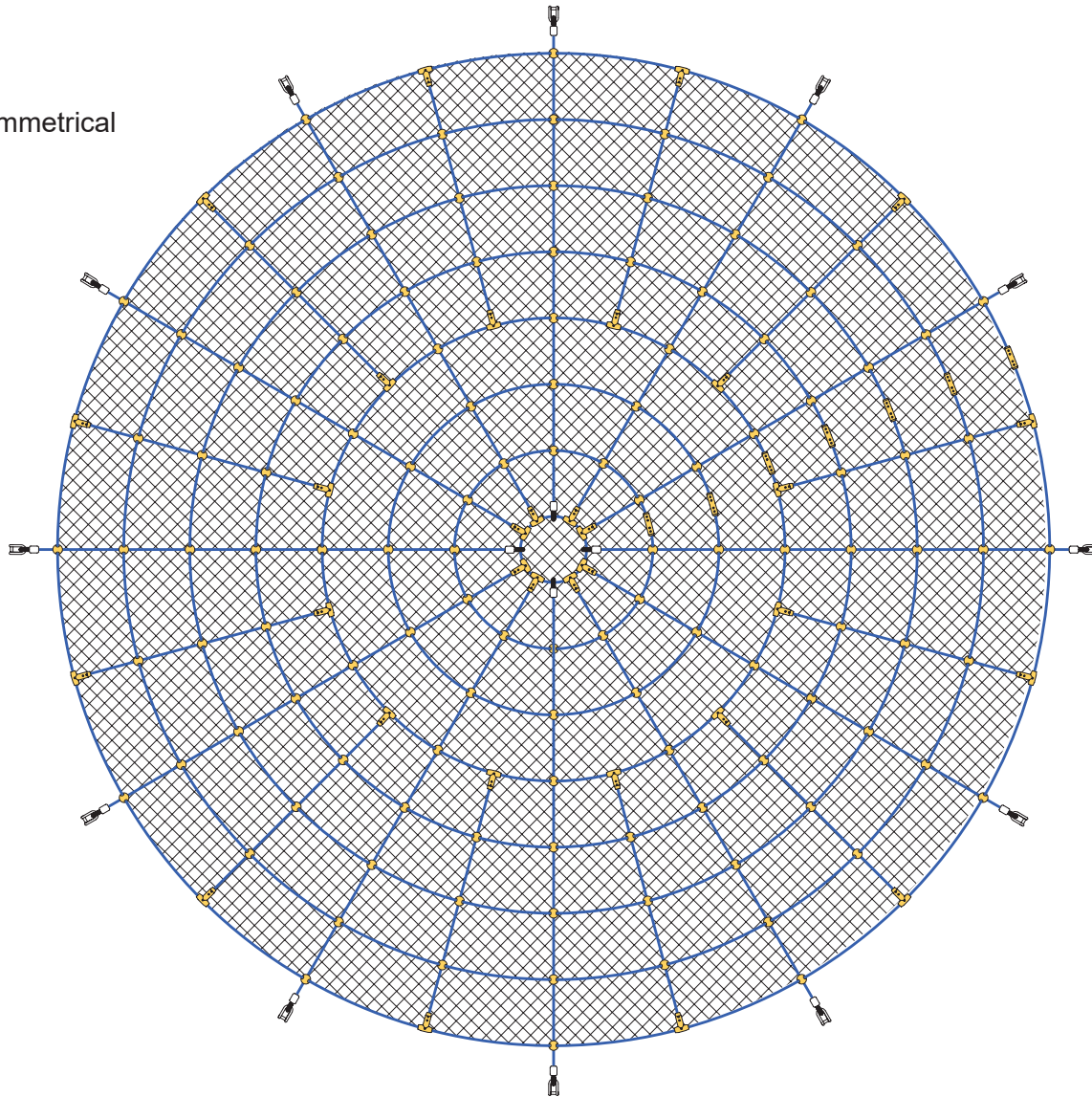


Theme Rope Covering

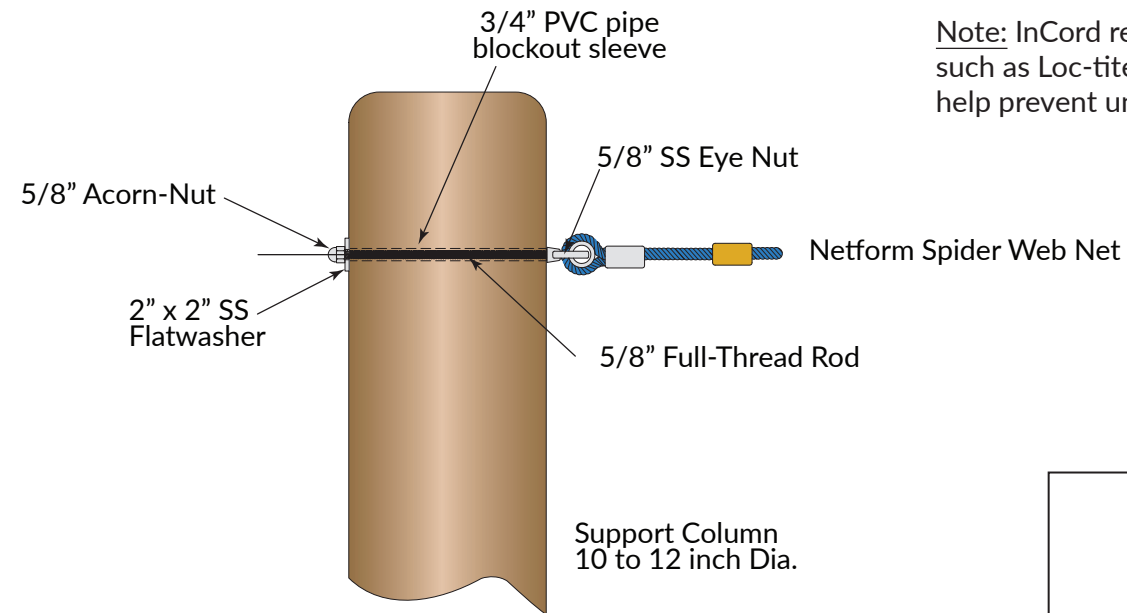


Netform™ Spider Web Net

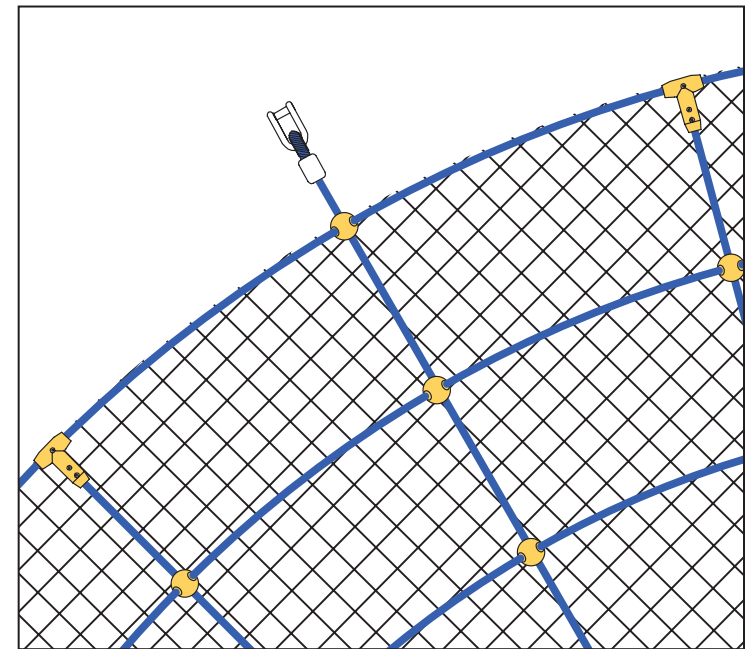
Spider Web Net symmetrical
on all sides



Netform™ Spider Web Net



Note: InCord recommends using thread-locking adhesive such as Loc-tite on the acorn nut and eye nut fittings to help prevent unintentional loosening of the hardware.



This image shows a blank sheet of white paper with horizontal ruling lines. The lines are evenly spaced and run across the width of the page. There are no margins, text, or other markings on the paper.

