Madeira Beach Dog Park Site Plan 1 Construction Cost Estimate 3-29-2022					
Item No.	**Description**	**Units**	**Quantity**	**Unit Cost**	**Total Cost**
1	Dog watering station units on boardwalk	Ea.	2	$150.00	$300.00
2	Dog watering station unit in ground	Ea.	1	$4,500.00	$4,500.00
3	Gravity wall 2 foot depth 45 feet in length	LF	45	$275.00	$12,375.00
4	Custom Sails per Design Developent plan Stainless Steel	Ea.	1	$ 346,462.00	$346,462.00
5	Dog park containment fencing with top rails w/botton wire post 10 ft on center blk. PVC chain-link fence w/4-3 ft. wide. gates and 2- 5 ft wide gates, includes dog wash area	LF	325	$ 53.25	$17,306.25
6	West 30 ft. x 40 ft. boardwalk composite decking with 54 inch high handrail on 3 sides of decking area w/saddle wear deck surfacing	sq. ft.	1,000	$ 110.00	$110,000.00
7	Artificial K-9 turf	sq. ft.	7,500	$ 15.00	$112,500.00

8	Epoxy rubber surfacing at base of trees and palms	sq. ft.	160	$ 47.50	$7,600.00
9	Concrete flatwork	sq. ft.	340	$15.00	$ 5,100.00
10	Evergreen understory trees 2" caliper 6-8 ft. ht, 30 gal. cont.	Ea.	13	$ 350.00	$ 4,550.00
11	Fflowering understory trees 2" caliper 6-8 ft. ht, 30 gal. cont. 'Standards'	Ea.	4	$ 450.00	$ 1,800.00
12	Evergreen shurbs 18" spread, 24" height 3 gal. containers	Ea.	100	$ 20.75	$ 2,075.00
13	Flowering groundcovers 8-inch spread, 3-inch height,1 gal. cont.	Ea.	750	$ 12.50	$ 9,375.00
14	Irrigation System	sq.ft	8,756.00	$ 3.40	$ 29,770.40
15	Doggie pottie collection waste collection & concrete trash cans	Ea.	5.00	$ 850.00	$ 4,250.00
16	Dog washing Station	Ea.	1	$ 3,500.00	$ 3,500.00
17	**Sub-total based on city contracting with no construction manager**				$671,463.65

18	Madeira Beach Dog Park Conceptual Site Plan 1 Pareliminary Cost Estimate			$671,463.65
19	10% contingency for unforseen items	0.10	$	157,431.83
20	**Madeira Beach Dog Park Master Development Site Plan Construction Cost Estimate**			**$828,895.48**

From: Jeremy Purkis
Sent: Friday, March 3, 2023 3:01 PM
To: Leroy Chin <lchin@transystems.com>
Subject: RE: Madeira Beach Dog Park

Good Morning,

I received your request for a quotation on your project. Please see the quoted numbers below.

QUOTE: QOJP030223-A

Notes:

1. Product: Custom Sails – Per attached sketch and heights shown in red.
2. Pricing is based on Volusia County School State Contract (Piggyback)
3. Shipping to: Madeira Beach, FL
4. Engineering is included.
5. Quote based on pier mount footings.
6. FL Sales Taxes have been EXCLUDED
7. Estimated installation of $ has been included in the pricing below.

Quick Quote	STAINLESS
Model	Sails
Quantity	4
Price	$201,200.00
Drawings and calculations	$1,300.00
Est. Installation	$141,550.00
Shipping and handling	$2,412
Total	$346,462.00
Deposit for Order	$173,231.00

Quick Quote	STD STEEL
Model	Sails
Quantity	4
Price	$106,400.00
Drawings and calculations	$1,300.00
Est. Installation	$141,550.00
Shipping and handling	$2,412
Total	$251,662.00
Deposit for Order	$125,831.00

IMPORTANT TERMS & CONDITIONS:

Pre-Engineered Fabric Shade Products

Part 1 – General

1.1 Related Documents

Drawings and general provisions of the Contract, including General Conditions and Division 1 Specifications Sections, apply to this section.

1.2 Summary

The shade structure contractor shall be responsible for design, engineering, fabrication and supply of the work specified herein. The intent of this specification is to have only one manufacturer be responsible for the aforementioned functions.

1.3 Submittals

1.3.1 Pre-Bid Submittals

A. Provide proof of installed reference sites with structures for similar scope of project and installation that are engineered to International Building Code (IBC) specifications. Include in reference list of structure dimensions with install dates and project locations.

B. Provide information to establish desired fabric color and power coat color.

C. Provide proof of all quality assurance items including:

1. A list of at least six (6) public municipal installations where manufacturer's product as proposed pursuant to this bid has been installed and has been in continuous use for a minimum of five (5) years each.

2. All manufacturers shall provide proof of a minimum $ 2,000,000.00 (AG) General Public Liability Insurance, $ 2,000,000.00 Professional Liability (PL) insurance, $ 100,000.00 Inland Marine Insurance, and additional $ 5,000,000.00 Umbrella Liability insurance.

1.3.2 Award of Contract Submittals

A. Make available wet-sealed structural engineering drawings and calculations

B. Provide fabric color and powder coat color selections for final order.

B. Or Equal: Standard for approved equal. Ten (10) day prior approval required for substitution of product design, materials and features specified above. Submittals must include plans, drawings, cut sheets, material data sheets, testing results and samples. Bids failing to meet this requirement will be deemed non-responsive.

C. Structures are engineered to meet or exceed the requirements of International Building Code (IBC), and the following standard specifications:

Wind Speed (Frame only): 165 M.P.H.

Wind Speed (Frame w/canopy): 90 M.P.H.

Live Load: --

Snow Load: --

Optional designs with greater wind speeds, live loads, and snow loads are available.

D. Material: All materials shall be structurally sound and appropriate for safe use. Product durability shall be ensured by the use of corrosion-resistant metals such as stainless steel, and coatings such as zinc-plating, galvanizing, and powder-coating on steel parts, subject to the Product-Specific requirements. Fabrics used shall include UV-stabilizers and fire retardants for longevity and safety.

E. Packaging: All metal posts, rafters and beams shall be wrapped in plastic and cardboard to protect the powder coat finish during shipping.

F. Weldments: All tubing members are factory-welded by Certified Welders to American Welding Society (AWS) specifications and to the highest standards of quality workmanship. Weldments are finished with a zinc-rich galvanized coating. No field welding is required in the assembly of the shade products.

G. Posts, Structural Frame Tubing, and Hardware: All tubing used shall be cold-formed and milled per ASTM A-135 and ASTM A-500. Material testing is in accordance with ASTM E-8. Minimum yield is 40,000 psi with a minimum tensile strength of 45,000 psi on all posts. All tubing shall be pre-cut to appropriate lengths, and all outside surfaces shall be galvanized, with an interior corrosion-resistant zinc-rich coating. Where required, support pipes shall be schedule 40 hot-dip galvanized or powder-coated black steel. All fastening hardware shall be stainless steel.

7. **Application of Powder-Coating.** Lastly, *PPG Envirocron™ Ultradurable* powder coatings shall be used to provide a combination of excellent physical and chemical resistance properties, outstanding resistance to outdoor weathering, and a durable and uniform final coat.

Powder Coat Characteristics:

Gloss (ASTM D-523):	80 Minimum @ 20°
Gloss (ASTM D-523):	80 Minimum @ 60°
Adhesion (ASTM D-3359):	100% (5B Pass)
Hardness (ASTM D-3363):	2H Pencil (Eagle)
Impact Resistance (ASTM D-2794):	40 In.-lbs. Direct
	20 In.-lbs. Reverse
Conical Mandrel (ASTM D-522):	1/8" Mandrel - No Cracking
Salt Spray (ASTM B-117):	1000 Hours Pass
	< 1/8" Scribe Creep
	No Blisters
Humidity (ASTM D-1735):	1000 Hours Pass
	< 1/16" Scribe Creep
	No Blisters
Film Properties (Thickness):	3 mils

I. Standard Footings: Footings shall be designed per stringent International Building Code (IBC) for the specified structure. Columns will be provided as standard direct embedment. Other footing designs are available.

J. Roofing: Structural frames and/or fabric sails are designed by Shade Systems only for use with Coolnet™ polyethylene shade fabric. Fabric is attached to frame or columns using stainless steel and clear vinyl coated cable. Cable fasteners are zinc-plated copper for maximum corrosion resistance.

2.2 Fastening System **(Frame Structure)**

A. Coolnet™ Shade Fabric shall be delivered complete with independent cables pre-inserted in fabric hems. Each cable shall be looped and clamped at each end. Fastening System to consist of the Turn-N-Slide™ fastening device which is factory installed at each roof rafter corner. The Turn-N-Slide features a concealed mechanism which allows the attachment hook and sleeve at each rafter corner to move along a track in the rafter. Cables are attached to hook which is welded to the moving sleeve, thereby distributing tension evenly over rafters and not directly onto the mechanism. Rafters are sealed with no penetrations on the top side, thereby preventing water from entering. Such moving sleeve with hook allows the looped ends of each cable to slide over the hook when the sleeve is at its upper position, and

2.3 Fabric

A. Shade Fabric: Knitted of monofilament and tape construction high density polyethylene with Ultra-Violent (U.V.) stabilizers and flame retardant. Coolnet™ offers the ultimate combination of maximum sun protection, strength and durability to ensure maintenance free long-life performance. UV- Block Factor varies by standard color offered from 90% to 97%.

Coolnet™ Properties:

Nominal Fabric Mass:		Min. 340 g/m² // 10 oz/yd²
Fabric Thickness:	ASTM D5199-12	.06 inch
Temperature Range:		22°F to 155°F
Roll Width:		9 ft. 10 in.
Roll Length:		131 ft.
Tensile Strength:	ASTM D5034-09	Warp (202.4 lbf) / Weft (403.2 lbf)
Elongation:	ASTM D5034-09	Warp (112.3%) / Weft (50.8%)
Tongue Tear:	ASTM D2261-13	Warp (47.9 lbf) / Weft (50.1 lbf)
Burst Strength:	ASTM D6797-15	383.0 lbf
Flammability:	ASTM E-84 Class A	
Lead:		PASS
Phthalate:		PASS

Coolnet™ Shade Fabrics meet the most stringent Fire Standards for shade fabrics including CSFM 1237.1 and NFPA 701 across all color variants.

All hems and seams are double row lock stitched using exterior grade UV- stabilized polyethylene GORE™ TENARA™ sewing thread (GORE and TENARA are trademarks of W.L. Gore & Associates).

Conversations with Scott Brushwood – Rep Services - Orlando
Thursday, March 9, 2023 6:10 PM
Scott Brushwood <sbrushwood@repservices.com>
Cc: Leroy Chin <lchin@transystems.com>
Subject: FW: Madeira Beach Dog Park

The pricing is about APPROXIMATELY $ 150,000.00. That is for product ONLY (including freight and engineering). **That does NOT include installation, foundations, or taxes.**

Let me know what you think and what else you need from me to take the next steps. Given the cost, I wanted to make sure the budget pricing was acceptable.
I would need to get figures from the install team, but a VERY rough guess would be about $ 110,000 – 120,000 for install. That would include the foundations and permitting. But that is a rough guess.

Complete estimate cost $270,000 to $300,000 with black iron steel and high quality powder coating.

Let me know, thanks!!

Regards

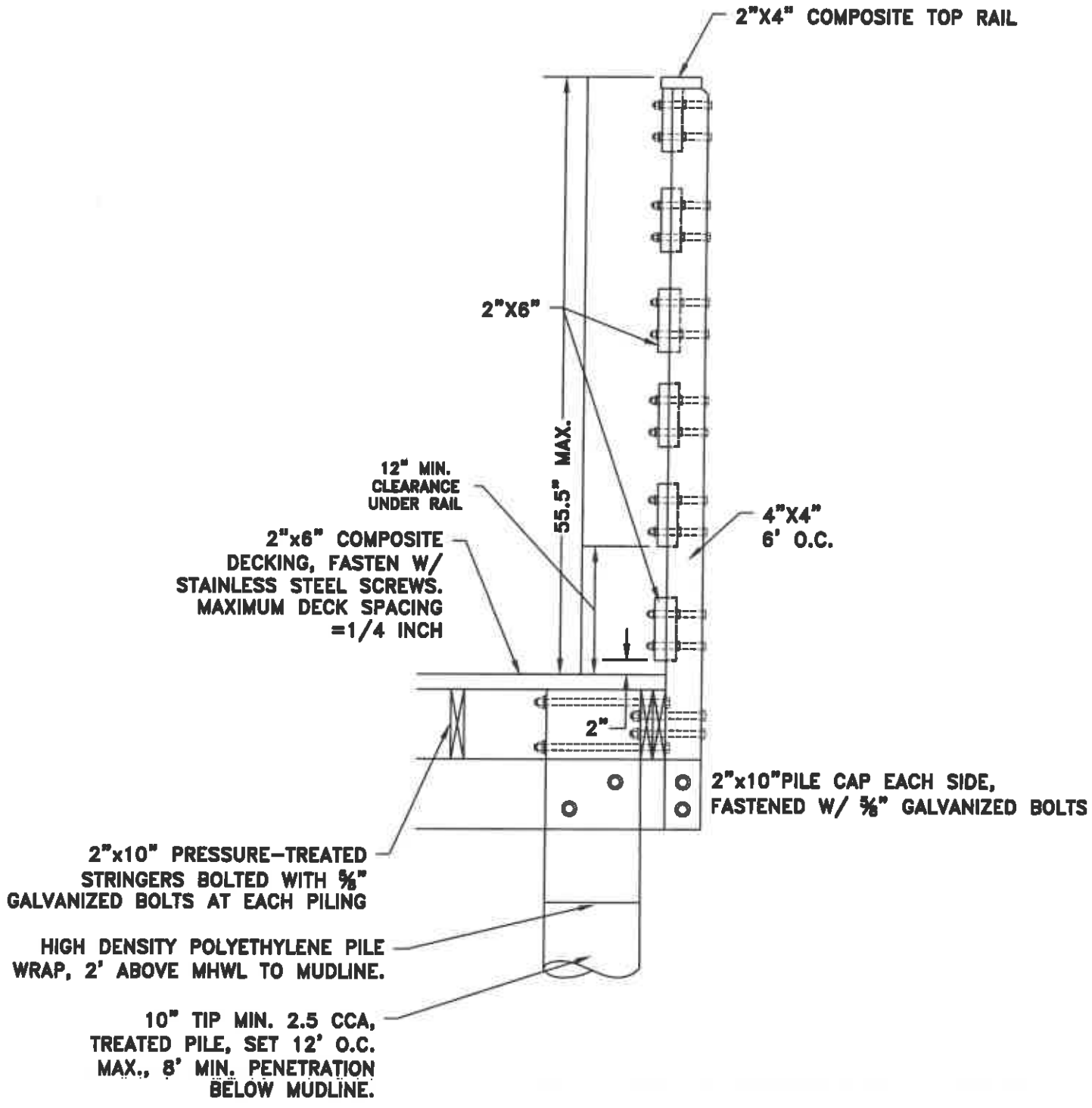
Scott Brushwood [illegible] email: scott@repservices.com
Rep Services, Inc [illegible] 2750-414[illegible]
☎(office): 727 539 8457 ☎(cell) [illegible] (web) www.repservices.com
Experts at Play & Outdoor Spaces

Other comments are as follows:

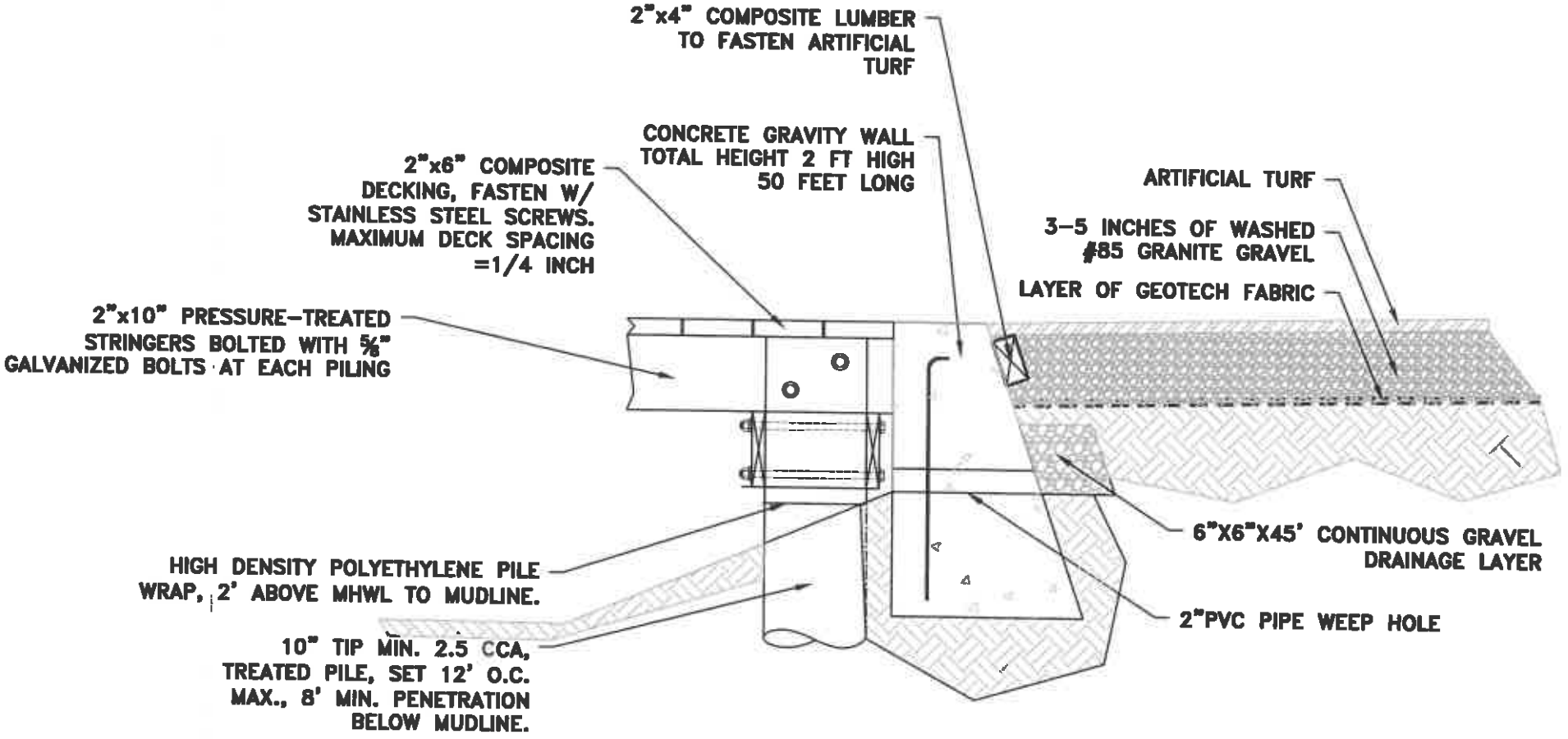
1. Is the cost based on 304 stainless steel on all components? WE DO NOT OFFER STAINLESS STEEL. These will be hot dipped galvanized with no powder coat. I am waiting on the factory for that cost. What is the cost based on? I could not find what the cost is based on what type of materials.
2. The concept plan we provided had various colors for the shade canopies. is there additional cost for our color selection? NO. The designer just picked that shade fabric color. We can do different colors of whatever FR fabric color you want. The rendering was more for concept than color selections. The color you selected is dull and unattractive need to make more festive.
3. The column selection we provided was cobalt blue why vanilla? They will be galvanized, no powder coat. So the columns will be gray.
4. What is the cost for the footer? I don't know the footer cost because I don't have an estimated footer size. I am guessing 10x10. But they could be bigger. I have requested the footer sizes and can then price. This was just AN ESTIMATE.
5. What is the cost for engineered drawings signed and sealed by a Florida licensed structural engineer. About $ 5,000.00.
6. Are these quick release canopies? YES. Building code requires a quick release mechanism.
7. I am going to assume the wind rating of 105 mph is for the canopy and must be taken down during a major storm event. What is the recommend wind rating to take down, on previous type unit we are being taking down if we encounter winds greater than 65 mph . are you saying at 105 mph we will not get any damage to the canopies? Also, can we safely say the metal columns are okay during a major hurricane force winds if the canopies are taken down? We recommend the fabric be taken down with wind speeds above 65 mph. Yes, the columns would be fine in hurricane winds with the fabric removed.

Thanks!

Leroy Chin, PLA
Vice President - Landscape Architect



55.5" HEIGHT BOARDWALK LOCATIONS



CROSS SECTION AT BOARDWALK & DOG RUN