

June 2019

Publication 127

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

January 2019

Publication 127

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	Cubic Foot Component-in-Place	
FPM	Floors per Minute	
GPD	Gallons per Day	
GPM LB	Gallons per Minute Load Bearing	
LF	Linear Foot	
oc	On-center	
SFCA	Square Foot Ceiling Area	
SFDA SFFA	Square Foot Door Area Square Foot Floor or Square Foot Frame Area	
SFGA	Square Foot Ground Area	
SFRA	Square Foot Roof Area	
SFSA SFWA	Square Foot Surface Area	
VLF	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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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	
Strip footings only 12" deep-without foundation walls			
Width	Per LF Reinfo	rced	
24"	\$36.61		
32"	\$48.69		
40"	\$61.14		
48"	48" \$73.23		
* Prices based on 4' wall height (includes asphalt damp proofing)			

3 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

4	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:	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 pilings					\$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		

6 Roof Constrution					
Structures and Decks					
Structure	Deck			Per SFRA	
Wood	Wood				\$3.40
Structure	Corrugated or Ril	bbed Metal			\$5.66
	Wood				\$4.73
	Corrugated or Ril	\$6.91			
0	Steel Cellular				\$14.25
Steel Structure	Gypsum Plank				\$8.95
Siluciule	Formed Concrete	9			\$18.40
	Pre-cast Concret	е			\$15.80
	Poured Concrete	or Gypsum	on S	Steel Deck	\$13.41
Concrete	Formed Concrete	9			\$12.70
Structure	Pre-cast Concret	e Joist & Deo	ck		\$15.10
For monitor	r or sawtooth roof	add 40% to a	abo	ve costs	
	Trusses (cost each truss)				
Span	Steel		Wood		od
Span	Light*	Heavy*		Light*	Heavy*
20'				\$610	\$820
30'	\$3,160	\$4,82	20		
40'	\$4,220	\$6,42	20	\$1,510	\$3,010
60'	\$6,330	\$9,64	40	\$3,380	\$4,510
80'	\$8,440	\$12,85	50	\$4,510	\$6,010
100'	\$10,550	\$16,06	60	\$7,530	\$10,040
120'	\$12,660	\$19,27	70	\$9,040	\$12,050
140'		\$22,48	30	\$10,540	\$14,060
160'		\$25,70	00		
*Light truss	ses are those carry	ying roof load	ls o	nly.	
The above a lighter inc	ses are those carr trusses are for he dustrial or commer n use the table be	avy industrial rcial use build	l us	e buildings. Wh	nen computing
	Wood			Per SF	FA
	Light Duty				\$4.26
	Heavy Duty				\$6.28

7 Roof Cover				
Туре	Per SF	Туре	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

9

Exterior Wall Coverings

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.

	Framing	Per SFWA	Framing	Per SFWA	
Wood Studs		1	Masonry Veneer	'S	
2 x 4	12" oc	\$2.60	Face Brick Common	\$15.64	
	16"	\$2.20	Used Brick	\$15.00	
	24"	\$1.55	Cast Stone, Ornamental	\$28.35	
2 x 6	12" oc	\$3.92	Ashlar Stone	\$30.50	
	16"	\$2.97	Granite	\$41.25	
	24"	\$2.42	Limestone	\$45.25	
4 x 4	24" oc	\$3.93	Marble	\$63.38	
	36"	\$2.97	Slate	\$40.80	
	48"	\$2.62	Stucco		
	Steel Studs	1	On Wire Mesh	\$6.49	
2 x 4	16" oc	\$2.44	On Metal Lath	\$7.24	
2 x 6	16" oc	\$2.96	On Masonry	\$5.75	
	Sheathing		Wood		
OSB Con	nposition	\$1.08	Shakes, Shingles	\$6.99	
Fiberboar	rd	\$1.50	Plywood Panels	\$3.06	
Gypsum I	Board	\$0.94	Board and Batten	\$3.44	
Plywood		\$1.79	Concrete Block	C	
Wood Bo	ards	\$3.49	Screen \$		
	Insulation		Split-face	\$10.54	
Aluminum	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	l in Stud Walls	\$1.24	Glass Block	\$45.63	
	Exterior Facing		Additions for Furr	ing	
Aluminum	n Siding, Corrugated	\$5.46	Wood	\$1.41	
Enameleo	b	\$6.05	Masonry	\$1.69	
Transite \$5.45		Paint			
Metal Sar	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 Enan	neled Steel	\$4.88			
Hardboar	d, Masonite	\$3.96			

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.

Masonry Walls (Loa	d-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 Steel	Framed Load-be	earing Walls
Wall Cost include	es Studs	Per SFWA
Aluminum Siding		\$8.47
Wood Shingles		\$10.00
Wood Siding		\$8.57
Cement Fiber Asbestos Sidir	ng	\$7.74
Brick Veneer		\$18.65
Stone Veneer		\$37.00
Stucco		\$10.25
Add for Sheathing		\$1.08
Add for Insulation		\$1.06

11 Curtain (non-bearing) Walls		
Curtain walls (or panel walls) are exterior walls building but do not support upper floors or roof price given is for the curtain wall only and includ structural framing that should be priced from the framing schedule.	construction. The des no costs for	
Type Per SFWA		

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 Insulatio	n	\$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

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
Aluminun	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

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 bulkhead areas; including entrance way, islands, etc.	f all glass, sign, and
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

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		
Construct	tion Type	Per SFWA
Wood Stud Wall Fr	ame	
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 Fra	ame	
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

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	\$22.00	
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

20 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

* 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.

01	Dre Febricated Chan Offices
21	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

22 Exterior Stand-Alone Island Booths or Offices

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

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	

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		
	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

26

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	

30	r Finish		
Туре	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	94 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	10 Computer Floor, Raised	
Rubber Tile or Sheet	\$17.50	0 Metal on Plywood \$14.	
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

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				
	5	system costs according to floor area of electric		
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	

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 F	ixtures		
Residential Type 1 \$930	Commercial Type 2 \$1,500	Industrial Type 3 \$2,000	Specialty Type 4 See Below	
Specialty	Fixtures	Ead	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 Sinks, 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	Sinks	36"	54"	
Polished Cement		\$2,730	\$3,290	
Terrazzo		\$2,900	\$3,500	
Enameled Steel		\$3,150	\$3,800	
Stainless Steel		\$3,250 \$4,1		
Column Showers		Enameled Steel	Stainless Steel	
Circular (per Shower head)		\$500	\$750	
Semi-Circular (Per Shower)		\$700	\$950	
Single Stall Shower				
w/Receptor & Curta	w/Receptor & Curtain Hanger		\$800	
w/Receptor & Hinge	w/Receptor & Hinged Door		\$1,000	
Note: Above prices c	Note: Above prices do not include partitions.			

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				
I	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	6		
1 kw: \$550	3 kw: \$85	0	5 kw: \$	1,000
	Vent	ilators		
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	\$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 ventilators.				

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, Bolted to Building		
w/Cage		\$180
w/o Cage		\$100

35 Fire Protection Equipment				
		Each		
Metal Hose House		\$800		
Hose House Equipr	nent			
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	l Panel	\$4,800		
Fire Pumps				
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 fl pits, lighting, water of				
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 Undergroun	d Pipe from Schedu	ıle 69		

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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			
	a standa atauna ana ana analal	efficiency and the standard			

*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.

37 Underground Fuel Storage Tanks								
Gallons Capacity	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	6,000 \$27,300 \$28							
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 \$99,0								
Price includes excavation, setting in place, and all backfill. Price is for single wall; add 50% for double wall.								

38 Gas Pumps and Dispensers (Electronic)				
Type Item Cost				
Single hose, 1 product \$12,5				
Single hose, 2 products	\$18,760			
Single hose, 3 products	\$23,340			
Add for double-sided operation \$6,27				

39 Escalators (Cost per Flight)					
	ry Height Stair Width 32" 48"				
Story Height					
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.				

41 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 G	ates	125%		
Stainless St	eel Gates	150%		
Bronze Gate	es	250%		
Door Seals	Vinyl Covered (Per LF)	\$73.38		
Expanded T	\$2,000.00			
Rubber Dock Bumpers				
12" high X	\$146.00			
24" long (each)		\$165.00		
	36" long (each)	\$244.00		

42 R	etaining Walls		
Prices are for exposed face area and includes concrete footing 3' below grade.			
Type Per LF			
Concrete Block	6' high	\$210.61	
	\$234.86		
10' \$259.1			
Reinforced Block	6' high	\$263.26	
	8'	\$293.58	
	10'	\$323.89	

43 Loading Ramps and Wells				
Type 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	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	Dock Canopies			
	Туре	Per SF		
Simple Wood	or Steel without Lighting	\$14.50		
Good Structure	e with Lighting, Soffit	\$26.50		

46 Loading Docks							
	Concrete: Includes Concrete Foundation, Floor, Retaining Walls, Bumpers and Steps						
	ncrete Foun	•		ig walls, Bu ere length i	•	Steps	
Dock Width	101					0001	
	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 Blo	For Concrete Block WallsDeduct 6.5%						
Wood:							
Includes Concrete Piers, Wood Posts & Girder Framework, Bumpers and Steps							
Light Construction - 2" Plank or 2" JoistsDeduct 25%							
Heavy Construction - 4" Plank or 4" JoistsAdd 50%							

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	Type 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				
	D	oors (Per SF	DA)						
Costs are for manual	ly operated, hi	nged, galvani	zed doors.						
SFDA		2"	4"	6"	8"				
Up to 15 S	\$F	\$159.31	\$170.53	\$182.24	\$194.31				
16-25 \$136.38 \$148.69 \$161.72 \$17				\$176.21					
26-40		\$114.66	\$127.33	\$142.41	\$159.31				
Over 40		\$96.55	\$108.62	\$124.31	\$141.21				
Fo	r other doors	, use the foll	owing adjus	tments					
Stainless Steel					Add 12%				
Wood Clad	Wood Clad Deduct 15% per Sid								
Sliding Doors	- Single				Add 10%				
		Add 40%							
Add for Electric Operators by Door Type									
Hinged	- Single		\$3,200 Each		\$3,200 Each				
	- Double \$4,500 Ea			\$4,500 Each					
Sliding	- Single			\$5,500 Each					
- Double \$6,500 Eac					\$6,500 Each				

Cold Storage Refrigeration

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47, cont. Cold Storage Refrigeration, Doors, continued			
	Walk-in Bo	xes-Prefab	
Cost includes complete galvanized unit 7'6" high, including doors, floors and refrigera- tion 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.		
Stainless Steel Shelving\$4		

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

50 Freight Elevators				
Costs includ	Costs include complete installation as above. Deduct 10% for manual controls.			
Speed	Consoity	Cost por Elevator	Add for E	ach Stop
Speed	Capacity	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 inclu	uding rails, ties, and balla	ast.	
Rail Weight (in Ibs.)			
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
Add for each Sliding Bumper\$4,475.00 Add per Pair of Wheel Stops\$1,050.00			

52 Railroa	ad 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 platforn	n, 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		
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-Suppo	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

57 Traveling Overhead Cranes						
Bridge Chen		Capacity				
Bridge Span	10 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			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 = $53,280 craneway cost.$					

59	Industrial Monorail Cranes					
	Capacity (Tons)					
2	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.				

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 Popo Hoists				

Chain or Rope Hoists				
Electric		Manual		
Capacity (lbs.)	Cost	Capacity (lbs.) Cos		
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				
l Be	ams	H Beams		
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	

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 SFGA	
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			
Siehs	Tread	Add for Exposed Aggregate	\$1.30	
	4	Prepared Base		
Concrete	\$36.84	(for Above Walks)		
Brick	\$63.58	4"	\$0.79	
Railroad Ties	\$44.50	6"	\$1.56	

63 Yard Lighting				
Type and Height	1 Arm	2 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
	1,500		\$680	
Metal Halide		175		\$1,000
		40	00	\$1,400
		1,C	000	\$1,950
Mercury-Vapor		400		\$850
		1,0	000	\$1,170
Sodium		400		\$990
		1,0	000	\$1,400

64 Fencing					
Turne	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			

65	Sig	Ins		
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	e SF of one side)		\$68.00	
Porcelainized (Ad	dd per SFSA)		\$11.25	
w/Neon Tubing (a	add per Face)		40%	
Plastic - Illuminate	d			
Single Face			\$115.00	
Double Face (use	e SF of one side)		\$165.00	
	Wall Brackets		Per SF Sign	
Costs of Brackets i projected from wal	n place per SF Sign	Surface,	\$7.75	
	Sign F	Poles	1	
	rete base. Estimate al signs and overall	•	•	
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	
	Billboard	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-	Add 50%			
Illumination (Base	\$1,200.00			
Add for Lighting				
Incandescent	\$320.00			
Quartz	\$525.00			
Mercury Vapor	\$1,350.00			
Sodium			\$1,900.00	

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 / con	Service station / convenience store type					
Steel with illuminated	d plastic signs on side	S				
Type 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			

68 Flagpoles (Includes Concrete Base)								
Turne	Height							
Туре	20'	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	For Bronze or SS poles, Add 125% to Steel Prices							

69 Septic Tanks (Not Including Piping)							
Gallons Cap.	Gallons Cap. Precast Concrete Fiberglass Polyethyler						
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 Stations (Not Including External Piping)					
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 \$152,0					
Add for generator Unit					
200 GPM Concrete	\$33,500				
Steel	\$52,000				
1,000 GPM Concrete	\$46,500				
Steel	\$57,000				

71 Sewage Treatment Plants (Not Including Underground Piping)					
Туре	GPD	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'	100'	
30,000	\$74,000	\$88,500			
50,000	\$97,700	\$114,000	\$137,000	\$177,000	
75,000		\$140,000		\$220,000	

73	73 Underground Pipe (per LF) Including Trenching and Back Filling						
Costs inclu	Costs include pipe and fittings installed up to the building.						
		Wat	ter, Gas & S	team			
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 & Sew	/er			
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		
Yard Fire H	lydrants \$4	,840 Catc	h Basins \$	64,855 each			

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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