

Publication 127

June 2019

Component-in-Place Schedules

About this publication

Pub-127, Component-in-Place Schedules, is issued according to Section 8-5 of the Property Tax Code which states, "The Department shall confer with, advise and assist local assessment officers relative to the performance of their duties."

The cost schedules in this publication have been developed to help assessors estimate the replacement cost of commercial and industrial improvements. These components can be used in conjunction with structures valued using the Publication 126, Commercial and Industrial Cost Schedules. The assessor's professional judgement still greatly affects the outcome of this system.

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The information in this publication is current as of the date of the publication. The contents of this publication are informational only and do not take the place of statutes, rules, or court decisions. For many topics covered in this publication, we have provided a reference to the Illinois Property Tax Code for further clarification or more detail at 35 ILCS 200/1 et seq.

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Other Publications for Assessors:

Publication 122 Instructions for Farmland and Farm Building Schedules

Publication 123 Instructions for Residential Schedules

Publication 124 Construction Terms

Publication 126 Commercial and Industrial Cost Schedules

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Publication 127

January 2019

Component-in-Place Schedules

Changes from previous editions:

Commercial and Industrial Structures are now valued by first selecting the appropriate structural shell and then selecting the current interior finish according to use and adding the two values together as described in Publication 126. The use of the structure is considered secondary to the structure type itself. There are 8 standard structural shell types and 39 typical interior finish schedules. There are dozens of specialty use interior finishes as well. Components can be added to and subtracted from the "typical" finish as needed. Structures of over 200,000 square feet can still be valued using the CIP schedules.

Features can be indexed both alphabetically and by schedule number.

The instructions and schedules for the valuation of Grain Elevators have been moved to the back of Publication 126.

Acronyms used in this publication

CF CIP FPM GPD GPM LB LF OC SFCA SFFA SFFA SFFA SFFA	Cubic Foot Component-in-Place Floors per Minute Gallons per Day Gallons per Minute Load Bearing Linear Foot On-center Square Foot Ceiling Area Square Foot Door Area Square Foot Floor or Square Foot Frame Area Square Foot Ground Area Square Foot Surface Area Square Foot Wall Area
SFWA VLF	Square Foot Surface Area Square Foot Wall Area Vertical Linear Foot

Note: For definitions of common construction terms used in this Publication, see Publication 124, Construction Terminology.

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Railroad			

1 Earthwork	
Demolition (per CF of building)	\$0.90
Site preparation (per SFGA)	\$0.45
Excavation (per CF earth removed)	\$0.54
Fill, compacted (per CF of fill)	\$0.41

2 Foundation Walls (including footings)			
	Concrete*		
Rating	Supported Area above foundation	Per LF	
Light	Up to 2 stories	\$109.36	
Medium	3-6 stories	\$140.60	
Heavy	7-10 stories	\$164.15	
X-Heavy	Institutional	\$192.41	
	Concrete block*		
Medium	1 story	\$96.71	
Heavy	Over 1 story	\$133.99	
12" d	Strip footings only eep-without foundation v	walls	
Width	Per LF Reinfo	rced	
24"	\$36.61		
32"	\$48.69		
40"	40" \$61.14		
48" \$73.23			
* Prices based on 4' wall height (includes asphalt damp proofing)			

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Basement Walls (including footings)				
Wall Construction	Thickness	Height	Per LF	
Reinforced Concrete	8"	8'	\$207.73	
		9'	\$259.90	
		10'	\$296.79	
		12'	\$389.37	
	12"	8'	\$248.53	
		9'	\$317.46	
		10'	\$345.94	
		12	\$458.79	
		16'	\$587.31	
Concrete Block	8"	8'	\$185.49	
		9'	\$204.10	
		10'	\$234.79	
		12'	\$272.01	
	12"	8'	\$223.09	
		9'	\$257.34	
		10'	\$279.14	
		12'	\$334.83	
		14'	\$378.43	
		18'	\$483.93	
Brick (solid)	8"	8'	\$352.29	
, ,		9'	\$391.75	
		10'	\$443.29	
		12'	\$522.21	
	12"	8'	\$497.41	
		9'	\$565.95	
		10'	\$622.04	
		12'	\$746.31	
		14'	\$858.49	
	16"	8'	\$646.82	
		9'	\$720.03	
		10'	\$805.33	
		12'	\$951.75	
		14'	\$1,103.08	

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4 Piling (Cost per LF of Piling)						
Diameter or Size	Wood Untreated	Wood Creosote	Pre-Cast Concrete	Concrete in Steel Pipe	Concrete in Drilled Hole	Steel H-column
8"				\$27.74		\$26.05
10"	\$17.89	\$23.03	\$29.53	\$31.85		\$32.44
12"	\$21.44	\$27.30	\$35.15	\$39.60	\$53.04	\$45.30
14"	\$25.04	\$32.43	\$41.64			\$60.29
16"	\$29.72	\$38.59	\$56.00	\$50.16	\$63.95	
18"			\$66.86	\$56.30		
24"			\$96.24	\$78.75	\$116.53	
36"					\$225.06	
48"					\$349.58	
Average Setup Cost	\$20,000	\$20,000	\$40,250	\$31,250	\$18,750	\$31,250
Example:						
104 pilings, 10" x 35' H-column piles (104 x 35' x \$32.44) =					\$118,082	
Plus average setup costs					\$31,250	
Total cost of	fpilings					\$149,332

5 Structural Framing (Cost per SFFA)

Structural framing costs are provided below by correlation of an approximate frame bay area and the framing construction type. The derived costs are to be applied to all areas of a building that are structurally framed. Cost does not include truss or roof structure. Base prices are for 14' story height, add or deduct 5% for each foot of column height variation. This adjustment is to be made before entering the price in the computation ladder.

	Frame Bay Area				
Construction Material	Through 400 SF	401 SF to 1,200 SF	1,201 SF to 2,000 SF	Over 2,000 SF	
		,	,	,	
Wood Post and Beam	\$3.57	\$4.54	\$5.72	\$7.22	
Ordinary Steel	\$7.43	\$9.57	\$12.30	\$15.82	
Fireproof Steel	\$20.75	\$24.49	\$28.91	\$34.01	
Steel inside Concrete Column & Beam	\$30.52	\$35.53	\$41.45	\$45.55	
L/B Interior Supports	\$2.45	\$2.89	\$3.42	\$4.02	

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6 Roof Constrution			
	Structures and Decks		
Structure	Deck	Per SFRA	
Wood	Wood	\$3.40	
Structure	Corrugated or Ribbed Metal	\$5.66	
	Wood	\$4.73	
	Corrugated or Ribbed Metal	\$6.91	
Otaal	Steel Cellular	\$14.25	
Steel Structure	Gypsum Plank	\$8.95	
Siructure	Formed Concrete	\$18.40	
	Pre-cast Concrete	\$15.80	
	Poured Concrete or Gypsum on Steel Deck	\$13.41	
Concrete	Formed Concrete	\$12.70	
Structure	Pre-cast Concrete Joist & Deck	\$15.10	

For monitor or sawtooth roof add 40% to above costs

Trusses (cost each truss)						
Conne	Stee	el	Wood			
Span	Light*	Heavy*	Light*	Heavy*		
20'			\$610	\$820		
30'	\$3,160	\$4,820				
40'	\$4,220	\$6,420	\$1,510	\$3,010		
60'	\$6,330	\$9,640	\$3,380	\$4,510		
80'	\$8,440	\$12,850	\$4,510	\$6,010		
100'	\$10,550	\$16,060	\$7,530	\$10,040		
120'	\$12,660	\$19,270	\$9,040	\$12,050		
140'		\$22,480	\$10,540	\$14,060		
160'		\$25,700				

^{*}Light trusses are those carrying roof loads only.

Heavy trusses are those carrying additional load of hoists or cranes. The above trusses are for heavy industrial use buildings. When computing a lighter industrial or commercial use building that has wood truss roof construction use the table below.

Wood	Per SFFA
Light Duty	\$4.26
Heavy Duty	\$6.28

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7 Roof Cover			
Туре	Per SF	Type	Per SF
Aluminum Shingles		Fiberglass-Corrugated/Steel	\$2.56
Corrugated or Ribbed	\$4.74	Lead	\$13.75
Asbestos Cement (Transite)		Roll Comp	\$1.05
Corrugated	\$4.50	Slate	\$13.33
Shingles	\$4.28	Steel	
		Galvanized, Corrugated or	
Built-up Composition	\$2.19	Ribbed	\$5.33
with Gravel Surfacing	\$2.56	Porcelain Enamel	\$3.13
Clay Tile	\$8.18	Synthetic Rubber Membrane	\$2.91
Composition Shingles	\$3.16	Wood	
Concrete Tile	\$4.91	Shingles	\$6.56
Copper-flat or Standing Seam	\$24.16	Shakes	\$7.39

8 Roof Insulation (per SF Insulation)	
Insulation Type	Per SFIA
Batts or Roll Insulation	\$1.43
Rigid Insulation Board	\$2.48
Sprayed Foam on Deck 1"	\$2.50
2"	\$4.38
Gutter and Downspouts	Per LF
Aluminum Gutters	\$4.55
Copper Gutters	\$14.44
Galvanized Gutters	\$5.24
Vinyl Gutters	\$3.13
Aluminum Downspouts	\$4.56
Copper Downspouts	\$16.61
Galvanized Downspouts	\$5.06

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Exterior Wall Coverings

9

This schedule starts with the wood or metal studs to which the cost of sheathing, insulation, etc., must be added. For build-up of the interior of the wall, see the interior wall finishes schedule to complete the wall cost.

wan misi	Framing	Per SFWA	Framing	Per SFWA
	Wood Studs	I OI OI WA	Masonry Veneers	
2 x 4	12" oc	\$2.60		\$15.64
	16"		Used Brick	\$15.00
	24"	\$1.55		\$28.35
2 x 6	12" oc	\$3.92		\$30.50
	16"	\$2.97		\$41.25
	24"	\$2.42		\$45.25
4 x 4	24" oc	\$3.93		\$63.38
	36"	\$2.97		\$40.80
	48"	\$2.62	Stucco	¥ 10100
	Steel Studs	Ψ	On Wire Mesh	\$6.49
2 x 4	16" oc	\$2.44		\$7.24
2 x 6	16" oc	\$2.96		\$5.75
	Sheathing		Wood	
OSB Cor	nposition	\$1.08	Shakes, Shingles	\$6.99
Fiberboa	rd	\$1.50	Plywood Panels	\$3.06
Gypsum	Board	\$0.94	Board and Batten	\$3.44
Plywood		\$1.79	Concrete Block	
Wood Bo	ards	\$3.49	Screen	\$11.46
	Insulation		Split-face	\$10.54
Aluminun	n Siding, Corrugated	\$0.78	Ceramic Tile	\$13.29
Batts or F	Roll	\$1.06	Terra Cotta	\$30.30
Polystyre	ne	\$1.63	Structural Glass (Vitrolite)	\$24.50
Loose Fil	I in Stud Walls	\$1.24	Glass Block	\$45.63
	Exterior Facing		Additions for Furri	ng
Aluminun	n Siding, Corrugated	\$5.46	Wood	\$1.41
Enamele	d	\$6.05	Masonry	\$1.69
Transite \$5.45		Paint		
Metal Sa	ndwich Panels	\$12.13	On Masonry	\$1.23
Fiberglass \$2.33		On Stucco	\$1.35	
Galvanize	ed Steel, Corrugated	\$3.75	On Wood	\$1.28
Flat Enameled Steel \$4.8		\$4.88		
Hardboai	rd, Masonite	\$3.96		

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10 Exterior Wall Construction

Normally, wall costs are priced for the total wall area when openings for doors, windows, etc. are only a small percentage of the total. The price of doors, windows, etc. is then added. When the openings represent over 20% of the total wall area, they should be deducted from the wall area before pricing the wall. For walls over 25 feet in height, add 1% for each foot.

foot.		
Masonry Walls (Loa	ad-Bearing)	Per SFWA
Concrete Block	6"	\$12.26
	8"	\$14.84
	12"	\$20.58
Brick, Common	8"	\$42.00
	12"	\$62.88
	16"	\$84.00
Brick, Block Backup	8"	\$30.84
	12"	\$34.67
Clay Tile	6"	\$11.40
	10"	\$15.04
Concrete (Formed)	6"	\$21.50
	8"	\$23.20
	12"	\$26.55
Added for Pilasters		\$1.25
Concrete Precast Panels	4"	\$19.31
	6"	\$23.34
	8"	\$24.63
	12"	\$29.88
Wood or Stee	I Framed Load-b	pearing Walls
Wall Cost include	es Studs	Per SFWA
Aluminum Siding		\$8.47
Wood Shingles		\$10.00
Wood Siding		\$8.57
Cement Fiber Asbestos Sidi	ng	\$7.74
Brick Veneer		\$18.65
Stone Veneer		\$37.00
Stucco		\$10.25
Add for Sheathing		\$1.08
Add for Insulation		\$1.06

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11 Curtain (non-bearing) Walls

Curtain walls (or panel walls) are exterior walls that enclose a building but do not support upper floors or roof construction. The price given is for the curtain wall only and includes no costs for structural framing that should be priced from the appropriate framing schedule.

Туре		Per SFWA
Concrete tilt-up	4"	\$18.50
	6"	\$21.34
	8"	\$22.88
	10"	\$25.50
Brick, Block Backup	8"	\$29.54
	12"	\$32.66
Brick, Solid Common	8"	\$39.50
	12"	\$58.75
Add for Face Brick		\$3.50
Concrete Block	6"	\$11.55
	8"	\$14.30
Add for Interior Core Insulati	on	\$0.95
Concrete (Formed)	6"	\$18.50
	8"	\$19.40
	12"	\$23.20
Clay Tile	6"	\$11.10
	10"	\$14.15
Concrete and Glass Panels		\$31.50
Metal and Glass Panels		\$35.40
Stainless Steel and Glass		\$56.25
Marble or Stone Panels		\$57.50
Glass Block		\$45.65

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12 Doors (Industrial)	
Туре	Per SFDA
Steel Roll-up	\$25.96
Fiberglass Overhead	\$26.50
Wood Panel Overhead	\$19.40
Steel Roll-up	
Rolling	\$28.50
Overhead	\$17.75
Vertical Lift Electric	\$124.00
Add for Electric Operation	
Roll-up Door	\$14.50
Overhead	\$13.40
Rolling	\$15.10
Walk-In	Per SFDA
Metal Clad	
Ind. Swinging Single Leaf	\$72.27
Ind. Swinging Double Leaf	\$66.50
Office Swinging Single Leaf	\$43.50
Fire Doors	Per SFDA
Rolling	\$49.25
Swinging	\$55.40
Add for Electric Operation, each	\$1,950.00

13	Windows	
	Type Frame	Per SF Window Area
Steel Sas	sh, Fixed Industrial	\$21.38
	Vented, Industrial	\$26.38
Aluminum	n Sash, Awning	\$23.98
	Casement	\$20.75
	Sliding	\$16.65
	Jalousie	\$23.20
Add for	1/4" Wire Glass	\$14.60
	1/4" Plate Glass	\$4.20
	Double Glazed	\$6.70
	Solar Glass	\$17.50

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14 Store Fronts		
Туре	*Per SF Display Area	
Wood Framed Glass & Trim with		
Wood Siding	\$31.50	
Brick	\$41.50	
Ceramic	\$37.50	
Marble or Granite	\$81.50	
Steel Framed Glass & Aluminum Trim with		
Brick	\$51.75	
Ceramic	\$47.75	
Marble or Granite	\$92.50	
Steel Framed Glass & Stainless Steel or Bronze Trim with		
Brick	\$74.50	
Ceramic	\$68.75	
Marble or Granite	\$112.50	
*In calculating the total display area, include surface area o	f all glass, sign, and	
bulkhead areas; including entrance way, islands, etc.		
Additions to Basic Store Fronts		
Display Platforms (Per SF)	\$9.80	
Display Ceiling (Per SF)	\$4.50	
Display Back (Per SF)	\$7.80	
Entrance Doors		
Revolving Door, each	\$42,000.00	
Hinged Aluminum & Glass, Each	\$1,800.00	
Hinged Bronze or Stainless, Each	\$3,700.00	
Add for Automatic Door Opener (per door)	\$6,200.00	
Sliding Automatic Glass & Stainless Steel	\$17,500.00	
Security Gates (Per SF of Gate Area)		
Scissor type Folding Gate Painted Steel	\$22.25	
14 Roll-up Grille, Alum Manual, Each	\$39.50	
Add for Motorized Operation, Each	\$1,780.00	
Signs (Marquees) Per SF		
Plain, Steel Framed	\$36.00	
Ornamental, Steel Framed	\$45.00	
Plain, Wood Framed	\$31.50	
Wood or Stucco, Wood Framed	\$26.30	
Illuminated Plastic, Single Face	\$95.00	

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15 Cash Handling and Security	
Pneumatic tube system, 2-station	\$39,940
Night Depository	\$14,725
Closed circuit TV, one station camera and monitor	\$2,340
Additional camera stations	\$1,270
Bulletproof teller window (4' x 5')	\$6,745

16 Interior Partitions		
Construction Type		Per SFWA
Wood Stud Wall F	- rame	
2 x 4	12" oc	\$2.19
	16"	\$1.72
	24"	\$1.25
2 x 6	12" oc	\$3.19
	16"	\$2.41
	24"	\$1.82
Steel Stud Wall F	rame	
2 x 4	16" oc	\$1.69
2 x 6	16" oc	\$2.16
Concrete Block	4"	\$6.69
	6"	\$7.82
	8"	\$9.31
	10"	\$10.91
	12"	\$12.50
Clay Tile	4"	\$10.00
	6"	\$11.40
	8"	\$13.22
	10"	\$15.04
	12"	\$18.05

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17 Cubicle Partitions		
These are trackless, moveable shop partitions. The panels are semi-acoustical and at least 1 5/8" thick.		
Construction Type Per SFWA		
Enameled Panels, Flush	\$24.50	
Vinyl Covered, Flush \$22		
Wood and Composition	\$17.50	
For Less than 8' Wall Height	Deduct 10%	

18 Accordion or Folding Partitions	
Туре	Per SF
Wood-Low Acoustical	\$37.50
Wood-Acoustical, Vinyl Faced	\$70.00
Formica or Hardwood Finish	\$49.00

19 Floors		
Basement & Grade Slabs		Per SFFA
Concrete, including Prepared Base, Reinforced	4"	\$5.13
	6"	\$6.18
	8"	\$7.23
Asphalt, including prepared base	2"	\$4.44
Structural Floors (Above Grade)		Per SFFA
Steel Joints, Corrugated Deck & Concrete		\$12.34
Cellular Deck & Concrete		\$13.50
Concrete Slab		\$14.60
Precast Plank		\$13.50
Steel Grating		\$11.04
Wood Deck		\$5.48
Precast Concrete Joists & Slab		\$10.65
Elevated Concrete Slab		\$12.25
Wood Joist & Deck		\$7.76
Pan or Waffle (Formed Concrete)		\$13.30
Add for Insulation		\$1.06
Add for Fire Proofing		\$2.21

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20 O	0 Office Enclosures (Per SF)		
Grade	Finished Divided Per SFFA*	Finished Open Per SFFA**	
Economy	\$43.77	\$34.14	
Average	\$53.38	\$41.64	
Good	\$64.06	\$49.97	
Excellent	\$80.07	\$64.45	

Note: over 2,500 SF build from CIP

Pre-Fabricated Shop Offices Pre-fabricated aluminum framed booths including doors, floors, lighting, HVAC, etc.

Approx. Office Size	Per SFFA
50 SF	\$124.00
80 SF	\$109.00
100 SF	\$96.00

Average quality steel building 8" height, no plumbing, minimum electrical for lighting only

Area	Cost per SF
50 SF	\$332.64
75 SF	\$261.06
100 SF	\$222.00
125 SF	\$192.60

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^{*} Finished divided costs include suspended ceiling with grid, average lighting and electrical service, wood framed perimeter and partitions with painted drywall, office doors, and average carpet.

^{**}Except for partitions, finished open costs include the same items as finished divided costs.

23 Woven Wire Partitions (Each)	
Wall Panels - 4' wide	\$205.00
Ceiling Panels	\$270.00
Sliding Door - 3' wide x 7' high	\$619.00
Sliding Door - 6' wide x 7' high	\$890.00

24 Toilet Partitions		
Each		
Marble	\$1,568.00	
Painted Metal	\$760.00	
Plastic Laminate	\$890.00	
Stainless Steel	\$1,654.00	
Handicap Additions	\$350.00	
Urinal Screens		
Marble	\$550.00	
Painted Metal	\$300.00	
Stainless Steel	\$425.00	
Plastic Laminate	\$200.00	

25 Stairs with Railing (per	Tread)
Concrete, Reinforced on ground	\$220.00
on Steel Frame	\$350.00
Steel Grate with Steel Frame	\$280.00
Wood	\$167.00
Spiral, Ornamental Cast Iron	\$340.00
Industrial Steel	\$410.00
For Stair Landings	
Concrete Free Standing	\$24.50/SF
On Ground	\$12.20/SF

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26 Mezzanines (Cost Per SFFA)

Mezzanine costs include the framing support system, the floor system, stairways, and lighting. Where applicable, typical partitioning, floor, wall, and ceiling finishes are also included. A height adjustment is not applicable to the mezzanine cost. Mezzanines created by a structural floor over interior partitions should be priced by using appropriate CIP schedules for each construction and/or finish component.

Mezzanine Finish	Construction	
wezzanine Finish	Steel Framed	Concrete Framed
Unfinished	\$34.75	\$32.01
Store, Display (finished open)	\$66.39	\$73.65
Office (finished divided)	\$78.13	\$85.39
For wood framed mezzanines use 65% of the steel costs.		

27 Interior Wall Finishes		
Co	onstruction Type	Per SFWA
Drywall, taped &	sanded, 1 side	\$1.28
Plaster	on Masonry	\$4.78
	on and including Lath	\$5.23
Paint	on Masonry	\$1.25
	on Plaster, Drywall, Wood	\$1.00
Ceramic Tile		\$13.39
Wood Paneling	Birch Plywood	\$2.59
	Oak or Cherry	\$3.68
	Walnut, Chestnut, Rosewood	\$5.53
Wallpaper	Average	\$1.48
	Good	\$1.93
	Excellent	\$2.73
Specialties	Acrylic Glazed Coatings	\$1.60
	Epoxy Coatings	\$2.50
	Vinyl Sheet Plastic	\$1.75
	Copper Sheet	\$17.76
	Cork Tile or Sheet	\$4.14
	Marble Veneer - up to 3/4"	\$44.13
	Granite Veneer - up to 1 1/4"	\$41.25
	Limestone Veneer - up to 2"	\$45.25
Furring	on Wood	\$1.08
	on Block or Brick	\$1.69

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28 Ceilings	
Construction Type	Per SFCA
Acoustical Tile	
Aluminum, Perforated	\$6.50
Mineral Fiber	\$2.53
Drywall Finished, Taped, & Painted w/textured spray	\$3.94
Plaster on Lath	
Plain	\$6.70
Acoustical	\$7.50
Plywood Panel	
Softwood	\$2.59
Hardwood	\$3.68
Luminous Plastic Panel with Suspension System	\$1.54
Add for	
Furring	\$2.63
Insulation	\$1.43
Suspension System	\$2.39

29 Cabinets and Counters		
Туре	Per LF	
Base with Doors (w/o Counter Top)		
Hardwood	\$231.50	
Enameled Steel	\$220.00	
Painted Wood	\$179.00	
Add for Drawer Unit	\$0.20	
Wall		
Hardwood	\$124.50	
Enameled Steel	\$121.00	
Painted Wood	\$110.00	
Tall Lab Storage Cabinets	\$275.00	
Counter Tops		
Plastic	\$65.55	
Ceramic	\$57.34	
Stone	\$153.15	
Stainless Steel	\$126.50	

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30 Floor Finish			
Type Per SFFA		Туре	Per SFFA
Carpet		Brick, Stone & Tile	
Economy Grade	\$4.13	Brick, Common in Mortar	\$11.61
Good Grade	\$5.85	Industrial Acid-Proof	\$22.50
Excellent Grade	\$8.11	Ceramic or Quarry Tile	\$13.39
Add for Pad	\$1.20	Marble	\$43.38
Composition		Terrazzo	\$15.99
Epoxy, Troweled	\$13.50	Slate	\$22.10
Epoxy, w/chips	\$12.00	Flagstone	\$16.93
Terrazzo	\$19.94	4 Wood	
Concrete Toppings		Block, End Grain	\$12.50
Cement Troweled, 1/2"	\$6.25	Oak	\$10.64
Cement Troweled, 1"	\$6.50	Pine	\$7.64
Add for Coloring	\$1.30	Parquet Blocks, Pre-finished	\$20.01
Add for Hardener & Sealer	\$1.50	Add for Sleepers, 24" oc	
Resilient		1" x 2"	\$5.50
Vinyl or Asphalt Tile	\$2.78	2" x 4"	\$2.75
Vinyl Sheet	\$5.10	5.10 Computer Floor, Raised	
Rubber Tile or Sheet	\$17.50	Metal on Plywood	\$14.50
Cork Tile	\$15.20	Aluminum Panels	\$28.33
Synthetic Turf	\$16.63	w/Vinyl Covering - Add	\$6.44
Paint		w/High Pressure Laminate -Add	\$6.10
on Masonry & Porous Surface	\$1.05	w/Carpet Cover - Add	\$8.50

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31 Electrical and Lighting (Cost per SFSA)

Cost includes electrical panel, wiring and average grade lighting fixtures & devices, all in place. The price does not include special wiring, such as alarm or signal systems.

Type Service	Comm.	Ind.	Office
Scant Service			
Flexible Conduit	\$8.08	\$4.38	\$9.61
Rigid Conduit	\$9.29	\$5.47	\$11.05
Average Service			
Flexible Conduit	\$11.54	\$6.25	\$13.73
Rigid Conduit	\$13.27	\$7.81	\$15.79
Abundant Service			
Flexible Conduit	\$16.15	\$8.75	\$19.22
Rigid Conduit	\$18.58	\$10.93	\$22.11
Unfinished Areas			
Flexible Conduit	\$3.23	\$2.34	\$3.43
Rigid Conduit	\$3.72	\$2.93	\$3.95
	· -		•

Cost by Use

Listed below are typical average electrical system costs according to certain occupancies. The unit price is to be applied to floor area of electrical service

Use Type	Per SFSA	Use Type	Per SFSA
Branch Banks	\$19.45	Office Buildings	
Department Stores	\$9.23	Avg. Quality	\$13.73
Discount Stores	\$7.95	High Quality	\$20.66
Garages	\$6.73	Retail Stores	\$7.75
Service	\$8.90	Restaurants	
Storage	\$4.55	Low Quality	\$12.32
Manufac. Light	\$6.46	High Quality	\$24.64
Manufac. Heavy	\$13.80	Supermarkets	\$10.33
Mini-Warehouse	\$2.34	Warehouses	\$4.55

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32 Plumbing

The typical fixture cost is for sinks, water closets, tubs, water heaters, urinals, etc. The cost includes amounts for fixture water supply, waste, and vent lines. Exterior piping to the building is not included.

Typical Fixtures				
Residential Type 1 \$930	Commercial Type 2 \$1,500		Industrial Type 3 \$2,000	Specialty Type 4 See Below
Specialty	Fixtures		Eac	ch
Drinking Fountain,	Floor			\$2,100
	Wall			\$1,700
Electric Water Cooler				\$1,700
Laundry Tub,	Single			\$1,500
	Double			\$1,650
Sump Pump				\$380
Janitor's Sink				\$1,110
Emergency Shower o	r Face Wash			\$1,540
Cast Iron Trough Sink	s, 4 Faucet	48"		\$2,100
	8 Faucet	96"		\$3,500
Add for Stainless Stee	el		20%	
Circular Wash Sinks			36"	54"
Polished Cement			\$3,000	\$3,750
Terrazzo			\$3,150	\$3,900
Enameled Steel			\$3,500	\$4,225
Stainless Steel			\$3,700	\$4,750
Semi-Circular Wash S	inks		36"	54"
Polished Cement			\$2,730	\$3,290
Terrazzo			\$2,900	\$3,500
Enameled Steel			\$3,150	\$3,800
Stainless Steel			\$3,250	\$4,100
Column Showers			Enameled Steel	Stainless Steel
Circular (per Showe	r head)		\$500	\$750
Semi-Circular (Per S	Shower)		\$700	\$950
Single Stall Shower				
w/Receptor & Curta	in Hanger			\$800
w/Receptor & Hinge	d Door	\$1,000		\$1,000
Note: Above prices d	o not include p	artition	S	

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33 Heating-Ventilation-Air Conditioning (HVAC) Per SFFA

Prices for HVAC are provided below according to finish or use of the building (or area within the building). The prices were developed on the basis of heating, ventilation or air conditioning cubic area and then converted to SF costs for the convenience of the assessor. Because of this, it may be necessary to adjust the costs for height. The base height is 14' and 3% of the cost indicated should be added or deducted for each foot of height variation in the subject building.

Туре	Comm.	Ind.	Office
Electric Baseboard	\$3.85	\$3.65	\$5.50
Electric Wall/Floor Heaters	\$2.33	\$2.33	\$3.10
Heat Pump, Heat & Cool	\$7.38	\$5.82	\$11.36
Forced Warm Air, Central System	\$5.48	\$4.12	\$8.22
Ventilation only w/Ducts	\$1.25	\$0.90	\$1.92
Hot Water Baseboard	\$8.94	\$6.29	\$13.38
Radiant Floor	\$4.50	\$3.26	\$6.75
Steam Radiators			
w/Boiler	\$6.44	\$5.12	\$12.31
w/o Boiler	\$5.24	\$4.22	\$10.09
Suspended unit heaters			
Gas Fired	\$2.10	\$1.60	\$2.55
w/Steam or Hot Water Coil	\$3.50	\$1.85	
Zoned Hot & Cold Water	\$18.50	\$14.00	\$28.00
Zoned Hot & Cold Air	\$10.50	\$8.00	\$16.50
A/C Central Forced Air	\$6.50	\$4.50	\$9.50

Suspended Unit Heaters (Cost Each)

In those instances where a building has a very limited number of individual heating units, the above square foot cost might not be applicable. For a more reasonable cost estimate each individual heater should be priced separately. The costs are provided below and need not be adjusted for story height.

BTU Rated Capacity	Cost Each	BTU Rated Capacity	Cost Each
35,000	\$1,750	150,000	\$2,500
75,000	\$2,050	250,000	\$3,450
100,000	\$2,200	400,000	\$5,500

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33, cont. Heating-Ventilation-Air Conditioning (HVAC), continued				
	Electric Heate	ers (Cost Each)		
Infra-Red Ceiling or Wall				
1 kw: \$500	2 kw: \$60	0	3 kw: \$	800
Infra-Red Modular Baseboar	d or Wall Units	3		
1 kw: \$550	3 kw: \$85	0	5 kw: \$	1,000
	Ventilators			
Roof Power Driven	Cost Each	Roof Gravity	Туре	Cost Each
12"	\$600	12"		\$450
18"	\$850			
24"	\$1,050	24"		\$1,500
30"	\$1,250	30"		\$1,800
36"	\$1,500	36"		\$2,200
48"	\$1,800	48"		\$2,850
For wall mounted power ventilators, deduct 10% from cost of roof power drive				

34	Fire Escapes	
	Counterbalanced	
Two Story Build	ing	\$8,400
Each, Additiona	l Flight	\$4,150
	Balcony and Stairs	
Steel Balcony	- 2' Wide (per LF)	\$250
	- 3' Wide (per LF)	\$300
Steel Stairs	- 3 Wide (per Flight)	\$3,750
	Ladders	Per VLF
Steel, Bolted to	Building	
w/Cage		\$170
w/o Cage		\$95
Aluminum, Bolte	ed to Building	
w/Cage		\$180
w/o Cage		\$100

ventilators.

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35 Fire Protection Equipment				
		Each		
Metal Hose House		\$800		
Hose House Equip	ment			
100 LF Industrial	Fire Hose			
1 1/2" Diameter		\$290		
2 1/2" Diameter		\$415		
Hose Racks				
Swinging w/125'		\$530		
1 1/2" Hose		\$565		
Alarm Systems				
4 Zone w/Control	Panel	\$2,250		
8 Zone w/Control	Panel	\$3,400		
12 Zone w/Contro	ol Panel	\$4,800		
Fire Pumps				
Including controls a	Including controls and accessories (not including piping).			
GPM	Electric	Diesel		
500	\$34,000	\$93,000		
750	\$41,000	\$100,000		
1,000	\$49,000	\$106,000		
1,500	\$61,000	\$115,000		
2,000	\$65,000	\$121,000		
2,500	\$74,000	\$127,000		
	Pump Houses			
Includes concrete floor, wall & roof construction, pump pits, lighting, water connection, and doors				
Type Construction Per SF				
Corrugated Metal - Wood Frame		\$58.00		
- Steel Frame		\$66.00		
Concrete Block - Load Bearing		\$92.50		
Add for Space Heater from HVAC Schedule 31				
Add for Underground Pipe from Schedule 69				

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36 Fire Sprinkler System

Sprinkler costs include all interior heads, supply lines, and accessories. Wet system piping contains water at all times; dry pipe system contains air under pressure and is used in unheated areas where freezing might be encountered. For dry pipe systems, add 10% to the wet system prices. Pumps should be added to the costs below.

	Cost per SFSA		
Area Serviced	Ordinary Hazard*	Extra Hazard**	
Through 1,000 SF	\$8.75	\$13.10	
1,001 - 2,000	\$8.50	\$12.75	
2,001-5,000	\$5.60	\$8.40	
5,001-10,000	\$4.68	\$7.00	
Over	\$4.20	\$6.30	

^{*}Ordinary hazard occupancies include stores, commercial, offices, garages, factories, warehouses, etc.

^{**} Extra hazard occupancies include aircraft hangers, chemical works, linoleum manufacturing, paint shops and varnish works, solvent extracting, etc.

Underground Fuel Storage Tanks			
Gallons Capacity	Fiberglass	Steel	
550	\$9,780	\$9,750	
1,000	\$15,800	\$12,700	
2,000	\$17,400	\$16,500	
4,000	\$22,400	\$20,750	
6,000	\$27,300	\$28,400	
10,000	\$36,600	\$38,600	
12,000	\$45,500	\$46,700	
15,000	\$54,700	\$53,200	
20,000	\$64,000	\$69,200	
30,000	\$95,000	\$99,000	

Price includes excavation, setting in place, and all backfill.

Price is for single wall; add 50% for double wall.

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38 Gas Pumps and Dispensers (Electronic)			
Туре	Item Cost		
Single hose, 1 product	\$12,565		
Single hose, 2 products	\$18,760		
Single hose, 3 products	\$23,340		
Add for double-sided operation \$6,			

39 Escalators (Cost per Flight)				
Ctowy Hoight	Stair '	Width		
Story Height	32" 48"			
10'	\$158,400	\$166,300		
12'	\$159,200	\$167,200		
14'	\$155,000	\$162,800		
18'	\$163,700	\$171,900		
22'	\$187,900	\$197,300		
25'	\$198,000	\$207,900		
Add \$1,200 per foot of rise per unit for glass panel sides.				

40 Vertical Lifts	
Туре	Cost
Electric Dumbwaiter - 500#	\$29,350
Electric Man Lift*	\$10,500
Manual Dumbwaiter	\$15,200
Manual Man Lift*	\$3,200
*Add \$1,500 per stop over two.	

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41 (Hinge	Dock Gates (Hinged, Painted Steel, Diamond Pattern, Scissor Type)			
, ,	Width	6' High		
Single	5'	\$550		
	6'	\$575		
	8'	\$675		
Double	8'	\$950		
	10'	\$975		
	12'	\$1,350		
	14'	\$1,480		
	Additions (+)			
Aluminum Gates		125%		
Stainless Steel Gates		150%		
Bronze Gate	es	250%		
Door Seals \	Vinyl Covered (Per LF)	\$73.38		
Expanded Tr	\$2,000.00			
Rubber Dock Bumpers				
12" high X	12" high X 14" long (each)			
	24" long (each)			
	\$244.00			

42 Retaining Walls			
Prices are for exposed face area and includes concrete footing 3' below grade.			
Type Per LF			
Concrete Block	6' high	\$210.61	
	8'	\$234.86	
	10'	\$259.11	
Reinforced Block	6' high	\$263.26	
	8'	\$293.58	
	10'	\$323.89	

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43 Loading Ramps and Wells				
Туре	Per SF			
Truck Ramp - Concrete, 0' to 4' Rise	\$18.50			
Truck Well - Concrete, 0' to 4' Deep	\$18.50			
Truck or RR Well, grade level,				
4' High with Concrete Side Walls	\$12.75			

44 D	Dock Levelers		
Deck Size	Capacity (lbs.)	Cost Each	
6' x 8' Fixed	5,000	\$4,500	
6' x 8' Hinged	20,000	\$5,400	
7' x 8' Hinged	20,000	\$5,800	
6' x 8' Hydraulic	20,000	\$6,800	
7' x 8' Hydraulic	20,000	\$7,500	

45 Doc	Dock Canopies				
Тур	е	Per SF			
Simple Wood or Stee	l without Lighting	\$14.50			
Good Structure with	Good Structure with Lighting, Soffit				

46 Loading Docks						
Includes Co	Concrete: Includes Concrete Foundation, Floor, Retaining Walls, Bumpers and Steps					
Dook Width		SF	Costs who	ere length i	S	
Dock Width	10'	20'	30'	50'	100'	200'
5'	\$92.38	\$76.43	\$71.10	\$66.84	\$63.65	\$62.06
10'	\$57.11	\$46.47	\$42.90	\$40.07	\$37.94	\$36.87
15'	\$45.35	\$36.47	\$33.51	\$31.14	\$29.36	\$28.47
20'	\$39.47	\$31.47	\$28.81	\$26.68	\$25.08	\$24.28
30'	\$33.60	\$26.48	\$24.11	\$22.21	\$20.79	\$20.08
For Concrete Block WallsDeduct 6.5%						
Wood:						
Includes Concrete Piers, Wood Posts & Girder Framework, Bumpers and Steps						
Light Construction - 2" Plank or 2" Joists						
Heavy Construction - 4" Plank or 4" JoistsAdd 50%						

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47 Cold Storage Refrigeration

For accurate cost build-up of cold storage plants, determine the basic building cost then add for the insulation, doors, refrigeration equipment, etc.

Insulation (per SFSA)

Apply costs to insulated surface area of the walls, ceilings and floors. Costs do not include prices of inner walls or partitions that may be made of concrete, concrete blocks, or wood that must be priced from the appropriate CIP schedule. For coolers or freezers without floors, deduct 23% from total costs.

Туре	1"	2"	4"	6"	8"
Cork	\$3.15	\$3.62	\$4.84	\$5.65	\$6.42
Fiberglass Board	\$2.77	\$2.79	\$3.15	\$3.31	\$3.56
Foam glass Board	\$3.20	\$3.80	\$4.91	\$6.08	\$7.22
Mineral Wool Batts	\$2.50	\$2.59	\$2.86	\$3.11	\$3.33
Styrene Board	\$2.50	\$2.63	\$2.86	\$3.17	\$3.40
Urethane Board	\$2.77	\$3.29	\$4.14	\$5.09	\$6.03
Urethane Sprayed	\$1.80	\$2.52	\$3.89	\$5.40	\$6.19

Doors (Per SFDA)

Costs are for manually operated, hinged, galvanized doors.

- Double

SFDA	2"	4"	6"	8"
Up to 15 SF	\$159.31	\$170.53	\$182.24	\$194.31
16-25	\$136.38	\$148.69	\$161.72	\$176.21
26-40	\$114.66	\$127.33	\$142.41	\$159.31
Over 40	\$96.55	\$108.62	\$124.31	\$141.21

For other doors, use the following adjustments

Stainless Steel		Add 12%
Wood Clad		Deduct 15% per Side
Sliding Doors	- Single	Add 10%
	- Double	Add 40%
	Add for Electric Ope	rators by Door Type
Hinged	- Single	\$3,200 Each
	- Double	\$4,500 Each
Sliding	- Single	\$5,500 Each

\$6,500 Each

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Walk-in Boxes-Prefab Cost includes complete galvanized unit 7'6" high, including doors, floors and refrigeration equipment. For wood exterior and interior, deduct 10%; without floor, deduct 6%.

Size/SF	32° F to 60° F	5° F to 31° F	Minus 15° to 5° F
50	\$9,750	\$12,950	\$14,200
100	\$13,250	\$19,250	\$23,000
200	\$20,500	\$28,000	\$36,750
300	\$26,250	\$36,350	\$46,000
400	\$33,500	\$41,500	\$51,000
500	\$38,150	\$48,200	\$61,900

48 Refrigeration Equipment		
Room Type	Per CF	
Cooler, up to 50° F	\$0.95	
Chiller, up to 0° F	\$1.15	
Freezer, below -15° F	\$1.50	
Sharp Freezer, below -30° F	\$2.10	
Accessories		
Shelving - Plated or Galvanized	\$32.50	
Stainless Steel Shelving	\$47.50	

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49 **Passenger Elevators**

Electric

Costs include shaft, penthouse, cab and automatic controls for passenger-operated (push-button) elevator with power-operated doors. Deduct 10% for manual controls.

Speed/FPM	Capacity (Lbs.)	Cost per Elevator*
100	2,000	\$86,000
	2,500	\$98,500
	3,000	\$105,000
150	2,000	\$97,500
	2,500	\$112,000
	3,000	\$118,500
200	2,000	\$103,700
	2,500	\$127,300
	3,000	\$128,600
250	2,000	\$115,500
	2,500	\$130,200
	3,000	\$137,500
300	2,000	\$122,500
	2,500	\$137,500
	3,000	\$145,000
350	2,000	\$129,500
	2,500	\$145,000
	3,000	\$152,500
*Add for Each Stop\$7,180		

Hydraulic

Costs include shaft, penthouse, cab and automatic controls for passenger-operated (push-button) elevator with power-operated doors. Deduct 10% for manual controls.

Speed/FPM	Capacity (Lbs.)	Cost per Elevator*
100	2,000	\$66,400
	2,500	\$72,600
	3,000	\$74,500
150	2,000	\$72,500
	2,500	\$76,000
	3,000	\$77,000
200	2,000	\$77,500
	2,500	\$81,000
	3,000	\$83,500
*Add for Each Stop\$8,400		

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50 Freight Elevators				
Costs includ	Costs include complete installation as above. Deduct 10% for manual controls.			
Speed	Capacity	Cost per Elevator	Add for E	ach Stop
Speed	Сараспу	Cost per Elevator	Manual Doors	Power Doors
Hydraulic	2,000	\$32,500	\$7,900	\$15,000
50 FPM	4,000	\$38,000	\$8,900	\$16,190
	6,000	\$45,000	\$9,850	\$17,490
	8,000	\$49,500	\$10,440	\$18,100
	10,000	\$72,500	\$10,940	\$18,660
Electric	2,500	\$85,000	\$8,280	\$15,575
100 FPM	4,000	\$90,000	\$8,900	\$16,310
	6,000	\$95,000	\$10,000	\$17,645
	8,000	\$98,000	\$10,630	\$18,475
	10,000	\$106,000	\$11,125	\$19,000
Add for rear door -manual\$9,980				
-power\$17,600				

51	Rail Spur Track		
Complete including rails, ties, and ballast.			
Rail Weight (in lbs.)	Rail Size	Cost per LF	Add for Switch & Turnout
80	5 x 5	\$103.50	\$34,185.00
100	5 3/8 x 6	\$117.00	\$38,000.00
115	5 1/2 x 6 5/8	\$127.20	\$40,850.00
			\$4,475.00 \$1,050.00

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52 Railroad Scales

Cost includes concrete pit and platform with steel scale mechanism.

Capacity/Ton	Cost
150	\$111,000
175	\$124,000
200	\$139,000
250	\$173,000
300	\$217,000
350	\$271,000

53 Floor Recessed Scales

Cost of built-in floor scale includes cost of pit, scale, and platform. For wood platform, deduct 6%.

Capacity/lbs.	Cost
4,000	\$10,900
6,000	\$14,500
10,000	\$20,900
20,000	\$30,000

54 Truck Scales

Cost includes pit, beam scale, and steel weight bridge. For wood platform, deduct 6%

, , , , , , , , , , , , , , , , , , ,		
Capacity/Ton	Cost	
20	\$39,900	
30	\$46,500	
40	\$53,400	
50	\$60,700	
60	\$58,000	
70	\$78,800	

Add for:

Automatic Card Printer.....\$1,750 Remote Reading Electronic System.....\$7,900

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55 Industrial Wells and Pumps

Costs include the complete well insulation excluding pumps. Price well pumps separate from wells.

Wells		Vertical Pumps		
Size	Cost per VLF	GPM	HP	Cost
4"-6"	\$45.36	200	5	\$12,595.00
8"-10"	\$76.86	600	10	\$17,750.00
12"-14"	\$97.56	1,000	20	\$24,750.00
16"-18"	\$122.28	2,000	30	\$38,000.00
20"-22"	\$145.62	4,000	60	\$65,800.00
24"-26"	\$174.12	6,000	100	\$86,000.00
28"-30"	\$199.20	10,000	150	\$145,700.00

56 Tow	ers
Self-Suppor	rting (each):
50'	\$20,000
75'	\$37,000
100'	\$58,000
150'	\$108,000
200'	\$133,000
225'	\$141,000
250	\$154,000
300'	\$169,000
350'	\$195,000
400'	\$220,000
Triangular Guy	ved (Per LF Ht):
10" Ham Radio, Police, Fire	\$113
20" Taxi, Public	\$160
24" Radio, V.H.F., U.H.F	\$219
30" Cellular	\$278
40" Microwave	\$350
54" Television	\$689

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57 Traveling Overhead Cranes						
Duides Coop	Capacity					
Bridge Span	10 Ton	15 Ton	20 Ton	25 Ton		
20'	\$97,500	\$112,000	\$127,500	\$148,000		
30'	\$105,500	\$122,000	\$137,500	\$157,500		
40'	\$115,000	\$130,000	\$150,000	\$170,000		
50'	\$127,500	\$142,500	\$162,000	\$182,500		
75'	\$160,000	\$175,000	\$195,000	\$218,000		
100'	\$200,000	\$220,000	\$240,000	\$260,000		

Costs are averages for ground controlled, variable speed, twin girder, and overhead cranes (exclusive of craneways). For cranes with cabs, add \$6,000 for minimum controls; add \$21,750 for deluxe cabs with air conditioning and complete controls.

58 Craneways (Per LF)						
Beam Size	Supports 20'oc	Supports 25'oc	Supports 30'oc	Bldg. Framing Supported		
12"	\$400	\$360	\$335	\$205		
15"	\$450	\$410	\$380	\$235		
18"	\$535	\$480	\$445	\$275		
20"	\$600	\$535	\$500	\$305		
24"	\$655	\$590	\$550	\$335		
30"	\$770	\$700	\$650	\$395		
36"	\$890	\$800	\$750	\$455		

Costs are based on 16' height including craneways and supporting columns. Costs are for length of craneway. Add or subtract 5.5% for each 2' of variance from base ht. **Example:** 100 LF of 18" craneway beams with supporting columns 25'oc, 20' high = $$480 + (2 \times 5.5\% \times $480) = 532.80 ; 100 LF at \$532.80 = \$53,280 craneway cost.

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59 Industrial Monorail Cranes				
Capacity (Tons)				
2 3 5 10				
\$11,500	\$12,000	\$13,500	\$17,000	

Costs are for smaller industrial hoists where lower capacity and headroom is required and where each has their individual craneway bracing or support system. The steel columns and beams of the support system must be priced and added to the hoist cost.

60 Above Ground Storage Tanks					
Gallons Capacity	Steel	Wood			
10,000	\$50,000	\$20,000			
20,000	\$80,000	\$35,000			
30,000	\$105,000	\$45,000			
50,000	\$142,500	\$62,500			
75,000	\$190,000	\$80,000			
100,000	\$220,000	\$97,500			
125,000	\$245,000	\$114,000			
150,000	\$265,000	\$130,000			
200,000	\$290,000	\$154,000			
250,000	\$340,000				
300,000	\$375,000				
400,000	\$467,500				
500,000	\$548,000				
750,000	\$705,000				
1,000,000	\$812,500				

Cost includes sand and gravel foundations on smaller tanks, concrete foundations on larger tanks, ladders or stairs, painting, fittings, etc.

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61 Jib Cranes--Column or Wall Mount

Costs include column, boom and base, if any. Capacities are for the jib crane only and costs do not include the price of the chain or rope hoist that must be added.

Boom Length	Capacity (lbs.)	Cost
8'	1,000	\$2,350
	4,000	\$3,800
	8,000	\$5,800
12'	1,000	\$2,850
	2,000	\$3,600
	4,000	\$4,950
	8,000	\$7,750
16'	1,000	\$3,600
	6,000	\$8,400
	8,000	\$10,250

Chain or Rope Hoists

Electric		Manual	
Capacity (lbs.)	Cost	Capacity (lbs.)	Cost
1,000	\$1,950	1,000	\$550
2,000	\$2,300	2,000	\$700
4,000	\$3,100	4,000	\$1,000
6,000	\$3,750	6,000	\$1,300

^{*}Monorail hoist systems may be priced by adding together the costs of the single steel beam and the chain (or rope) hoist, each according to its size and/or its capacity.

Steel Columns and Beams					
I Be	I Beams		ams		
Size	Per LF	Size	Per LF		
4"	\$33.50	4" x 4"	\$37.50		
6"	\$44.00	6" x 6"	\$47.50		
8"	\$47.50	8" x 8"	\$62.00		
12"	\$58.00	12" x 12"	\$104.00		
15"	\$74.00	14" x 14"	\$115.00		

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62 Paving					
Paving Type		Paving Type			
Asphalt	Per SFGA	Curbs	Per LF		
Binder Course		Asphalt			
2" Thick	\$1.59	6" x 8"	\$5.56		
3" Thick	\$2.33	8" x 8"	\$6.30		
4" Thick	\$3.07	Concrete			
Wearing Course		6" x 18" Cast in Place, Straight	\$16.80		
1 1/2" Thick	\$1.38	6" x 18" Cast in Place, Curved	\$20.54		
2" Thick	\$1.76	6" x 18" Precast, Straight	\$22.80		
2 1/2" Thick	\$2.14	6" x 18" Precast, Curved	\$28.50		
Light Traffic (Drive-ins,		Granite			
Parking Lots, etc.)	\$2.97	5" x 16"	\$24.50		
Heavy Traffic (Truck Stops,					
Service Stations, etc.)	\$5.21	6" x 18"	\$29.90		
Concrete	Per SFGA	Sidewalks Per S			
6"	\$3.65	Asphalt on Ground			
8"	\$4.73	2"	\$3.50		
9"	\$5.75	2 1/2"	\$4.10		
Crushed Stone					
(includes Grading)	Per SFGA	Concrete on Ground			
3"	\$0.70	4"	\$5.16		
6"	\$1.22	5"	\$5.89		
9"	\$1.88	6"	\$6.63		
Steps	Per LF				
Oteps	Tread	Add for Exposed Aggregate	\$1.30		
	*	Prepared Base			
Concrete	\$36.84	(for Above Walks)			
Brick	\$63.58	4"	\$0.79		
Railroad Ties	\$44.50	6"	\$1.56		

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63 Yard Lighting					
Type and Height	1 Arm	2 Arm	3 Arm	4 Arm	
Aluminum					
20'	\$2,100	\$2,270	\$2,440	\$2,610	
30'	\$3,200	\$3,560	\$3,920	\$4,280	
40'	\$4,000	\$4,200	\$4,400		
Steel					
20'	\$2,460	\$2,585	\$2,710	\$2,835	
30'	\$3,360	\$3,450	\$3,540	\$3,630	
Wood					
10'	\$700				
12'	\$795				
15'	\$890				
20'	\$1,050				
	Lamps Add to Cost	and Lights of Poles and	Arms		
Туре		Wat	tage	Cost Each	
Incandescent		50	00	\$380	
		1,000		\$500	
		1,5	00	\$680	
Metal Halide		175		\$1,000	
		40	00	\$1,400	
		1,0	00	\$1,950	
Mercury-Vapor		400		\$850	
		1,0	00	\$1,170	
Sodium		400		\$990	
		1,0	00	\$1,400	

64 Fencing				
Type	Height			
Туре	4'	6'	8'	
Chain Link	\$14.20	\$15.69	\$16.96	
Add for				
Gates ea.(Swinging)	\$350.00	\$475.00	\$590.00	
Motor Operated Add	30%	30%	30%	
Vinyl Cover Add	10%	10%	10%	
Barbed Guard per LF	\$1.95	\$1.95	\$1.95	
Sliding Add	25%	25%	25%	
Cedar				
Picket	\$16.20	\$22.80		
Split Rail	\$8.90			
Stockade		\$19.95		
Redwood				
Picket	\$16.59	\$22.98		
Basket Weave	\$23.60	\$26.98		
Solid Board	\$16.75	\$18.55		
Add for Gates per SF	\$12.50	\$14.75		
Vinyl Fences	\$32.50	\$35.50		
Vinyl Gates	\$22.50	\$22.50		

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65 Signs

The cost estimate for a particular sign installation combines the cost of the display sign itself and the costs of the support columns or wall installation.

Туре	Per SF Sign
Painted Metal	
Single Face	\$52.90
Double Face (use SF of one side)	\$68.00
Porcelainized (Add per SFSA)	\$11.25
w/Neon Tubing (add per Face)	40%
Plastic - Illuminated	
Single Face	\$115.00
Double Face (use SF of one side)	\$165.00
Wall Brackets	Per SF Sign
Costs of Brackets in place per SF Sign Surface,	
projected from wall	\$7.75
Sign Poles	

Sign Poles

Costs include concrete base. Estimate column height from ground to bottom of sign for horizontal signs and overall height for vertical signs.

Base Dia.	Per LF	Base Dia.	Per LF
4"	\$72.00	10"	\$144.00
6"	\$84.00	12"	\$188.00
8"	\$110.00	14"	\$220.00
	Billboar	d Signs	
Single face w/wood	d poles (SFSA)		\$33.00
Art, Display & Picto	orial (SFSA)		\$5.50
Steel Poles (SFSA)		\$9.25
Wood Platform (LF	=)		\$32.50
Steel Platform (LF))		\$63.00
Additional Back-to-	-Back Sign Panel		Add 50%
Illumination (Base	cost per Site)		\$1,200.00
Add for Lighting			
Incandescent	\$320.00		
Quartz	\$525.00		
Mercury Vapor	\$1,350.00		
Sodium			\$1,900.00

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66 Parking Lot Accessories	
Barrier Gate: Programmable	\$7,200
Card Reader	\$3,350
Cashier Booth Average	\$22,500
Fee Computer	\$12,500
Ticket Splitter w/time & date	\$12,000
Magnetic Stripe Encoding	\$21,000
Vehicle Detector	\$660
Guide Rails (per LF)	
Corrugated Steel	\$32.00
Timber	\$33.50
Cable	\$13.50
Paint Striping (per LF)	\$0.45

67 Canopies (Free Standing)							
Service station / convenience store type							
Steel with illuminated	Steel with illuminated plastic signs on sides						
Туре	Less than 500 SF	500-1,000 SF	Over 1,000 SF				
Painted steel	\$46.38	\$43.80	\$36.12				
Porcelain & steel	\$49.32	\$46.02	\$42.96				

Flagpoles (Includes Concrete Base)								
Height								
Туре	20' 25' 30' 35' 50'							
Aluminum	\$2,244	\$2,540	\$2,790	\$3,420	\$6,050			
Steel	\$2,470	\$2,800	\$3,070	\$3,760	\$6,650			
Fiberglass	\$2,230	\$2,520	\$2,750	\$3,300	\$8,100			
Wood \$2,500 \$2,800								
For Bronze or	SS poles, Ad	d 125% to St	eel Prices					

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69 Septic Tanks (Not Including Piping)								
Gallons Cap.	Gallons Cap. Precast Concrete Fiberglass Polyethylen							
750	\$1,010	\$2,700	\$1,460					
1,000	\$1,350	\$2,810	\$1,600					
1,250	\$1,675	\$2,870	\$2,560					
1,500	\$1,975	\$3,110	\$2,860					
2,000	\$2,825							
4,000	\$8,750							
6,000	\$13,075							
10,000	\$19,085							
Leaching Lines - Tile (Per LF)\$13.40								
Plastic Pipe (Per	LF)		\$8.08					

70 Sewage Pumping Stati (Not Including External P				
Costs are for prefabricated steel, concrete, or fiberglass plants with 200 and 1,000 gallon per minute capacities.				
200 GPM	\$82,000			
1,000 GPM	\$152,000			
Add for generator Unit				
200 GPM Concrete	\$33,500			
Steel	\$52,000			
1,000 GPM Concrete	\$46,500			
Steel	\$57,000			

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71 Sewage Treatment Plants (Not Including Underground Piping)							
Туре	Cost per Gallon						
Steel - Blown Air Aeration Plant	1,000	\$320.00					
	5,000	\$240.00					
	15,000	\$137.50					
	50,000	\$57.50					
	100,000	\$37.50					
	200,000	\$35.00					
	500,000	\$26.50					
Concrete - Extended Primary and	10,000	\$107.50					
Secondary Treatment	50,000	\$52.50					
	100,000	\$34.00					
	500,000	\$24.00					

72 Elevated Tanks							
Costs include ta	nk, tower, riser pip	e, ladders, balcon	ıy, etc.				
		Steel Tanks					
Capacity		Tower	Height				
(Gallons)	50'	75'	100'	150'			
50,000	\$375,000	\$414,000	\$475,000	\$614,000			
75,000	\$448,000	\$496,000	\$556,000	\$690,000			
100,000	\$485,000	\$530,000	\$594,000	\$732,000			
200,000	\$800,000	\$865,000	\$930,000	\$1,060,000			
300,000	\$998,000	\$1,088,000	\$1,156,000	\$1,286,000			
400,000	\$1,170,000	\$1,277,000	\$1,337,000	\$1,482,000			
500,000	\$1,310,000	\$1,420,000	\$1,532,000	\$1,690,000			
		Wood Tanks					
Capacity		Tower	Height				
(Gallons)	25 ' 50 ' 75 ' 1						
30,000	\$74,000	\$88,500					
50,000	\$97,700	\$114,000	\$137,000	\$177,000			
75,000		\$140,000		\$220,000			

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73 Underground Pipe (per LF) Including Trenching and Back Filling

Costs include pipe and fittings installed up to the building.

Water.	Gas	&	Stear	n

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Pipe Diameter	Asbestos Cement	Ductile Iron	Concrete	Plastic	Steel	Valves, Each
4"	\$34.00	\$36.00		\$19.50	\$39.50	\$905.00
6"	\$44.00	\$45.00		\$23.50	\$49.50	\$1,895.00
8"	\$54.00	\$62.00		\$35.00	\$64.00	\$3,300.00
12"	\$103.00	\$86.00		\$62.00	\$112.00	\$6,950.00
16"	\$146.00	\$126.00	\$56.00		\$140.00	\$9,200.00
24"	\$255.00	\$180.00	\$95.00		\$218.00	\$26,000.00
36"	\$442.00	\$262.00	\$190.00		\$390.00	\$55,000.00
48"		\$366.00	\$288.00		\$560.00	\$94,000.00
60"			\$402.00			
72"			\$550.00			

Drain & Sewer

Pipe Diameter	Asbestos Cement	Corrugat- ed Metal	Plastic	Concrete- Plain	Rein- forced	Vitrified Clay		
4"			\$7.50			\$15.90		
6"	\$17.20	\$18.90	\$10.80	\$18.80		\$22.20		
8"	\$19.80	\$25.50	\$16.60	\$24.20		\$29.50		
12"	\$40.50	\$44.00	\$29.25	\$34.80	\$36.80	\$57.00		
16"	\$54.00	\$51.00	\$43.00	\$37.50	\$40.50	\$77.50		
24"	\$93.00	\$83.00			\$85.00	\$154.00		
36"	\$160.00	\$148.00			\$153.00	\$247.00		
48"		\$202.00			\$218.00			
60"		\$246.00			\$358.00			
72"		\$384.00			\$430.00			
Vard Eiro L	Vard Fire Hydrants \$4 840 Catch Racins \$4 855 each							

Yard Fire Hydrants -- \$4,840 Catch Basins -- \$4,855 each

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74 Stacks (Brick and Concrete)

Costs include foundation. For square or rectangular stacks, use 1/3 the perimeter, in place of diameter.

Base Diameter	Brick per VLF	Concrete per VLF	Base Diameter	Brick per VLF	Concrete per VLF
6'	\$930	\$790	16'	\$2,060	\$1,780
8'	\$1,200	\$990	20'	\$2,450	\$2,200
10'	\$1,450	\$1,200	24'	\$2,900	\$2,600
12'	\$1,700	\$1,400	28'	\$3,280	\$2,900
14'	\$1,900	\$1,640	32'	\$3,750	\$3,350

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