

## Five Mile Woods Preserve - New 48" to 72" wide boardwalking

4 foot wide:

**Main 4' (48") wide Sections:** Box-frame construction, 144" stringers w 44" wide end-cap joists = 147" tot:

Timber curbing (2" x 4" rail on 2" x 4" blocks, total actual hight 3" above decking, 2.5" width on each side)

Sku #	Material:	Material Dimensions:	Need:	Cost/Unit:
10011753914	2 x 6, #2 PT	1.5" x 5.5" x 12'	ground contact/level	\$ 12.48
10011753914	2 x 6, #2 PT	1.5" x 5.5" x 12'	stringers	\$ 12.48
10011753914	2 x 6, #2 PT	1.5" x 5.5" x 12'	end joists	\$ 12.48
	12" 20-guage galv. strap tie	1-1/4" x 12"	Section connections	\$ 1.10
346101	Veranda decking	15/16" x 5.25" x 12'	Deck	\$ 20.98
	2 x 4, #2 PT	1.5" x 3.5" x 12'	Curb blocks	\$ 9.48
	2 x 4, #2 PT	1.5" x 3.5" x 12'	Curb rails	\$ 9.48
	Screws, 2.25" star pan head	2.25	Deck fasteners	\$ 34.97
	Screws, 2.25" star pan head	2.25	Deck fasteners	\$ 34.97
	Screws, #10, 3.5" exterior (E	3.5"	Curb block -> deck/f	\$ 39.50
	Screws, #10, 2.5" exterior (E	2.5"	Curb -> block fasten	\$ 39.98

5 Foot wide

**Main 5' (60") wide Sections:** Box-frame construction, 144" stringers PLUS 58" x 1.5" end-cap joists = 147'

Timber curbing (2" x 4" rail on 2" x 4" blocks, total actual hight 3" above decking, 2.5" width on each side)

Sku #	Material:	Material Dimensions:	Need:	Cost/Unit:
1001753935	2 x 6, #2 PT	1.5" x 5.5" x 16'	ground contact/level	\$ 14.98
10011753914	2 x 6, #2 PT	1.5" x 5.5" x 12'	stringers	\$ 12.48
1001753935	2 x 6, #2 PT	1.5" x 5.5" x 16'	end joists	\$ 14.98
	12" 20-guage galv. strap tie	1-1/4" x 12"	Section connections	\$ 1.10
346101	Veranda decking	15/16" x 5.25" x 12'	Deck	\$ 20.98
	2 x 4, #2 PT	1.5" x 3.5" x 12'	Curb blocks	\$ 9.48
	2 x 4, #2 PT	1.5" x 3.5" x 12'	Curb rails	\$ 9.48
	Screws, 2.25" star pan head	2.25	Deck fasteners	\$ 34.97
	Screws, #8, 1.25" exterior (E	1.25"	Strap fasteners -> fr	\$ 39.98
	Screws, #10, 3.5" exterior (E	3.5"	Curb block -> deck/f	\$ 39.50
	Screws, #10, 2.5" exterior (E	2.5"	Curb -> block fasten	\$ 39.98


**6' (72") wide Passing Sections (required for 4' boardwalk):** Box-frame construction, 144" stringers PLUS (Timber curbing (2" x 4" rail on 2" x 4" blocks, total actual high 3" above decking), **reduces usable deck width**

#	Material:	Material Dimensions:	Need:	Cost/Unit:
10011753914	2 x 6, #2 PT	1.5" x 5.5" x 12'	ground contact/level	\$ 12.48
10011753914	2 x 6, #2 PT	1.5" x 5.5" x 12'	stringers	\$ 12.48
10011753914	2 x 6, #2 PT	1.5" x 5.5" x 12'	end joists	\$ 12.48
	12" 20-guage galv. strap tie	1-1/4" x 12"	Section connections	\$ 1.10
	Veranda decking	15/16" x 5.25" x 12'	Deck	\$ 20.98
	2 x 4, #2 PT	1.5" x 3.5" x 12'	Curb blocks	\$ 9.48
	2 x 4, #2 PT	1.5" x 3.5" x 12'	Curb rails	\$ 9.48
	2 x 4, #2 PT	1.5" x 3.5" x 12'	Curb rails - 24" bump	\$ 9.48
	Screws, 2.25" star pan head	2.25	Deck fasteners	\$ 34.97
	Screws, #8, 1.25" exterior (Ev	1.25"	Strap fasteners -> fr	\$ 39.98
	Screws, #10, 3.5" exterior (Ev	3.5"	Curb block -> deck/f	\$ 39.50
	Screws, #10, 2.5" exterior (Ev	2.5"	Curb -> block fasten	\$ 39.98
	Nails, galv (hammer vs gun?)			


Project Ideas				
<b>Sweetgum Trail:</b>	Project Legnth	Total sections needed	4' sections	6' ADA bump-
Quantity:	Approx 1,600' (19,200")	130	122	8
Cost:			\$ 40,287.08	\$ 3,658.71
Cost/linear foot			\$ 27.52	\$ 38.11
Total Cost:			\$ <b>43,945.80</b>	
<b>A "\$15,000 Project"</b>			4' sections	6' ADA bump-
Quantity:			42	3
Cost:			\$ 13,869.32	\$ 1,372.02
Total cost:			\$ <b>15,241.34</b>	
Linear feet:			<b>551 LF</b>	


al length. Decking overhangs 2" both sides = 48" total width.

, reduces usable deck width to 41" (ADA compliant).

Dimension of pieces needed:	Pieces/unit:	Pieces req. per 12.25':	Units req. per 12.25':	Cost per 12.25'	
48"	3	1	0.33	\$ 4.16	
144"	1	4	4.00	\$ 49.92	
44"	3	2	0.67	\$ 8.32	
12'	1	2	2.00	\$ 2.20	
5.5" x 48"	3	27	9.00	\$ 188.82	
12"	12	6	0.50	\$ 4.74	
	1	2	2.00	\$ 18.96	
	310	216	0.70	\$ 24.37	
	310	216	0.70	\$ 24.37	
3.5"	295	24	0.08	\$ 3.21	
2.5"	415	12	0.03	\$ 1.16	
				\$ 330.22	per 48" x 14'
				Or: \$ 26.96	

' (12.25) total length. Decking overhangs 1" both sides = 60" total width.

, reduces usable deck width to 53" (ADA compliant).

Dimension of pieces needed:	Pieces/unit:	Pieces req. per 12.25':	Units req. per 12.25':	Cost per 12.25'	
64"	3	1	0.33	\$ 4.99	
144"	1	5	5.00	\$ 62.40	
58"	3	2	0.67	\$ 9.99	
12'	1	2	2.00	\$ 2.20	
5.5" x 60"	2	27	13.50	\$ 283.23	
12"	12	6	0.50	\$ 4.74	
	1	2	2.00	\$ 18.96	
	310	270	0.87	\$ 30.46	
1.25"	1215	16	0.01	\$ 0.53	
3.5"	295	24	0.08	\$ 3.21	
2.5"	415	12	0.03	\$ 1.16	
				\$ 421.86	per 60" x 14'
				Or: \$ 34.44	


68" wide end-cap joists = 147" total length. Decking overhangs 2" both sides = 72" width to 66" (ADA compliant).

Dimension of pieces needed:	Pieces/unit:	Pieces req. per 12.25':	Units req. per 12.25':	Cost per 12.25'	
72"	2	1	0.50	\$ 6.24	
144"	1	6	6.00	\$ 74.88	
72"	2	2	1.00	\$ 12.48	
12'	1	2	2.00	\$ 2.20	
5.5" x 72"	2	27	13.50	\$ 283.23	
12"	12	10	0.83	\$ 7.90	
144"	1	2	2.00	\$ 18.96	
24"	6	4	0.67	\$ 6.32	
	310	324	1.05	\$ 36.55	
1.25"	1215	16	0.01	\$ 0.53	
3.5"	295	40	0.14	\$ 5.36	
2.5"	415	28	0.07	\$ 2.70	
				\$ -	
				<b>\$ 457.34</b>	per 72" x 14'
				Or: \$	37.33

-outs	5' sections	6' ADA bump-outs
	122	8
	\$ 51,467.39	\$ 3,658.71
	\$ 35.16	\$ 38.11
	<b>\$ 55,126.10</b>	
-outs	5' sections	6' ADA bump-outs
	34	2
	\$14343.37	\$914.68
		<b>\$15258.05</b>
	<b>441 LF</b>	


<b>Notes:</b>
<u>After first section</u> , only 1 needed per 12.25" run.
4 total stringers over 44" width, so approx 14.5" o/c.
<u>After first section</u> , only 1 needed per 12.25" run.
True "pieces per 12.25' run is 26.7.
After first section, only 4 needed per 12.25" run? 6 avoids spanning.
12.25" run requires 26.7 planks, round to 27 x 8 screws per plank.
12.25" run requires 26.7 planks, round to 27 x 8 screws per plank.

<b>4.25"</b>
Per linear foot

<b>Notes:</b>
After first section, only 1 needed per 12.25" run. Simple 1/3 of unit.
5 total stringers over 58" width, so approx 14.5" o/c.
Decks will overhand 1" both sides, hence 58" frame width.
After first section, only 1 needed per 12.25" run.
True "pieces per 12.25' run is 26.7.
After first section, only 4 needed per 12.25" run. 6 avoids spanning,
12.25" run requires 26.7 planks, round to 27 x 10 screws per plank.

<b>4.25"</b>
Per linear foot.



" total width.


**Notes:**

After first section , only 1 needed per 12.25" run.

4 total stringers over 44" width, so approx 14" o/c.

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After first section , only 1 needed per 12.25" run.

True "pieces per 12.25' run is 26.7.

Need 4 additional blocks to curb width expansion.

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12.25" run requires 26.7 planks, round to 27 x 8 screws per plank.

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**4.25"**

Per linear foot

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Gets new ADA boardwalk to existing "near-ADA compliant" boardwalk.

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196' @ 4' = 16x\$330.22= \$5,283.52. PLUS a 12' passing area =

\$457.34. So, ~ 208' costs \$5,740.86 or a NET **\$27.60 L.F.**

196' @ 5' = 16x\$421.86= \$6,749.76. PLUS a 12' passing area =

\$457.34. So, ~ 208' costs \$7,207.10 or a NET **\$34.65 L.F.**

6' requires NO passing area, So, 208' costs 17 x \$457.34= \$7,774.78, or a NET **\$37.38 L.F.**

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