SBS-35
35' High Soccer BallStopper System
Specification
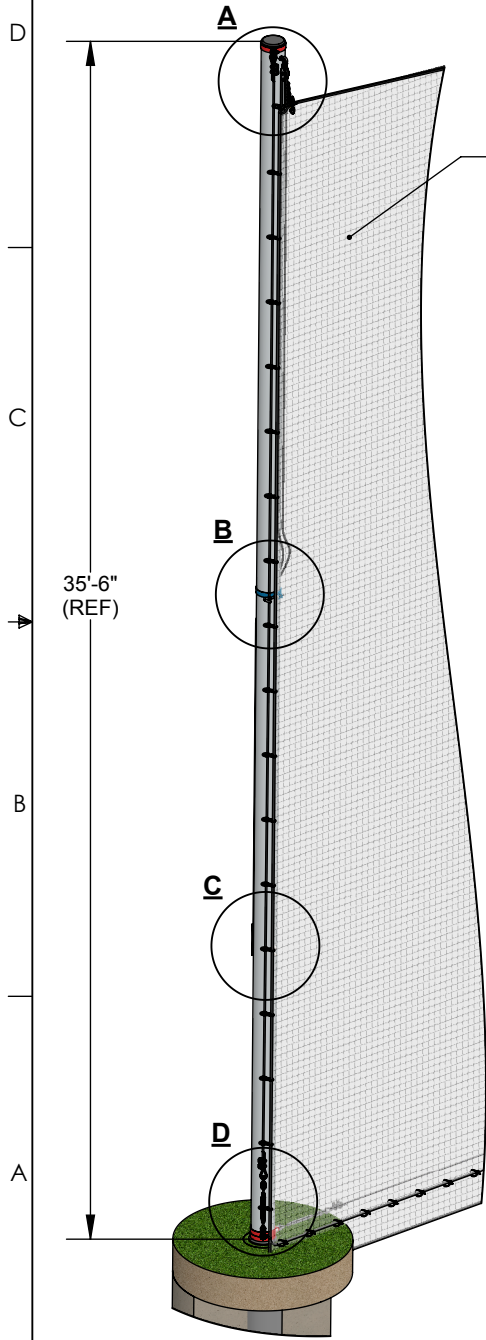
SBS-35
Specifications
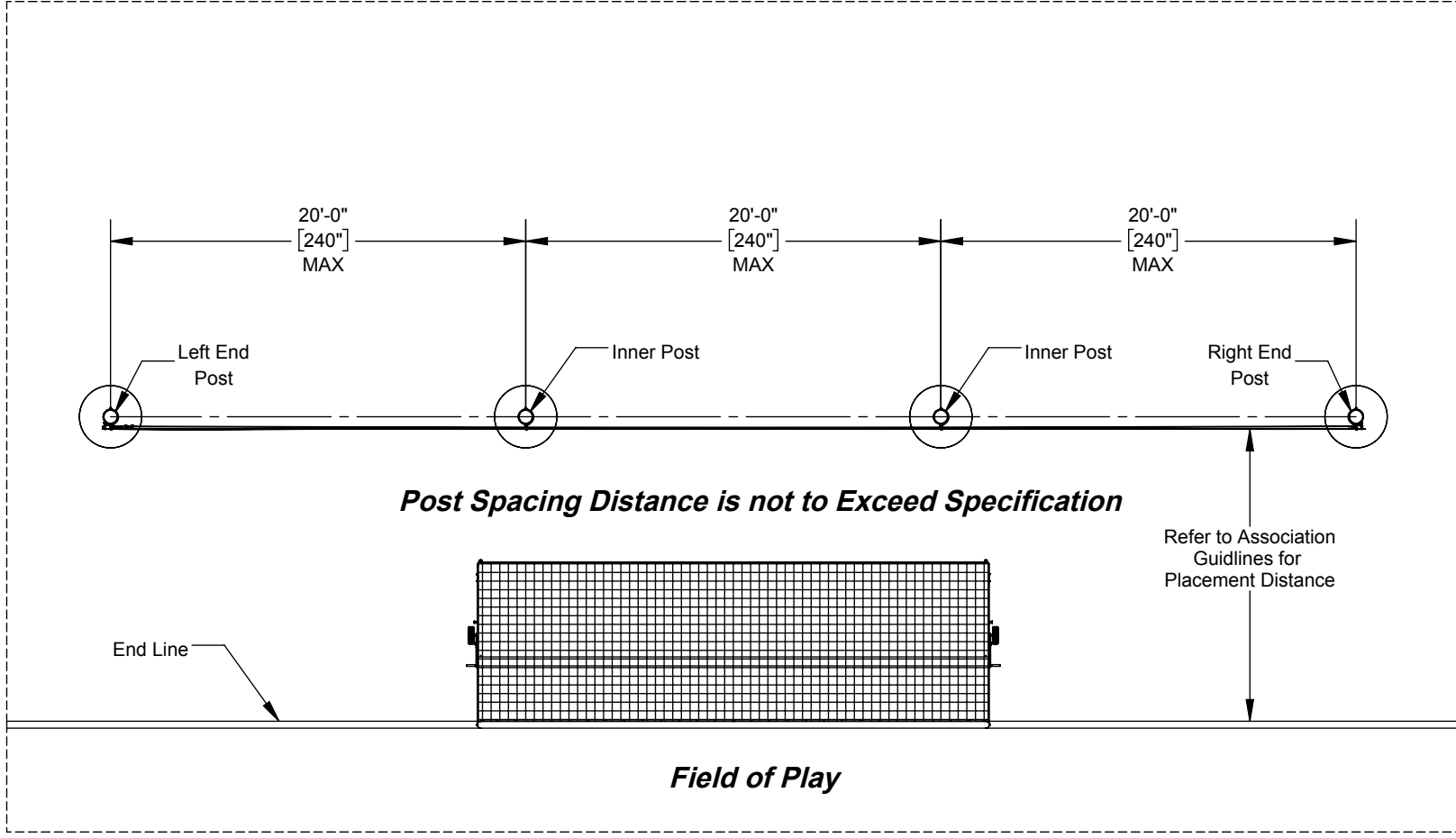
20'-0"
[240"]
MAX

20'-0"
[240"]
MAX

20'-0"
[240"]
MAX

Left End Post

Inner Post

Inner Post

Right End Post

Post Spacing Distance is not to Exceed Specification

Refer to Association Guidlines for Placement Distance
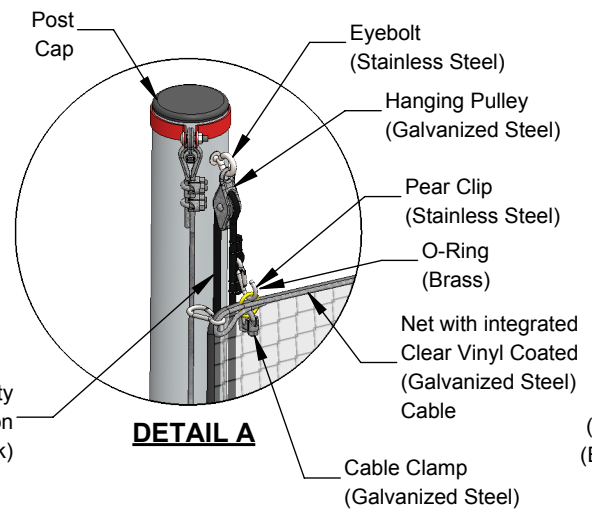
End Line

Field of Play

AAE®

Aluminum Athletic Equipment
1000 Enterprise Drive, Royersford, PA 19468
Toll Free: (800) 523-5471 Phone: (610) 825-6565
www.aaesports.com

DESCRIPTION:		
Concrete Footing Placement Specification		
NOTE:		
35' HIGH BALLSTOPPER SYSTEM		
MODEL: SBS-35	CATEGORY: **CUSTOMER**	DATE: 6/3/2016
DWN. BY: N.R.	CAD FILE: SBS-35 Specifications	DWG. NO. SBS-35-C-002

SBS-35
Upright Specification

A

B

C

D

35'-6"
(REF)

Net
(height varies
depending on system
height and attachment
method)

Post
Cap

Eyebolt
(Stainless Steel)

Hanging Pulley
(Galvanized Steel)

Pear Clip
(Stainless Steel)

O-Ring
(Brass)

Net with integrated
Clear Vinyl Coated
(Galvanized Steel)
Cable

Heavy Duty
Braided Nylon
Rope (Black)

Cable Clamp
(Galvanized Steel)

DETAIL A

Open Eyebolt
(Stainless Steel)
(End Posts Only)

DETAIL B

Cleat
(Galvanized Steel)

Clear Vinyl Coated
(Galvanized Steel)
Vertical Attachment
Cable

Cleat Hardware
(Stainless Steel)

Pear Clip
(Stainless Steel)

DETAIL C

Tensioner Kit
(Galvanized Steel)

DETAIL D

SBS-35 Specifications

Post (Aluminum):
- ∅8" x .188" wall aluminum tube (Mill Aluminum 6061T6)
- 40'-6" Overall Length (35'-6" out of ground sleeve)
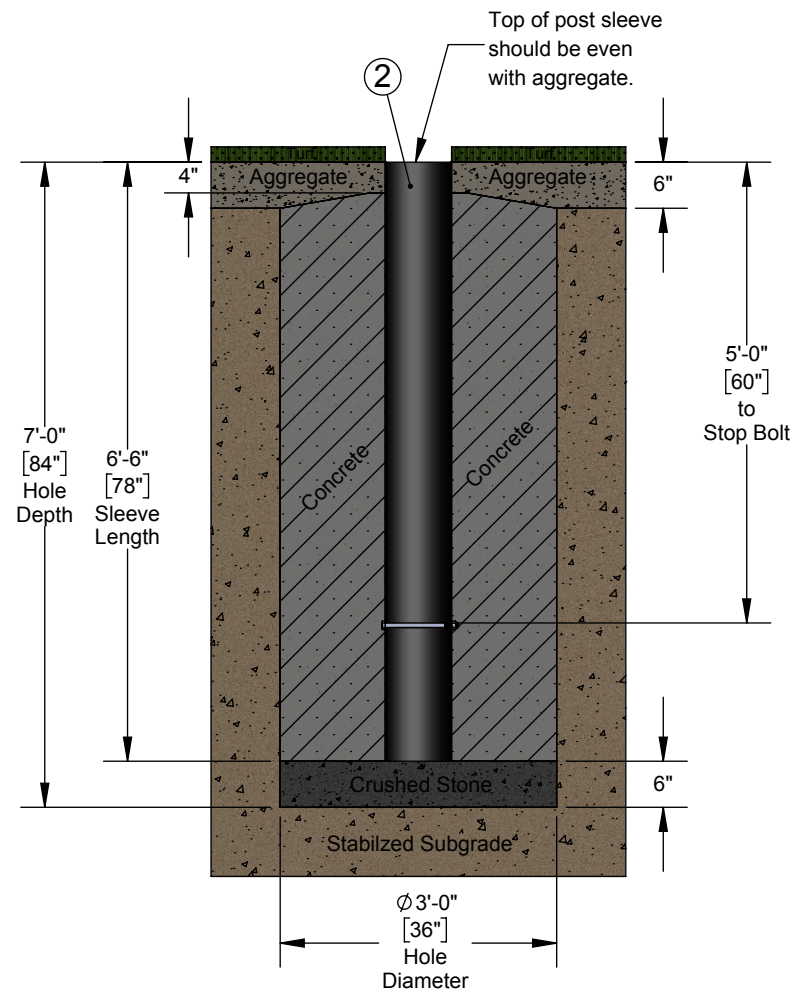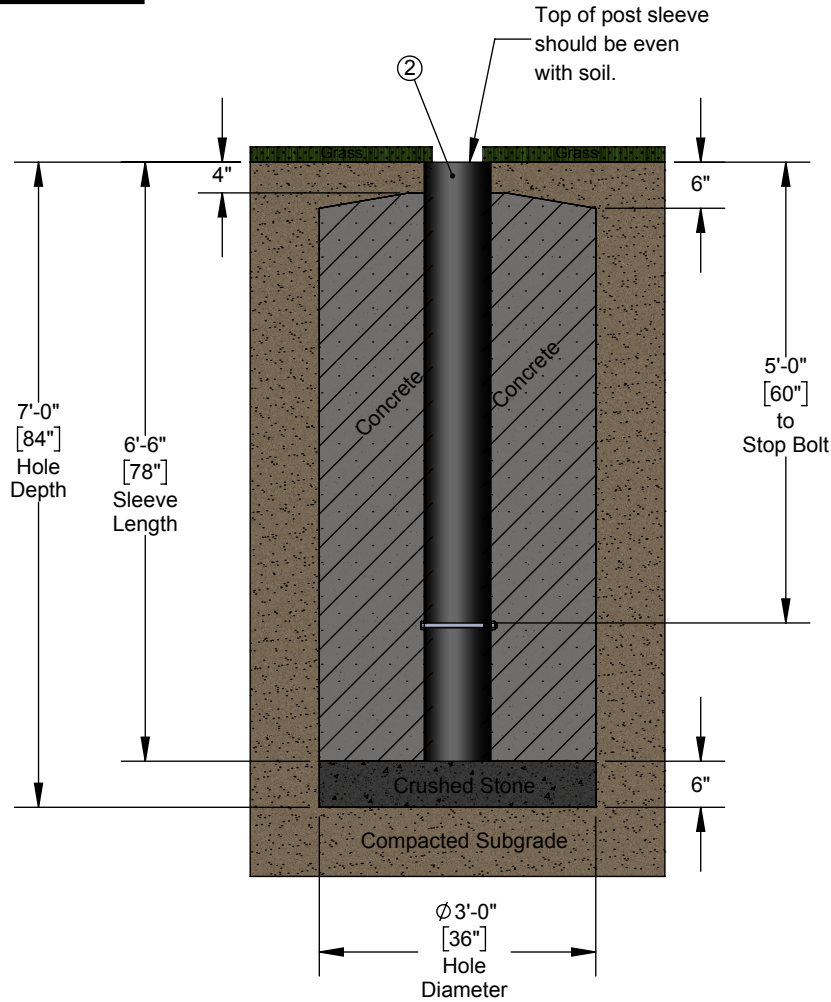- Weight = 219lbs./ea.
- All Hardware is RUSTPROOF

Netting:
- Net: #AAE N367, 3-1/2" Sq. Knotted Nylon, FR, DBB, length to vary, 1/4" MFP Rope Border, UV protected and 1/4" cable hog tied to top of net

AAE.

Aluminum Athletic Equipment
1000 Enterprise Drive, Royersford, PA 19468
Toll Free: (800) 523-5471 Fax: (610) 825-2378
www.AAEsports.com

DESCRIPTION			
SBS-35 Upright Specification			
NOTE:			
Upright Assembly Specification			
MODEL: SBS-35	CATEGORY: **CUSTOMER**		DATE: 3/27/2019
DRAWN BY: NR	CAD FILE: SBS-35 Specifications		DWG. NO. SBS-35-C-003

SBS-35 Concrete Footing Specification

Natural Grass Field Footing Specification

Top of post sleeve should be even with soil.

②

- 4"
- 6"
- 7'-0" [84"] Hole Depth
- 6'-6" [78"] Sleeve Length
- 5'-0" [60"] to Stop Bolt
- Concrete
- Crushed Stone
- 6"
- Compacted Subgrade
- Grass
- Ø 3'-0" [36"] Hole Diameter

Artificial Grass Field Footing Specification

Top of post sleeve should be even with aggregate.

②

- 4"
- 6"
- 7'-0" [84"] Hole Depth
- 6'-6" [78"] Sleeve Length
- 5'-0" [60"] to Stop Bolt
- Aggregate
- Concrete
- Crushed Stone
- 6"
- Stabilzed Subgrade
- Turf
- Ø 3'-0" [36"] Hole Diameter

Aluminum Athletic Equipment
1000 Enterprise Drive, Royersford, PA 19468
Toll Free: (800) 523-5471 Phone: (610) 825-6565
www.aaesports.com

DESCRIPTION

Concrete Footing Specification

NOTE:

Grass & Turf Footing Specification

MODEL:	CATEGORY:	DATE:
SBS-35	**CUSTOMER**	6/3/2016

DRAWN BY:	CAD FILE:	DWG. NO.
N.R.	SBS-35 Specifications	SBS-35-C-004

Note: **Consult Local Codes

When installing cable, clamp loop goes on cut side.

Cable loop end show for reference only (not pre-installed)

Left & Right End Post
Mid Vertical Cable
"Open Eyebolt"
Collar Assembly

Inner Post
Lower Horizontal Cable
"Pear Clip"
Collar Assembly

Left & Right End Post
Upper Vertical Cable
"Anchor Shackle"
Collar Assembly

Left & Right End Post
Lower Vertical Cable
"Tensioner"
Collar Assembly

Note: Hardware denoted with "A" is included in item #12 "tensioner kit"

Right End Post
Lower Horizontal Cable
"Anchor Shackle"
Collar Assembly

Lower End Post
Lower Horizontal Cable
"Tensioner"
Collar Assembly

Cable loop end show for reference only (not pre-installed)

When installing cable, clamp loop goes on cut side.

Note: Hardware denoted with "A" is included in item #12 "tensioner kit"

SBS-35
Cable Collar
Assembly Diagrams

5 of 12

Aluminum Athletic Equipment
1000 Enterprise Drive, Royersford, PA 19468
Toll Free: (800) 523-5471 Phone: (610) 825-6565
www.aaesports.com

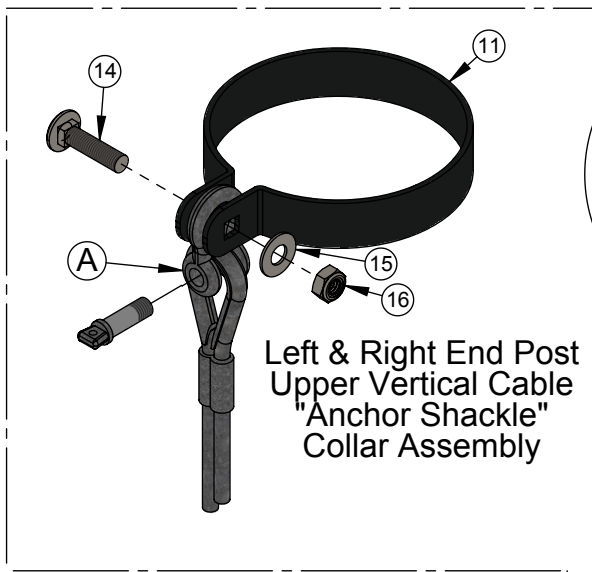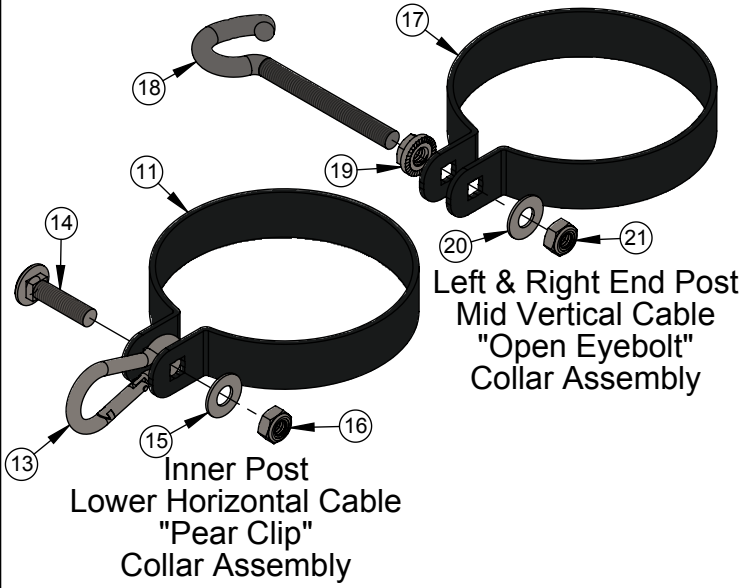| DESCRIPTION			
SBS-35 Assembly Instructions			
NOTE: Various Collar Assemblies			
MODEL: SBS-35	CATEGORY: **CUSTOMER**		DATE: 6/3/2016
DRAWN BY: NR	CAD FILE: SBS-35 Specifications		DWG. NO. SBS-35-C-005

Model No. SBS-35
Parts List

PARTS LIST

Part List #	Item	Description	Qty.
1	Post	35' SBS System Posts w/ Cap	Ω
2	Ground Sleeve	78" Length Ground Sleeve, w/ Stop Bolt	Ω
3	Hoist	Pre-assembled Hoist Rope/Pulley System	Ω
4	Washer	5/16" Flat Washer, SS	Σ
5	Hex Nut	5/16" Hex Nut, Self Locking	Ω
6	Cleat	Tapered Cleat, Glavanized Steel	Ω
7	Bolt	1/4"-20 x 5-1/2" Hex Bolt, SS	Σ
8	Washer	1/4" Flat Washer, SS	Σ
9	Hex Nut	1/4"-20 Hex Nut, SS, Self Locking	Σ
10	Cap Nut	1/4"-20 Cap Nut, SS,	Σ
11	Securing Collar	8" I.D. Securing Collar	π
12	Tensioner Kit	Ball Stoper Tensioner Kit	Δ
13	Snap	1/4" Pear Clip Snap, Plated	Φ
14	Bolt	5/16"-18 x 1-1/4" Carriage Bolt, SS	π
15	Washer	5/16" Flat Washer, SS	π
16	Ny-Lock Hex Nut	5/16"-18, Self Locking Nut, SS	π
17	Securing Collar	8" I.D. Securing Collar	λ
18	Open Eyebolt	5/16"-18 x 4" Open Eye Bolt, SS	λ
19	Wiz-Lock Hex Nut	5/16"-18, Wiz-Lock Nut, SS	λ
20	Washer	5/16" Flat Washer, SS	λ
21	Ny-Lock Hex Nut	5/16"-18, Self Locking Nut, SS	λ
22	Net	#AAE N367, 3-1/2" sq. Mesh, Knotted Nylon	Ψ
23	Snap	1/4" Pear Clip Snap, Plated	ʮ
	OPTIONAL ACCESSORIES		
24	Debris Collar	Debris Collar, 6" Diameter	Ω

Qty of posts (will vary depending on length fo system)

$$\Omega = (\text{# ft. per section} / 20 \text{ ft.}) + 1$$

$$\Sigma = [(\text{# ft. per section} / 20 \text{ ft.}) + 1] \times 2$$

$$\Phi = (\text{# ft. per section} / 20 \text{ ft.}) - 1$$

$$\pi = (\text{# ft. per section} / 20 \text{ ft.}) + 5$$

$$\Delta = 3 \text{ per section}$$

$$\lambda = 2 \text{ per section (additional hardware required for systems 15' tall and above)}$$

$$\Psi = \text{# ft. per section}$$

$$ʮ = (\text{# ft. net height}) \times 2$$

SBS-35
Assembly Instruction
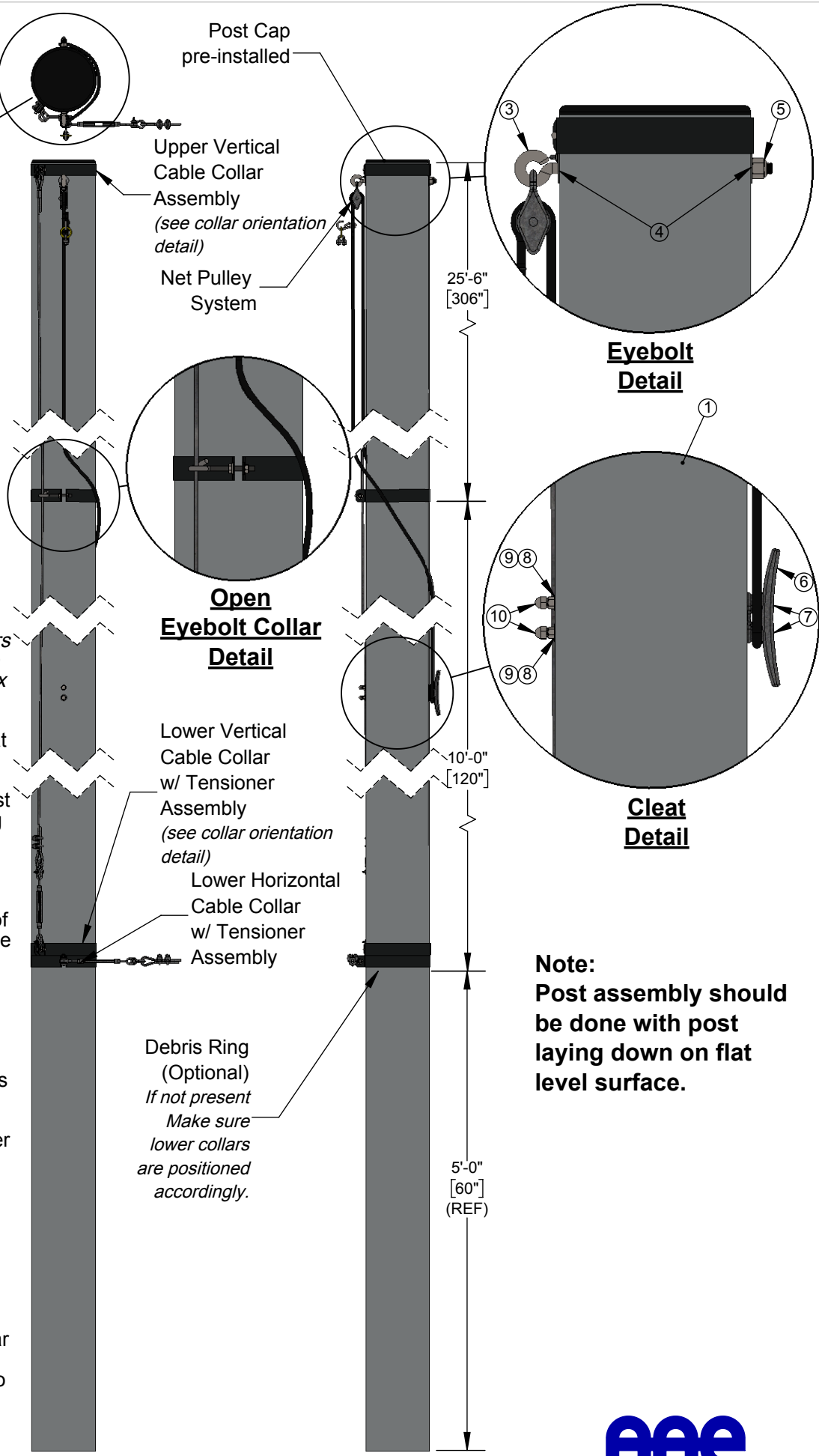## Left End Post
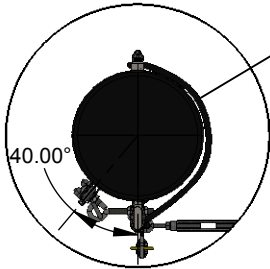
Collar Orientation Detail

*(Note: **ONLY** vertical cable collars should be turned away from netting)*

40.00°

Installation Notes:

1. **Lower Collars:** From bottom of pole slide the lower vertical cable collar, lower horizontal collar and and debris ring (*optional*) into position. To allow proper insertion into ground sleeve, lower most collar should be 60" from end of post. *Before securing collars into place make sure to rotate the lower vertical collar approx 40°.* (**refer to diagram**)

2. **Cleat:** Is to be installed so that it is on backside of post, opposite net. Screws will be inserted through cleat and post and secured on net side using flat washers, Nylock hex-nuts and cap nuts. (**refer to diagram**)

3. **Mid Collar:** Note orientation of collar on post. From top of pole slide the open eyebolt collar into position (**refer to diagram**) and secure into place.

4. **Eyebolt:** Pulley system comes preassembled to eyebolt. Install washer onto eyebolt then insert eyebolt with washer through front side of hole at top of post. From opposite side secure eyebolt into place using a flatwasher and self-locking hex-nut. (**refer to diagram**)

5. **Upper Collar:** From top of pole slide the upper vertical cable collar into position (collar should rest on eyebolt washers). Before securing into place make sure to rotate the collar approx 40°. (**refer to diagram**)

6. Make sure warning labels are present on goal posts.

Post Cap pre-installed

Upper Vertical Cable Collar Assembly
(see collar orientation detail)

Net Pulley System

Open Eyebolt Collar Detail

Lower Vertical Cable Collar w/ Tensioner Assembly
(see collar orientation detail)

Lower Horizontal Cable Collar w/ Tensioner Assembly

Debris Ring (Optional)
If not present Make sure lower collars are positioned accordingly.

Front View

Right View

25'-6" [306"]

10'-0" [120"]

5'-0" [60"] (REF)

Eyebolt Detail

③ ⑤
④

Cleat Detail

①
⑨⑧
⑩
⑥
⑦
⑨⑧

Note:
Post assembly should be done with post laying down on flat level surface.

SBS-35
Assembly Instruction
Inner Post
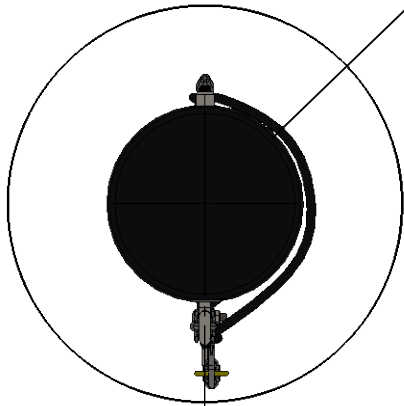
Collar Orientation Detail
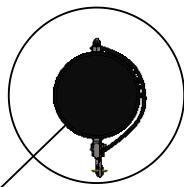
Eyebolt Detail

Post Cap pre-installed

Net Pulley System
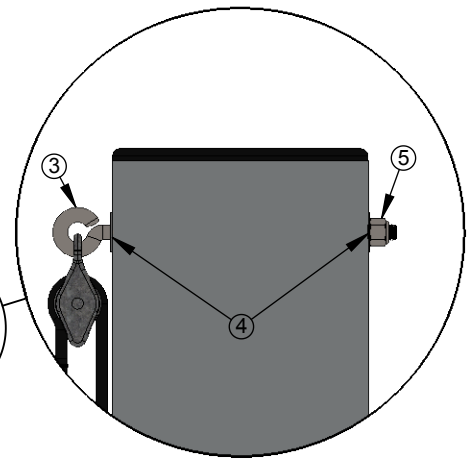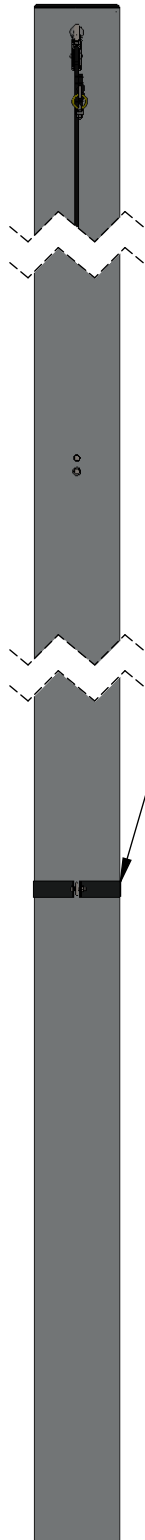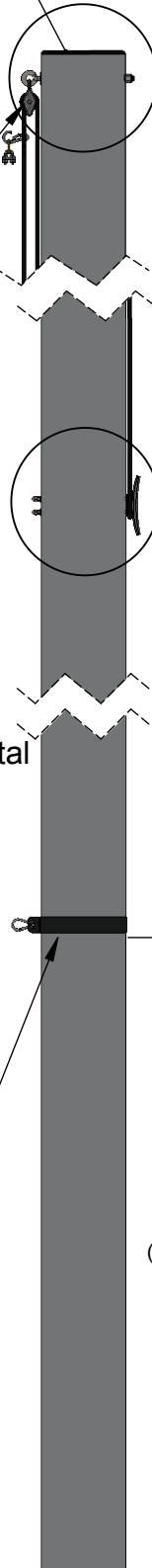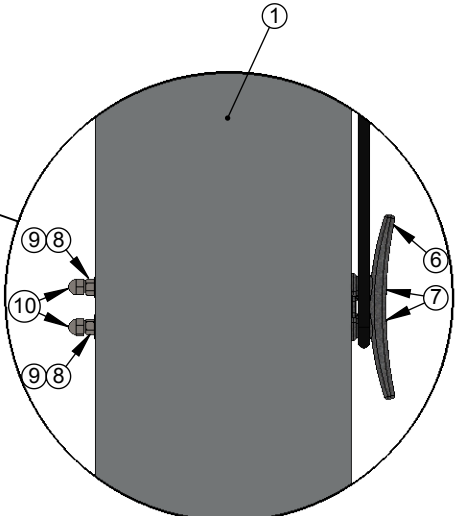
Cleat Detail

Installation Notes:

1. **Lower Collars:** From bottom of pole slide the lower horizontal collar and and debris ring (*optional*) into position. To allow proper insertion into ground sleeve, lower most collar should be 60" from end of post. *Before securing collars into place verify correct orientation.* (**refer to diagram**)

2. **Cleat:** Is to be installed so that it is on backside of post, opposite net. Screws will be inserted through cleat and post and secured on net side using flat washers, self locking hex-nuts and cap nuts. (**refer to diagram**)

3. **Eyebolt:** Pulley system comes preassembled to eyebolt. Install washer onto eyebolt then insert eyebolt with washer through front side of hole at top of post. From opposite side secure eyebolt into place using a flatwasher and self-locking hex-nut. (**refer to diagram**)

4. **Upper Collar:** From top of pole slide the upper vertical cable collar into position (collar should rest on eyebolt washers). *Before securing collars into place verify correct orientation.* (**refer to diagram**)

5. Make sure warning labels are present on goal posts.

Front View

Lower Horizontal Cable Collar w/ Pear Clip

Debris Ring (Optional)
If not present Make sure lower collars are positioned accordingly.

Right View

5'-0"
[60"]
(REF)

Note:
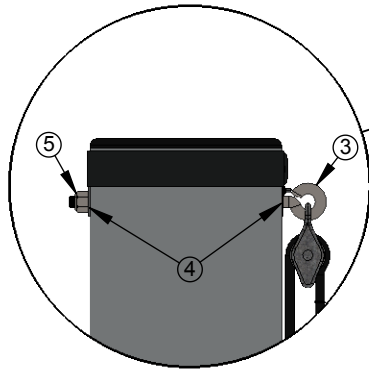**Post assembly should be done with post laying down on flat level surface.**

SBS-35
Assembly Instruction
Right End Post

Post Cap
pre-installed

Upper Vertical
Cable Collar
Assembly
*(see collar orientation
detail)*

Net Pulley
System

⑤ ③
④

Eyebolt
Detail

Installation Notes:

1. **Lower Collars:** From bottom of pole slide the lower vertical cable collar, lower horizontal collar and and debris ring (***optional***) into position. To allow proper insertion into ground sleeve, lower most collar should be 60" from end of post. *Before securing collars into place make sure to rotate the lower vertical collar approx 40°.* (**refer to diagram**)

2. **Cleat:** Is to be installed so that it is on backside of post, opposite net. Screws will be inserted through cleat and post and secured on net side using flat washers, self locking hex-nuts and cap nuts. (**refer to diagram**)

3. **Mid Collar:** Note orientation of collar on post. From top of pole slide the open eyebolt collar into position, refer to dimension provided and secure into place.

4. **Eyebolt:** Pulley system comes preassembled to eyebolt. Install washer onto eyebolt then insert eyebolt with washer through front side of hole at top of post. From opposite side secure eyebolt into place using a flatwasher and Nylock hex-nut. (**refer to diagram**)

5. **Upper Collar:** From top of pole slide the upper vertical cable collar into position (collar should rest on eyebolt washers). Before securing into place make sure to rotate the collar approx 40°. (**refer to diagram**)

6. Make sure warning labels are present on goal posts.

① ⑥ ⑦ ⑧⑨ ⑩ ⑧⑨
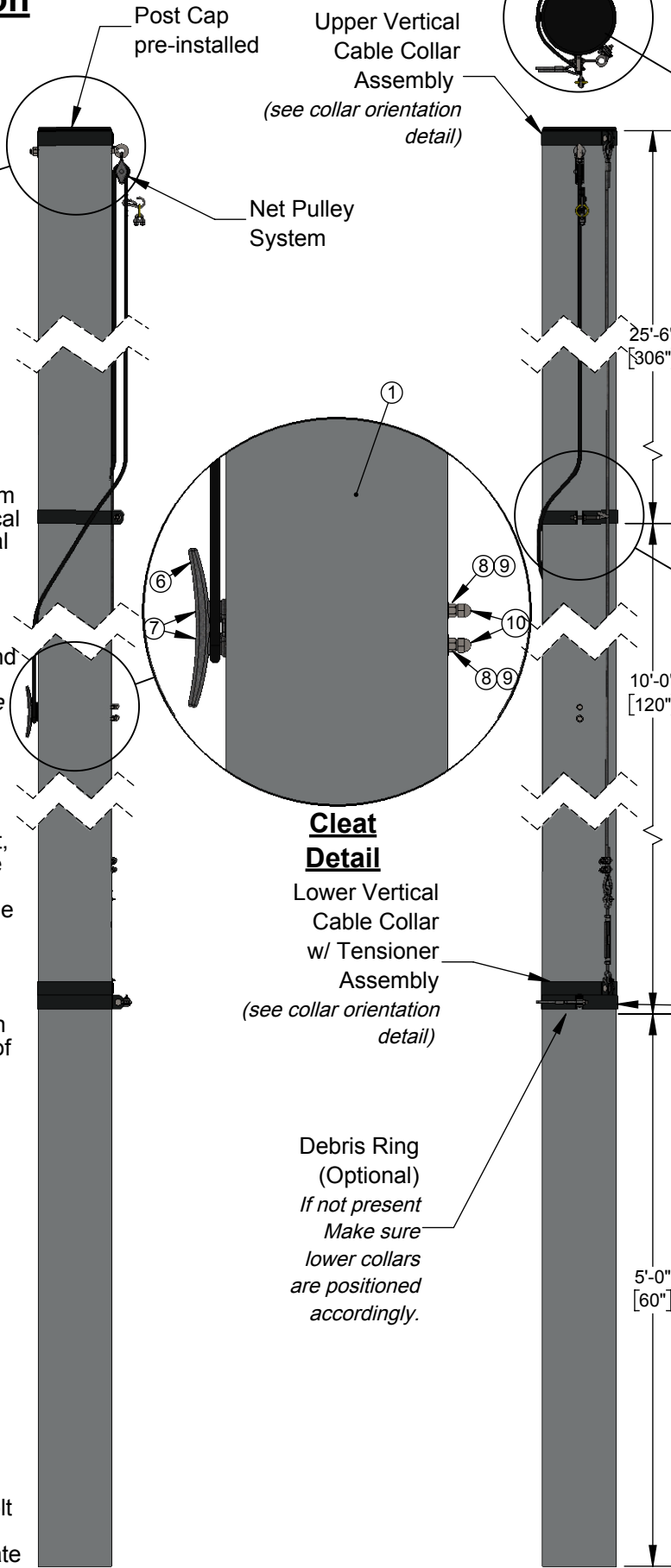
Cleat
Detail

Lower Vertical
Cable Collar
w/ Tensioner
Assembly
*(see collar orientation
detail)*

Debris Ring
(Optional)
*If not present
Make sure
lower collars
are positioned
accordingly.*

**Left
View**

**Front
View**

25'-6"
[306"]

10'-0"
[120"]

5'-0"
[60"]

40.00°

Collar Orientation
Detail
*(Note: **ONLY** vertical cable collars should be turned away from netting, this aids in tensioning the net)*

Open
Eyebolt Collar
Detail

Lower Horizontal
Cable Collar
w/ Anchor
Shackle for
Crimped End
Loop

**Note:
Post assembly
should be done
with post laying
down on flat
level surface.**

AAE®
Aluminum Athletic Equipment
1000 Enterprise Drive, Royersford, PA 19468
Toll Free: (800) 523-5471 Phone: (610) 825-6565
www.aaesports.com
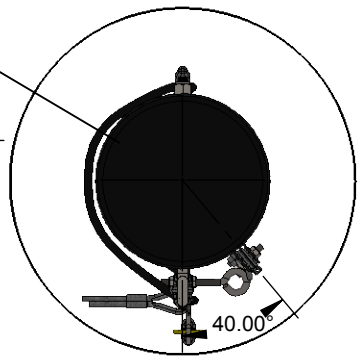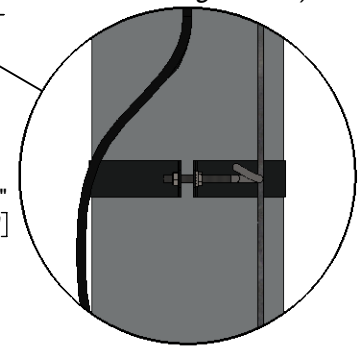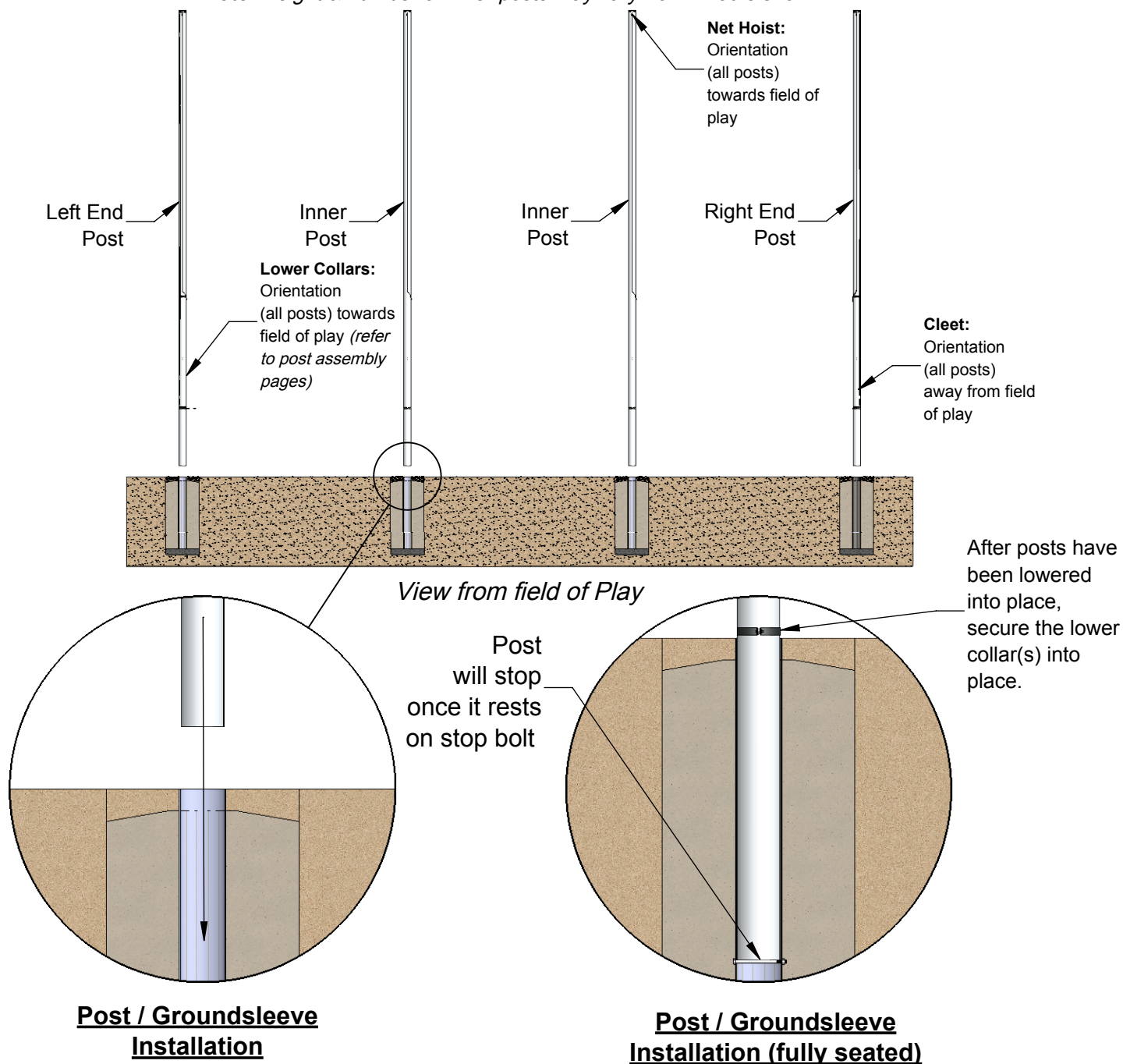
SBS-35
Assembly Instruction
Posts to Groundsleeve

Note: *Height & number of inner posts may vary from what is shown.*

Net Hoist:
Orientation
(all posts)
towards field of
play

Left End Post

Inner Post

Inner Post

Right End Post

Lower Collars:
Orientation
(all posts) towards
field of play *(refer
to post assembly
pages)*

Cleet:
Orientation
(all posts)
away from field
of play

View from field of Play

After posts have
been lowered
into place,
secure the lower
collar(s) into
place.

Post
will stop
once it rests
on stop bolt

**Post / Groundsleeve
Installation**

**Post / Groundsleeve
Installation (fully seated)**

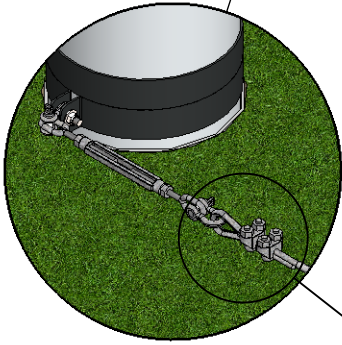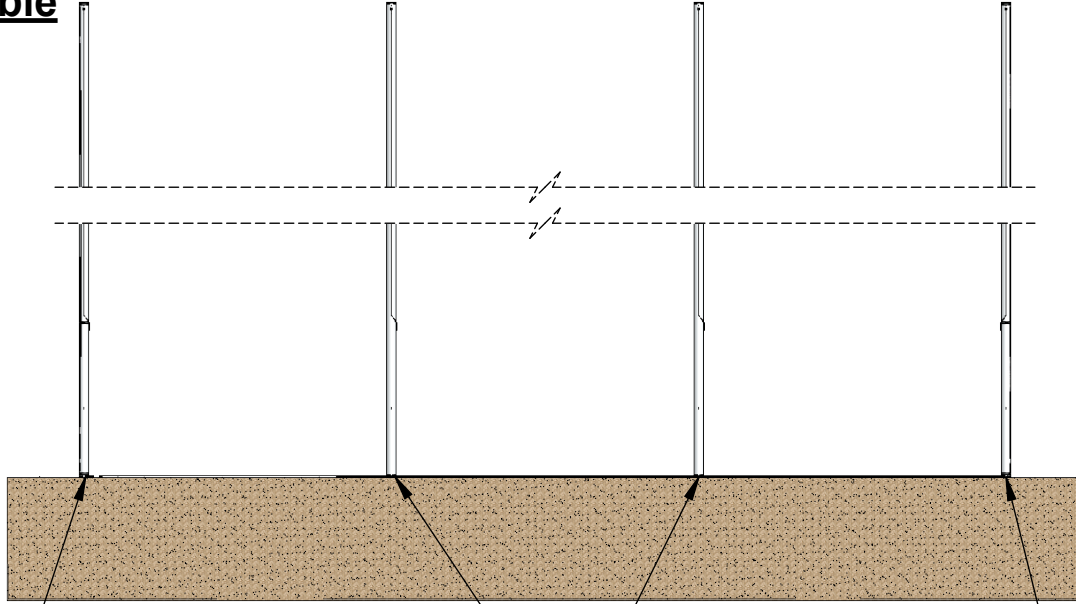## Installation Notes:

1. View above is from net side of post (*field
    of play*).

2. **Caution**, slowly lower posts into sleeves.
    Dropping post into sleeve may result in
    damage to the stop bolt.

3. Make sure all posts are orientated
    correctly. Pulley system towards field of
    play and cleet away from field of play. All
    lower horizontal cable collars should face
    field of play.

4. Once posts are correctly orientated, make
    sure the lower collars are properly
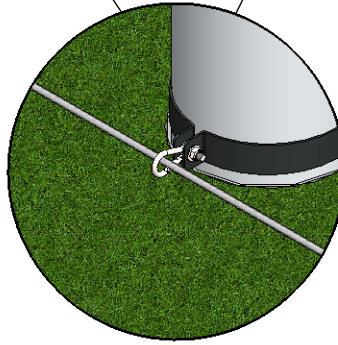   orientated and secure them into place.

AAe

Aluminum Athletic Equipment
1000 Enterprise Drive, Royersford, PA 19468
Toll Free: (800) 523-5471 Phone: (610) 825-6565
www.aaesports.com

SBS-35
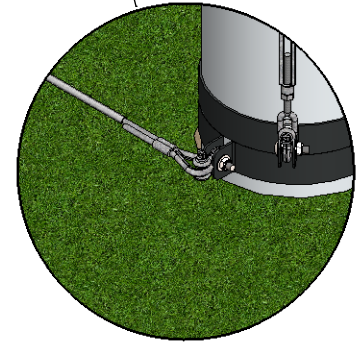## Assembly Instruction
Lower Horizontal
Support Cable
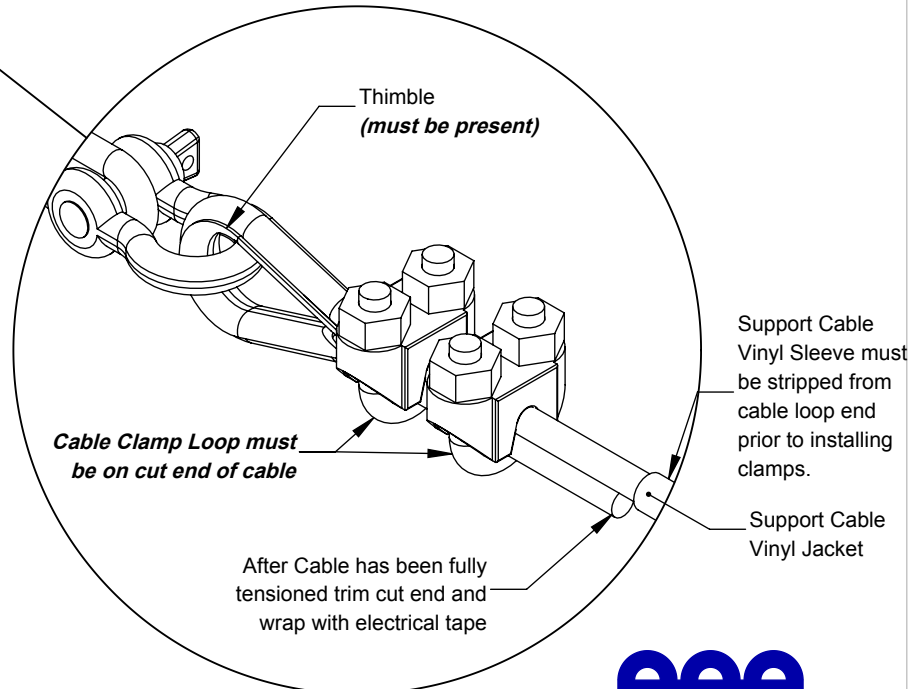
Left End Post
(Clamped Loop End)

Inner Post
(Pear Clip Collar Assembly)

Right End Post
(Crimped Loop End)

Installation Notes:

1. *Refer to collar assembly diagram for further detail on collar and cable assembly.*

2. Install Crimped Cable End to Right End Post collar using an anchor shackle.

3. Route cable to Left End Post. Snap cable into Pear Clips of the Inner Posts along the way

4. Before assembling Clamped Cable Loop End, fully open the turnbuckle.

5. With anchor shackle and thimble inplace run cable thru the shackle as shown. Pull slack out of cable and mark vinyl sleeve approximately 4" from thimble end. Strip vinyl from mark location towards cable loop end.

6. With the slack still being pulled out of cable install and secure the cable clamps. The first clamp should butt upto the thimble, the second should be spaced approx. 1" on center from the first. Cable clamps must be gripping bare cable to ensure proper seating/grip.
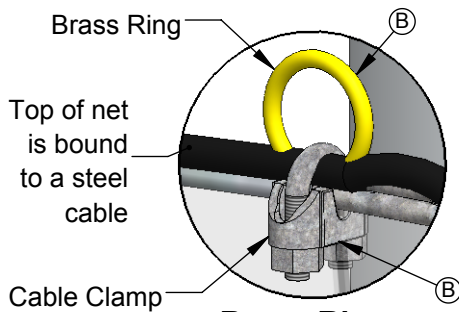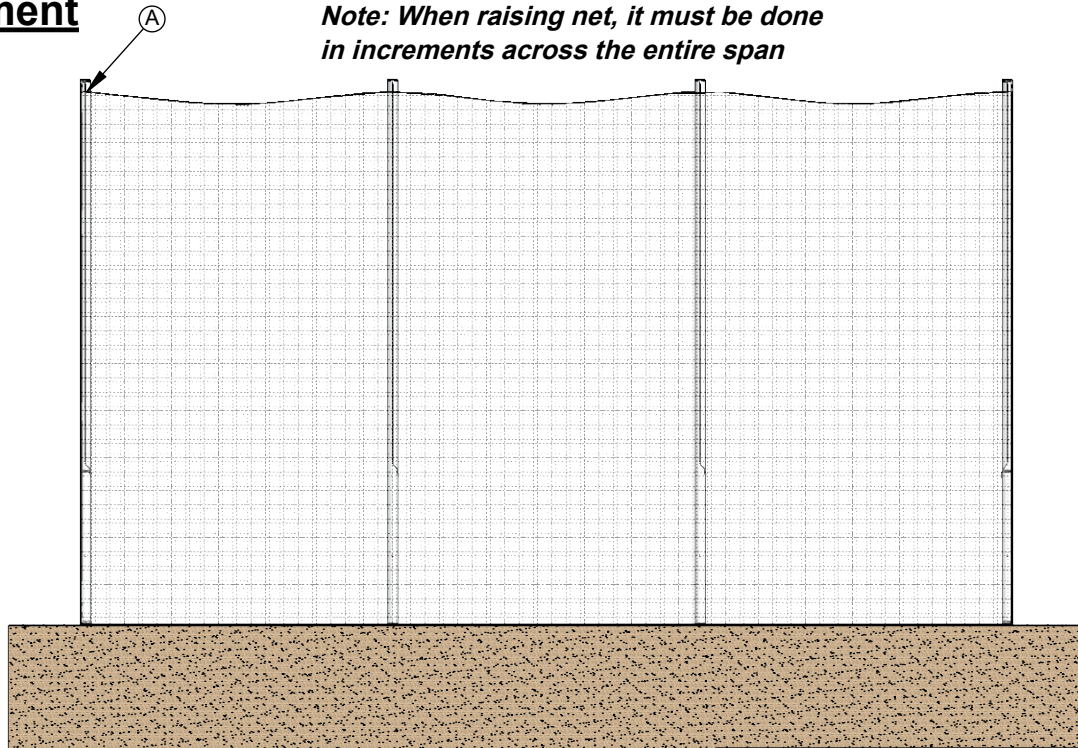
Thimble
(must be present)

Cable Clamp Loop must
be on cut end of cable

Support Cable Vinyl Sleeve must be stripped from cable loop end prior to installing clamps.

Support Cable Vinyl Jacket

After Cable has been fully tensioned trim cut end and wrap with electrical tape

Clamped Loop End
Detail

AAE®
Aluminum Athletic Equipment
1000 Enterprise Drive, Royersford, PA 19468
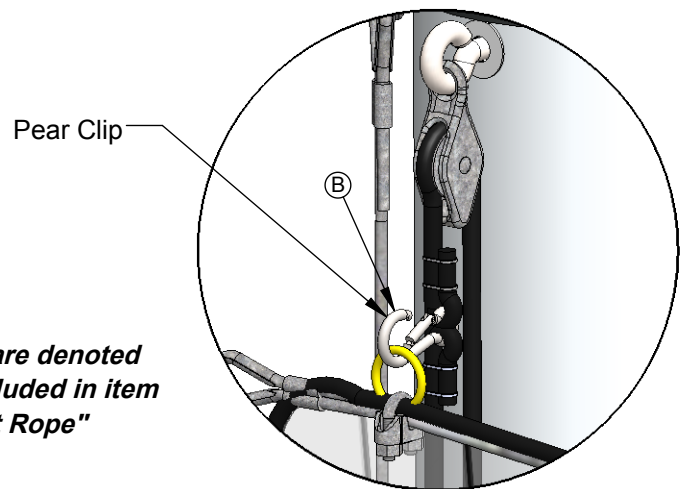Toll Free: (800) 523-5471 Phone: (610) 825-6565
www.aaesports.com

SBS-35
Assembly Instruction
Net Attachment

Note: When raising net, it must be done in increments across the entire span

Brass Ring

Top of net is bound to a steel cable

Cable Clamp

**Brass Ring
Detail A**

Note: Hardware denoted with "B" is included in item #3 "Hoist Rope"

Pear Clip

**Hoist System
Detail B**

Installation Notes:

1. Lay net on ground across span of posts. *Make sure net is centered accross span of posts.*

2. Using a Pear Clip Secure upper net corners to End Post Vertical Support Cables *(as shown in Detail C)*

3. Secure Brass Rings to top of net using Cable Clamp *(as shown in Detail A)*. One ring and clamp per post and they should be centered as close as possible to its coinciding post.

4. After Brass Rings have been secured to net, clip ring into it's posts hoist system Pear Clip *(as shown in Detail B)*.

5. As net is being raised make sure to secure net sides to the vertical support cables using provided **Pear Clips (refer to Detail C)**. Pear Clips should be spaced approx. 12" or 4 net squares.

6. Once net has been completed raised tie hoist ropes onto cleat.

Pear Clips Spaced approx. every 12", entire length of vertical cable (***Left and Right End Posts Only***)

**Net to End Post
Vertical Support Cable
Detail C**