

# **WingWall**

## **Site Planning and Installation Guide.**



### **PAGE CONTENTS**

- 1 Introduction**
- 2-6 Suggested layouts**
- 7 Visualization tool**
- 8 Foundation diagram**
- 9 Adjustments and Maintenance**
- 10 Warranty**

## Planning a WingWall Site

WingWalls are designed to be installed in groups of interacting units. When properly placed, a group of WingWalls forms a kind of trapping maze that can be changed from time-to-time by unlocking the base flanges and pivoting the individual WingWalls into new positions.

The grid system shown in the following diagrams allows placement of any number of WingWalls so that they are at the same distance of 34" from each other. The triangular grid is easy to lay out, and is an excellent tool for planning a WingWall installation.

The illustrations on the following pages show some recommended WingWall arrangements. The designs follow a couple of simple principles:

- Every WingWall should be connected on the grid to one or two other WingWalls.
- Do not have three WingWalls grouped together on the corners of a single triangle. This will create a dead-end space that is undesirable.
- Avoid other groupings that will create hidden spaces – for example, don't put five WingWalls on five corners of a hexagon; or across all WingWalls at the six corners of a hexagon. It is best to string them out in an open-ended pattern.

In general, each WingWall should not connect to more than 2 other WingWalls. The one exception is shown in the 4-unit drawing where a central WingWall has three WingWalls surrounding it.

Often, the site itself will suggest the best arrangement. Sometimes there is a shape to the site that dictates how to lay out the battens. In other circumstances, sight-lines are important.

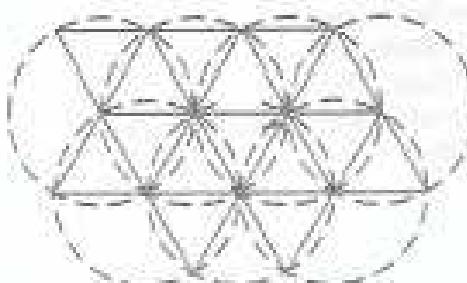
As you can see from the diagrams, as you increase the number of WingWalls, the possibilities increase dramatically. With six WingWalls, there are about 50 different arrangements, and with eight there are hundreds! If you follow the above recommendations, however, almost any pattern will work well.

### Laying out the grid...

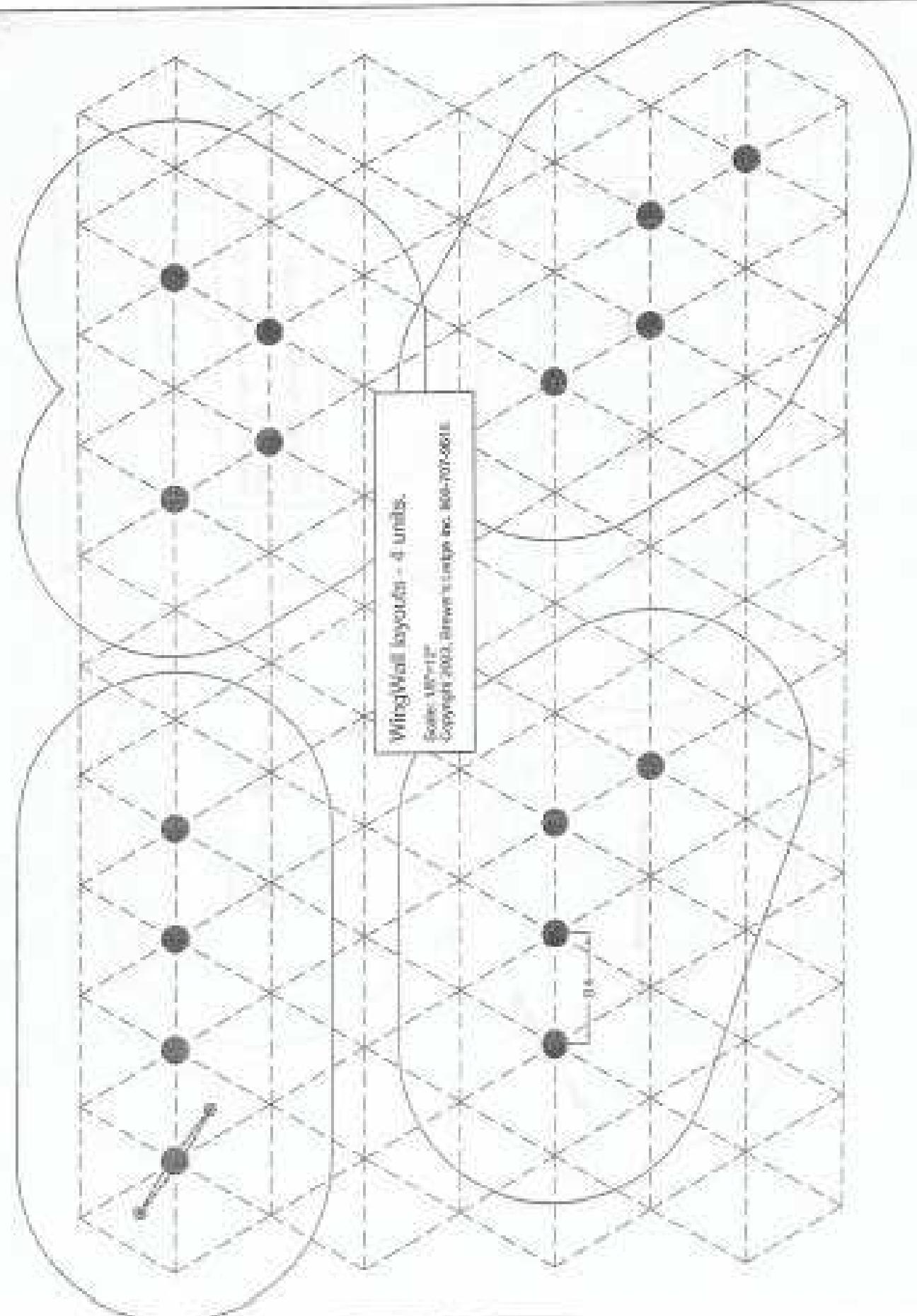
Laying out a triangular grid is very easy using some stakes and a 7 foot long cord with a loop at each end.

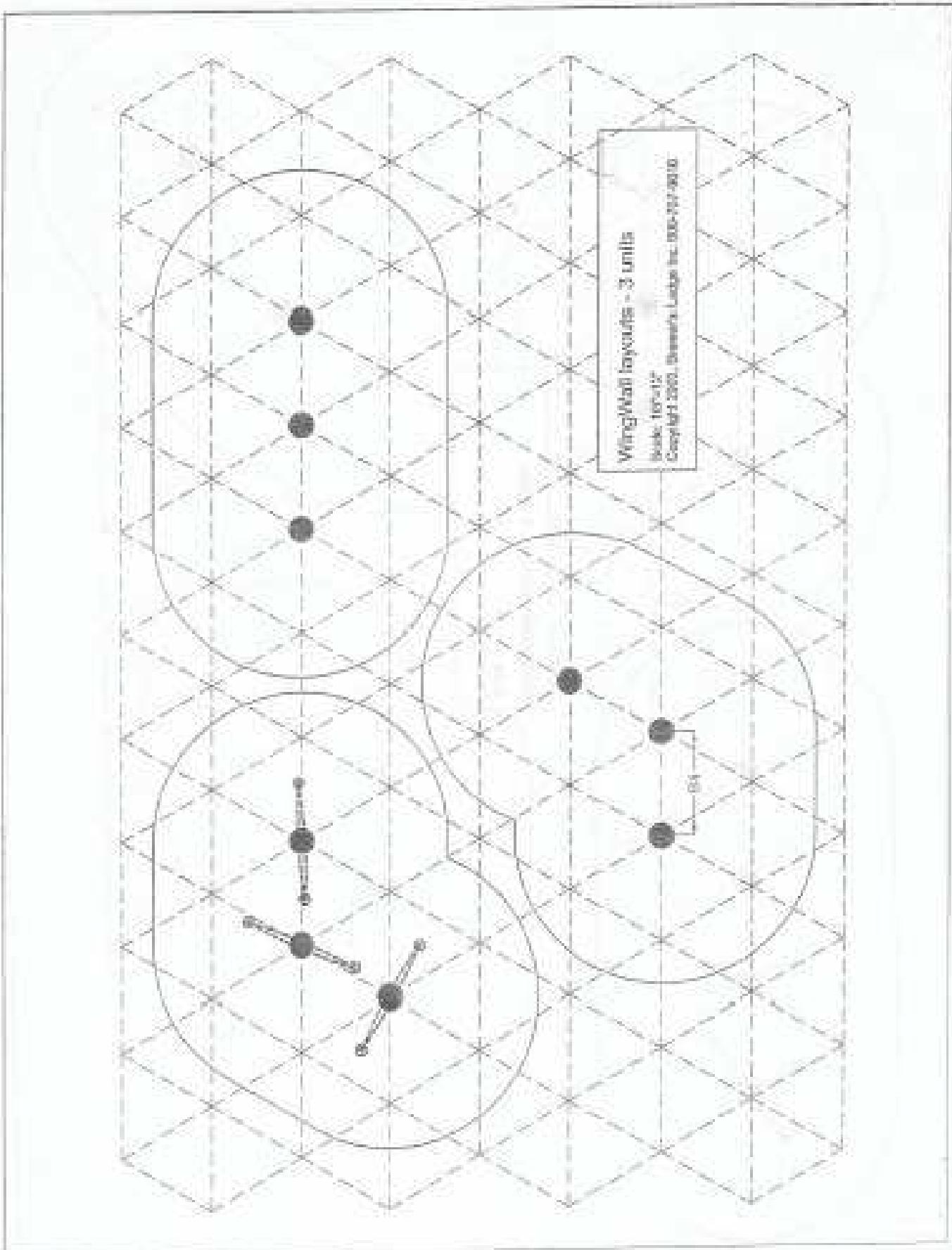
Choose a location for the first WingWall, and put in a stake. Use the string to locate the second WingWall location and put in another stake. Now use the string like a compass to mark circles around both stakes, and where the circles intersect, put in more stakes and draw more circles. As you draw circles, the intersections form the points of your grid.

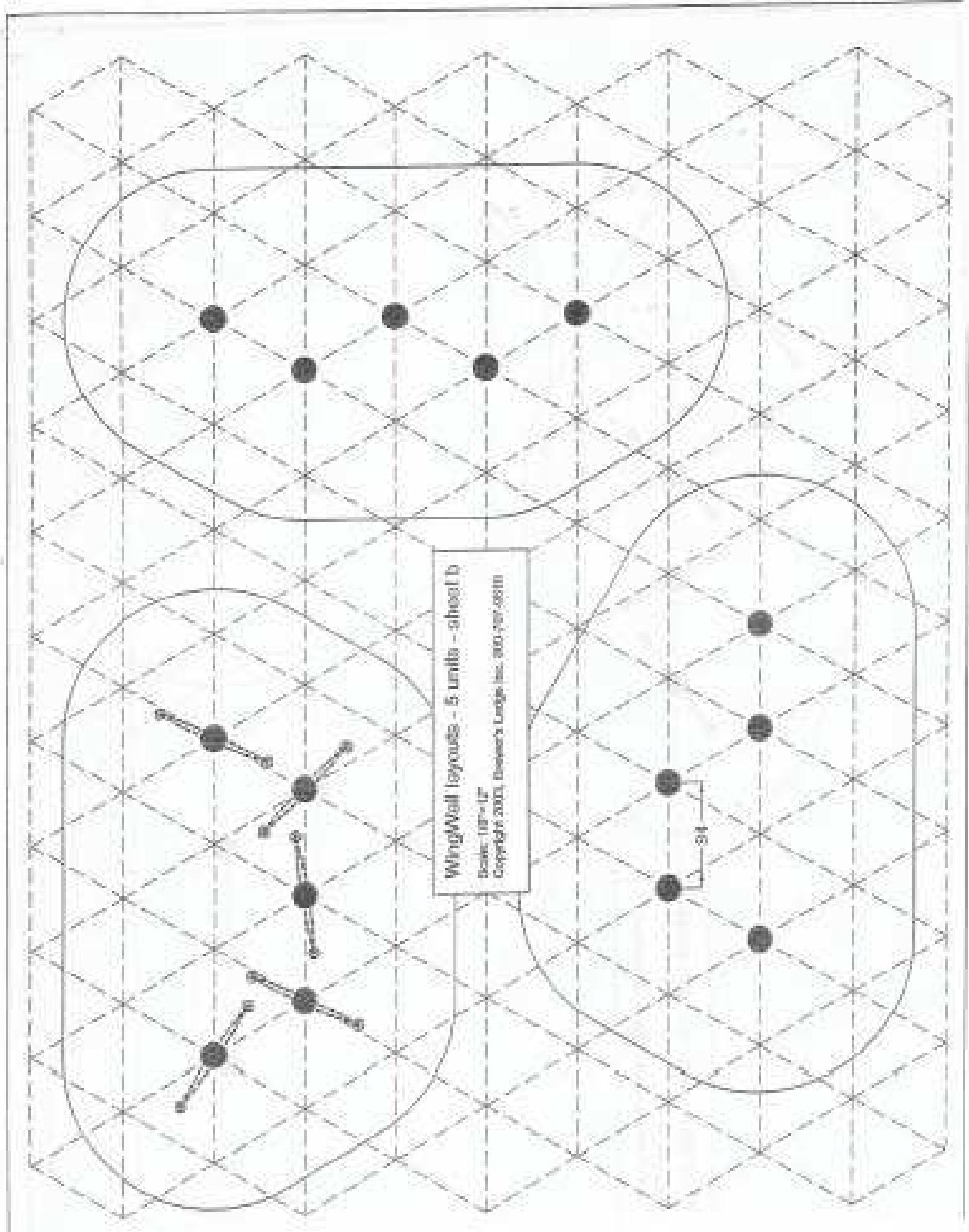
See page 8 of this guide for important foundation information.

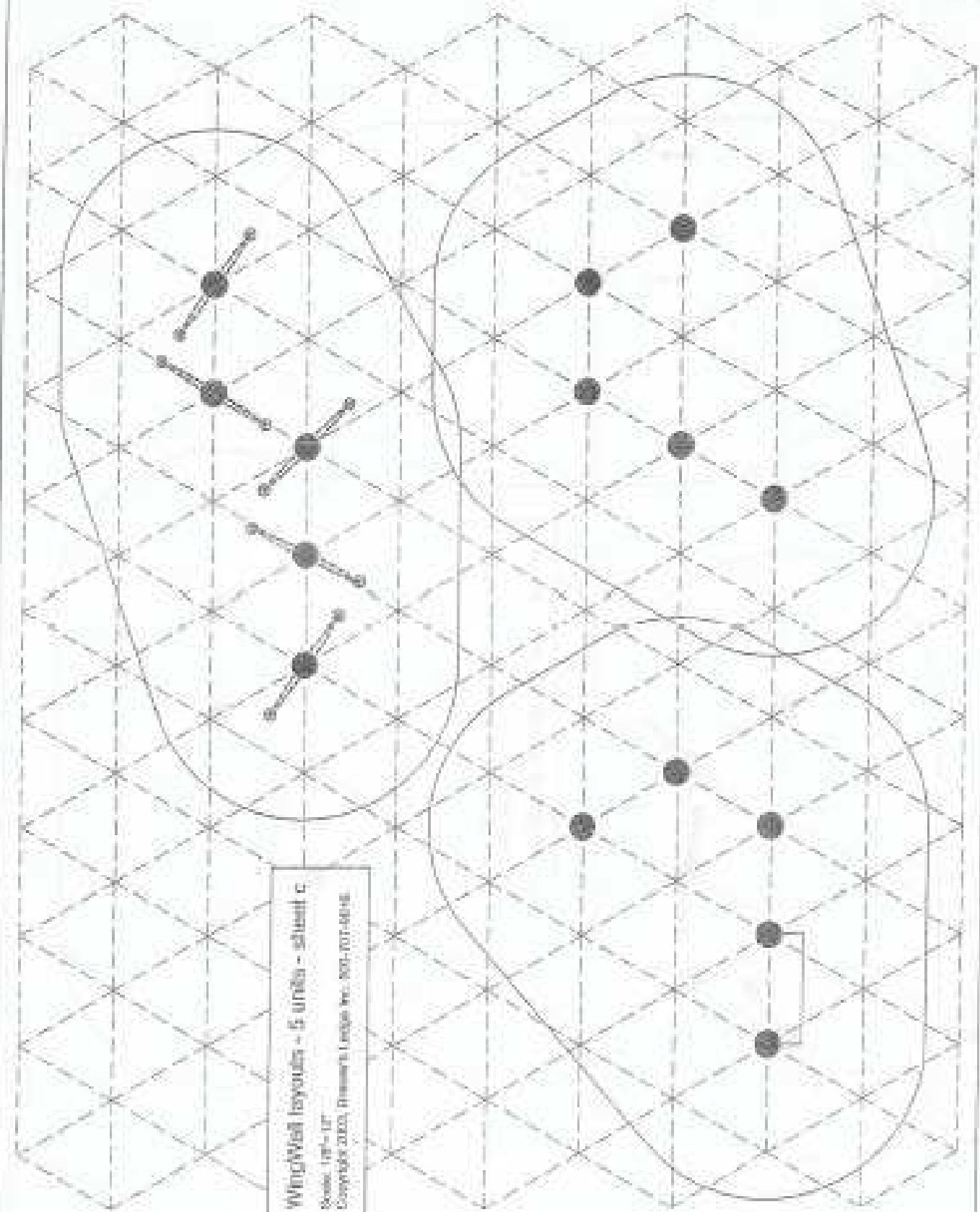


Brewer's Ledge Inc.  
24 Brookley Road  
Boston MA 02130  
(800) 727-3816

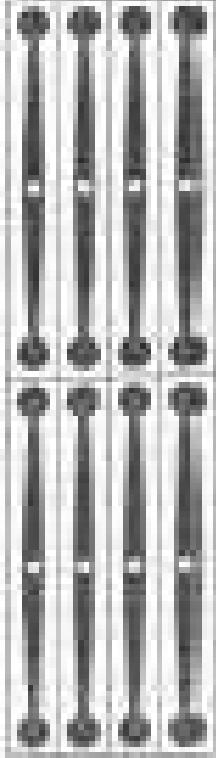




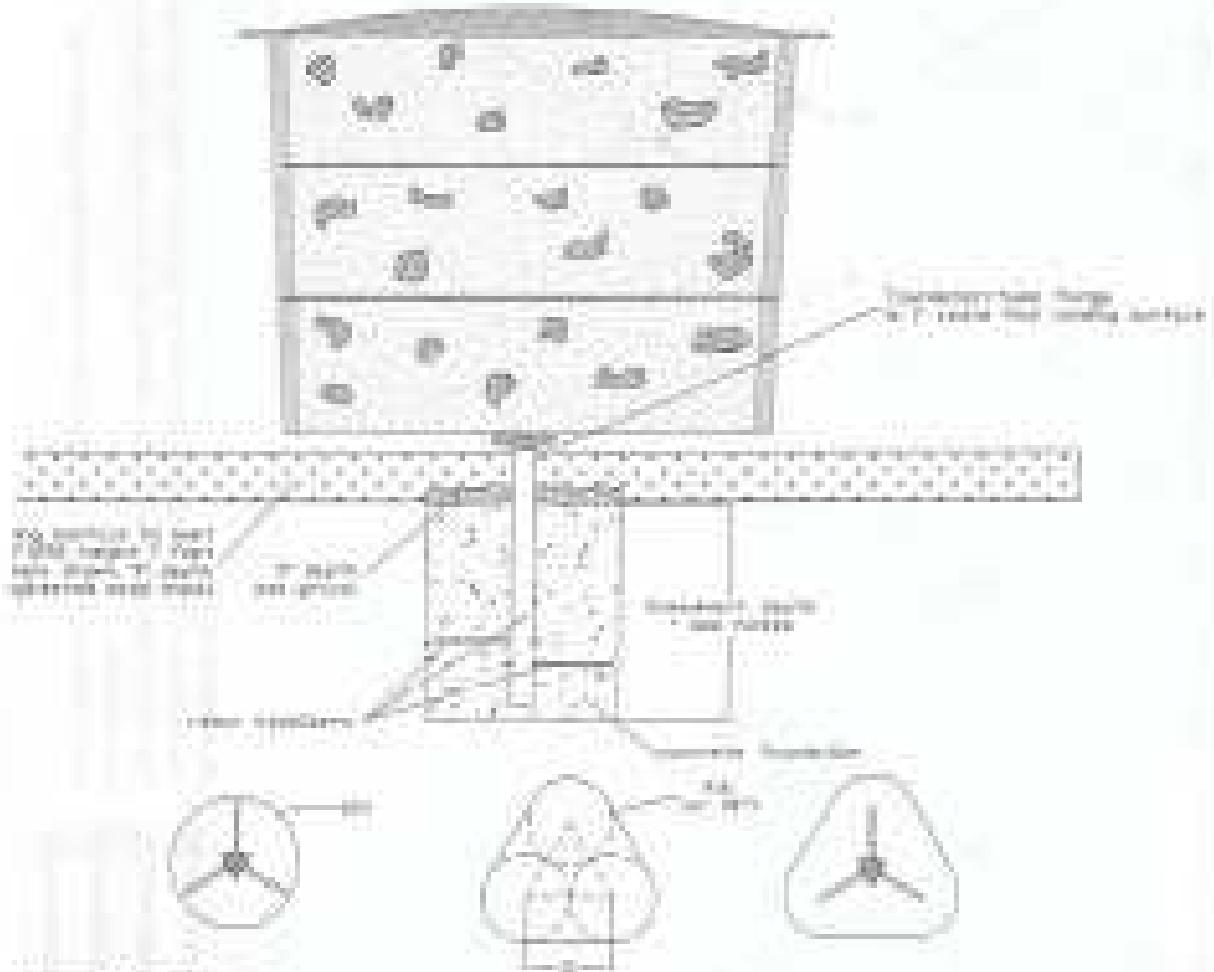




Приятно видеть, как зеркальные камеры и объективы становятся всё лучше и лучше. Их дизайн становится всё более элегантным, а производство — всё более точным. Но не забывайте, что зеркальные камеры — это не просто техника, это стиль жизни.



[www.FourBullets.com](http://www.FourBullets.com)



www.ijerpi.org | 10

The Prolactin- $\alpha$ -helix has a longer insertion than most ( $^{17}$ ) amino acid stretches of the bovine  $\alpha$ -conotoxin. This extra stretch is associated with a striking and rare additional hydroxyl group at position 17. As mentioned, 17% of these changes are expected to prove important. The Prolactin- $\alpha$ -helix is also found mostly in the bovine  $\alpha$ -conotoxin and hence often associated with memory.

The results are from bootstrap analyses done by drawing 40000 bootstraps (20000 for discrete measures) over 30000

Digitized by srujanika@gmail.com

Digitized by srujanika@gmail.com

2012/13 includes the current year's budget and actual. Maximum enforcement of noncompliance would be \$17.5 million less than specified in non-compliance budgets. Current non-compliance is greater. Penalties could increase to about \$100 million if maximum enforcement is imposed. Long-term MCA would not affect non-compliance.

The strengthened rules have been very popular among scholars and students. The original intention of the strengthened rules is to:

and 2010-11 were the last two years of the study period to have been passed under the previous 2009-10 framework. It is not known if this pattern of change will continue in the future.

This function will print summarized stats for each category in your model over 10 different runs. Just like how `lens` does, it will return a `Table` object.

Businesses are the best delivery vehicles for creating change. It is the long-standing role of the business sector. Private greed is just as wrong as public greed.

## WINGWALL ADJUSTMENTS

WingWalls are designed to be adjusted from time to time to bring new excitement to the playground environment.

Two or more WingWalls act as a climbing-traversing "maze". By pivoting the WingWalls, the shape of the maze changes, altering the appearance and the climbing challenges.



To pivot a WingWall, loosen the 8 bolts on the flange at the bottom of the wall, using the special wrench that is supplied with your WingWalls. With the bolts loosened, the WingWall will be free to pivot around the center post. After adjusting the angle, re-tighten the bolts. Adjust the spaces between adjacent Wings so that climbers can move from Wing to Wing, but not so close that they can't move around the ends to the other side. Good spacings vary from 1 to 3 feet.

The hand and foot holds on a WingWall can also be moved around or rotated to provide new challenges. The holds are removed or loosened using the special Allen-wrench provided.

The holds on a WingWall have a unique "LedgeLock" system to prevent them from rotating. Each hold has a number of recesses on the bottom surface, one of which lines up with a projection on the WingWall itself. Make sure that the hold is properly aligned so that one of the recesses is lined up with the projection before tightening the hold firmly.



## WINGWALL MAINTENANCE

WingWalls are carefully constructed of highest quality materials and require minimal maintenance. The wall should be checked for loose parts on a regular basis. In particular, check the climbing holds to make sure none have loosened-up. Also visually check the climbing holds for any damage from abuse or vandalism. The flange bolts at the base of the wall should be kept tight enough so that the WingWall cannot be pivoted.

## LIMITED WARRANTY

All WillyNet components are warranted as below against failure caused by material defects or defective workmanship.

This warranty does not cover damage (even to excessive wear, color loss, vandalism, theft, parts not installed or applied according to the Seller's instructions, system defect, or negligence).

Upon presentation of a claim, the Seller will at its discretion repair or replace parts covered defective according to the schedule below. The Seller shall be the sole judge of the warranty claim and at its discretion, and written notice to customer may require return of the defective product to the point of manufacture.

The warranty period shall begin on the date of invoice. All materials of parts repaired or/and replaced shall be warranted for the balance of the original limited warranty only.

The Warranty covers the following parts for a period of 10 years:

- Aluminum handle rings
- Galvanized steel structures and flanges
- PolyGlossy molded plastic surfaces
- Holes

The Warranty covers the following parts for a period of 3 years:

- All threaded inserts and hold locking systems:
  - For the initial 1<sup>st</sup> year, the seller will deliver replacement parts, free of charge, at the customer's address, excluding labor.
  - For the balance of the limited warranty, the seller will repair or replace, free of charge, parts FOB point of manufacture, excluding labor.

The Buyer will not accept the return of any item without prior written approval. The Seller will not be liable for any damage to equipment or property resulting from the use of products or the installation of replacement products covered under this warranty.

Except as provided herein, the Seller makes no express warranties, implied warranty of merchantability or fitness, for a particular purpose is limited to duration of the written limited warranties set forth herein.

In no event shall the Seller be liable for any special, incidental, or consequential damages based on breach of warranty or contract, negligence or any other legal theory. Such damages include but are not limited to, loss of use of the equipment or any associated equipment, the cost of rental, the cost of substitute equipment, facilities or services, the claim of third parties, including customers, and injury to property.

This limitation does not apply to claims for personal injury, where such liability would be in violation of the applicable law. Some states do not allow the exclusive limitation of damages, so the above limitation of liability may not apply to you.