



Appendix E – Detailed Catwalk Estimations

Table 12. Detailed Steel Catwalk Estimate

	Quantity	Type	Lb/ft	Length (ft)	Weight (lbs)	Total Weight	Labor (\$/LF)	Labor (\$)	Total Labor	
Main Strip (2)	4	W8x28	28	12	336	1344.0	3.96	47.52	190.08	
	4	W8x28	28	25	700	2800.0	3.96	99.00	396.00	
	4	W8x28	28	25	700	2800.0	3.96	99.00	396.00	
	4	W8x28	28	9	252	1008.0	3.96	35.64	142.56	
	8	L 5x31/2x5/16	8.72	12	104.64	837.1	7.10	85.20	681.60	
	8	L 5x31/2x5/16	8.72	25	218	1744.0	7.10	177.50	1420.00	
	8	L 5x31/2x5/16	8.72	25	218	1744.0	7.10	177.50	1420.00	
	8	L 5x31/2x5/16	8.72	9	78.48	627.8	7.10	83.90	511.20	
	26	W6x12	12	2	24	624.0	3.63	7.26	188.76	
	24	L 4x4x3/8	9.72	6	58.32	1399.7	7.00	42.00	1008.00	
	32	HSS 4x4x5/16	14.8	3.5	51.8	1657.6	9.00	31.50	1008.00	
	20	HSS 5x5x5/16	19	10	190	3600.0	30.00	300.00	6000.00	
	80	L 3x3x1/4	4.89	4	19.56	1564.8	6.85	27.40	2192.00	
					Cum Weight	21951.0			Labor Cost	\$ 15,554.20
					Cum Tonnage	10.98			Material Cost	\$ 21,951.04
								Total Cost	\$ 37,505.24	
Middle Wing (2)	4	W8x28	28	14	392	1568.0	3.96	55.44	221.76	
	6	W6x12	12	2	24	144.0	3.63	7.26	43.56	
	6	L 4x4x3/8	9.72	6	58.32	349.9	7.00	42.00	252.00	
	8	HSS 4x4x5/16	14.8	3.5	51.8	414.4	9.00	31.50	252.00	
	4	HSS 5x5x5/16	19	10	190	760.0	30.00	300.00	1200.00	
	24	L 3x3x1/4	4.89	4	19.56	469.4	6.85	27.40	657.60	
					Cum Weight	3705.8			Labor Cost	\$2,626.92
					Cum Tonnage	1.85			Material Cost	\$3,705.78
								Total Cost	\$6,332.68	
Middle Strip	4	W8x28	28	20	560	2240.0	3.96	79.20	316.80	
	2	W8x28	28	18	504	1008.0	3.96	71.28	142.56	
	8	L 5x31/2x5/16	8.72	20	174.4	1395.2	7.10	142.00	1136.00	
	4	L 5x31/2x5/16	8.72	18	156.96	627.8	7.10	127.80	511.20	
	8	W6x12	12	2	24	192.0	3.63	7.26	58.08	
	9	L 4x4x3/8	9.72	6	58.32	524.9	7.00	42.00	378.00	
	12	HSS 4x4x5/16	14.8	3.5	51.8	621.8	9.00	31.50	378.00	
	9	HSS 5x5x5/16	19	10	190	1710.0	30.00	300.00	2700.00	
	40	L 3x3x1/4	4.89	4	19.56	782.4	6.85	27.40	1096.00	
	5	W8x28	28	4	112	560.0	3.96	15.84	79.20	
	3	W8x28	28	9	252	756.0	3.96	35.64	106.92	
					Cum Weight	10417.9			Labor Cost	\$6,902.76
					Cum Tonnage	5.21			Material Cost	\$10,417.92
									Total Cost	\$17,320.68
Top Tail	1	W8x28	28	5	140	140.0	3.96	19.80	19.80	
	1	W10x30	30	5	150	150.0	2.48	12.40	12.40	
	4	L 5x31/2x5/16	8.72	5	43.6	174.4	7.10	35.50	142.00	
	4	L 3x3x1/4	4.89	4	19.56	78.2	6.85	27.40	109.60	
	2	HSS 5x5x5/16	19	10	190	380.0	30.00	300.00	600.00	
	2	HSS 4x4x5/16	14.8	3.5	51.8	103.6	9.00	31.50	63.00	
	2	W6x12	12	2	24	48.0	3.63	7.26	14.52	
					Cum Weight	1074.2			Labor Cost	\$961.32
				Cum Tonnage	0.54			Material Cost	\$1,074.24	
								Total Cost	\$2,035.56	
Metal Grating	Width (ft)	Length (ft)	Ft ²	Material (\$/ft ²)	Material (\$)	Labor (\$/ft ²)	Labor (\$)	Total Cost		
	2	240	480	10.00	4800.00	2.00	960.00	5760.00		
							Total Cost	\$5,760.00		
								Cum Total	\$ 68,954.16	
								Sub Profit	+10%	
								Final Total	\$ 75,849.58	



Table 13. Detailed Aluminum Catwalk Estimate

	Quantity	Type	Lb/ft	Length (ft)	Weight (lbs)	Total Weight	Material (\$/lb)	Material (\$)	Labor (\$/lb)	Labor (\$)	Total Cost
Main Strip (2)	4	W10x10	10.286	12	123.432	493.7	2.19	1081.26	1.64	809.71	1890.98
	4	W10x10	10.286	25	257.15	1028.6	2.19	2252.63	1.64	1686.90	3939.54
	4	W10x10	10.286	25	257.15	1028.6	2.19	2252.63	1.64	1686.90	3939.54
	4	W10x10	10.286	9	92.574	370.3	2.19	810.95	1.64	607.29	1418.23
	8	L 5x5x3/8	4.28	12	51.36	410.9	2.19	899.83	1.64	673.84	1573.67
	8	L 5x5x3/8	4.28	25	107	856.0	2.19	1874.64	1.64	1403.84	3278.48
	8	L 5x5x3/8	4.28	25	107	856.0	2.19	1874.64	1.64	1403.84	3278.48
	8	L 5x5x3/8	4.28	9	38.52	308.2	2.19	674.87	1.64	505.38	1180.25
	26	W6x7	7.023	2	14.046	365.2	2.19	799.78	1.64	599.92	1398.70
	24	L 4x4x1/2	4.41	6	26.46	635.0	2.19	1390.74	1.64	1041.47	2432.20
	32	HSS 4x4x3/16	3.44	3.5	12.04	385.3	2.19	843.76	1.64	631.86	1475.62
	20	HSS 4x4x3/16	3.44	10	34.4	688.0	2.19	1506.72	1.64	1128.32	2635.04
	80	L 3x3x1/4	1.68	4	6.72	537.6	2.19	1177.34	1.64	881.66	2059.01
										Total Cost	\$ 30,499.75
Middle Wing (2)	4	W10x10	10.286	14	144.004	576.0	2.19	1261.5	1.64	944.67	2206.14
	6	W6x7	7.023	2	14.046	84.3	2.19	184.6	1.64	138.21	322.78
	6	L 4x4x1/2	4.41	6	26.46	158.8	2.19	347.7	1.64	260.37	608.05
	8	HSS 4x4x3/16	3.44	3.5	12.04	96.3	2.19	210.9	1.64	157.96	368.91
	4	HSS 4x4x3/16	3.44	10	34.4	137.6	2.19	301.3	1.64	225.66	527.01
	24	L 3x3x1/4	1.68	4	6.72	161.3	2.19	353.2	1.64	264.50	617.70
									Total Cost	\$4,650.59	
Middle Strip	4	W10x10	10.286	20	205.72	822.9	2.19	1802.1	1.64	1349.52	3151.63
	2	W10x10	10.286	18	185.148	370.3	2.19	810.9	1.64	607.29	1418.23
	8	L 5x5x3/8	4.28	20	85.6	684.8	2.19	1499.7	1.64	1123.07	2622.78
	4	L 5x5x3/8	4.28	18	77.04	308.2	2.19	674.9	1.64	505.38	1180.25
	8	W6x7	7.023	2	14.046	112.4	2.19	246.1	1.64	184.28	430.37
	9	L 4x4x1/2	4.41	6	26.46	238.1	2.19	521.5	1.64	390.55	912.08
	12	HSS 4x4x3/16	3.44	3.5	12.04	144.5	2.19	316.4	1.64	236.95	553.36
	9	HSS 4x4x3/16	3.44	10	34.4	309.6	2.19	678.0	1.64	507.74	1185.77
	40	L 3x3x1/4	1.68	4	6.72	268.8	2.19	588.7	1.64	440.83	1029.50
	5	W10x10	10.286	4	41.144	205.7	2.19	450.5	1.64	337.38	787.91
	3	W10x10	10.286	9	92.574	277.7	2.19	608.2	1.64	455.46	1063.68
										Total Cost	\$14,335.56
Top Tail	1	W10x10	10.286	5	51.43	51.4	2.19	112.6	1.64	84.35	196.98
	1	W10x8	8.76	5	43.8	43.8	2.19	95.9	1.64	71.83	167.75
	4	L 5x5x3/8	4.28	5	21.4	85.6	2.19	187.5	1.64	140.38	327.85
	4	L 3x3x1/4	1.68	4	6.72	26.9	2.19	58.9	1.64	44.08	102.95
	2	HSS 4x4x3/16	3.44	10	34.4	68.8	2.19	150.7	1.64	112.83	263.50
	2	HSS 4x4x3/16	3.44	3.5	12.04	24.1	2.19	52.7	1.64	39.49	92.23
	2	W6x7	7.023	2	14.046	28.1	2.19	61.5	1.64	46.07	107.59
									Total Cost	\$1,258.85	
Metal Grating	Width (ft)	Length (ft)	Fl ²	Material (\$/ft ²)	Material (\$)	Labor (\$/ft ²)	Labor (\$)	Total Cost			
	2	240	480	10.00	4800.00	2.00	960.00	5760.00	Total Cost	\$5,760.00	
								Cum Total	\$ 56,504.74		
								Sub Profit	+10%		
								Final Total	\$ 62,155.22		



Table 14. Detailed Wood Catwalk Estimate

	Quantity	Type	Length (ft)	Total Length	Material (\$/LF)	Material (\$)	Labor (\$/LF)	Labor (\$)	Total Cost
Main Strip (2)	4	GPI 40	12	48.0	2.23	107.0	0.51	24.48	131.52
	8	GPI 40	13	104.0	2.23	231.9	0.51	53.04	284.96
	8	GPI 40	13	104.0	2.23	231.9	0.51	53.04	284.96
	4	GPI 40	9	36.0	2.23	80.3	0.51	18.36	98.64
	8	2x8	12	96.0	0.59	58.6	0.57	54.72	111.36
	8	2x8	25	200.0	0.59	118.0	0.57	114.00	232.00
	8	2x8	25	200.0	0.59	118.0	0.57	114.00	232.00
	8	2x8	9	72.0	0.59	42.5	0.57	41.04	83.52
	26	2x10	2	52.0	1.29	67.1	0.66	34.32	101.40
	24	2x10	6	144.0	1.29	185.8	0.66	95.04	280.80
	24	4x4 Columns	3.5	84.0	2.34	196.6	0.89	74.76	271.32
	80	2x4	4	320.0	0.37	118.4	0.32	102.40	220.80
	Total Cost								

	Quantity	Type	Length (ft)	Total Length	Material (\$/LF)	Material (\$)	Labor (\$/LF)	Labor (\$)	Total Cost
Middle Wing (2)	4	GPI 40	14	56.0	2.23	124.9	0.51	28.56	153.44
	6	2x10	2	12.0	1.29	15.5	0.66	7.92	23.40
	6	2x10	6	36.0	1.29	46.4	0.66	23.76	70.20
	8	4x4 Columns	3.5	28.0	2.34	65.5	0.89	24.92	90.44
	24	2x4	4	96.0	0.37	35.5	0.32	30.72	66.24
Total Cost									\$403.72

	Quantity	Type	Length (ft)	Total Length	Material (\$/LF)	Material (\$)	Labor (\$/LF)	Labor (\$)	Total Cost
Middle Strip	4	GPI 65	20	80.0	2.23	178.4	0.51	40.80	219.20
	2	GPI 65	18	36.0	2.23	80.3	0.51	18.36	98.64
	8	2x8	20	160.0	0.59	94.4	0.57	91.20	185.60
	4	2x8	18	72.0	0.59	42.5	0.57	41.04	83.52
	8	2x10	2	16.0	1.29	20.6	0.66	10.56	31.20
	9	2x10	6	54.0	1.29	69.7	0.66	35.84	105.30
	12	4x4 Columns	3.5	42.0	2.34	98.3	0.89	37.38	135.66
	40	2x4	4	160.0	0.37	59.2	0.32	51.20	110.40
	5	GPI 25	4	20.0	2.23	44.6	0.51	10.20	54.80
	3	GPI 25	9	27.0	2.23	60.2	0.51	13.77	73.98
	Total Cost								

	Quantity	Type	Length (ft)	Total Length	Material (\$/LF)	Material (\$)	Labor (\$/LF)	Labor (\$)	Total Cost
Top Tail	2	GPI 40	5	10.0	2.23	22.3	0.51	5.10	27.40
	4	2x8	5	20.0	0.59	11.8	0.57	11.40	23.20
	4	2x4	4	16.0	0.37	5.9	0.32	5.12	11.04
	2	4x4 Columns	3.5	7.0	2.34	16.4	0.89	6.23	22.61
	2	2x10	2	4.0	1.29	5.2	0.66	2.64	7.80
	Total Cost								

	Quantity	Type	Lb/ft	Length (ft)	Weight (lbs)	Total Weight	Labor (\$/LF)	Labor (\$)	Total Labor	
Hangers	4	W10x30	30	9	270	1080	2.48	22.32	89.28	
	43	HSS 5x5x5/16	19	10	190	8170.0	30.00	300.00	12900.00	
						Cum Weight	9250.0		Labor Cost	\$12,989.28
					Cum Tonnage	4.63		Material Cost	\$9,250.00	
									Total Cost	\$22,239.28

	Width (ft)	Length (ft)	Ft^2	Material (\$/ft^2)	Material (\$)	Labor (\$/ft^2)	Labor (\$)	Total Cost	
Metal Grating	2	240	480	10.00	4800.00	2.00	960.00	5760.00	
									Total Cost

Cum Total	\$ 31,926.63
Sub Profit	+10%
Final Total	\$ 35,119.29