WALLINGFORD SWARTHMORE
SCHOOL DISTRICT
Robert (Bob) Maloney, Director Buildings & Grounds
484-574-0247 (cell) email: rmaloney@wssd.org
200 South Providence Road
Wallingford, Pa., 19086

Nether Providence Elem School (NPE) Installation of Baseball Batting Tunnel

Nick Cirilli, PE 610-613-3455 (cell) ncirilli@comcast.net
Bob Maloney 484-574-0247 (cell) rmaloney@wssd.org

Location Plan

No Scale

Nether Providence Elem. Sch
410 Moore Road
Wallingford. Pa 19086

Batting Tunnel
Supplemental Sketches

Nether Providence Elementary School
410 Moore Road
Wallingford, Pa., 19086

Nick Cirilli, PE email: ncirilli@comcast.net
Fred Pondo, PE emal: fpondo@gmail.com

Nether Providence Elementary School
Batting Tunnel Scope of work

References:

1. AAE BT-121470 batting Tunnel drawings and installation packet
2. Supplemental Sketches dated December 22, 2023

1. Remove and dispose of existing pressure treated lumber curb

2. Remove fines/stone and store on site for reuse later

3. Remove and legally dispose of earth to desired grade versus existing footings per **Supplemental Sketches.**

4. Install tampins per layout drawing BT-121470-C-002 at elevation shown on **Supplemental Sketches.**

5. Install 8x8 PT timber curbing under perimeter of new batting tunnel per **Supplemental Sketches**.

6. Install stone, screenings, and Premium Diamond-Tex inside curb per **Supplemental Sketches.**

7. Assemble batting tunnel per manufacturer instructions. Note: Longer eye bolts may need to be supplied and installed.

8. Remove soil and regrade area adjacent to batting tunnel per plan to create a water diversion swale. Legally dispose of all excess material.

9. Install topsoil and reseed all disturbed areas including work access way and new swale area. Disturbed areas of site shall be seeded with a blend of Pennlawn-fine Fescue (67%) and perennial rye (33%). Cover seeded areas with Curlex or excelsior biodegradable blankets.

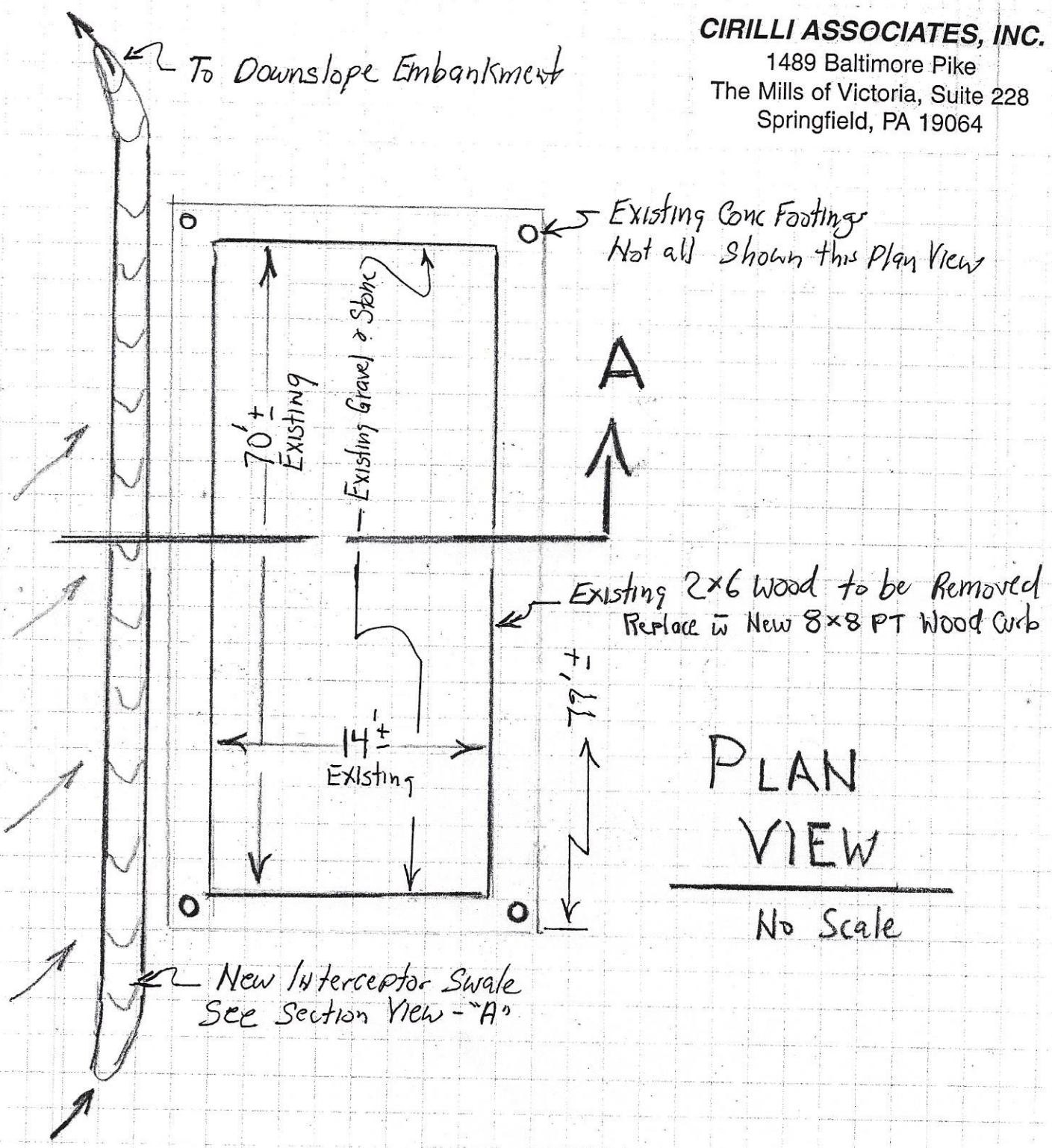
NOTES:

a. Batting Tunnel has been purchased by school district and is available for inspection.

b. Contractor shall have a survey instrument on site at all times to ensure proper elevations and positive perimeter drainage.

c. Premium Diamond-Tex by Martin Limestone, Inc
74 Kurtz Rd, Denver, Pa. 17517
Sales: 800-422-8107 ext 1525.

CIRILLI ASSOCIATES, INC.
1489 Baltimore Pike
The Mills of Victoria, Suite 228
Springfield, PA 19064

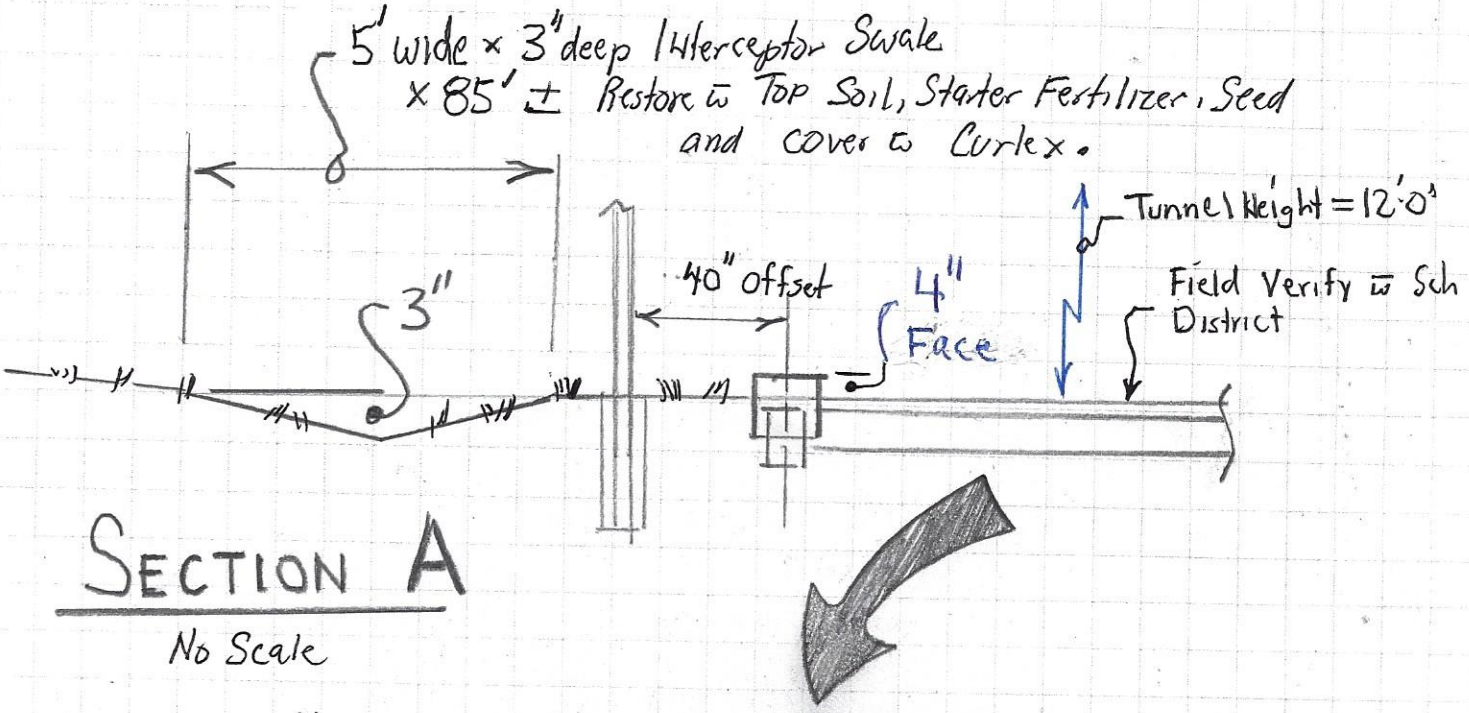


PLAN VIEW

No Scale

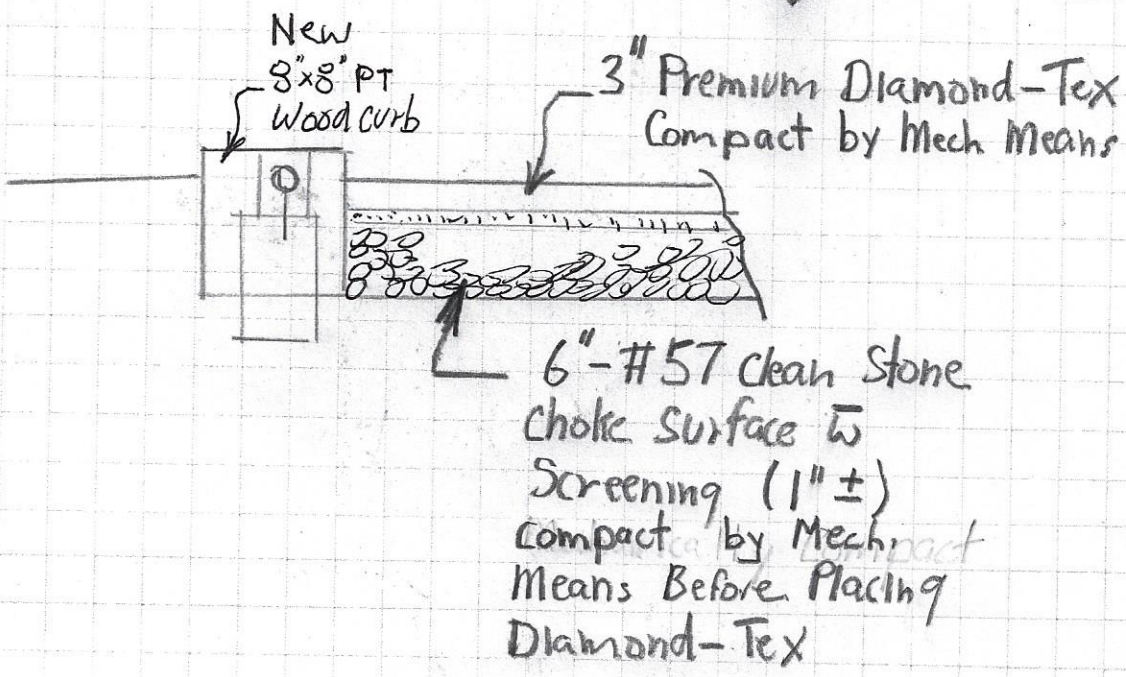
NPE

CIRILLI ASSOCIATES, INC.
1489 Baltimore Pike
The Mills of Victoria, Suite 228
Springfield, PA 19064



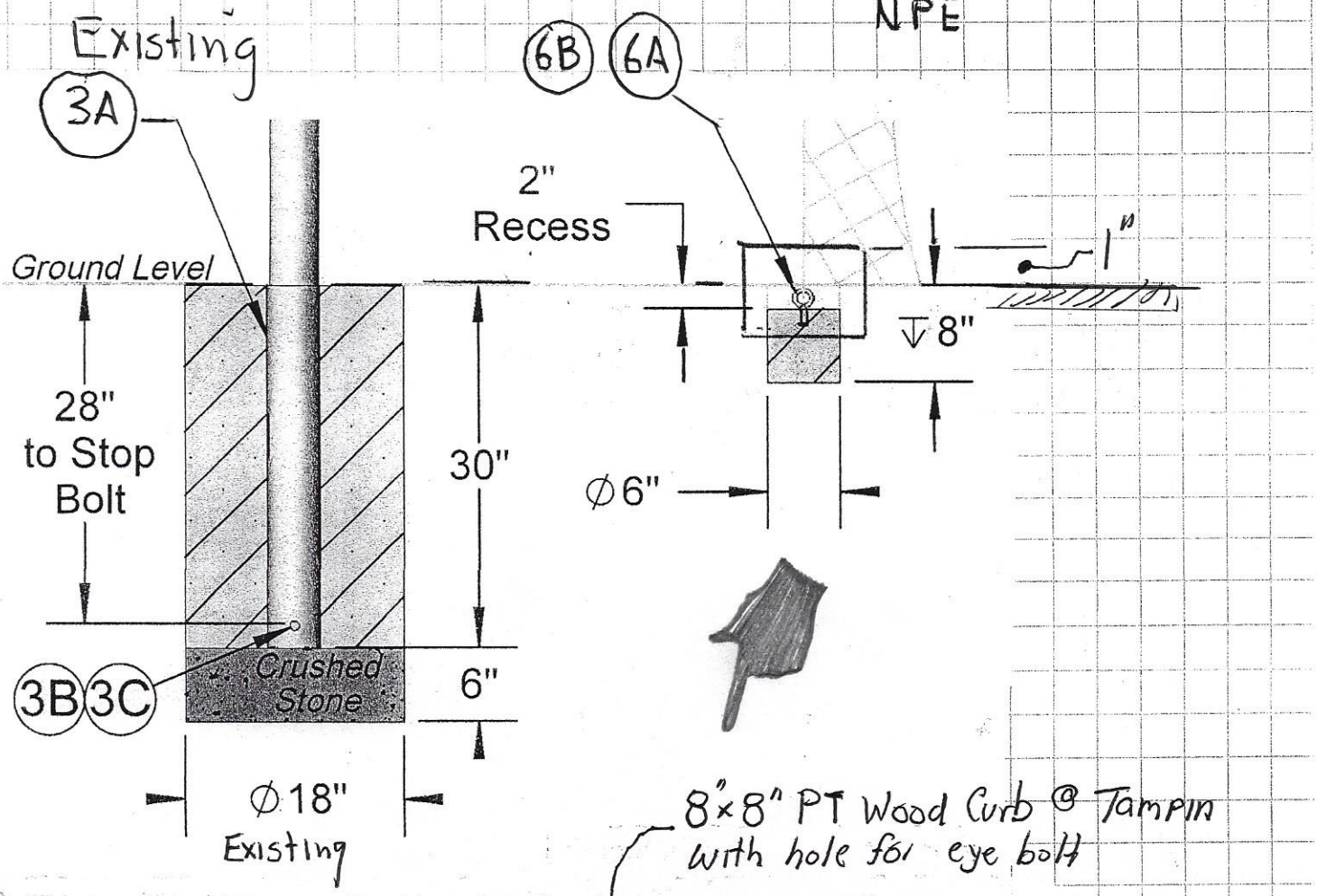
SECTION A

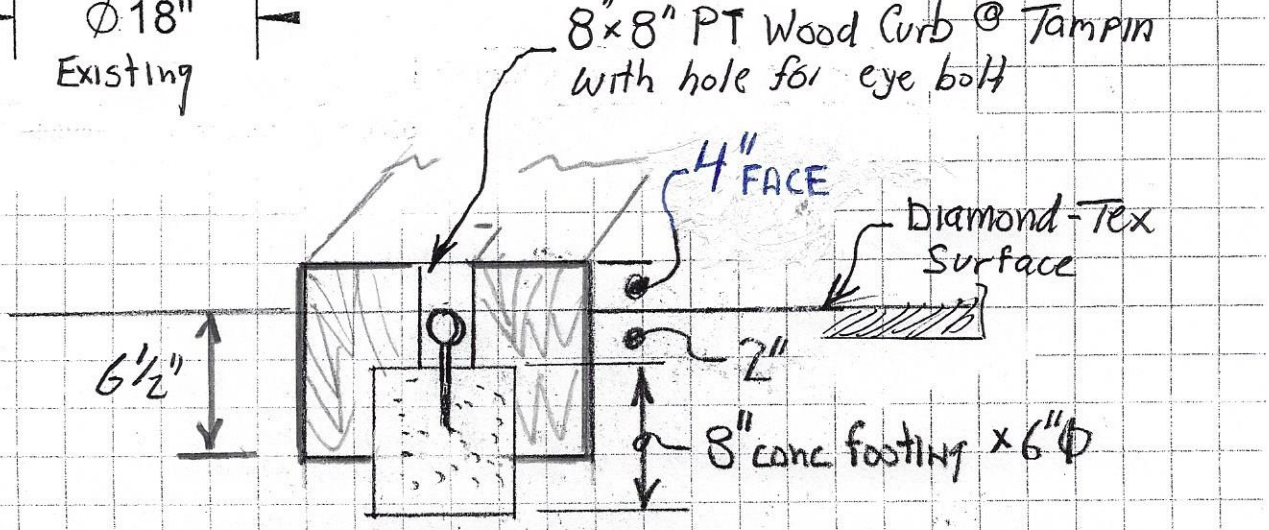
No Scale



Existing

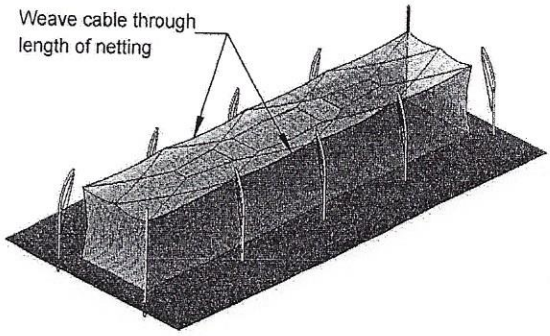
NPE

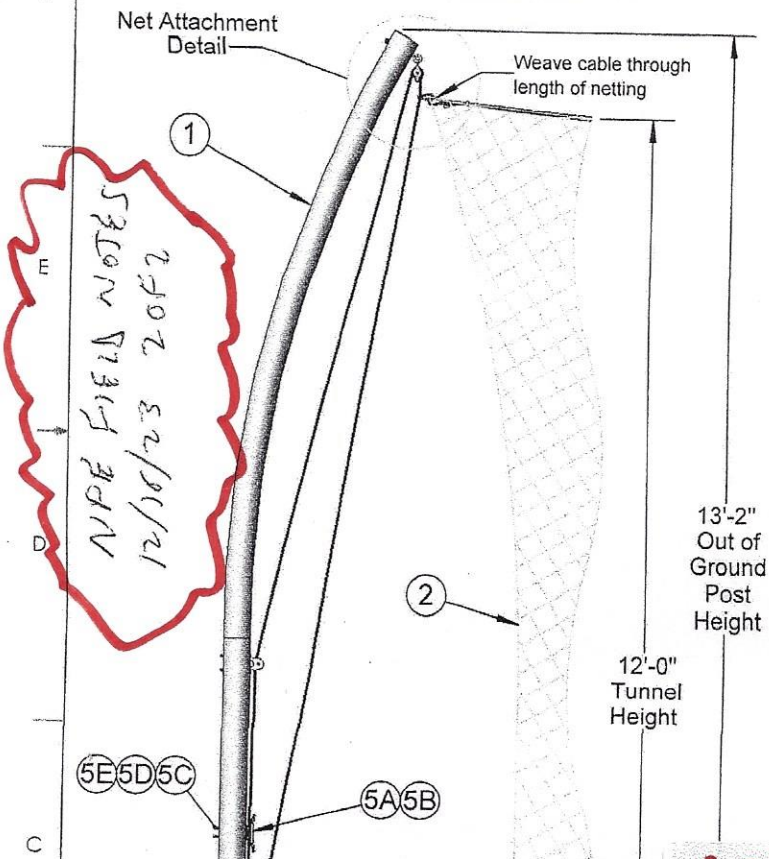


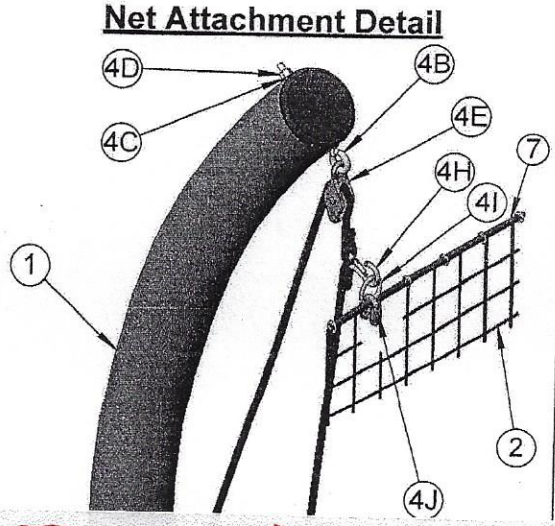


Reference: See Dwg
BT. 121470-C-003 and C-004

BT-121470 - Batting Tunnel
12'H x 14'W x 70'L
Installation & Upright Specifications







NPE Field Notes
12/15/23
2 of 2

NPE Existing Condition

5D 5C 4G 4F

LEVEL +3" VS. CONCRETE TYPICAL

Existing 2x6 To Be Replaced w 8x8 PT

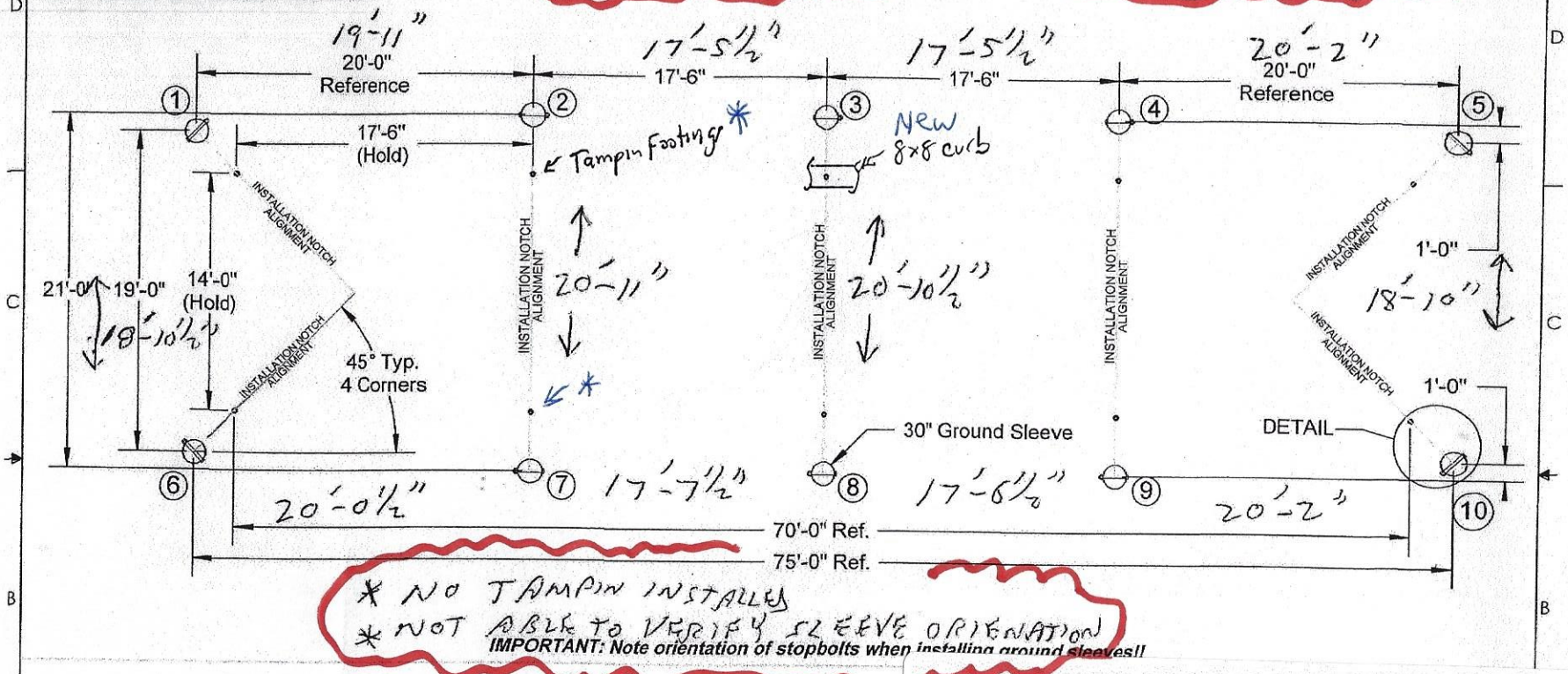
Consult local codes for ...te footing sizes

MODEL:	CATEGORY:	DATE:
BT-121470	CUSTOMER	07/06/11
DWN. BY: ARP	CAD FILE: BT-121470 Packet	DWG. NO. BT-121470-C-003

BT-121470 - Batting Tunnel
12'H x 14'W x 70'L
Ground Sleeve Layout

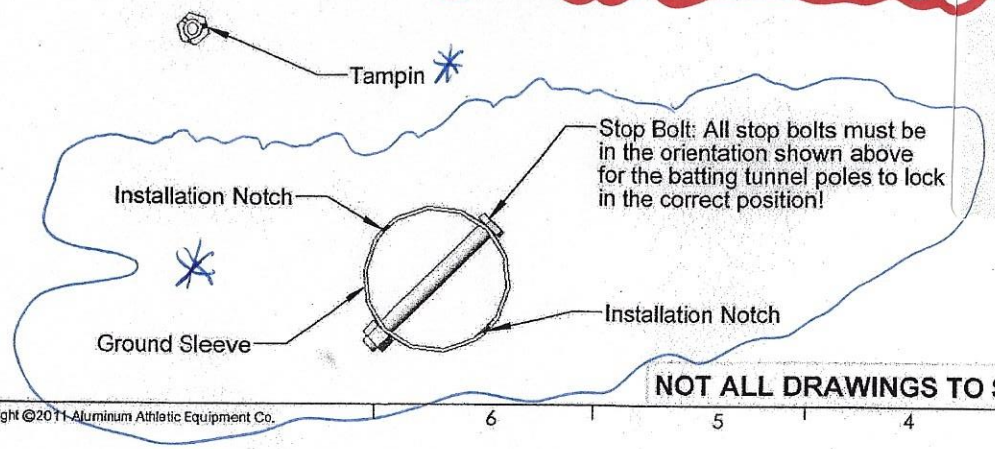
XX'-XX" ACTUAL

NPE FIELD NOTES
12/16/23 1 of 2



* NO TAMPIN INSTALLED
* NOT ABLE TO VERIFY SLEEVE ORIENTATION

IMPORTANT: Note orientation of stopbolts when installing ground sleeves!!



NPE Existing Conditions

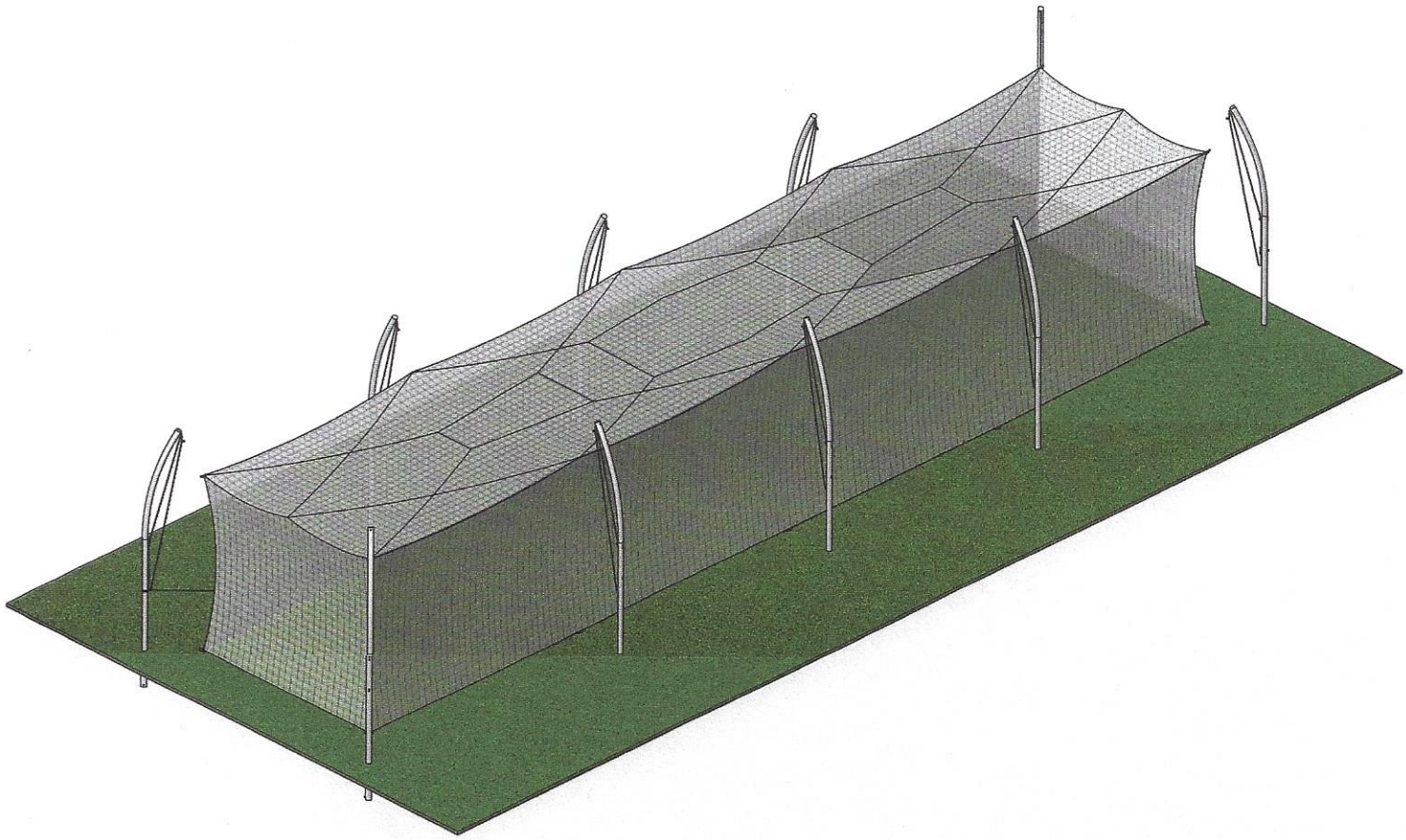
DESCRIPTION: BT-121470 - Batting Tunnel			
NOTE: Plan View Layout of Ground Sleeves			
MODEL: BT-121470	CATEGORY: CUSTOMER	DATE: 07/06/11	
DRAWN BY: ARP	CAD FILE: BT-121470 Packet	DWG. NO.: BT-121470-C-002	

NOT ALL DRAWINGS TO SCALE

NPE

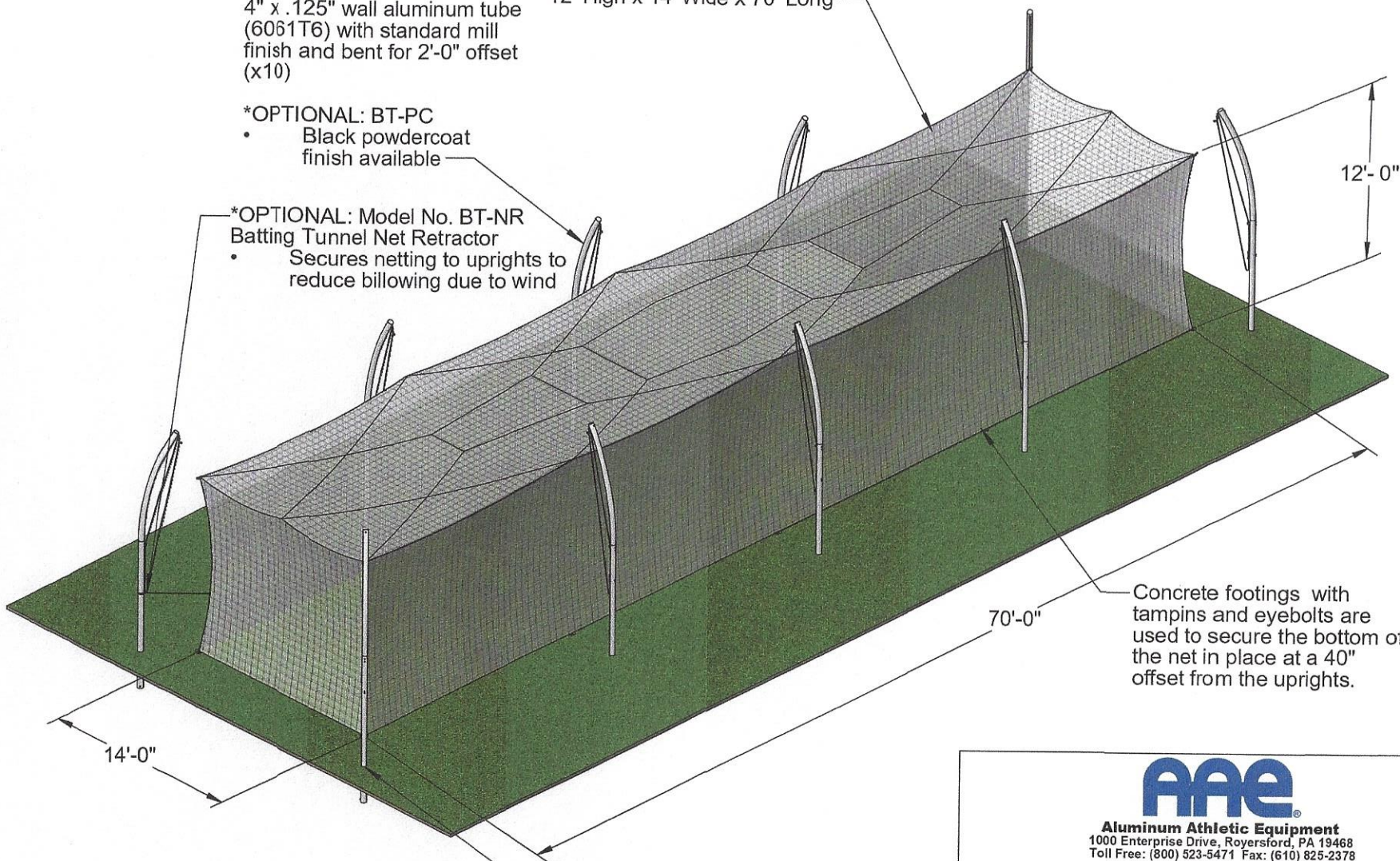
BT-121470

12'H x 14'W x 70'L Batting Tunnel



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

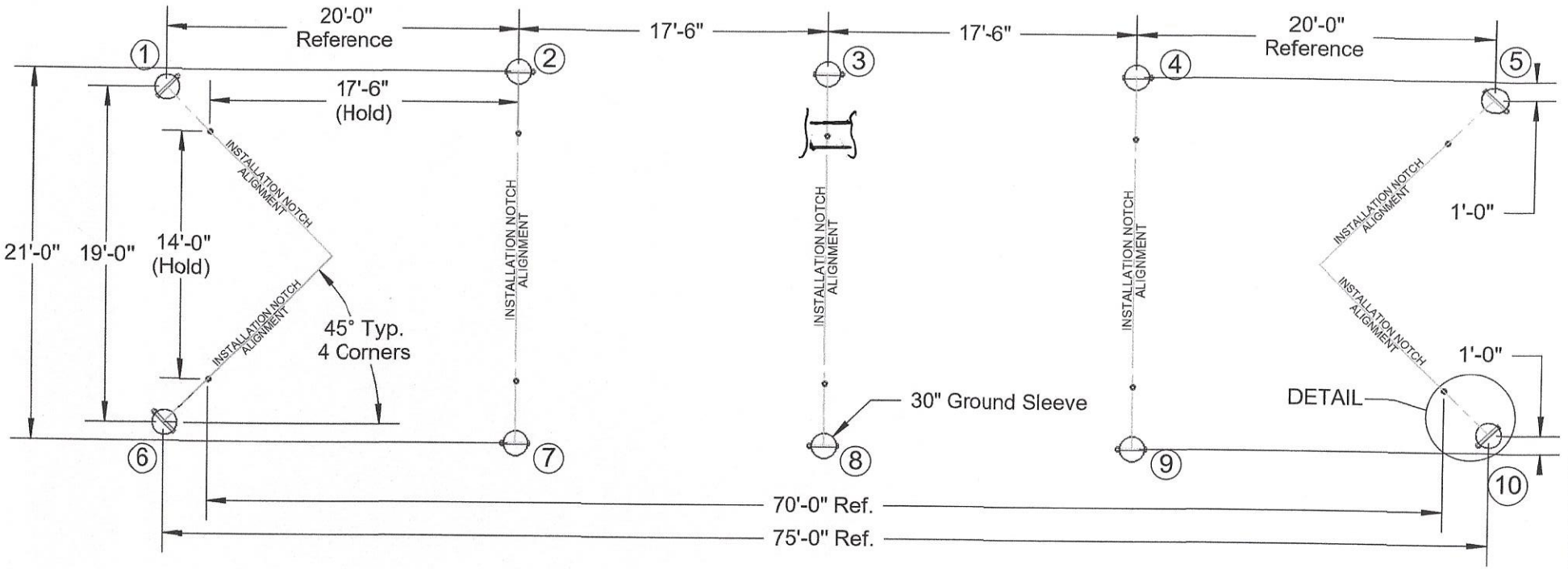
BT-121470 - Batting Tunnel
12'H x 14'W x 70'L
Specifications & Accessories



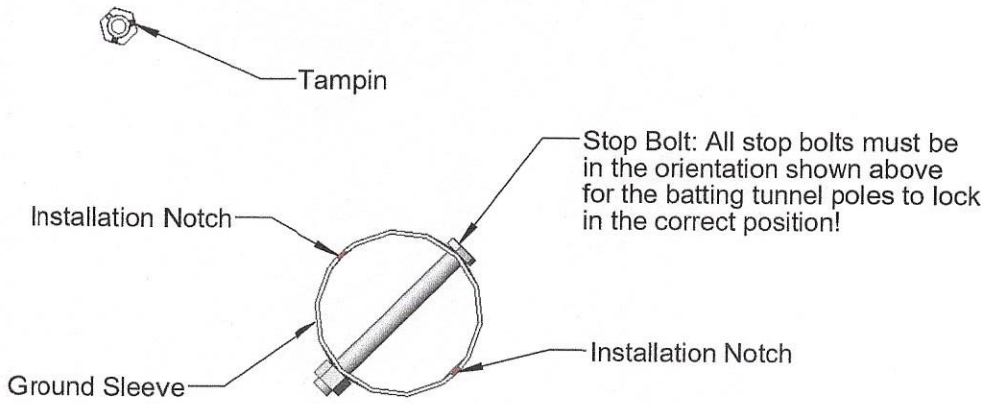
Aluminum Athletic Equipment
1000 Enterprise Drive, Royersford, PA 19468
Toll Free: (800) 523-5471 Fax: (610) 825-2378
www.AAEsports.com

DESCRIPTION: BT-121470 - Batting Tunnel		
NOTE: 12'H x 14'W x 70'L Batting Tunnel Specifications & Accessories		
MODEL: BT-121470	CATEGORY: CUSTOMER	DATE: 07/06/11
DWN. BY: CED	CAD FILE: BT-121470 Packet	DWG. NO. BT-121470-C-001

BT-121470 - Batting Tunnel
12'H x 14'W x 70'L
Ground Sleeve Layout



IMPORTANT: Note orientation of stopbolts when installing ground sleeves!!



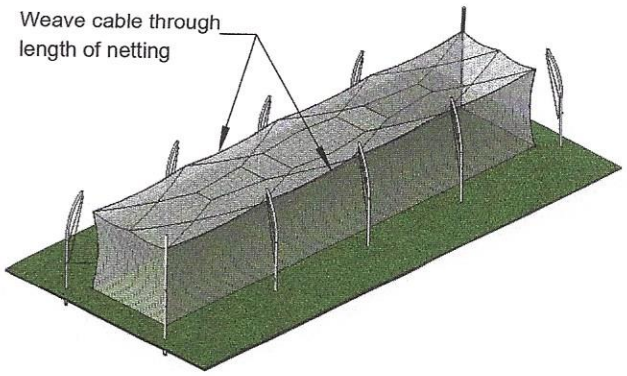
NOT ALL DRAWINGS TO SCALE

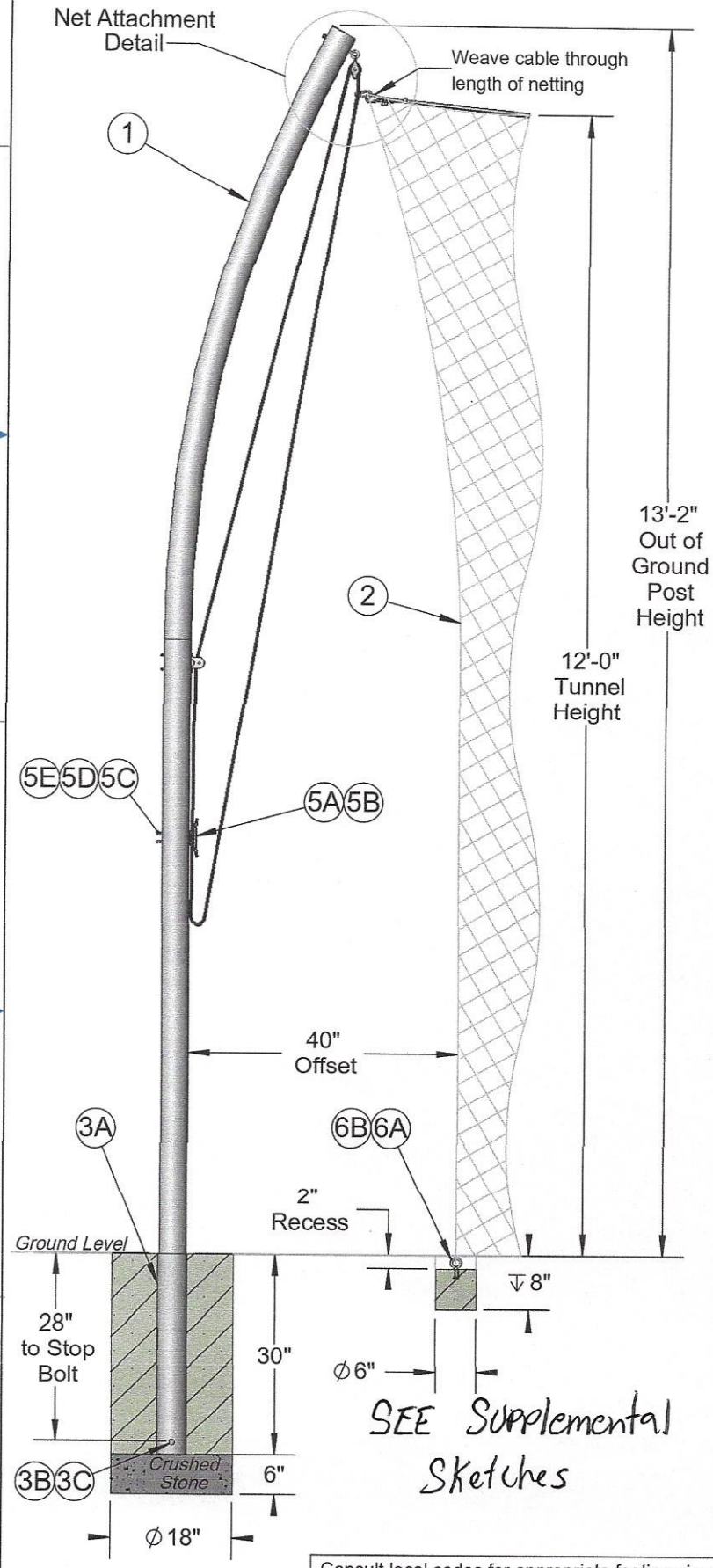
Additional Notes:
- ∅4 3/8" OD x .125" wall all aluminum (6061T6) ground sleeves
- All stainless steel hardware

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

DESCRIPTION: BT-121470 - Batting Tunnel			
NOTE: Plan View Layout of Ground Sleeves			
MODEL: BT-121470	CATEGORY: CUSTOMER	DATE: 07/06/11	
DRAWN BY: ARP	CAD FILE: BT-121470 Packet	DWG. NO. BT-121470-C-002	

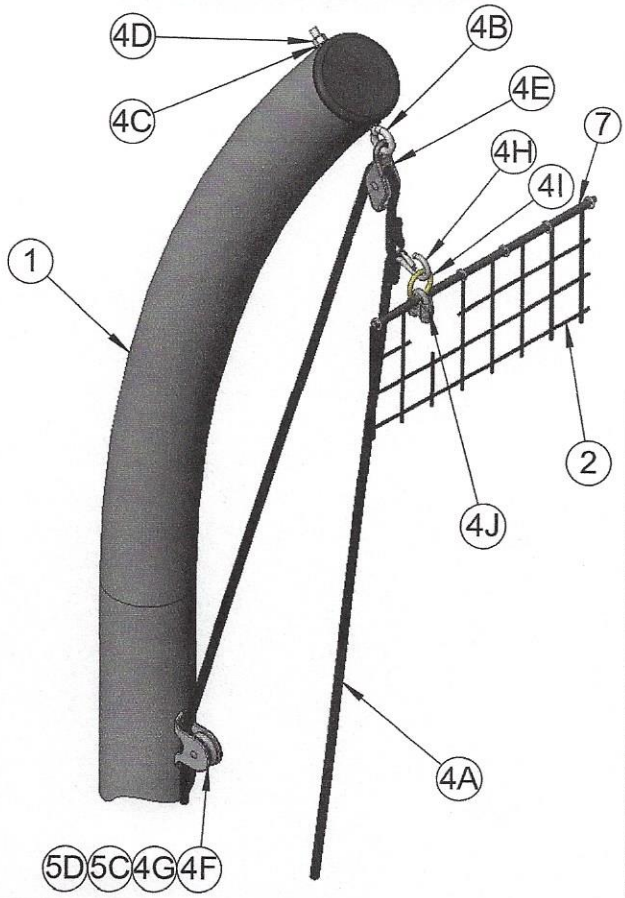
BT-121470 - Batting Tunnel
12'H x 14'W x 70'L
Installation & Upright Specifications





SEE Supplemental Sketches

Net Attachment Detail

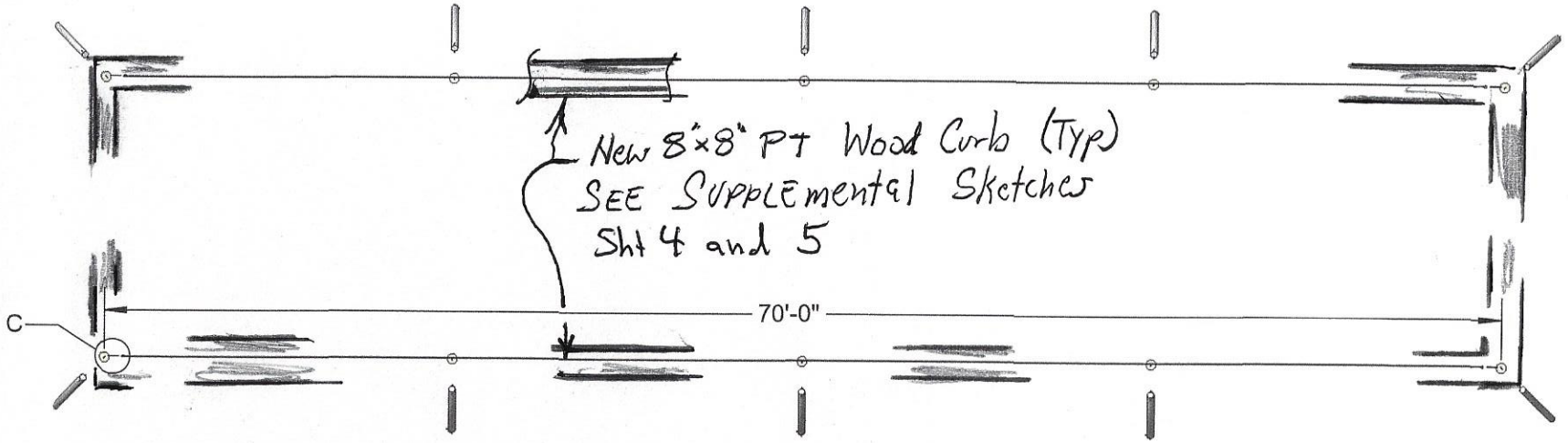


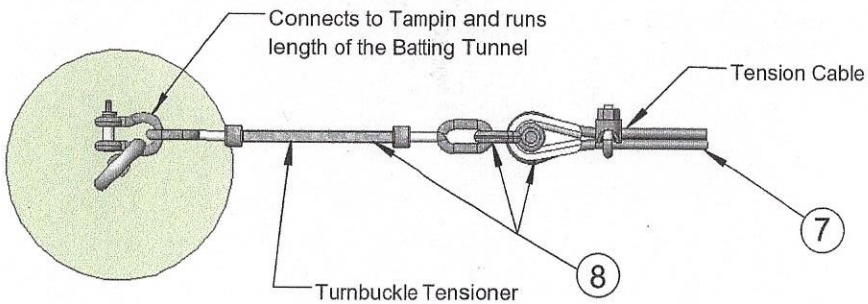
Consult local codes for appropriate footing sizes

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

DESCRIPTION: BT-121470 - Batting Tunnel		
NOTE: Installation & Upright Specifications		
MODEL: BT-121470	CATEGORY: CUSTOMER	DATE: 07/06/11
DWN. BY: ARP	CAD FILE: BT-121470 Packet	DWG. NO. BT-121470-C-003

Tension Cable Layout





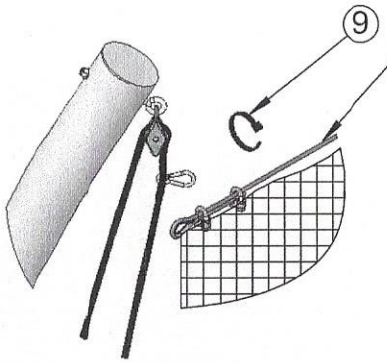
DETAIL C
SCALE 1 : 5

Note: Stop the tensioned cable one tampin short of the end pole where Players will enter.

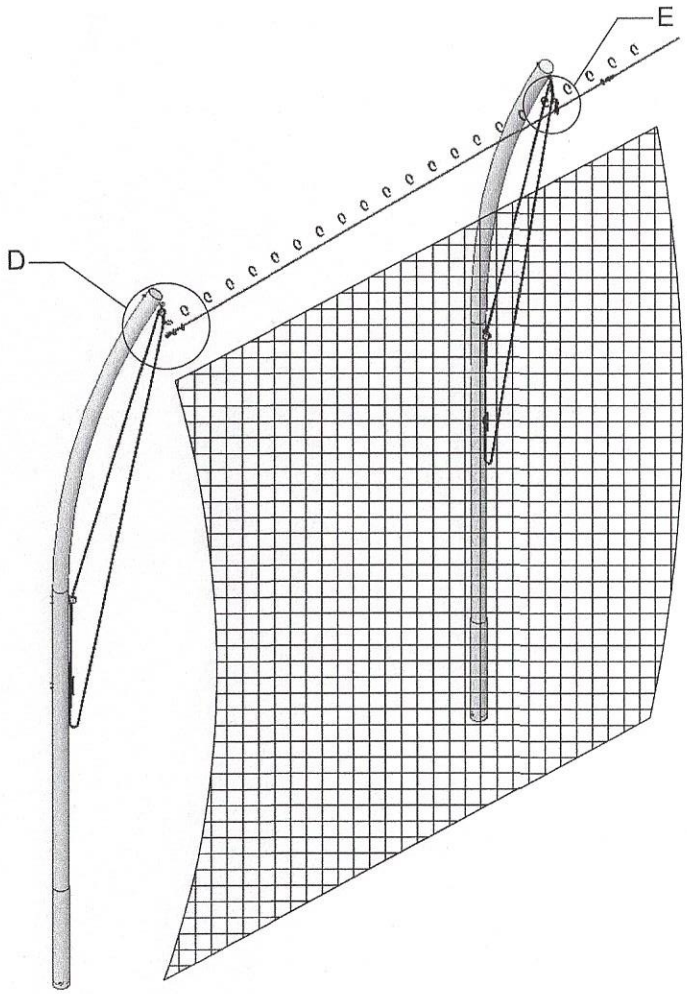
Aluminum Athletic Equipment
1000 Enterprise Drive, Royersford, PA 19468
Toll Free: (800) 523-5471 Fax: (610) 825-2378
www.AAEsports.com

DESCRIPTION: Tension Cable Layout			
NOTE: 70' - 0"			
MODEL: BT-121470	CATEGORY: CUSTOMER	DATE: 01/30/2018	
DWN. BY: CED	CAD FILE: BT-121470 CAD Packet	DWG. NO. BT-121470-C-004	

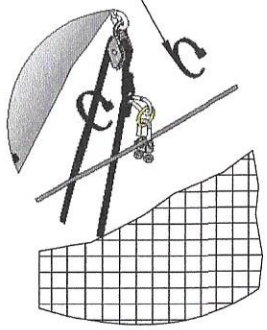
Batting Tunnel Cable



DETAIL D



Use cable ties every 1 to 2 feet to secure net to cable



DETAIL E

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

DESCRIPTION: Batting Tunnel Cable			
NOTE: Cable Diagram			
MODEL: BT-121470	CATEGORY: CUSTOMER		DATE: 01/30/2018
DWN. BY: CED	CAD FILE: BT-121470 CAD Packet		DWG. NO. BT-121470-C-005

BT-121470
12' H x 14' W x 70' L BATTING TUNNEL
PARTS LIST

Pt#	Item	Description	Qty.
1	Upright	4.00"o.d. x .125 x 15'6" aluminum tube, 24" arc offset, 6061T6	10
2	Main Net	1-3/4" square x 12' high x 14' wide x 70' long poly net	1
3A	Ground Sleeve	4.35" o.d. x .100 x 30" 6061T6 aluminum tube, with cast aluminum cap	10
3B	Stopbolt	1/2"- 13 x 5" steel hex bolt, plated	10
3C	Stopbolt Nut	1/2"- 13 steel hex nut, plated	10
4A	Hoisting Rope	5/16" polypropylene black braided rope, 26' long	10
4B	Eyebolt	5/16"-18 x 6" steel eyebolt, S.S.	10
4C	Washer	5/16" washer, S.S.	10
4D	Nut	5/16"-18 steel nylon lock nut, S.S.	10
4E	Swivel Pulley	#3-5 fast eye, galvanized steel, swivel pulley.	10
4F	Pulley	#18-1 deck block galvanized steel pulley	10
4G	Pulley bolt	1/4"- 20 x 4-1/2" hex bolt, S.S.	20
4H	Pear Clip (Main Net)	1/4" Pear Clip, S.S.	20
4I	O-Ring	1-1/4" dia. Brass O-Ring	10
4J	Cable Clamp	1/4" cable clamp, galvanized steel	10
5A	Cleat	6" galvanized steel cleat	10
5B	Cleat bolt	1/4"- 20 x 5-1/2" steel hex bolt, S.S.	20
5C	Washer	1/4" washer, S.S.	40
5D	Nut	1/4"-20 steel nylon lock nut, S.S.	40
5E	Nut	1/4"-20 steel acorn nut, S.S.	20
6A	Eyebolt	3/8"-16 x 2-1/2" steel eyebolt, S.S.	10
6B	Concrete Anchor	3/8"-16 tampin insert, P25T	10
7	Main Net Tension Cables	3/16" vinyl coated galvanized cable assembly (70' long)	4
8	Tensioner Kit	Galvanized 5/8" Tensioner, cable clamps, cable loop, shackles	2
9	Wire Ties	Black polypropylene net ties	100

FOR TECHNICAL ASSISTANCE, CALL 1-800-523-5471

K:\AAE Data\Product Instructions & Parts Lists\BT-121470\BT-121470 Parts List.doc

BT-121470
12'H x 14'W x 70'L BATTING TUNNEL
LAYOUT AND INSTALLATION INSTRUCTIONS

LAYOUT: Refer to Drawing No. BT-121470-C-002

INSTALLATION:

Step No. 1 Placing Ground Sleeves	Drill or dig 15"-18" diameter holes a minimum of 36" deep **(Consult local building codes for concrete depth and drainage requirements.)** at each Ground Sleeve Location. Fill the bottom of each hole with approximately 6" of crushed stone, so the depth from ground level to the top of the stone is 30". Insert 30" aluminum ground sleeves (Item No. 3A) "bolt side" down. Make sure the ground sleeves are flush with the ground, centered, leveled (individually, as well as with each other), and plumb. Also, rotate the ground sleeves so that the two (2) grooves (Installation notches) on top of the ground sleeve are aligned correctly - See Drawing No. BT-121470-C-002 for details. **NOTE: It is extremely important** that the Installation Notches on top of the ground sleeve are in proper alignment, so the keyslot in the main upright will lock the upright into its proper position when set into the ground sleeve.
Step No. 2 Setting Ground Sleeves	When all the ground sleeves are in the proper position and alignment, the concrete can be poured. **(Be sure not to get any concrete inside the ground sleeves!)** As the concrete cures, constantly check to see that the ground sleeves are flush with the ground, centered, plumb, and in the correct alignment.
Step No. 3 Drilling & Pouring Concrete Piers See Drawing No. BT-121470-C-002	Drill or dig 6" diameter holes 10" deep (Consult local building codes for concrete depth and drainage requirements.) At each "tampin location". Fill void with concrete to a level 2" below ground level. While the concrete is still in a semi-pliable state, place the tampin insert (Item No. 6B) in the center of the pier so that the top of the insert is flush with the top level of the concrete. **(DO NOT get concrete inside the tampin insert!)** When concrete has hardened, thread 3/8"-16 eyebolt w/ attached Pear Clip (Item Nos. 6A & 4H) into inserts.
Step No. 4 Upright Assembly See Drawing No. BT-121470-C-003	Attach swivel pulley, w/ attached eyebolt, (Item Nos. 4B & 4E) to the top hole of the upright using a 5/16"-18 nylon lock nut (Item No. 4D). (If there are 2 holes present at the top of the upright, mount the pulley and eyebolt through the **top** hole.)

Attach a fixed pulley (Item No. 4F) through the middle set of holes using 1/4"-20 x 4-1/2" hex bolts (Item No. 4G) and 1/4"-20 nylon lock nuts (Item No. 5D).

Attach one cleat (Item No. 5A) through the lower set of holes using 1/4"-20 x 5-1/2" hex bolts (Item No. 5B) and 1/4"-20 nylon lock nuts (Item No. 5D). Cap threads with 1/4" -20 acorn nuts (Item No. 5E).

Thread hoisting rope (Item No. 4A) with attached pear clip (Item No. 4H) through top pulley, middle pulley, and secure to cleat.

After concrete cures, insert assembled upright into ground sleeve. Repeat procedures to assemble other uprights.

Step No. 5

Installing Bottom Tensioned Cables

Lay 70' long cables out length-wise (x2). Attach pre-made loop end thimble with anchor shackle to corner tampin eyebolt on ground. End cable a bay short on the corner where entrance is preferable (this will allow for net to be clipped on and off for easy entering. Position turnbuckle at one end and make up with thimble. Make sure to remove the cable coating (2' typical) with a box cutting knife *BE CAREFUL. Pull the cable around the thimble, which is attached to the corner eyebolt via an anchor shackle. Use cable clamps anchor shackles Tension all cables and clip cable at intermediate locations along the length.

(Ask AAE about the BT-EZ Batting Tunnel Entrance Zipper, which can be added to any batting tunnel net to create an opening in any location on the net.)

Step No. 6

Installing Main Net

Lower hoisting rope w/ attached pear clip and cable clamp (Item Nos. 4A, 4H, & 4J) to about 4 ft. above ground level. (Keep end of rope secured to cleat so you don't lose the rope!). Layout the main net and attach the cable clamps at each post to the net, starting at the corners at one end and working down to the other end. Once all posts' hoisting ropes are attached, raise the net all the way and secure the end of the rope firmly and professionally to the cleat. (Consult former Navy personnel or handbook for proper method.)

Step No. 7

Fasten Bottom of Net Border to Tensioned Bottom Cables

Start at the far end corner away from the chosen entrance side and zip tie bottom border of net every 6" (3-4 net square blocks). It may help to lower the net a foot from the top so not to create unwanted tension during this step. Once completed, clip zip tie ends and raise net fully.

BT-121470
12'H x 14'W x 70'L BATTING TUNNEL
LAYOUT AND INSTALLATION INSTRUCTIONS

FOR TECHNICAL ASSISTANCE, CALL 1-800-523-5471

K:\AAE Data\Product Instructions & Parts Lists\BT-121470\BT-121470 Installation Instructions.doc