

GS-W4001

PARTS CHECK LIST

NO.	Name	QTE	Description	Size	Material	Remarks
1	MP139	4	MAIN POST	Φ139.8 X L4200	Galvanized Steel	UV polyester powder coating
2	RC22	1 SET	MULTI COMPOUND ROPE	Φ22, Φ20	Nylon	
3	NCP150	4	PLASTIC POST CAP	Φ150 X H90	MC Nylon	
4	TB50	8 SET	TURN BUCKLE(GS-T82)	Φ50	Galvanized Steel	
5	ACS78	8	ANCHOR SHACKLE	M22	Galvanized Steel	
6	SP185	4	SHOCK PROOF RING	Φ185 X 12T	Rubber	
			BOLT,NUT			
7	TBHT22	16	H/T BOLTS	M22 X L110		turn buckle assembly
	TBNU22	16	NUTS	M22		
	TBWA22	16	WASHERS	M22		
	TBSW22	16	SPRING WASHERS	M22		
8	PCUB12	8 SET	U-BOLTS	M12	Stainless Steel	post cap assembly
			BASE			
9	MPP	4 SET	MAIN POST PLATE	300 X 300	Galvanized Steel	
10	L-B78	16	L-ANCHOR BOLTS	M22 X L500	Galvanized Steel	
	L-N78	32	NUTS	M22	Galvanized Steel	
	L-SW78	16	SPRING WASHERS	M22	Galvanized Steel	
	L-W78	16	WASHERS	M22	Galvanized Steel	
11	ACP	8	ANCHOR PLATE	600 X 200	Galvanized Steel	
10	L-B78	48	L-ANCHOR BOLTS	M22X L500	Galvanized Steel	
	L-N78	96	NUTS	M22	Galvanized Steel	
	L-SW78	48	SPRING WASHERS	M22	Galvanized Steel	
	L-W78	48	WASHERS	M22	Galvanized Steel	
12		1	TOUCH UP SPRAY			

Safety Checklist after first assembly

● Test intervals of Safety: 6 months

● Test Component and contents:

1. Removing the reticulated system:
 - Check of removing condition each rope
 - Screwing the turn buckle and conversion the turnbuckle in anchors plate(see for this workstep turnbuckle assembly)
2. Abrasion condition of rope:
 - Checking of all rope surface
3. Strengthened of rope: Coating on the surface
 - Attachment condition of the anchors plate and turnbuckle
4. Screwing condition of all bolt
5. Galvanizing condition of the steel component:
 - Protection of steel component from corrosion.

● Measure

In case of the appearance the defect detail is repaired usually within 3 days after checking.

GSWeb Playground Equipment

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Features

The series is a quadruple pyramid-style climbing structure featuring four climbing nets joined together. This configuration has the four nets joined in a square with netting and rubber surface in the middle. It is made of steel-loaded Nylon cables with UV guard and the landing surface is textile-reinforced flexible rubber material.

The GS-W4001 features **GS Web Technology** which includes the highest steel content and the strongest connection materials in the industry, including a steel-wire core in our edge ropes and connection points crushed in place with over 75 tons of pressure to ensure long life of the games and maximum safety for the children.

GS web Nets help bring movement, balance, exercise and fun back into the playground

Ages: 3 to 8 years
Capacity: 128 children
Size: L: 42' 8" / 13.00m
W: 42' 8" / 13.00m
H: 12' 10" / 3.90m
Use zone:

L: 52' 6" / 16.00m
W: 52' 6" / 16.00m

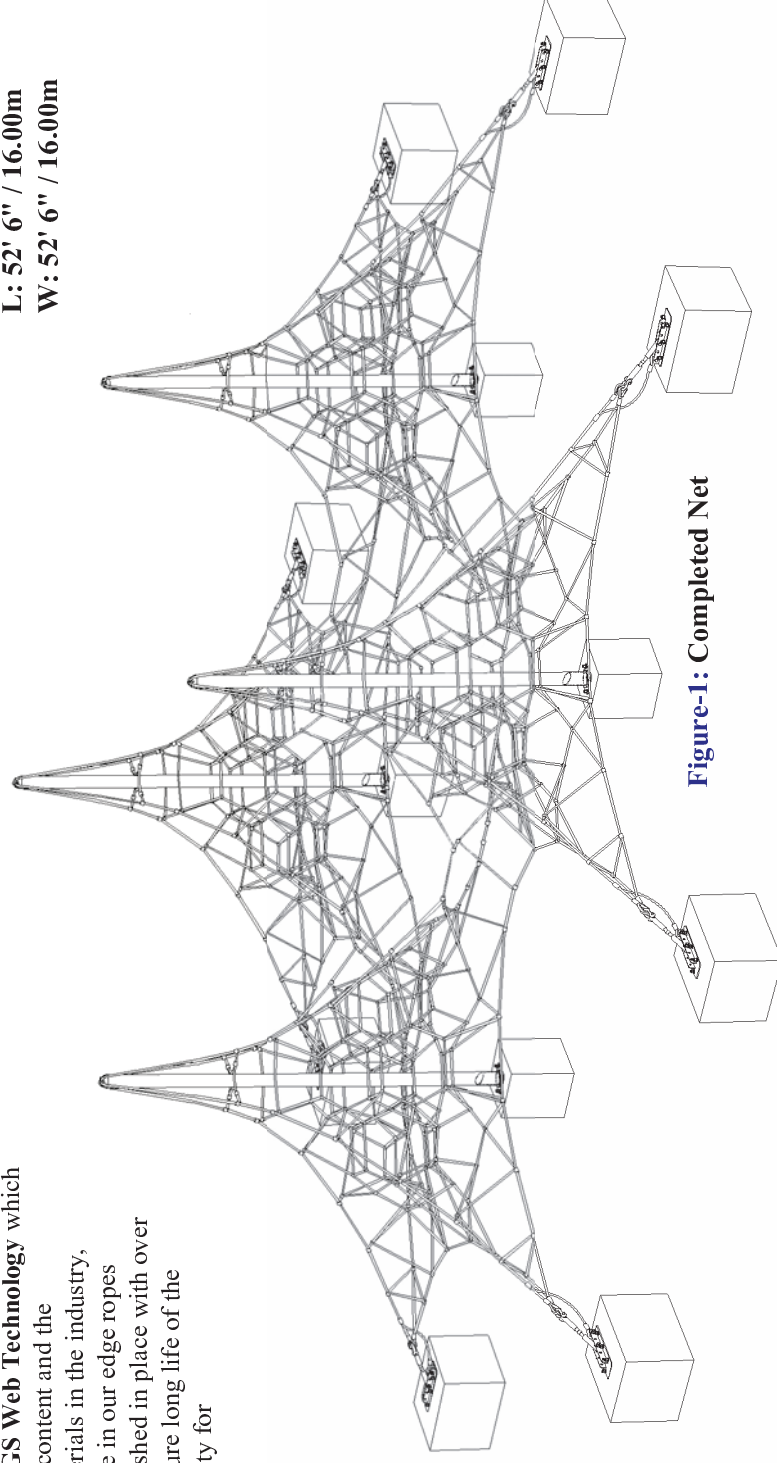


Figure-1: Completed Net

Safety area

The requirements for space and safety clearances are taken from BS-EN 1176-1 / ASTM-F1487 / CSA Z614
 The use zone for stationary play equipment shall extend no less than 72 in.(1830mm) from all sides of the play structure.

Fall Height : (a) 4' 11" / 1500mm (Height from surface)

The Fall height on the external surface of a pyramid shaped space net is the highest point attainable within a horizontal distance of **(b) 44" / 1100mm** from the edge of the structure where a free fall to the protective surface is possible. This distance is based on the centre of gravity height of the maximum user.

Metric/Imperial

conversion:

1830mm = 6'

4000mm = 13' 1-1/2"

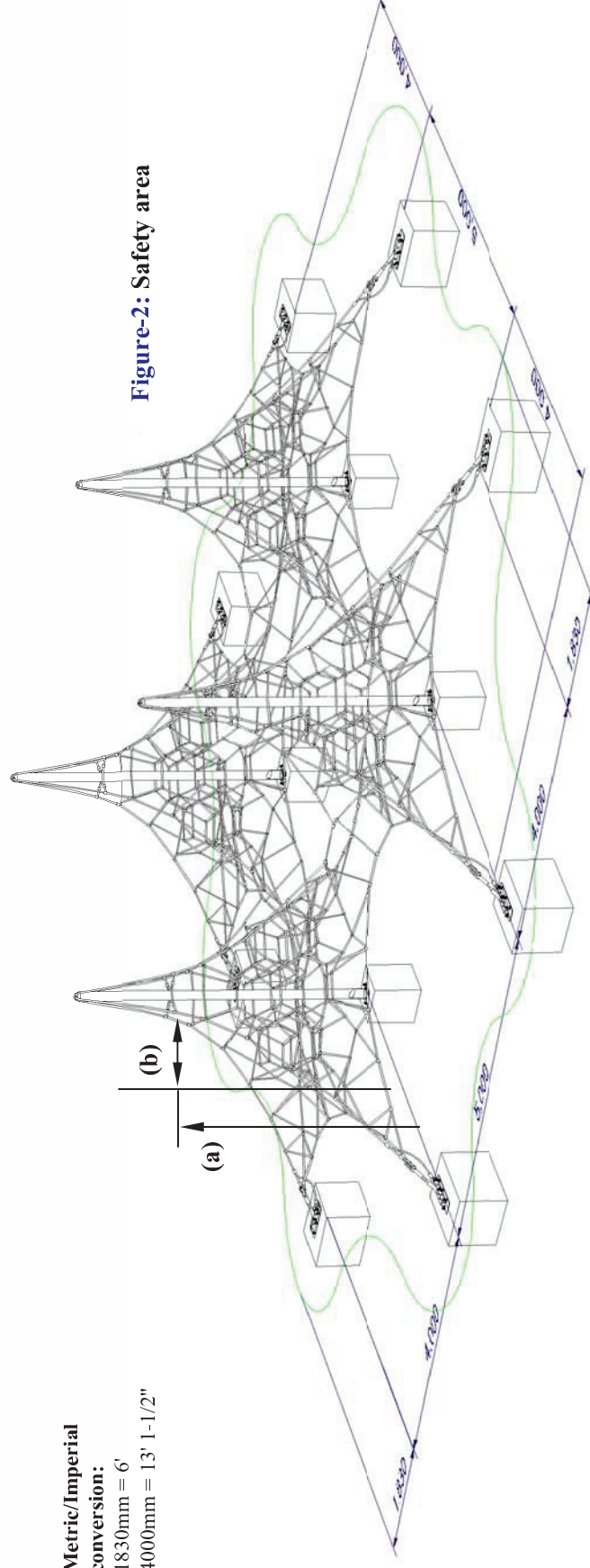


Figure-2: Safety area

Foundation

Please refer to GS-W4001 drawing for installation dimension

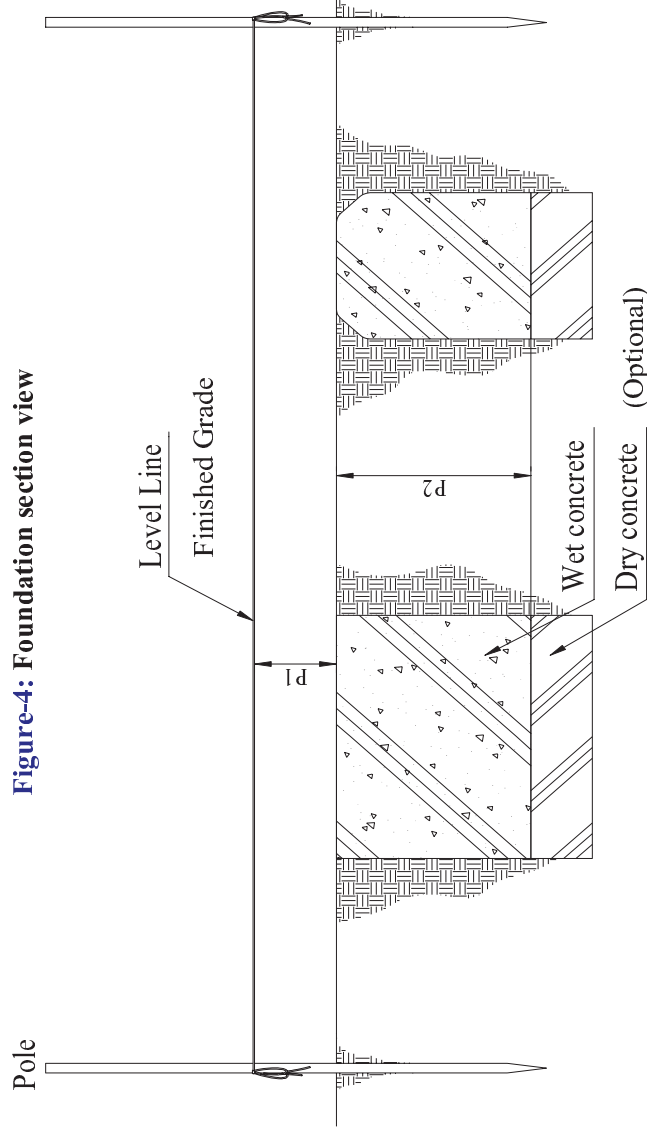


Figure-4: Foundation section view

P1 = Depth below Finished Grade (12" / 300mm)
P2 = Depth of concrete footing (31-1/2" / 800mm)-Center

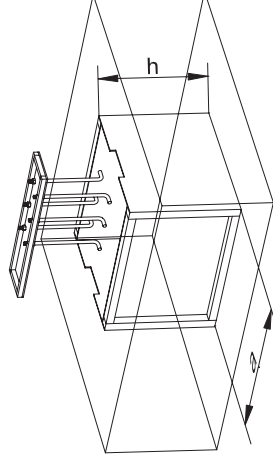
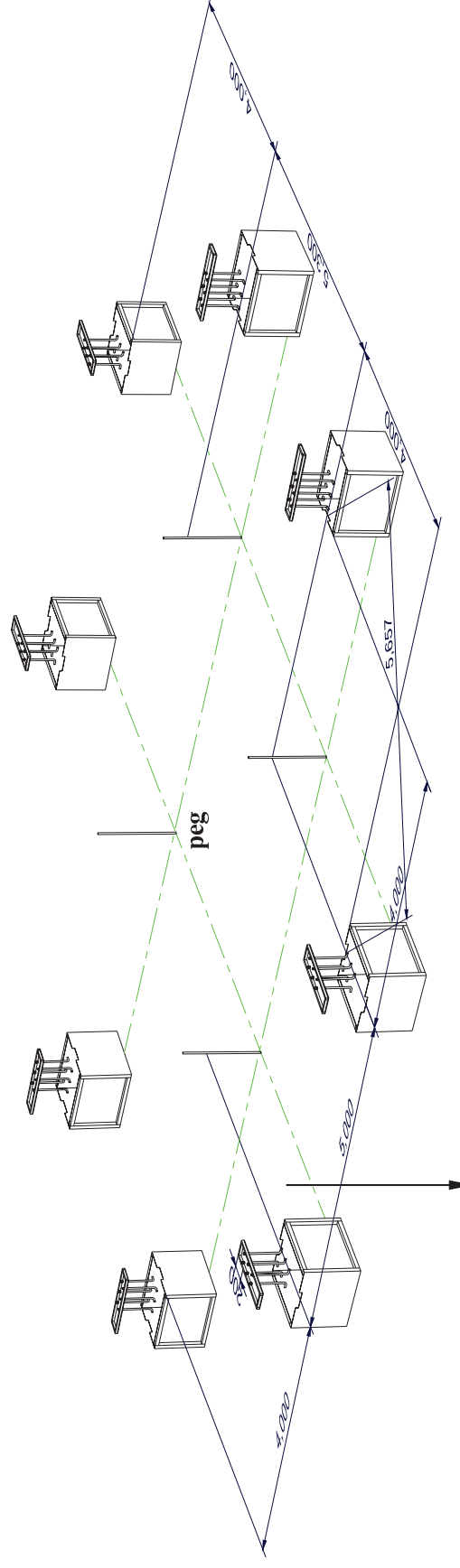


Figure-3: Excavate enough material for proper depth of footings

Also ensure that there is enough space to allow the frame to be positioned properly.

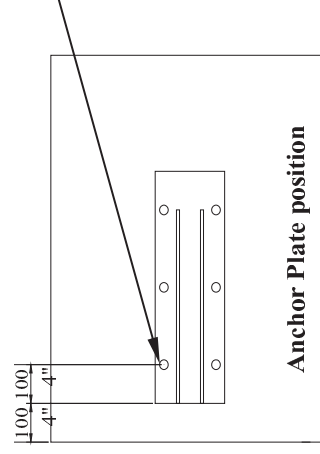
Anchor wood support frame to ground with pickets to prevent the frame from moving while concrete is poured and sets.

Figure-5: Footing and anchor plate layout



**Metric/Imperial
conversion:**
4000mm = 13' 1-1/2"
5657mm = 18' 6-3/4"

Position anchor plate on concrete footing
[CF] 'L' anchor hole
Front edge of anchor plate must be installed 4" (100mm) from the edge of concrete footing.



Assemble wooden support frames *

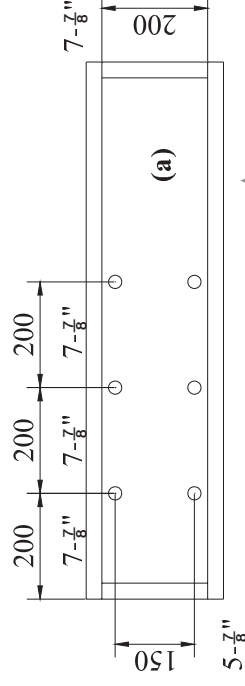
8 frames (39-1/2" / 1000mm L x 39-1/2" / 1000mm W x 39-1/2" / 1000mm H)

4 frames (31-1/2" / 800mm L x 31-1/2" / 800mm W x 31-1/2" / 800mm H)

*Use 1/2" (min) plywood; not included in package

(a) wood jig for Anchor plate

(b) wood support frame for concrete



NOTE: Use anchor plate as guide for exact measurements.

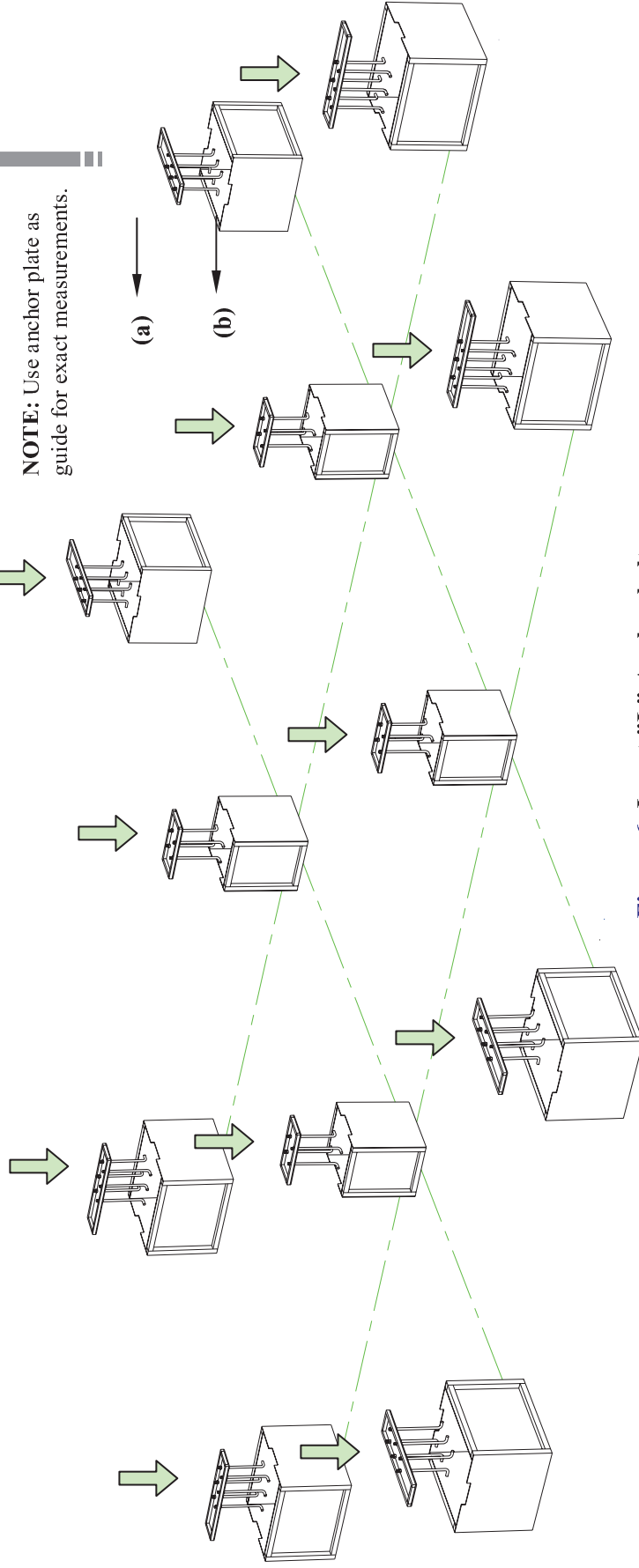


Figure-6: Insert "L" Anchor bolts

[Concrete]

Pour concrete* into wooden support frame until flush to top edge
Allow 3-5 days for concrete to cure before proceeding to next step.

*Concrete is to be wet concrete with minimum 25 MPa / 3500 PSI.

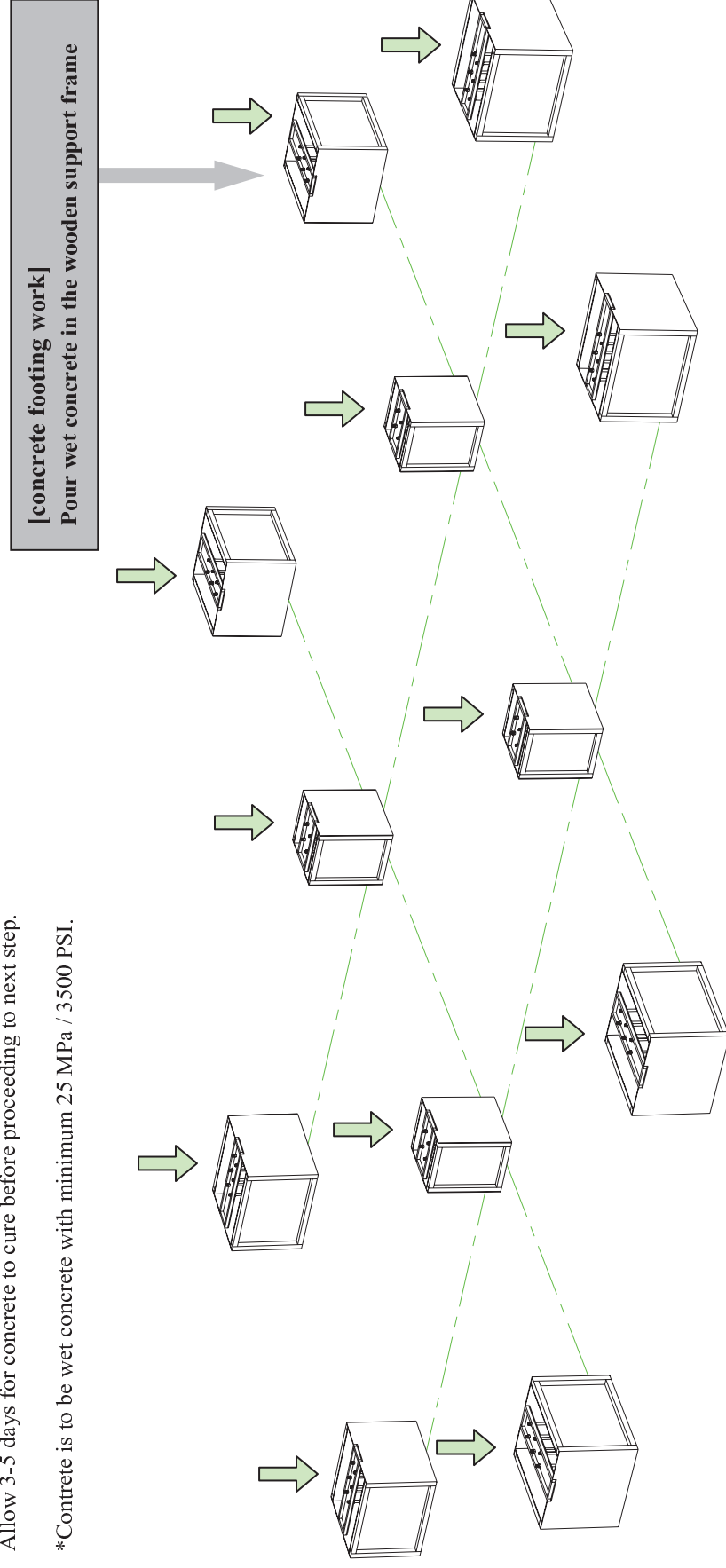


Figure-7: Concrete Footing work

Remove wood support frame from dry concrete blocks
 After concrete has cured enough, remove frames and replace soil around footing to subgrade level

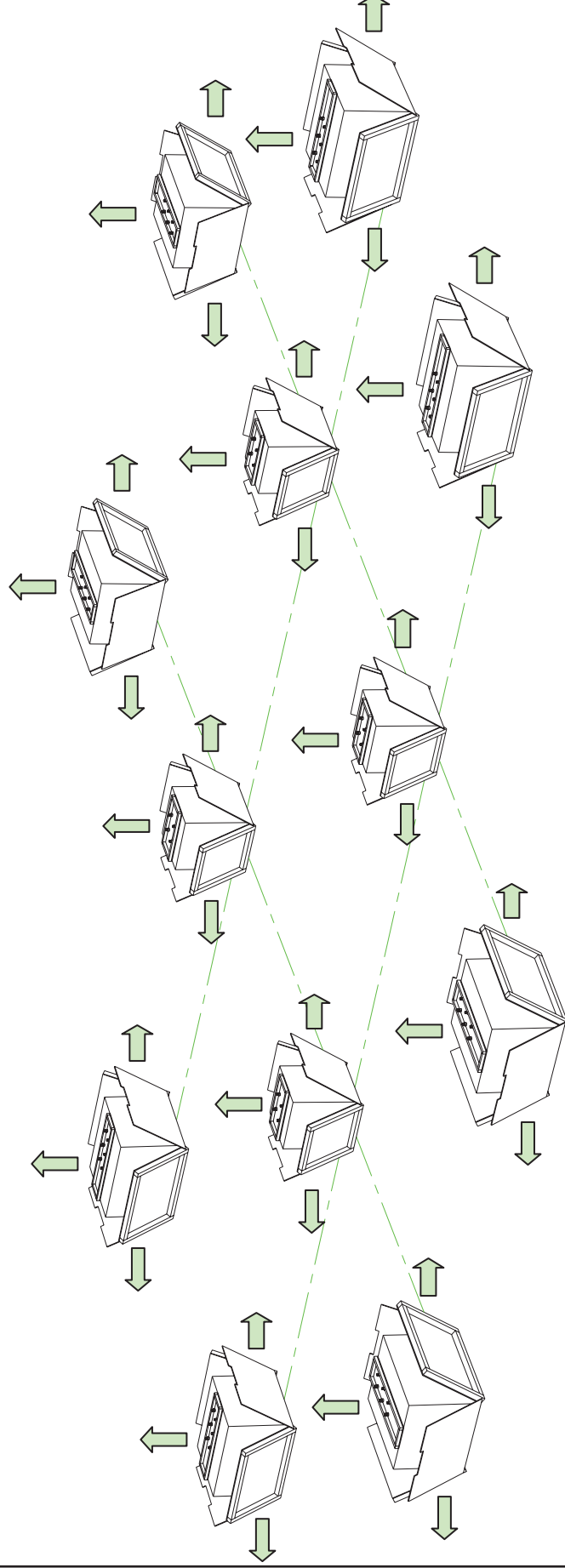


Figure-8: Remove wood support frames

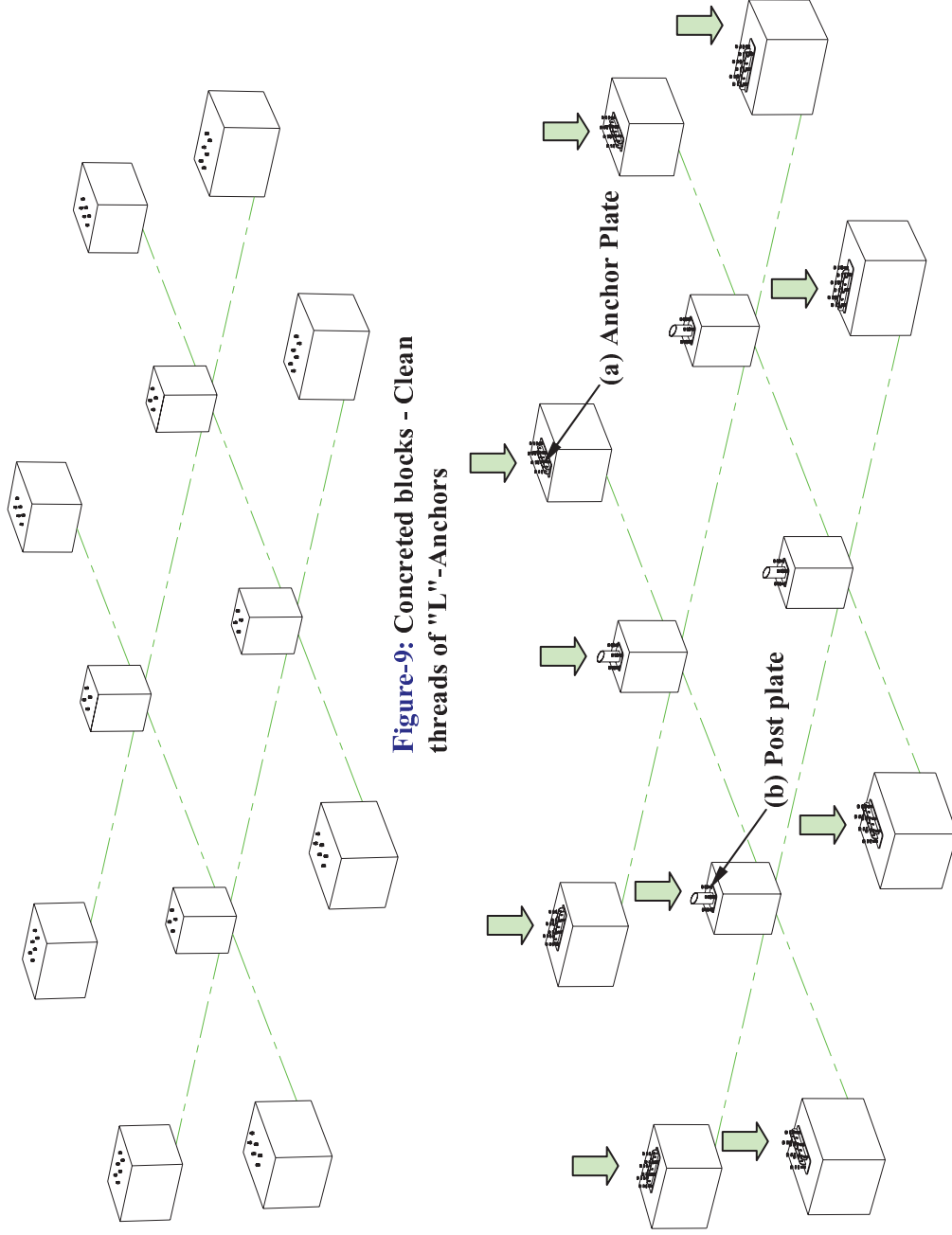
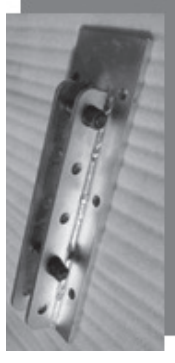


Figure-9: Concreted blocks - Clean threads of "L"-Anchors

Figure-10: Attach Anchor plate to footing with flat washer, locking washer and nut.



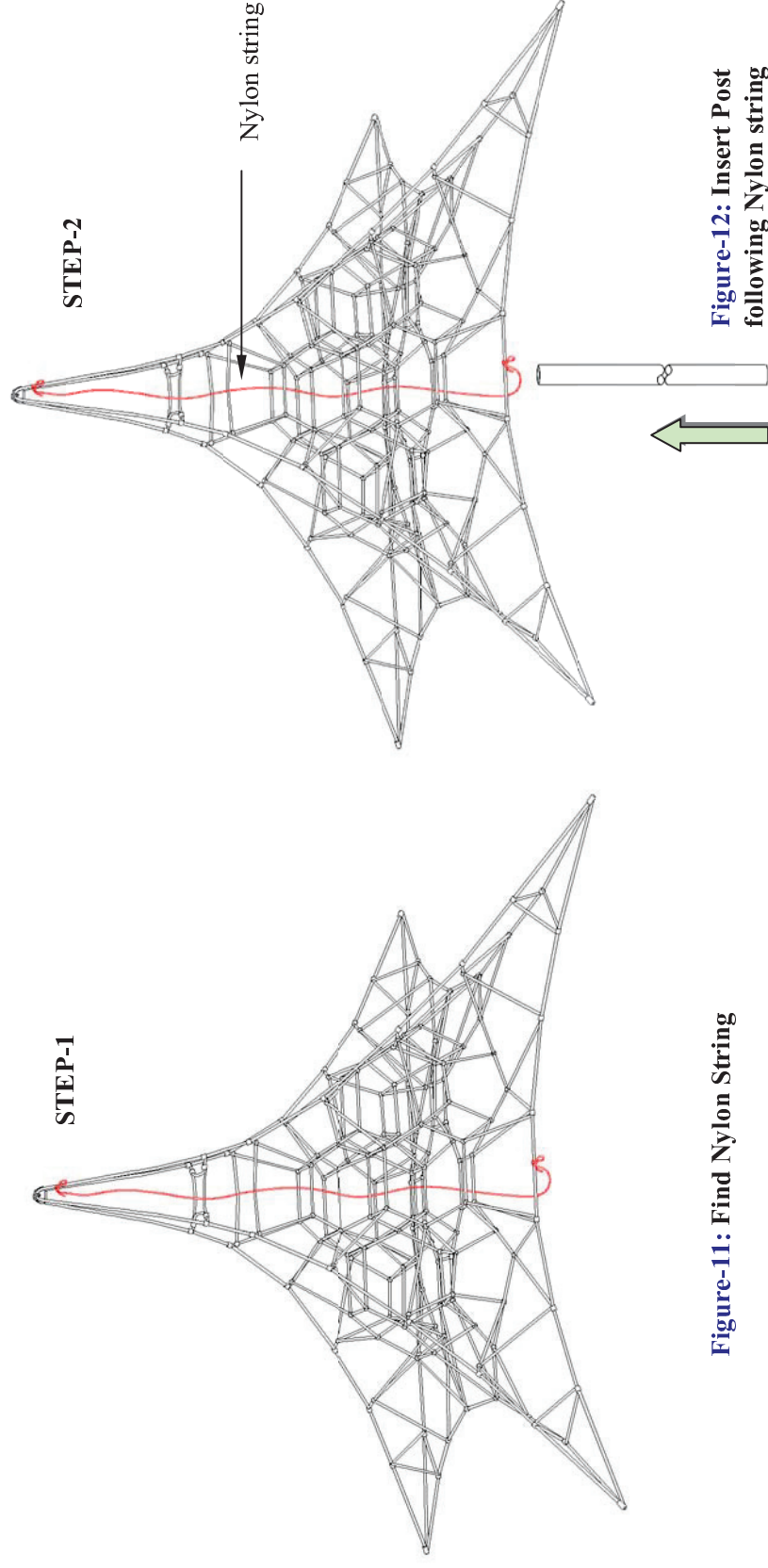
(a) Anchor Plate



(b) Post plate

Post Assembly

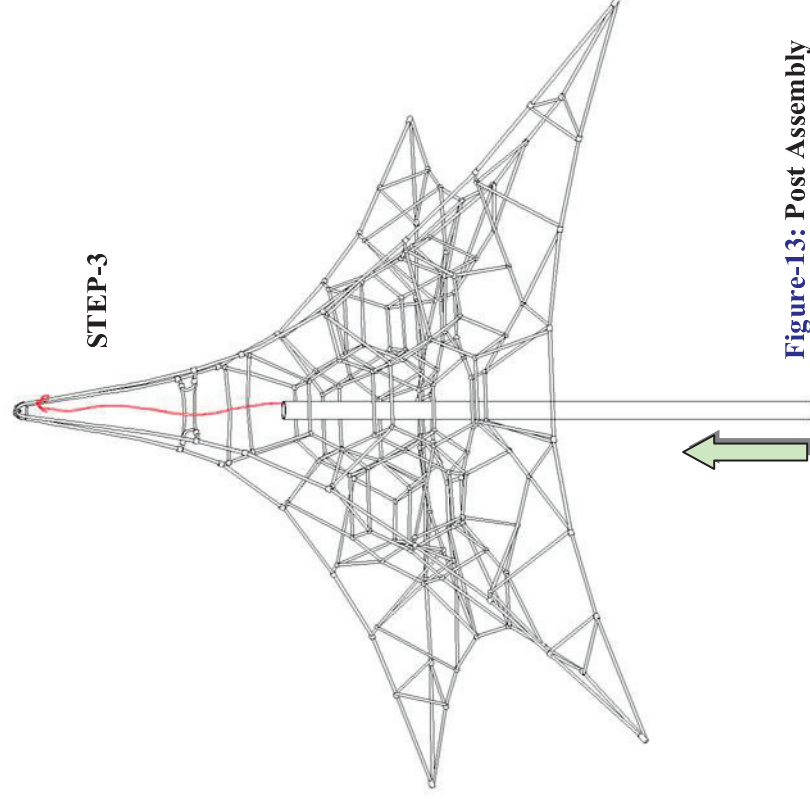
Insert Post following nylon string



NOTE: Remove string prior to placing cap on post.

Place Cap on Post

Thread the mast through the net's center (per diagrams below, or following factory-installed guide string). Press the cap (already attached to the top of the net) into the mast's top end.



STEP-3

Figure-13: Post Assembly

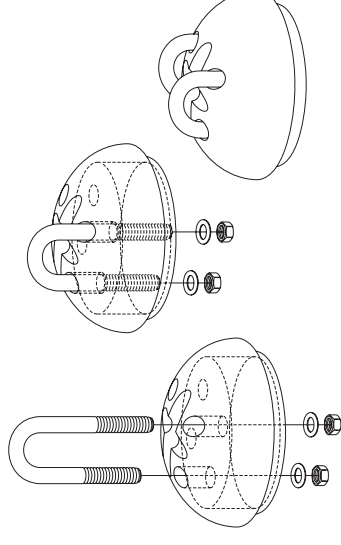


Figure-14: U-Bolt assembly.

STEP-4

Note: Rubber mallet may be required to insert cap into post.

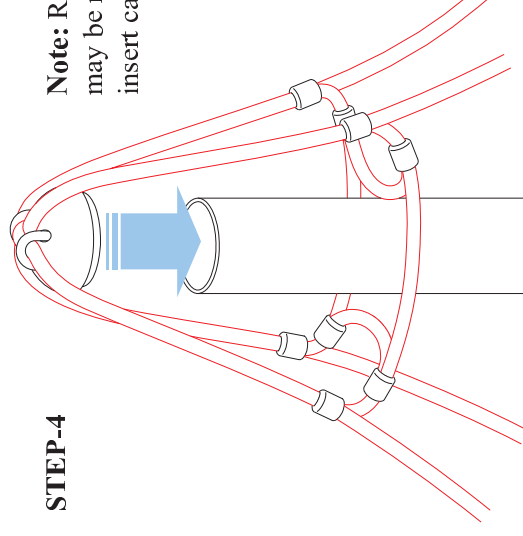


Figure-15: Post cap assembly.

Safety Cable Attaching

Attach safety cable to anchor plates (A) (B) (C) as shown in Figure 16.
This will be repeated for the other three posts as outlined

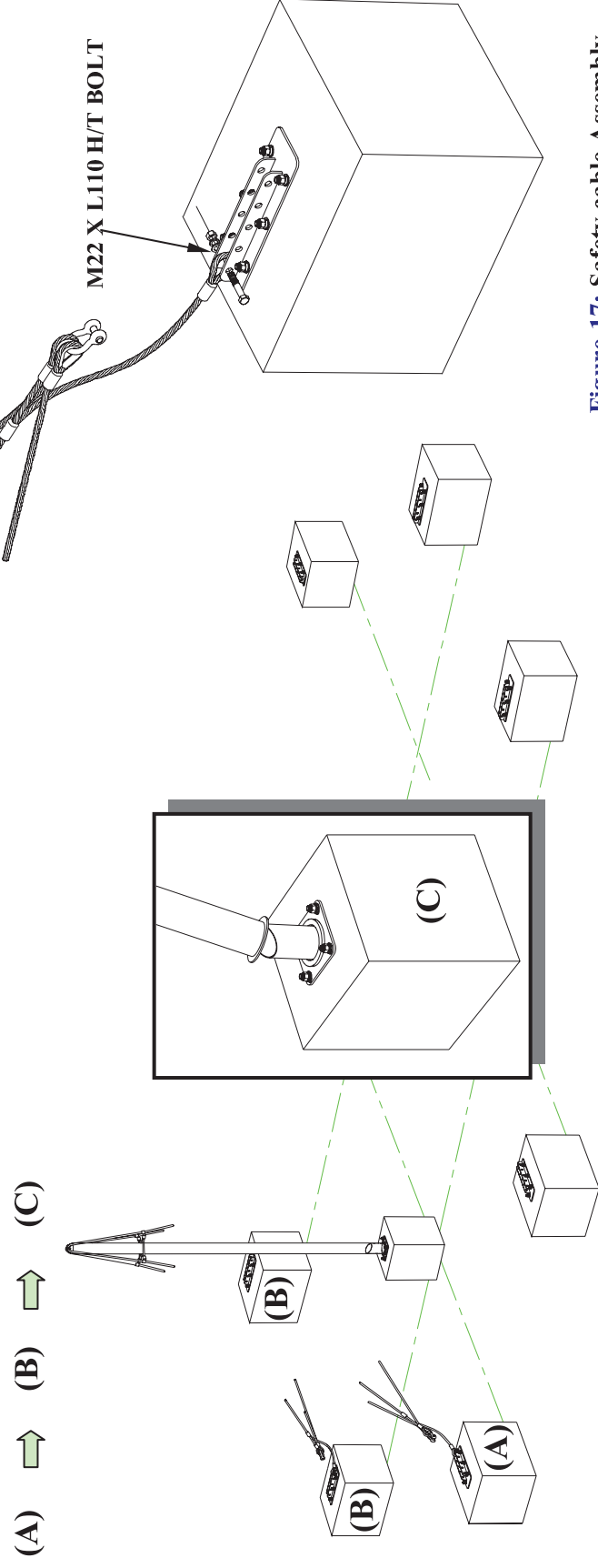


Figure-16: Attach cable to (A) (B)

Figure-17: Safety cable Assembly
After successfully preparing the net and mast assembly, attach safety cable with M22 X L110 H/T BOLT to Anchor plate as shown below

It is strongly recommended that a machine be used to lift the net into place.

[Working Process] (A) → (B)

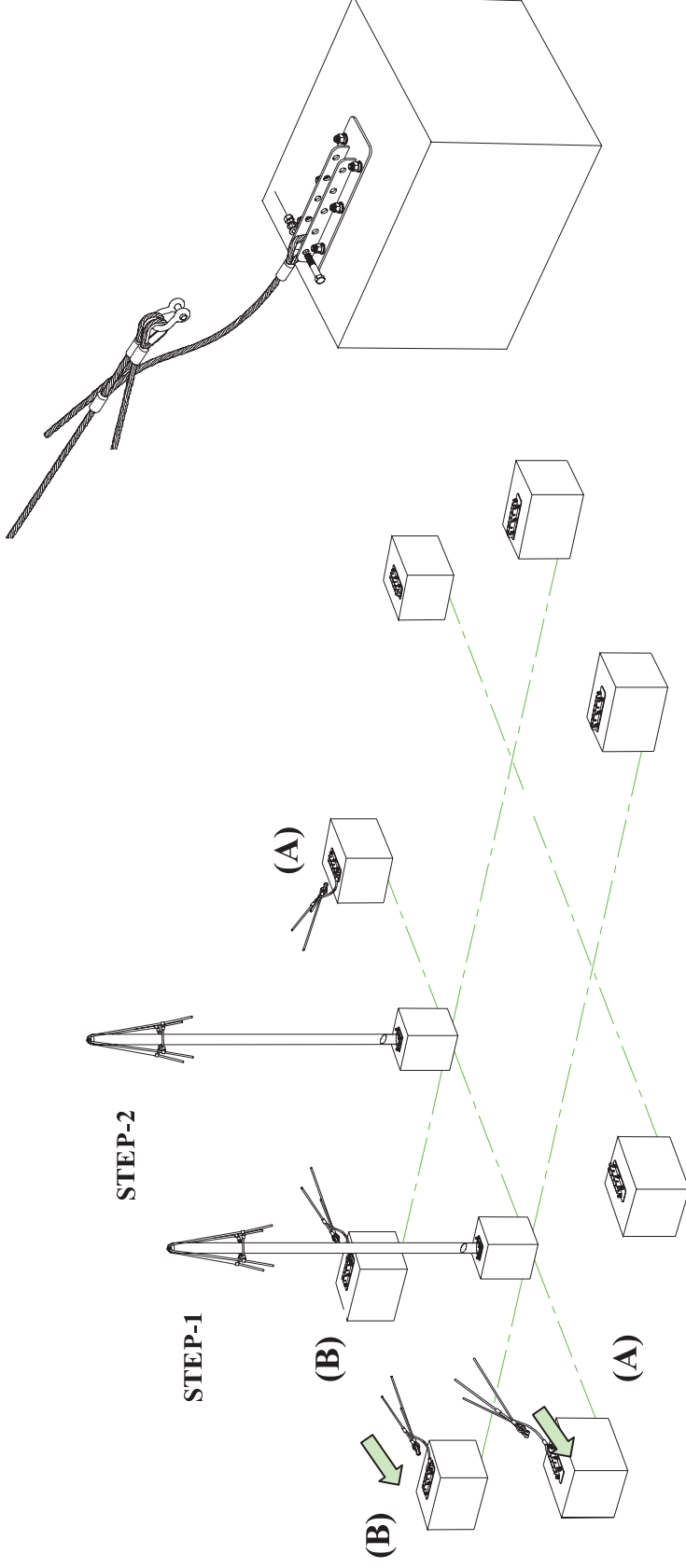


Figure-18: Repeat Step 1 on the second post (Step 2)

**Figure-19:
Safety cable attachment**

After standing up the Net, Attach remaining safety rope and Turnbuckles

Figure-20: Stand remaining posts up (Step 3) & (Step 4)

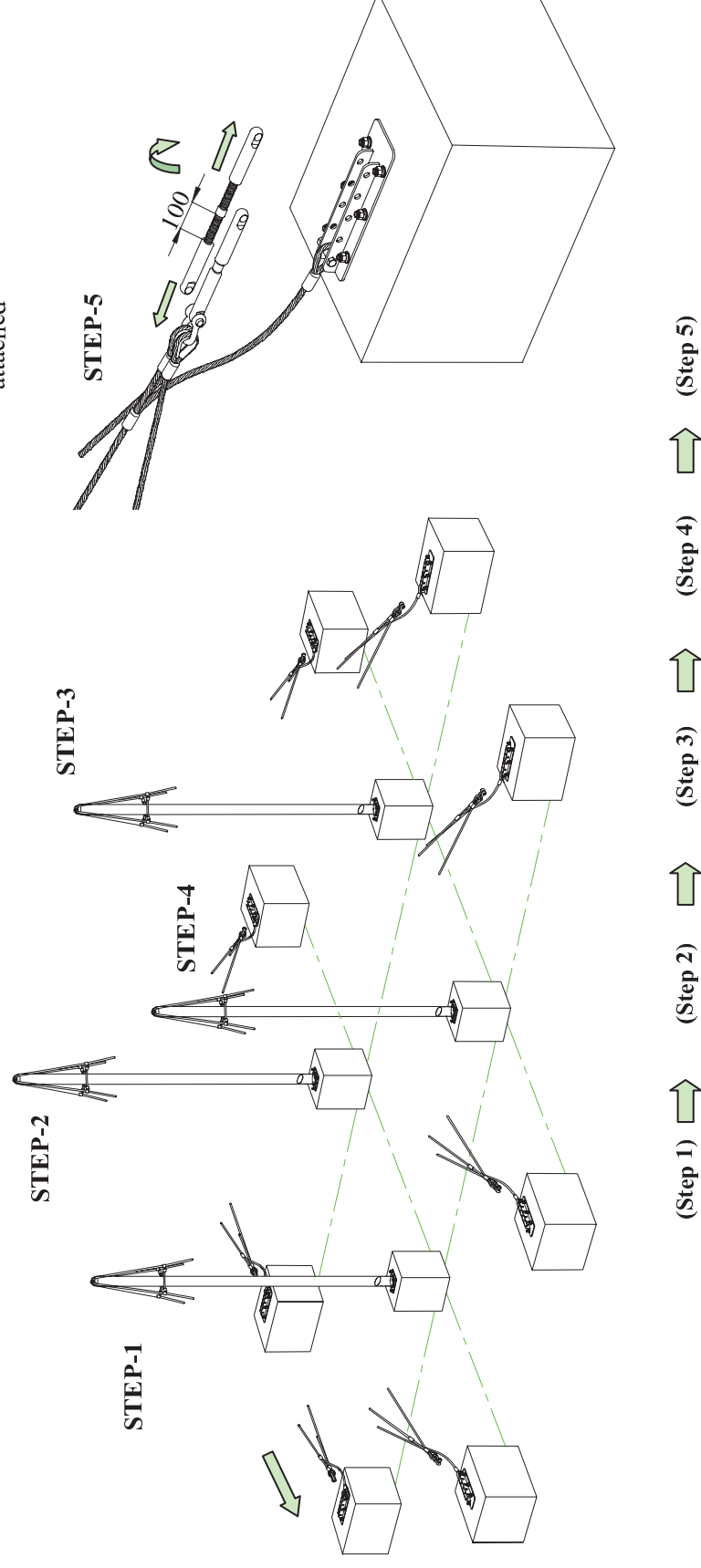


Figure-21: Loosen Turnbuckle:
all the way (about 100mm),
leaving only 4 or 5 threads
attached

Anchor plate + Turnbuckle

Figure-22: Tighten Turnbuckles

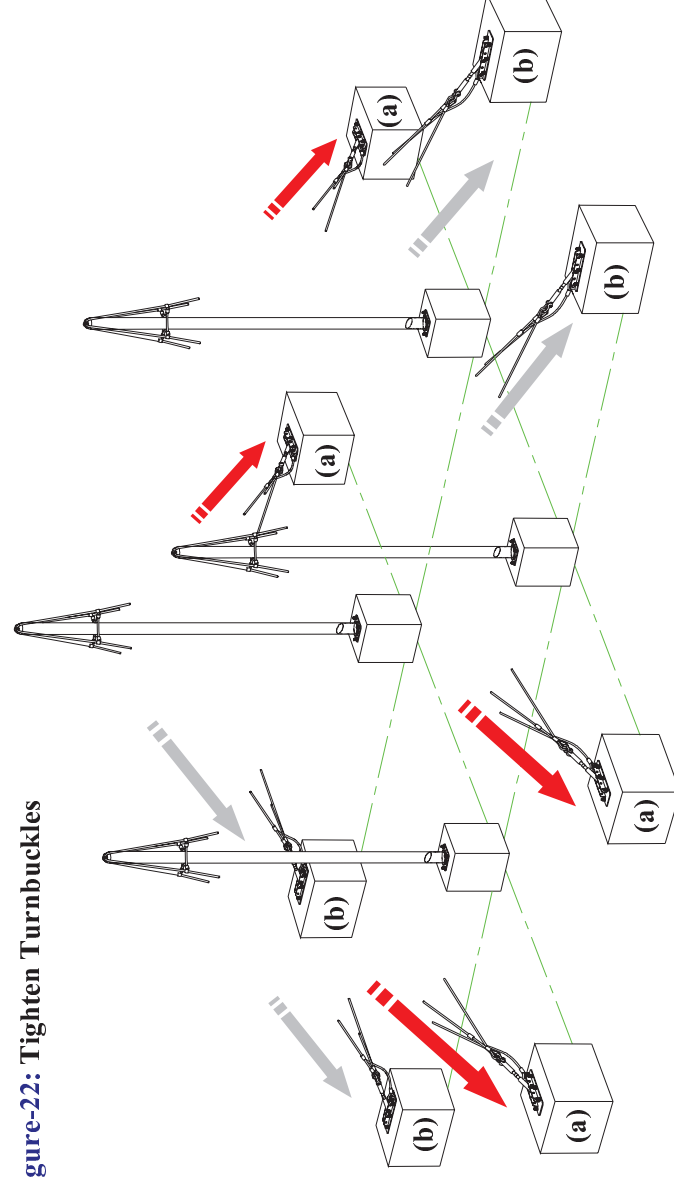
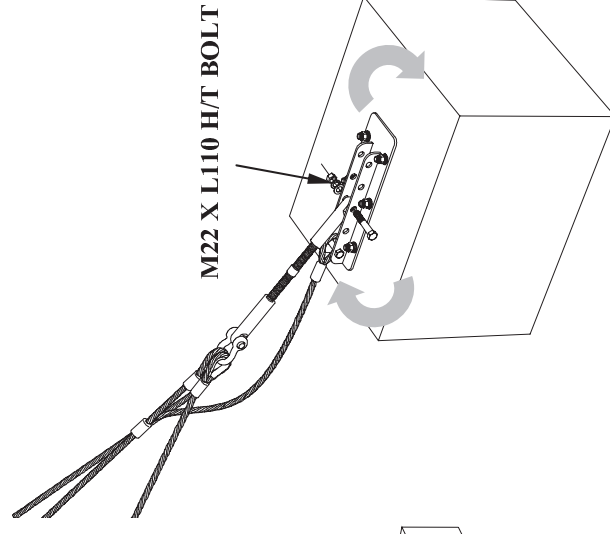


Figure-23:
Turnbuckle Assembly



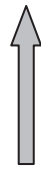
NOTE: Make sure post is level before tightening and remains level during process.
Use turnbuckles to straighten post to level. Then turn each turnbuckle evenly until net is tight.

(a) + (a)



Tighten Cable with Turnbuckle at the Same time

(b) + (b)



Tighten Cable with Turnbuckle at the Same time

QUAD MAST NET CLIMBER Tensioning & Maintenance information

MODEL NO.
GS-W4001

Maintenance information

Please tighten rope with Turnbuckle properly.
If you tighten the net too much, it may damage the net.
It is also recommended that subsequent checks on tension should be carried out at monthly intervals and adjusted as required. This will increase the overall longevity of the product.

Checking: 1 month

Refer to IPEMA and TUV maintenance system.

After Net structure tension is completed, the net will stretch slightly over the first four weeks of use. Following this initial period, the net needs to be fully re-tensioned by Turnbuckle after 1 year.

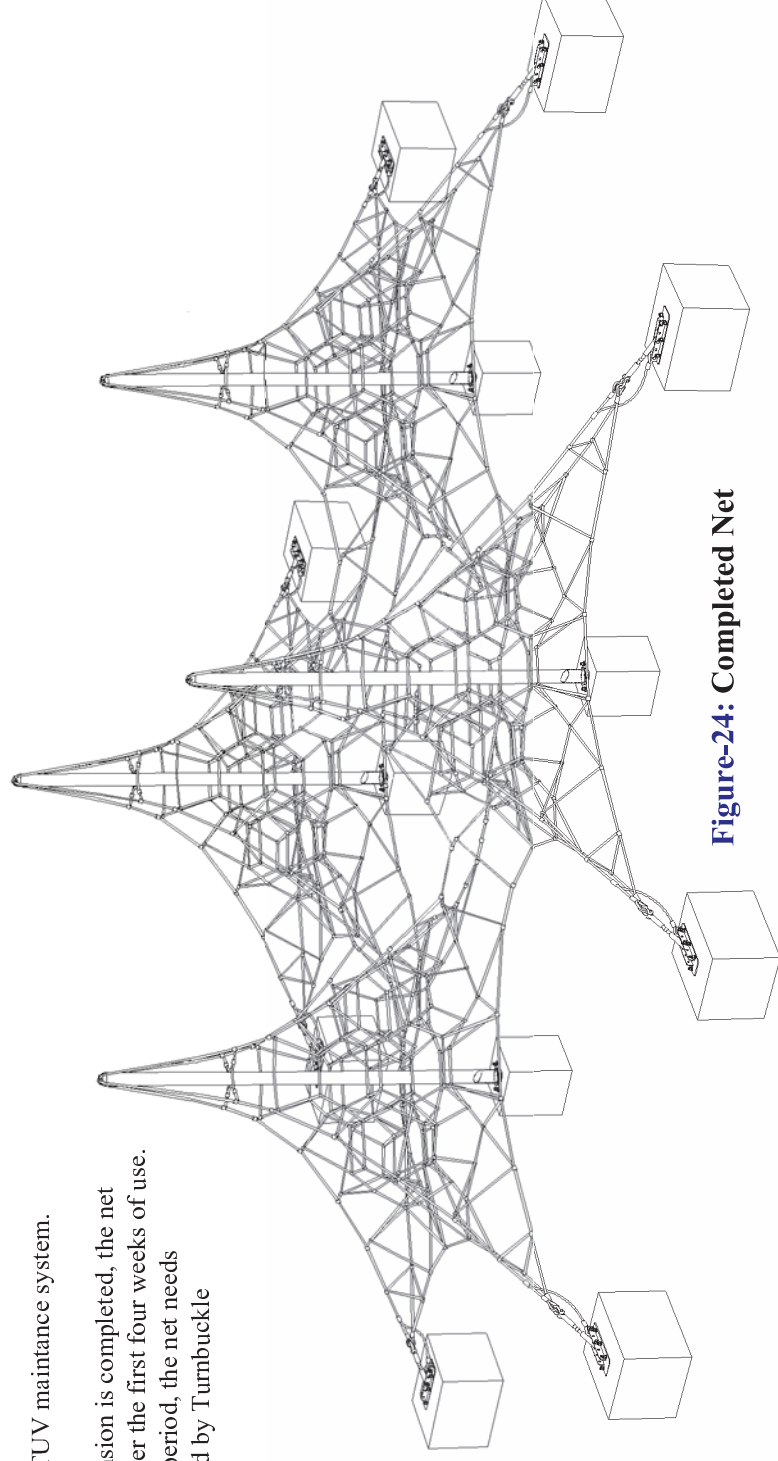
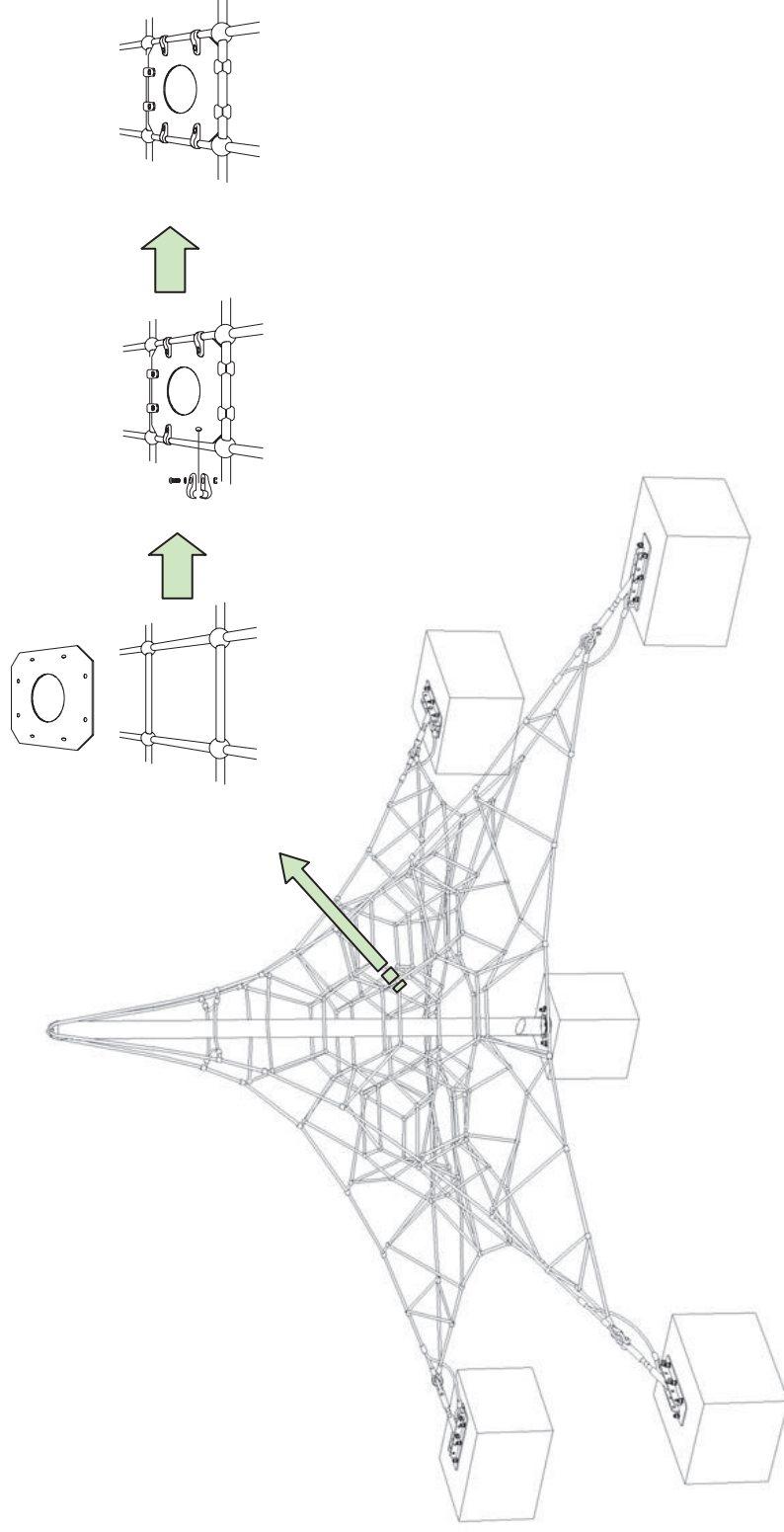


Figure-24: Completed Net

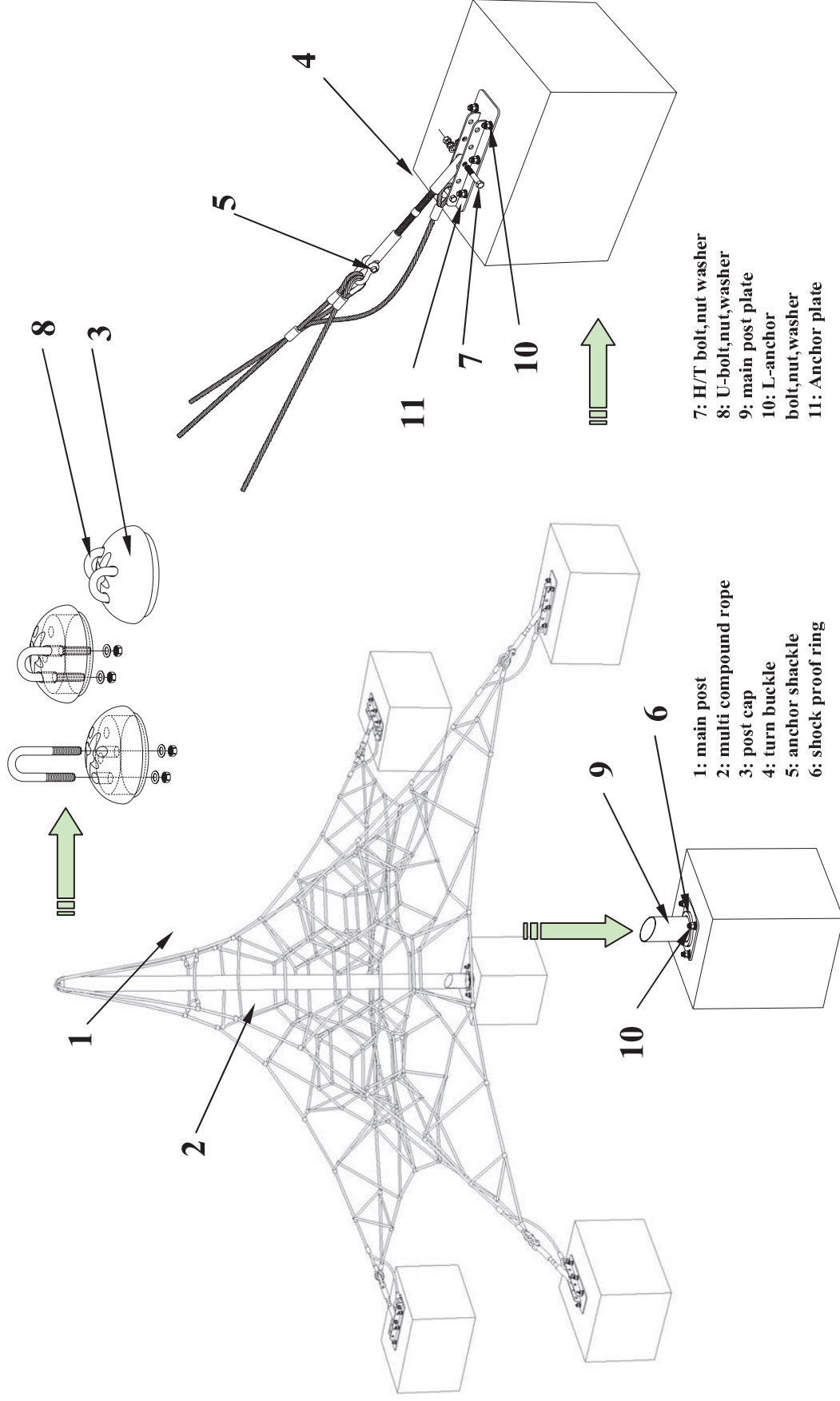
QUAD MAST NET CLIMBER Tensioning & Maintenance information

MODEL NO.
GS-W4001



QUAD MAST NET CLIMBER PARTS LIST

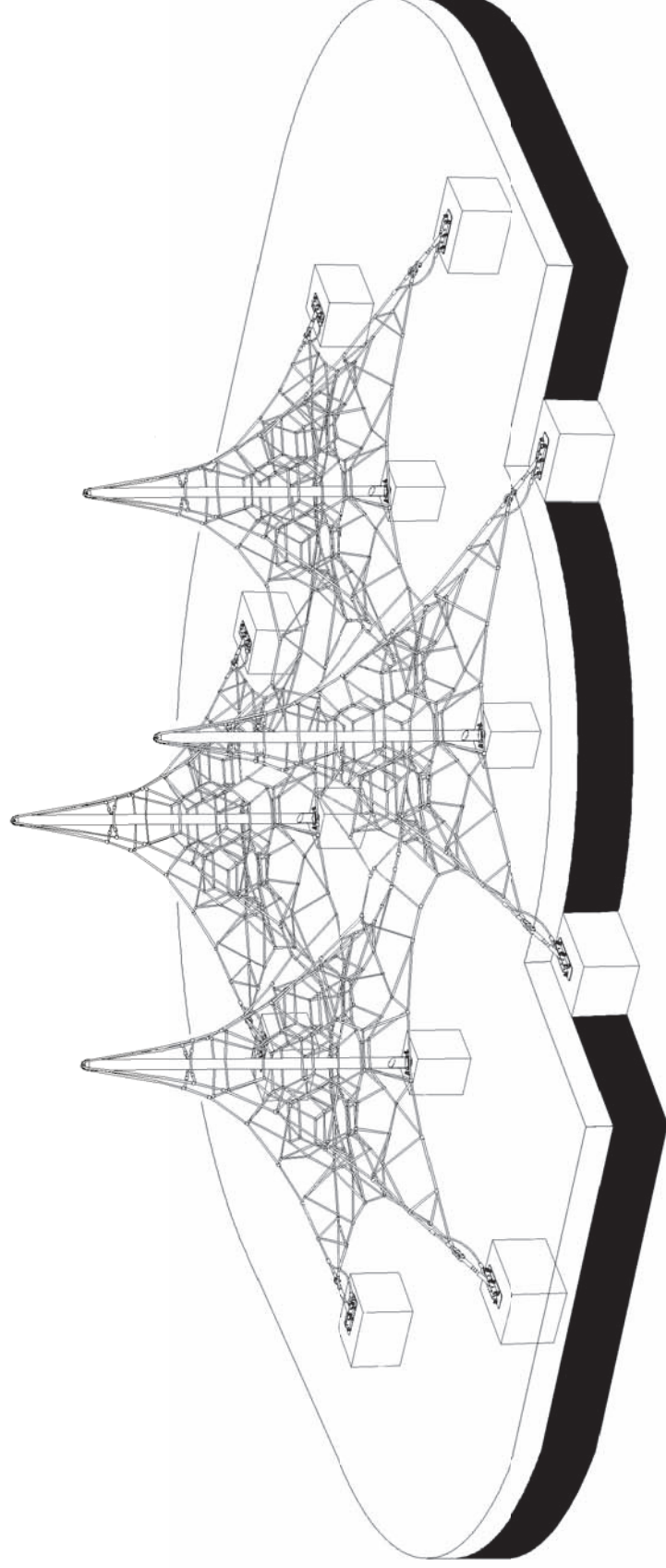
MODEL NO.
GS-W4001



QUAD MAST NET CLIMBER Maintenance Installation

MODEL NO.
GS-W4001

A weekly check of the activity net is recommended to ensure that no acts of vandalism have damaged the rope.
Periodic checks on tension will assist in the durability of the product.



A. General safety measures

On the playground there should be a sign(pictogram) giving the following information:

- a) general emergency telephone number;
- b) telephone number to contact maintenance personnel;
- c) name of the playground;
- d) address of playground; and
- e) other relevant local information, if applicable.

The entry, exit and emergency paths to and from a playground, intended for use by the public and emergency services, should be accessible and free of obstacles at all times.

NOTE Attention is drawn to local regulations.

B. Procedures

Defects that occur during operation and which put safety at risk should be corrected without delay. If this is not possible, the equipment should be secured against use e.g. by immobilization or removal.

There should be written operational procedures covering the measures to be taken in the event of accidents, fire and the like.

Until unsafe equipment is repaired and released for use, access by the public should be prevented. Information about accidents brought to the attention of the manager should be recorded on a form that includes the following details:

- a) date and tie of accident;
- b) age and sex of victim and clothing worn, Including footwear;
- c) equipment involved;
- d) number of children on site at the time of the accident;
- e) description of accident;
- f) injury sustained including part(s) of body affected;
- g) action taken;
- h) witness statements;
- i) any subsequent equipment modification;
- j) weather conditions; and
- k) any other relevant information.

C. Routine maintenance

To reduce accidents, the owner or operator should ensure that an appropriate routine maintenance schedule is established, implemented and maintained. This should take into account local conditions and the manufacturer's instructions that can affect the necessary inspection frequency. The schedule should list the components to be maintained and should also give procedures for dealing with complaints and breakdowns.

The routine maintenance of playground equipment and surfaces should consist of preventative measures to maintain their level of safety, performance and compliance with the relevant part(s) of EN 1176. Such measures should include:

- a) tightening of fastenings;
- b) re-painting and re-treatment of surfaces;
- c) maintenance of any impact attenuating surfaces;
- d) lubrication of bearings;
- e) marking of equipment to signify loose fill finished surface level;
- f) cleaning;
- g) removal of broken glass and other debris or contaminants;
- h) restoring loose fills to the correct level; and
- i) maintenance of free space areas.

D. Corrective maintenance

Corrective maintenance should include measures to correct defects, or to re-establish the necessary levels of safety of the playground equipment and surfaces. Such measures should include:

- a) replacement of fastenings;
- b) welding of welding repairs;
- c) replacement of worn or defective parts; and
- d) replacement of defective structural components.

E. Personal safety

Repairs during operation that could put the safety of maintenance personnel of the public at risk, should be avoided.

F. Equipment alterations

Alterations to parts of a piece of equipment or structure that could affect the essential safety of the equipment should only be carried out after consultation with the manufacturer or a competent person.