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INTERIORS SQUARE FOOT COSTBOOK 2025 EDITION

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Interiors Square Foot Costbook 2025

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Table of Contents

Introduction **5**

Square Foot Case Studies **7**

PART TWO - Unit-In-Place Costs **139**

PART THREE - Square Foot Tables **291**

PART FOUR - Metro Area Multipliers **303**

Index **323**

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Interiors Building Costs

The interior make up of a project can dramatically impact the overall cost. Interiors cover a wide range of disciplines: from carpentry to millwork … drywall to flooring … specialties to furnishings … and more.

In this completely up-to-date estimating guide, we have teamed up with *Design Cost Data*™ (DCD) to provide you with a reliable and easy-to-use way to evaluate the cost impact of modifications to interior plans for just about any type of building construction.

The *Interiors Square Foot Costbook* covers new construction, additions, renovations, adaptive re-use and tenant build-outs, with all costs precisely escalated to this year. It features 65 "real life" cost studies, with each project clearly broken down by all of its interior components and presented on a cost-per-square-foot basis. It itemizes the materials used along with their cost to assist in developing a conceptual estimate for interior construction.

In addition to the cost studies, you get comprehensive Unit-In-Place Costs for thousands of materials and components. These costs, coupled with the case studies, give you a complete cost reference for interior systems.

All projects appearing in this book have been previously published in DCD Magazine and can be found in the *DCD Archives*™ at www.dcdarchives.com. Subscribers of DCD have unlimited access to this cost database and cost indexes for modeling.

Contractors of all types, architects, estimators and other construction professionals will find the information in this resource to be highly useful in determining the cost of interior construction — an important and highly variable portion of a project's total cost.

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Part One

Interiors Square Foot Costs

Every case study is described in a short summary. These summaries are given to provide insight into the circumstances and requirements behind the design. A building's function often influences the choice of mechanical and electrical systems and thus the cost. Local factors are taken into consideration. Budget constraints, material availability and personal expertise of an individual contractor all affect a project's outcome. Wherever appropriate, these types of issues are explained in the descriptions that accompany each case study.

Building Case Studies Included In This Edition

#	Description	Special Notes	Page
1	Commercial	Parking Garage	8
2	Commercial	Bank	10
3	Commercial	Operations Facility	12
4	Commercial	Bank	14
5	Commercial	Bank	16
6	Commercial	Office Building, Adaptive Reuse	18
7	Commercial	Parking Garage	20
8	Commercial	Warehouse / Office	22
9	Commercial	Airport Restroom	24
10	Commercial	Restaurant / Addition	26
11	Commercial	Hotel Renovation	28
12	Commercial	Restaurant	30
13	Civic	Nature Center	32
14	Civic	Fire Station	34
15	Civic	Public Library	36
16	Civic	Animal Care	38
17	Civic	Community Center	40
18	Civic	Library	42
19	Civic	Police Headquarters	44
20	Civic	Museum	46
21	Civic	Transportation Maint. Center	48
22	Civic	Family Administration	50
23	Civic	Family Dormitory	52
24	Civic	Meeting Center	54
25	Educational	Campus Center	56
26	Educational	Elementary School	58
27	Educational	High School	60
28	Educational	Student Union	62
29	Educational	Elementary School	64
30	Educational	Creative Arts Studio	66
31	Educational	Student Housing	68
32	Educational	Dining Commons	70
33	Educational	High School Addition	72
34	Educational	College Learning Center	74
35	Educational	High School Academy	76
36	Educational	Technical Training Center	78
37	Educational	College Student Center.	80
38	Industrial	Distribution Center	82
39	Industrial	Administration Building	84
40	Industrial	Fleet Maint. Building	86
41	Medical	Emergency Room	88
42	Medical	Medical Facility	90
43	Medical	Hospital Expansion	92
44	Medical	Medical Office	94
45	Medical	Podiatry Clinic	96
46	Medical	Health Center	98
47	Medical	Medical Center	100
48	Medical	Health Center	102
49	Medical	Pediatrics Clinic	104
50	Medical	Dental Office	106
51	Medical	Hospital	108
52	Medical	Orthopedic Center	110
53	Office	Office Tenant Finish	112
54	Recreational	YMCA	114
55	Recreational	Nature Center	116
56	Recreational	YMCA & Aquatic Center	118
57	Recreational	Aquarium	120
58	Recreational	Golf Center	122
59	Residential	Condominiums	124
60	Residential	Lofts	126
61	Residential	Apartments	128
62	Residential	Senior Housing	130
63	Residential	Townhomes	132
64	Residential	Independent Living	134
65	Residential	Custom House	136

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FILE 1

The City of Meridian requested a parking garage to be constructed on a block in the center of the historic downtown, to serve commercial tenants and visitors to the newly developed Arts District. As a part of the project, marketing and feasibility studies determined the number of parking spaces needed. An important design goal was to make the garage fit in with and strengthen the historical appearance of the Arts District, while encouraging and supporting pedestrian traffic. The completed garage was intended to replace blighted buildings on the site and be a prominent and encouraging sign of the successful development of the Arts District.

The site, a downtown block bounded by 23rd and 24th Avenues and 7th and 8th Streets, is shared by the new garage and existing BellSouth operations buildings. Demolition of four commercial structures on the garage site included extensive excavation to remove subsurface foundations, utilities and hazardous waste. The tight urban site presented challenges for the demolition and construction, including maintaining traffic, controlling dust and dirt, limiting access to the site, and maintaining access to the BellSouth facility for its ongoing operations.

The design of the garage incorporates a reinforced concrete frame on auger-cast pilings, with post-tensioned concrete decks laid out in a single helix with 2-way traffic. The three public facades are a combination of two patterns of brick, cast stone and precast concrete in a honed limestone appearance. These major elements are organized into vertically-oriented bays, to emulate the rhythms and appearance of traditional individual building fronts with pilaster, arch, sill and cornice details.

Two elevators and a stair serve the facility on the southeast corner, and a stair and future elevator are located opposite, on the northwest corner. The ground floor includes 5,900 square feet of future retail space, complete with sidewalk awnings, three entrances, and glass, cast stone and brick storefronts. The parking deck above the retail space has been integrally waterproofed with a concrete additive. The main pedestrian entry is adjacent to the retail, defined with the elevator/stair tower and a landscaped plaza between the garage and the adjoining BellSouth building. All three street facades feature tree wells and planters, brick and concrete sidewalks, custom-designed banners and accent lighting on the building face, to reinforce the pedestrian-friendly atmosphere.

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Code	Division Name	%	S F Cost	Projected
06	**Wood, Plastics, and Composites**	**0.09**	**0.10**	**15,581**
	Carpentry	0.09	0.10	15,581
08	**Openings**	**1.70**	**1.87**	**297,853**
	Hollow Metals	0.38	0.42	66,500
	Finish Hardware	0.04	0.05	7,460
	Storefronts	1.28	1.42	223,894
09	**Finishes**	**3.09**	**3.42**	**540,671**
	Gypsum Board Assemblies	0.07	0.06	11,658
	Acoustical Ceilings	0.01	0.01	2,520
	Concrete Sealed Floors	0.01	0.01	1,367
	Troweled Seamless Floors	0.01	0.01	1,811
	Painting	2.99	3.33	523,315
	Parking Striping	0.09	0.10	15,136
10	**Specialties**	**0.98**	**1.08**	**170,755**
	Louvers	0.05	0.05	8,159
	Plaque	0.01	0.01	1,998
	Decorative Banners	0.17	0.18	30,143
	Signage	0.32	0.35	56,312
	Fire Extinguishers	0.04	0.03	6,129
	Aluminum Canopies	0.11	0.12	19,572
	Awnings	0.26	0.28	44,681
	Toilet Accessories	0.01	0.01	1,606
11	**Equipment**	**2.82**	**3.11**	**493,827**
	Parking	2.82	3.11	493,827
14	**Conveying Systems**	**3.18**	**3.52**	**557,036**
	Engineering & Production	0.35	0.38	61,084
	Jack Holes	0.32	0.35	55,392
	Hydraulic Jack	0.27	0.29	46,726
	Car Sling & Platform	0.22	0.26	38,829
	Hoistway Accessories	0.30	0.33	52,769
	Power Unit	0.43	0.46	74,815
	Controller	0.47	0.52	81,859
	Entrances	0.26	0.28	45,604
	Cab	0.19	0.19	32,896
	Door Operator	0.05	0.05	8,865
	Adjusting	0.06	0.06	10,184
	Change Order	0.27	0.29	48,017
21	**Fire Suppression**	**0.32**	**0.35**	**55,333**
22	**Plumbing**	**1.44**	**1.59**	**252,654**
23	**HVAC**	**0.49**	**0.54**	**85,624**
26	**Electrical**	**5.22**	**5.79**	**913,377**
27	**Communications**	**0.85**	**0.95**	**149,316**
	Total Interior Costs	**20.18**	**22.30**	**3,532,027**
	Total Building Costs	**100.00**	**110.66**	**17,490,886**

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FILE 2

Woodlawn Office Building, a brick and stone office building, is three stories with a full basement and located in the Saint Matthews neighborhood of Louisville, Kentucky. Because the building is located in the heart of a residential neighborhood, the facility needed to have a residential character. This was achieved by using warm red brick and cream-colored masonry, a pitched roof with a 7-foot-deep overhang, and the extensive use of glass. The first and second floors have 9-foot-high windows on all four sides, while the entire third floor exterior wall is full glass, allowing for an abundance of natural lighting inside the building.

The ground floor is accessible from both sides of the building in order to facilitate easy access from the parking area. The parking area is divided into two lots in order to minimize the impact of parking on the building and to reduce the travel distance across lots.

Site planning included the berming of certain areas along major roadways to minimize the effect of the building height on the adjoining residential neighborhood. Planning considerations also included limiting the number of exits and entries to the current number serving the retail and banking facility.

The basement consists of a conference room, workout room, restrooms, vending area, mechanical rooms, and 10,300 square feet of storage area. The north side of the building has an excavated courtyard connected to the basement conference room, allowing access to outdoor seating. Colorful landscaping was added to enhance the aesthetic appeal and to continue the residential theme.

There are entrances on the east and west sides of the building leading to the first floor tenant spaces and the elevator lobby. The lobby consists of two 10-foot-high curved masonry walls, floor-to-ceiling glass entrances to the tenant spaces, and polished porcelain tile floors. The first floor includes two elevators, restrooms, mailrooms, and 11,525 square feet of tenant space. The second and third floors have a similar configuration with 12,725 and 13,065 square feet of tenant space, respectively.

The building construction consists of a concrete foundation with metal stud, bar joists, and braced frame structural steel. The exterior facade consists of cast stone masonry units and brick, as well as a significant amount of storefront windows. The roof is a silver metal standing seam roof. The interior lobby of the building also utilizes the cast stone masonry units, joined with 1-inch embedded stainless steel strips in place of masonry. The building features state-of-the-art mechanical, electrical, and communication systems.

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Code	Division Name	%	SF Cost	Projected
06	**Wood, Plastics, and Composites**	**40.10**	**52.94**	**794,007**
	Finish Carpentry	17.42	22.99	344,891
	Rough Carpentry	22.68	29.94	449,115
07	**Thermal and Moisture Protection**	**1.21**	**1.60**	**24,029**
	Insulation	1.21	1.60	24,029
08	**Openings**	**2.41**	**3.17**	**47,649**
	Glass	0.38	0.50	7,437
	Hollow Metal Hardware	2.03	2.66	40,214
09	**Finishes**	**14.21**	**18.76**	**281,300**
	Acoustical	3.66	4.84	72,476
	Floor	2.22	2.93	44,050
	Miscellaneous	8.32	11.00	164,773
10	**Specialties**	**0.71**	**0.93**	**14,036**
	Fireplaces & Stoves	0.71	0.93	14,036
11	**Equipment**	**0.75**	**1.00**	**14,904**
	Audio-Visual	0.11	0.15	2,239
	Unit Kitchens	0.64	0.84	12,668
12	**Furnishings**	**6.03**	**7.95**	**119,382**
	Manufactured Casework	4.93	6.50	97,527
	Window Treatment	1.10	1.45	21,855
21	**Fire Suppression**	**2.53**	**3.34**	**50,188**
22	**Plumbing**	**1.44**	**1.91**	**28,540**
23	**HVAC**	**12.26**	**16.19**	**242,720**
26	**Electrical**	**11.29**	**14.90**	**223,475**
	Total Interior Costs	**65.42**	**86.36**	**1,295,309**
	Total Building Costs	**100.00**	**131.99**	**1,979,954**

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FILE 3

The Central Contra Costa Sanitary District currently serves a 146-mile area of Contra Costa County, in Northern California. Centrally located within the District is the Collection System Operations (CSO) Department, responsible for the cleaning, maintenance, and repair of the District's 1,500 miles of underground pipeline.

A new CSO Facility was designed to accommodate present and future operations and technology needs, improved site circulation, training facilities, site storage, and a secondary Emergency Operations Center (EOC) for the District.

The new CSO Facility consolidates the crews, administration, and warehousing in a single, two-story building. Due to the topography of the site, the yard is divided into lower, middle, and upper yards; the new CSO Facility is nestled into the hillside separating the lower and middle yards. A central second floor crew room, which also serves as training rooms and EOC, with adjoining kitchen, provides a gathering place for the crews to plan and collaborate on their daily work schedules, and opens onto the middle yard. Adjacent to the crew room are separate workrooms for the construction and cleaning crews, and the technical services support areas. Mud rooms, locker rooms, and showers are provided for the crews returning at the end of the day. Administration offices and the warehouse are located on the first floor, and open onto the lower yard. Public entry is situated mid-level between the two floors, due to the topography.

The CSO Facility utilizes a concrete slab with drilled pier-and-pad foundations, a 20-foot-high tie-back retaining wall to retain the hillside, and structural steel framing with concrete and metal decks. Concrete wall panels envelope the warehouse area. Roofing is reflective SBS membrane roofing, with metal sunshades. The metal exterior cladding with the curtain wall and concrete invoke the clean lines of the building.

The CSO Facility is LEED-registered, and is pursuing LEED-Gold. Environment and Energy Planning includes high-efficient HVAC equipment, hydronic floor heating and low-velocity fan, low-flow plumbing fixtures, site stormwater filtration through pervious pavement, bio-swales, and a roof garden. Windows are abundant throughout, with exterior sunshades and an automated interior shading system, to provide views and daylighting, and are complemented by energy-efficient light fixtures, with motion sensors. Polished concrete floors and recycled countertops are used throughout the facility, and low-emitting materials on all interior finishes.

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Code	Division Name	%	S F Cost	Projected
06	**Wood, Plastics, and Composites**	**2.08**	**9.15**	**248,554**
	Finish Carpentry	0.55	2.43	65,842
	Casework 1st Install	1.53	6.72	182,712
07	**Thermal and Moisture Protection**	**6.44**	**28.34**	**770,350**
	Dampproofing & Waterproofing	0.69	3.05	82,303
	Waterproofing Site Wall	0.80	3.51	95,470
	Insulation	0.62	2.73	74,071
	Fireproofing	0.14	0.61	16,462
	Roofing & Siding	4.20	18.47	502,045
08	**Openings**	**6.98**	**30.71**	**834,547**
	Doors	2.34	10.30	279,828
	Overhead Door	0.14	0.61	16,462
	Storefront Install	2.20	9.69	263,368
	Glazing	1.24	5.45	148,145
	Folding Partition	2.00	8.79	238,676
09	**Finishes**	**10.39**	**45.72**	**1,242,767**
	Metal Framing & Drywall	5.95	26.16	711,094
	Tile	1.51	6.67	181,065
	T Bar Install	0.89	3.94	106,993
	Flooring Install	0.62	2.73	74,071
	Paint	1.42	6.23	169,544
10	**Specialties**	**1.95**	**8.60**	**233,740**
	Visual Display Board	0.08	0.36	9,876
	Toilet Partitions & Accessories	0.48	2.11	57,613
	Sign Install	0.28	1.22	32,920
	Locker Install	0.55	2.43	65,842
	Projection Screen Install	0.14	0.61	16,462
	Shelving	0.26	1.15	31,276
	Foot Grilles	0.17	0.72	19,752
11	**Equipment**	**0.62**	**2.73**	**74,071**
	Kitchen	0.41	1.83	49,382
	Video Mounts	0.21	0.90	24,690
12	**Furnishings**	**1.31**	**5.75**	**156,375**
	Window Coverings	1.31	5.75	156,375
14	**Conveying Systems**	**1.58**	**6.96**	**189,295**
21	**Fire Suppression**	**1.40**	**6.18**	**167,896**
22	**Plumbing**	**3.44**	**15.14**	**411,512**
23	**HVAC**	**13.76**	**60.56**	**1,646,048**
26	**Electrical**	**11.42**	**50.27**	**1,366,220**
28	**Electronic Safety and Security**	**1.51**	**6.67**	**181,065**
	Total Interior Costs	**29.77**	**130.98**	**3,560,404**
	Total Building Costs	**100.00**	**440.05**	**11,960,328**

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FILE 4

The 4,000-square-foot branch bank in Starkville, Mississippi, represents The Citizens Bank's first unit in the Golden Triangle area. The bank decided to make a strong statement about its commitment to sustainability with the project. Also, the notion of respecting the vernacular design traditions of the area strongly influenced the outcome of the project. The combination of sustainability within the context of a traditional design vocabulary offered interesting challenges to the design team, which rendered a unique solution to the bank's project program.

Traditional design features include solid masonry walls, historic detailing, and a clock tower that is similar to Starkville's historic Cotton Mill Tower. The Citizens Bank building has become a landmark in Starkville, Mississippi and has established a strong presence in the Golden Triangle community.

Sustainability features included:

- Super insulation
- High performance HVAC systems
- Day-lighting
- High output fluorescent lighting
- Ideal solar orientation
- Pervious paving

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Code	Division Name	%	S F Cost	Projected
06	**Wood, Plastics, and Composites**	**10.79**	**75.61**	**393,165**
	Framing & Exterior Trim	5.81	40.72	211,732
	Millwork	4.98	34.89	181,432
07	**Thermal and Moisture Protection**	**4.59**	**32.18**	**167,384**
	Insulation	1.57	10.98	57,066
	Prefinished Metal Roof	2.76	19.33	100,539
	Joint Sealers	0.27	1.88	9,778
08	**Openings**	**8.52**	**59.71**	**310,447**
	Skylights & Interior Glazing	4.57	32.05	166,588
	HM Frames & Doors	0.07	0.50	2,561
	Wood Doors	1.44	10.11	52,550
	Access Doors	0.04	0.29	1,544
	Exterior Windows	1.61	11.29	58,770
	Finish Hardware	0.78	5.47	28,430
09	**Finishes**	**9.54**	**66.83**	**347,514**
	Gypsum Systems	3.37	23.64	122,934
	Flooring	4.29	30.07	156,410
	Paint	1.87	13.11	68,170
10	**Specialties**	**1.32**	**9.25**	**48,114**
	Louvers	0.18	1.23	6,376
	Accessories	0.07	0.47	2,482
	Signage	0.29	2.02	10,482
	Clock	0.79	5.53	28,774
22	**Plumbing**	**1.38**	**9.68**	**50,290**
23	**HVAC**	**4.41**	**30.90**	**160,650**
26	**Electrical**	**7.01**	**49.13**	**255,430**
	Total Interior Costs	**34.76**	**243.58**	**1,266,623**
	Total Building Costs	**100.00**	**700.56**	**3,642,994**

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FILE 5

Arundel Federal Savings Bank commissioned Architectural Design Works, Inc. (ADW) to design their newly relocated headquarters. The Board decided to move operations to a more central location.

The new two story headquarters incorporates an “extreme makeover” to the existing branch bank, and a second floor addition constructed over additional parking accommodates the relocated headquarter's functions. The first floor branch features tray ceilings and colonial details, harkening back to their turn-of-the-century beginnings, integrated with a high-tech infrastructure. Five new teller stations, two drive-up tellers and a drive-up ATM were also added. The second floor of the headquarters features an officer wing, as well as teaming areas to encourage communication and synergies among departments. The exterior brick structure was refreshed with EIFS accents, new architectural-grade roof shingles with copper accents and a stately cupola. The new two-story entrance veranda welcomes customers and serves as a focal point along a busy highway. The “extreme makeover” was successfully executed while keeping the branch in operation.

The interior finishes were selected to represent the Bank’s historic colors of Federal blue and red. These branding colors are emphasized with painted accent walls, carpeting and specialized tiling, repeating the theme of quality and integrity throughout the bank. Sparkling black granite countertops greet the patrons at the checking and teller stations, and fresh, multicolored plaid carpeting gives the main entrance and hallways a contemporary feel. All finishes were selected to provide an elegant, yet comfortable and safe experience for the bank customers and the employees.

The site, although originally fully paved, incorporates a 20% reduction of impervious area and features landscaped islands that provide integrated water quality measures. Highway modification accommodates new State Highway Administration design requirements and added safety for bank customers. A new 6-inch water line was engineered to accommodate a new sprinkler system.

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Code	Division Name	%	S F Cost	Projected
06	**Wood, Plastics, and Composites**	**8.93**	**23.68**	**457,462**
	Rough Carpentry	6.26	16.61	320,877
	Architectural Woodwork	1.41	3.75	72,187
	Plastic Laminate	0.09	0.24	4,690
	Solid Surface Vanity	0.32	0.86	16,349
	Molding Trim	0.58	1.56	29,946
	Fiberglass Columns	0.26	0.69	13,413
07	**Thermal and Moisture Protection**	**9.04**	**23.96**	**462,826**
	Prefab Metal	0.54	1.42	27,647
	Roof Sheathing	0.23	0.61	11,644
	PVC Fabrication	0.56	1.48	28,641
	Dampproofing	0.34	0.90	17,466
	Veneer Exterior Finish	1.70	4.51	86,995
	Sealants & Caulking	0.25	0.65	12,808
08	**Openings**	**6.79**	**18.02**	**348,045**
	Access Doors	0.02	0.06	1,164
	Finished Hardware	0.55	1.43	27,944
	Glazing	0.53	1.41	27,163
	Hollow Metal Doors	2.38	6.32	121,948
	Pre-finished Interior Doors	0.12	0.33	6,287
	Aluminum Clad Door	3.19	8.46	163,539
09	**Finishes**	**15.72**	**41.68**	**805,436**
	Ceilings	0.21	0.55	10,851
	Drywall/Acoustical	10.72	28.43	548,881
	Tile	0.61	1.61	31,370
	Waterproofing at Restrooms	0.12	0.32	6,080
	Flooring	2.40	6.35	122,703
	Painting	1.67	4.43	85,551
10	**Specialties**	**1.94**	**5.15**	**99,628**
	Walk-off Mats	0.11	0.29	5,588
	Toilet Accessories	0.38	1.00	19,212
	Fire Extinguishers	0.15	0.41	7,858
	Toilet Compartments	0.19	0.50	9,499
	Cupola	1.12	2.97	57,469
21	**Fire Suppression**	**0.67**	**1.78**	**34,464**
22	**Plumbing**	**4.18**	**11.08**	**214,228**
23	**HVAC**	**8.49**	**22.52**	**435,000**
26	**Electrical**	**10.77**	**28.56**	**551,776**
	Total Interior Costs	**42.42**	**112.50**	**2,173,396**
	Total Building Costs	**100.00**	**265.16**	**5,122,394**

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FILE 6

What began as an adaptive reuse of a turn-of-the-century bank building quickly became a complex architectural project involving rehabilitation, preservation, and a building addition. The bank building was once a cornerstone of a busy commercial street which fell victim to decline and abandonment in the decades following the 1960s. The project was designed to provide 27,000 square feet of Class-A office space.

Two vertical elements in the entrance court reinforce the sense of entry, provide a setting for local artists to display their work, act as skylights for lower level offices, and provide fresh air intake for the building's air conditioning system. A monumental stairway connects the street level and the lower level. This stairway, together with a variety of skylights and areaways along the perimeter, enhance the quality and feel of the lower level. The third floor, which rises above the original parapet of the bank building, is set back from the building line and provides spaces for educational and community meeting facilities. There is a greenhouse, computer and other training labs, and a multi-purpose meeting room on the third floor as well. A rear courtyard provides a setting for informal outdoor meetings and recreation.

The program called for a building designed for not only today's technology needs, but for future needs too. The flexible arrangement of office spaces would permit a variety of configurations for tenant spaces of varying sizes. Fiber optics and high-tech electrical systems would allow voice, data, and video transmissions, as well as video conferencing to and from the building. The mechanical system was designed with multiple HVAC systems per floor to provide flexibility and energy efficiency. A curved curtainwall with blue-tinted glass gives a contemporary ambiance. Interior finishes include granite flooring in the main lobby, with glass and steel railing along the monumental stairway, and a recessed gypsum board ceiling with cove lighting. The ceiling system creates the illusion of a skylight and suggests a much greater ceiling height. The mezzanine floor in the original structure has been designed to maximize the use of rentable square footage without sacrificing the architectural quality of a traditional banking floor.

The project was hailed as one of "very high quality" by the local planning board and is expected to increase awareness about and appreciation for contextual architecture, which is rooted in its context without imitating its historical elements.

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Code	Division Name	%	S F Cost	Projected
06	**Wood, Plastics, and Composites**	**1.98**	**7.23**	**198,563**
	Finish Carpentry	1.65	6.04	165,548
	Forms	0.33	1.20	33,015
07	**Thermal and Moisture Protection**	**0.67**	**2.41**	**65,919**
	Firestopping	0.11	0.38	10,828
	Insulation Walls	0.56	2.02	55,089
08	**Openings**	**1.52**	**5.45**	**149,268**
	Hollow Metal Doors & Frames	1.02	3.65	99,891
	Wood Doors	0.50	1.79	49,376
09	**Finishes**	**13.74**	**49.34**	**1,353,417**
	Carpet	4.11	14.73	404,095
	Ceramic Tile Bathroom	0.44	1.59	43,314
	Credit Rental Finishes	(0.17)	(0.59)	(16,243)
	Exterior Wall Framing	0.29	1.04	28,694
	Firestopping	0.16	0.55	15,593
	Gypsum Board	2.74	9.83	269,652
	Hung Ceilings	2.66	9.52	261,504
	Metal Framing	0.78	2.82	77,044
	Paint Cellar/Basement	0.40	1.41	38,981
	Paint Stairs, etc.	0.17	0.59	16,243
	Paint Interior	0.50	1.77	48,727
	Plastering Compound	0.41	1.48	40,605
	Stone Tile Floors	0.44	1.59	43,670
	VCT	0.21	0.77	20,895
	Vinyl Base	0.08	0.29	8,120
	Wallcoverings	0.41	1.48	40,605
	Wonderboard	0.11	0.38	10,828
10	**Specialties**	**3.47**	**12.54**	**344,374**
	Accordion Partition	0.94	3.40	92,924
	Bath Accessories	0.33	1.18	32,797
	Mezzanine Systems	2.20	7.96	218,650
11	**Equipment**	**0.52**	**1.87**	**51,657**
	Kitchen Cabinets	0.29	1.05	28,699
	Appliances	0.13	0.47	13,393
	Mirror	0.10	0.35	9,567
12	**Furnishings**	**0.46**	**1.66**	**45,368**
	Signs	0.46	1.66	45,368
14	**Conveying Systems**	**4.96**	**17.78**	**487,277**
21	**Fire Suppression**	**0.81**	**2.80**	**77,047**
22	**Plumbing**	**5.90**	**20.35**	**558,076**
23	**HVAC**	**2.92**	**10.05**	**275,914**
26	**Electrical**	**5.52**	**19.02**	**521,842**
28	**Electronic Safety and Security**	**2.75**	**9.50**	**260,297**
	Total Interior Costs	**27.32**	**98.25**	**2,695,841**
	Total Building Costs	**100.00**	**357.54**	**9,807,104**

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FILE 7

The City Centre Office Building was undergoing interior renovations in preparation for new tenants. The black glass skin, installed in the mid-1980s, was to remain unchanged on this circa 1960s building.

Three functional designs for the garage were carried through schematics on this site. The client chose to take a 517-space double helix functional layout forward due to higher efficiency and ease of circulation. The prominent sloping decks on this site presented a challenge on this site facing the home of Jackson's elite cultural events. A series of vertical projecting columns mirror the formal colonnade of the Thalia Mara Hall across the street to form a base of counteraction to the sloping parking decks. A lighter color was used on this part of the elevation for emphasis. A metal grillwork floats within the openings formed in the elevation to filter site of the sloping decks while maintaining the open feel desired in secure parking structures. The grillwork extends throughout the ground level wall openings functioning as security barriers and extending the new metallic theme around the site. The garage is pulled back from the most prominent street along the south, leaving a wide landscaped public sidewalk facing the auditorium. A warm gray precast enclosure is used, complementary to the black glass of the City Centre Office Building, to build a link between the building's ownership of the garage and smoked glass on the vertical circulation elements recalls the dark glazing of the office building.

Also, to reinforce the tie to the City Centre Office Building, the former service area between the garage and building was transformed into a green space pedestrian way. A new visual axis was formed between the glazed tower of circulation on the garage and the new entry vestibule attached to the building lobby. This axis is reinforced by offsetting the sidewalk and canopy to the side, thereby allowing the low green space to continue uninterrupted between the two elements. The canopy design celebrates the green space by opening up to that side of the walkway, using a single row of columns on the opposing side of the walk from the green space. The simple exposed steel framing makes up the canopy's structure, establishing a rhythm that is reinforced in the sidewalk paving pattern. Metallic and gray colors begun in the garage are carried through to the building entry. This courtyard development has moved the main entry to that from the garage instead of those from sidewalk and street. The workers and visitors using the garage then experience a varied sequence of spaces all under protective cover.

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Code	Division Name	%	S F Cost	Projected
06	**Wood & Plastics**	**0.05**	**0.08**	**11,256**
	Finish Carpentry	0.03	0.03	5,196
	Rough Carpentry	0.03	0.03	6,061
08	**Doors & Windows**	**3.05**	**3.67**	**583,796**
	Door Hardware	0.12	0.14	23,148
	L1 Glass & Glazing Labor	0.22	0.27	42,049
	L1 Glass & Glazing Material	0.66	0.81	126,149
	L2 Glass & Glazing Labor	0.13	0.17	24,527
	L2 Glass & Glazing Material	0.38	0.47	73,586
	L3 Glass & Glazing Labor	0.13	0.17	24,527
	L3 Glass & Glazing Material	0.38	0.47	73,586
	L4 Glass & Glazing Labor	0.13	0.17	24,527
	L4 Glass & Glazing Material	0.38	0.47	73,586
	Roof Glass & Glazing Labor	0.13	0.17	24,527
	Roof Glass & Glazing Material	0.38	0.47	73,586
09	**Finishes**	**0.58**	**0.72**	**113,321**
	Drywall	0.12	0.15	23,249
	Painting	0.46	0.56	90,071
10	**Specialties**	**0.07**	**0.08**	**12,969**
	Misc. Specialties/Toilet Accessories	0.07	0.08	12,969
14	**Conveying Systems**	**2.96**	**3.56**	**567,069**
15	**Mechanical**	**2.20**	**2.55**	**405,338**
	L1 Mechanical Labor	0.53	0.63	97,281
	L1 Mechanical Material	0.79	0.91	145,921
	L2 Mechanical Labor	0.11	0.12	19,457
	L2 Mechanical Material	0.16	0.18	29,185
	L3 Mechanical Labor	0.11	0.12	19,457
	L3 Mechanical Material	0.16	0.18	29,185
	L4 Mechanical Labor	0.11	0.12	19,457
	L4 Mechanical Material	0.16	0.18	29,185
	Roof Mechanical Labor	0.04	0.03	6,486
	Roof Mechanical Material	0.05	0.06	9,728
16	**Electrical**	**3.52**	4.07	647,904
	Electrical	3.09	3.56	568,426
	Roof Electrical Labor	0.17	0.19	31,791
	Roof Electrical Material	0.26	0.29	47,686
	Total Interior Costs	**6.71**	**8.12**	**1,288,410**
	Total Building Costs	**100.00**	**120.59**	**19,209,674**

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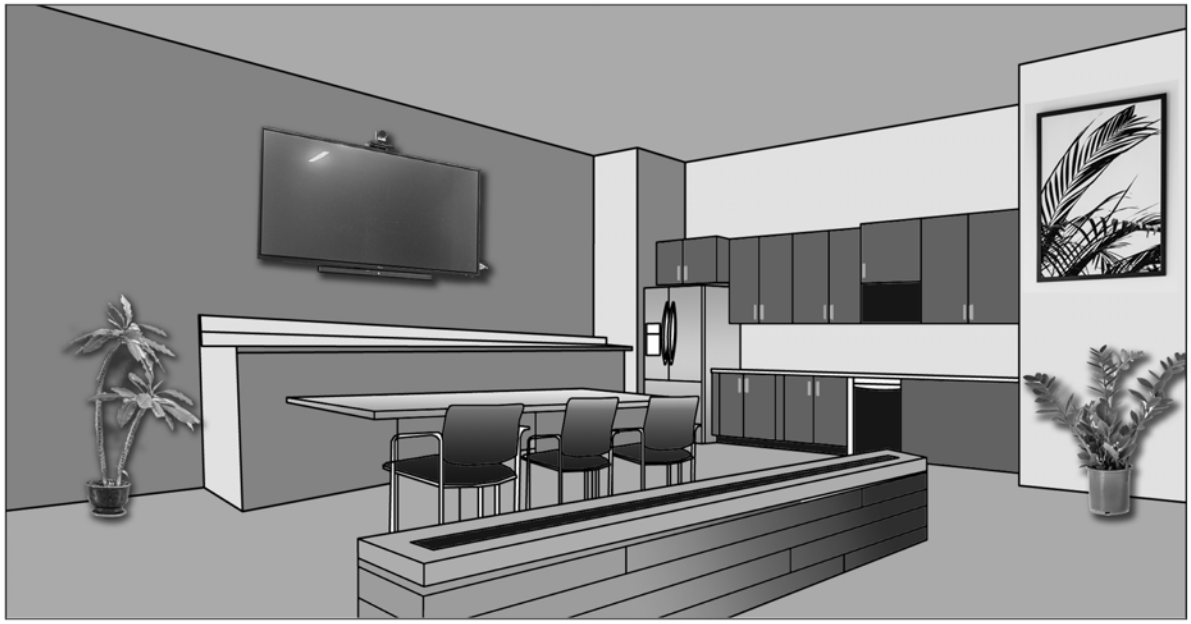
FILE 8



The Lightspeed Technologies project was the interior renovation of an existing 12,100-square-foot space. At the heart of this project is a modernized and improved entry / "core" area of the building that has an upgraded reception area, large conference room with interior storefront system, employees' café area, waiting room, and some open collaboration space that is visible to incoming visitors.

After all existing ceilings, floor finishes, window treatments, and other finishes were removed, construction started basically from a blank slate.

The staging areas, testing lab, and inventory area are finished with standard 2×4 suspended ceilings with painted drywall walls and ground and sealed floors. The offices have Armstrong fine fissured 2nd Look II Ceiling Tile, painted drywall walls, and Mohawk Carpet Tile.

In the core area of the building are solid surface countertops set on millwork with locally sourced reclaimed wood. The flooring consists of Mohawk Carpet Tile in the traffic areas and the lobby. In the café area, the flooring consists of Bentley LVT, walls are painted drywall, and ceilings are a combination of suspended drywall ceiling clouds and open painted structure above.

The core area features built-in benches and planters that are clad in locally sourced reclaimed lumber and allow for an open collaboration space. The café area features a kitchen with tables, chairs, built-in banquet seating, dishwasher, refrigerator, microwave, upper and lower cabinets, and an under-mount sink.

One of the other main features upon entry is the large conference room that is partitioned off partly with the slim line PK-30 engineered aluminum glazing framework. This allows full views into the conference room through the glass wall.

Both the walls and the ceiling clouds in the core area are fitted with black accent strips of medium-density fiberboard (MDF), along with lineal lighting by PMC Lighting to offer the appearance of data flowing through a network cable.

Restroom spaces are finished with American Olean St. Germain 12×24 Floor Tile and the wet walls are finished with American Olean Color Appeal Tile. Upgraded sink, water closet, and urinal fixtures are included in the restrooms as well.

The building was mostly fitted with all-new electrical, plumbing and HVAC fixtures. The building received a completely new fire alarm system that was purchased by the owner.

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Code	Division Name	%	S F Cost	Projected
06	**Wood, Plastics, and Composites**	**3.76**	**2.84**	**34,374**
	Finish Carpentry	3.76	2.84	34,374
08	**Openings**	**12.29**	**9.28**	**112,264**
	Doors & Frames & HW	3.60	2.71	32,852
	Garage Door	0.65	0.50	5,912
	Interior SF Sys	8.05	6.08	73,498
09	**Finishes**	**26.40**	**19.93**	**241,114**
	Floor Prep	0.94	0.70	8,561
	Metal Frame & DW	5.24	3.96	47,864
	Bathroom Floor & Wall Tile	1.75	1.32	16,018
	Floor Grind & Seal Warehouse	1.22	0.91	11,130
	Suspended Ceilings	7.49	5.66	68,408
	Flooring	6.77	5.11	61,871
	Painting & Wallcovering	2.98	2.25	27,258
10	**Specialties**	**1.36**	**1.04**	**12,457**
	Bathroom Accessories	1.36	1.04	12,457
22	**Plumbing**	**3.68**	**2.76**	**33,569**
23	**HVAC**	**12.38**	**9.34**	**113,074**
26	**Electrical**	**15.45**	**11.65**	**141,059**
	Total Interior Costs	**43.81**	**33.10**	**400,209**
	Total Building Costs	**100.00**	**75.48**	**913,274**

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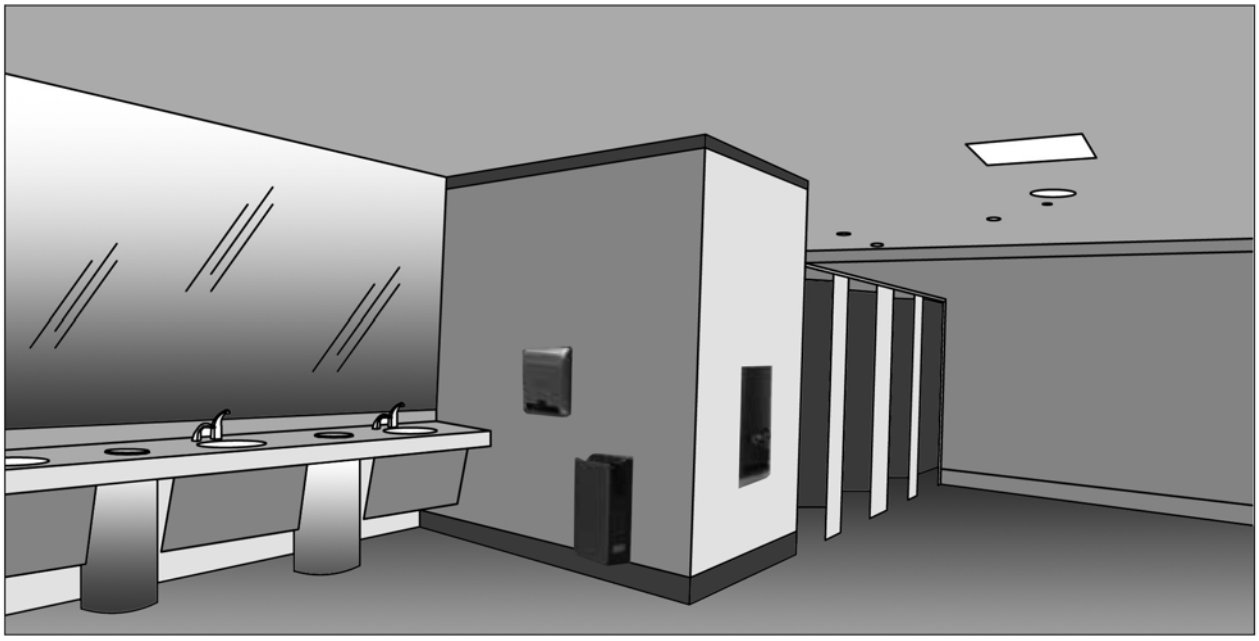
FILE 9



The San Diego County Regional Airport Authority awarded JXR Constructors, Inc. the Terminal 2 West Restroom Remodel Project. The project involved two large men's and women's restrooms and an all gender restroom. Work was broken out into two phases.

The initial challenge was making sure that no passengers would be affected through construction. The restrooms were in a high visibility area and were overdue for a makeover. After working on a previous set of restrooms, Atkins Global's lead architect made more design adjustments to make these restrooms truly the best the airport had to offer.

Due to the high traffic location of the restrooms within the airport, the work was scheduled to be performed from 8pm to 5am to reduce impact to passengers and operations. Additional challenges included airport security and accessing secure areas to connect utilities.

Prior to commencing work, metal containment walls were fabricated and installed to separate the public from the work area. JXR Constructors, Inc. teamed up with McCain wall manufacturers to build the temporary aluminum walls. The airport personnel were so impressed with the walls that they started using them on subsequent projects.

Direct work in each phase involved complete interior demolition. Remodel began with rough-in of new HVAC duct and, concurrently, the installation of structural steel support for the sinks and countertops. After HVAC duct was installed, the ceiling was ready for framing and drywall. The next step was rough-in for new plumbing and electrical conduit. This was followed by new wall framing, drywall, and insulation. After that, drywall was installed on the ceilings and walls. The desired wall tile patterns were then installed.

Wall and floor tile activities took five weeks for each restroom. The large 2′×2′ white and black composite floor tiles went in faster. After the tile, the countertops, toilet partitions and accessories were installed; plumbing finishes, lighting fixtures, and new HVAC grilles followed.

Work on each phase was completed and accepted by the Airport Authority prior to beginning the next phase. The project was completed on schedule, within budget, and with zero accidents reported.

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Code	Division Name	%	S F Cost	Projected
05	**Metals**	**8.33**	**54.26**	**147,044**
	Decorative	8.33	54.26	147,044
08	**Openings**	**0.20**	**1.29**	**3,476**
	Doors & Frames	0.20	1.29	3,476
09	**Finishes**	**24.90**	**162.25**	**439,715**
	Metal Framing & Gypsum Board	4.33	28.21	76,460
	Tiling	20.04	130.56	353,802
	Painting & Coating	0.54	3.49	9,453
10	**Specialties**	**7.01**	**45.68**	**123,795**
	Toilet Compartments & Accessories	7.01	45.68	123,795
12	**Furnishings**	**1.62**	**10.59**	**28,680**
	Simulated Stone Countertops	1.62	10.59	28,680
21	**Fire Suppression**	**0.39**	**2.56**	**6,950**
22	**Plumbing**	**7.49**	**48.79**	**132,212**
23	**HVAC**	**5.76**	**37.53**	**101,692**
26	**Electrical**	**10.63**	**69.25**	**187,675**
	Total Interior Costs	**53.49**	**348.51**	**944,457**
	Total Building Costs	**100.00**	**651.57**	**1,765,773**

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FILE 10

Little Miami Brewing Company planned an expansion, with a focus on additional indoor taproom space. They also wanted to create a more robust outdoor experience that would capitalize on their unique view, being situated atop the banks of a state scenic waterway.

The construction type was structural steel, metal deck, cold formed metal framing and brick veneer. Due to existing soil conditions, micropiles were deployed to depths of 30-40 feet below grade, topped off with concrete grade beams and a slab on grade.

Property owner and general contractor, D.E.R. Development, mobilized and started construction in August 2019, with plans to add 1,160 square feet of taproom space, along with a 1,600-square-foot rooftop deck. The rooftop had a larger footprint than the enclosed addition, and would provide cover for tables and chairs from inclement weather and hot sunny days.

The added taproom area was simply one open room with sectional fully glazed openings, providing an open air feel and excellent circulation to a new brick-paver patio and natural gas fire pit overlooking the breathtaking Little Miami River below.

To attenuate sounds produced from large gatherings and live music, K-13 acoustical spray insulation was applied to the underside of the steel structure. To match the existing taproom, the interior walls were veneered with a thin brick version of the full depth brick veneer used on the exterior shell.

Two sets of steel stairs ascend up the rooftop deck. The roof assembly consists of a TPO membrane, precast concrete pavers, and adjustable pedestals, to offset the roof slope. Guarding the roof perimeter are decorative pipe and mesh railings — similar to those at sports ballparks. The rooftop features a fully-equipped bar placed underneath an aluminum framed canopy.

The custom beer draft system was expanded to serve all 16 beers that are available from the first floor taproom. For additional weather protection, three custom fabric sunshades float overhead, providing protection to patrons as they enjoy a "cold one".

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Code	Division Name	%	S F Cost	Projected
06	**Wood, Plastics, and Composites**	**3.31**	**10.37**	**28,625**
	Rough Carpentry	0.46	1.45	3,994
	Finish Carpentry	0.54	1.69	4,659
	Architectural Woodwork	2.31	7.23	19,971
07	**Thermal and Moisture Protection**	**1.31**	**4.10**	**11,316**
	Thermal Protection	0.77	2.41	6,657
	Joint Protection	0.54	1.69	4,659
08	**Openings**	**3.94**	**12.35**	**34,080**
	Specialty Doors & Frames	3.15	9.87	27,237
	Entrances, Storefronts & Curtain Wall	0.79	2.48	6,843
09	**Finishes**	**7.39**	**23.18**	**63,973**
	Plaster & Gypsum Board	1.38	4.34	11,982
	Ceilings	0.23	0.73	2,013
	Flooring	0.58	1.83	5,046
	Wall Finishes	3.31	10.37	28,625
	Painting & Coating	1.88	5.91	16,308
10	**Specialties**	**4.57**	**14.35**	**39,613**
	Safety	0.12	0.36	1,004
	Exterior	4.46	13.99	38,610
11	**Equipment**	**6.15**	**19.29**	**53,254**
	Food Service	6.15	19.29	53,254
22	**Plumbing**	**3.22**	**10.10**	**27,875**
23	**HVAC**	**2.46**	**7.72**	**21,302**
26	**Electrical**	**5.36**	**16.82**	**46,417**
27	**Communications**	**1.85**	**5.79**	**15,977**
28	**Electronic Safety and Security**	**0.78**	**2.44**	**6,751**
	Total Interior Costs	**26.67**	**83.64**	**230,862**
	Total Building Costs	**100.00**	**313.73**	**865,900**

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FILE 11

In July of 2017, Gundlach Champion was hired by H.J. Larson and Associates to be the construction manager of their Holiday Inn hotel renovation. Construction on the 191-room hotel began in September of 2017. The project was to be completed over the course of 17 months, and done in five individual phases while the hotel was still occupied with staff and guests. The entire exterior was removed and replaced with steel studs, an air and moisture barrier and an Exterior Insulation Finish System (EIFS).

Every guest room, guest bathroom, hallway and stairwell was stripped down to the bearing walls and refinished. The guest bathrooms had the bathtubs, toilets, and sink removed and replaced. All guest room furniture, appliances, TVs, artwork and beds were replaced.

The contractors had to work closely with the staff to coordinate shutdowns of water and electricity so the new systems wouldn't disrupt the hotel guests. The front entrance and drive-through canopy were completely removed, and a new canopy and front entrance was constructed. The front desk was temporally relocated during construction so the hotel could stay operational while the lobby and staff offices were renovated.

This Holiday Inn is a full-service hotel that has a restaurant, bar, conference rooms, and meeting rooms. These rooms were also part of the renovation. The bar was moved into the restaurant, and the dining room was redesigned to fit the new bar in the existing space.

The dining room was renovated and brought up to current building code standards. The restaurant and bar are now used to cater summer weddings that are held in the beautiful South Courtyard. The renovation for these areas was constructed around the busy wedding season, and the results were well worth the effort.

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Code	Division Name	%	S F Cost	Projected
06	**Wood, Plastics, and Composites**	**1.88**	**2.11**	**250,465**
	Rough Carpentry	0.56	0.63	74,820
	Wood Trim	0.11	0.13	14,982
	Misc	1.11	1.24	148,168
	Sauna	0.09	0.10	12,497
07	**Thermal and Moisture Protection**	**1.92**	**2.16**	**256,343**
	DP & WP	1.12	1.27	149,818
	Batt Insulation	0.57	0.64	76,271
	Joint Protection	0.23	0.26	30,254
08	**Openings**	**6.78**	**7.60**	**903,267**
	Doors & Frames	4.10	4.60	546,428
	Ent SF & CW	0.66	0.74	88,529
	Windows	2.01	2.25	268,310
09	**Finishes**	**15.69**	**17.61**	**2,091,676**
	Plaster & Gyp Brd	5.31	5.96	708,230
	Tiling	3.40	3.81	453,540
	Acoustical Ceilings Hallways	0.48	0.54	63,686
	Carpet Install	2.04	2.29	272,396
	Vinyl Wall Coverings Install	3.27	3.67	435,834
	Painting & Coating	1.19	1.33	157,990
10	**Specialties**	**1.68**	**1.88**	**223,365**
	Bath & Toilet Accessories	1.68	1.88	223,365
12	**Furnishings**	**23.06**	**25.87**	**3,073,628**
	Install Furniture	1.60	1.79	213,468
	FFE Package	21.46	24.08	2,860,160
22	**Plumbing**	**5.87**	**6.59**	**783,139**
23	**HVAC**	**8.75**	**9.82**	**1,165,856**
25	**Integrated Automation**	**0.69**	**0.78**	**92,614**
26	**Electrical**	**7.85**	**8.81**	**1,046,001**
27	**Communications**	**1.25**	**1.40**	**166,162**
28	**Electronic Safety and Security**	**1.56**	**1.75**	**208,383**
	Total Interior Costs	**51.01**	**57.24**	**6,798,744**
	Total Building Costs	**100.00**	**112.22**	**13,330,565**

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FILE 12

Hinterhof (which means "backyard") is a vegan German restaurant, bar, and beer garden in the Highland Park neighborhood of Los Angeles, California.

Aesthetically, the main challenge for the project was to capture the look, feel, and spirit of a historical German food establishment in a contemporary Southern Californian design culture and geographic climate.

To heighten the social impact, the garden is placed adjacent to the boulevard and the restaurant is situated to the rear. Patrons walk through the laughter of the beer garden upon entering Hinterhof. Planted with native species, the garden envelopes visitors in the ongoing conversations as they walk in. The interiors are designed to engage the lineage of the beer hall through material selection and detailing. Tables, display cases, and lighting were designed and fabricated to complete the overall impression of the space. The result is a fusion mixture of Los Angeles and Berlin that provides the eclectic background of a hip vegan German food establishment in modern Los Angeles.

This is not a traditional German restaurant. The floor is concrete, the decor is minimalist, and the soundtrack is subdued. There is no loud polka music playing in the background. If you're expecting to escape to Bavaria, think again. This is a modern, hip Berlin-style German restaurant transplanted to chic, sunny Los Angeles.

Aaron Neubert Architects, Inc. designed Hinterhof, which includes a 75-seat interior dining hall and a bar evoking traditional German social halls. The 30-seat exterior beer garden poetically connects to the visual and spatial history of Berlin backyard spaces and gatherings, and serves as the focal point and entrance.

The primary technical challenge, in addition to the City of Los Angeles' standard zoning restrictions affecting restaurant/bar development, was the building's high seismic requirements. These restraints required extensive geotechnical analysis and engineering solutions to ensure the building would survive the "big one" when it occurs.

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Code	Division Name	%	S F Cost	Projected
06	**Wood, Plastics, and Composites**	**15.46**	**46.27**	**97,178**
	Rough Carpentry	9.45	28.30	59,421
	Finish Carpentry	1.66	4.97	10,429
	Structural Composites	1.58	4.74	9,956
	Composite Fabrications	2.76	8.27	17,371
07	**Thermal and Moisture Protection**	**1.02**	**3.05**	**6,391**
	Thermal Protection	1.02	3.05	6,391
08	**Openings**	**2.42**	**7.24**	**15,217**
	Specialty Doors & Frames	0.32	0.96	2,007
	Windows	1.84	5.52	11,596
	Hardware	0.26	0.77	1,614
09	**Finishes**	**7.82**	**23.40**	**49,148**
	Plaster & Gypsum Board	1.89	5.66	11,894
	Tiling	1.65	4.93	10,350
	Ceilings	1.18	3.52	7,404
	Flooring	2.17	6.50	13,652
	Wall Finishes	0.34	1.01	2,135
	Acoustic Treatment	0.18	0.52	1,102
	Painting & Coating	0.42	1.24	2,611
11	**Equipment**	**13.84**	**41.42**	**86,991**
	Foodservice	13.84	41.42	86,991
12	**Furnishings**	**9.27**	**27.76**	**58,296**
	Art	0.88	2.62	5,512
	Casework	0.70	2.10	4,398
	Furnishings & Accessories	1.29	3.87	8,123
	Furniture	6.40	19.17	40,265
22	**Plumbing**	**9.04**	**27.07**	**56,858**
23	**HVAC**	**8.61**	**25.78**	**54,143**
26	**Electrical**	**7.48**	**22.39**	**47,014**
27	**Communications**	**0.15**	**0.44**	**927**
28	**Electronic Safety and Security**	**0.54**	**1.60**	**3,365**
44	**Pollution Control Equipment**	**1.38**	**4.15**	**8,703**
	Total Interior Costs	**49.83**	**149.15**	**313,221**
	Total Building Costs	**100.00**	**299.39**	**628,730**

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FILE 13

Following the missions of both the Center and the design team, a wide variety of sustainable design and construction practices were used throughout the project and are supplemented by an extensive range of "green" materials and technologies. By balancing the educational experience with economically sound design solutions and the environment, the Nature Center has been crafted into a regional model of efficient and responsible use of resources to conserve water, energy, land, and materials.

A geothermal heating exchange system consisting of fifteen 300-foot-deep wells was installed beneath a grassy field adjacent to the center. The fluid circulating through the closed loop piping in these wells is pumped to the mechanical space in the basement of the original cottage, where heat pumps extract heating or cooling as needed to satisfy the HVAC loads of the Center. The 4,700-square-foot "green roof" was installed through funding from a grant. The vegetated roof moderates daily fluctuations in building temperature, reduces storm water runoff, improves air quality, and mitigates urban heat island impacts.

Interior finishes include sealed concrete floors, flooring composed of recycled rubber, low-VOC paints, and carpet tiles with a number of green attributes. The wood wainscot used throughout the building was milled from trees harvested on-site as part of a forestry management campaign.

The site work includes low maintenance native trees, wildflower seeding, and wetland plantings. The design team minimized paved parking areas by providing overflow parking on stabilized lawn; much of the storm water piping was eliminated by using planted swales, which allow rain to naturally recharge groundwater.

In addition to recognition for the environmental accomplishments of the project, one of the greatest compliments that the design team received was the acknowledgment that even long-time visitors to Asbury Woods Nature Center had difficulty distinguishing where the architecture of the original much-loved structure ended and the new construction began.

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Code	Division Name	%	S F Cost	Projected
06	**Wood, Plastics, and Composites**	**25.08**	**90.94**	**972,259**
	Finish Carpentry	2.42	8.76	93,699
	Millwork	2.52	9.13	97,554
	Rough Carpentry	20.14	73.06	781,004
07	**Thermal and Moisture Protection**	**0.80**	**2.91**	**30,971**
	Insulation	0.80	2.91	30,971
08	**Openings**	**5.90**	**21.38**	**228,582**
	Aluminum Storefronts	0.67	2.43	26,076
	Doors & Frames	2.55	9.24	98,865
	Skylights	0.06	0.24	2,428
	Special Doors	0.82	2.98	31,942
	Windows	1.79	6.49	69,270
09	**Finishes**	**7.97**	**28.92**	**309,101**
	Acoustical Ceilings	1.25	4.54	48,554
	Drywall	2.02	7.32	78,310
	Flooring	1.89	6.86	73,373
	Steel Studs	0.05	0.15	1,791
	Wall Finishes	2.76	10.01	107,075
10	**Specialties**	**0.56**	**2.01**	**21,555**
	Specialties	0.56	2.01	21,555
12	**Furnishings**	**0.39**	**1.43**	**15,127**
	Furnishings	0.39	1.43	15,127
22	**Plumbing**	**5.78**	**20.94**	**223,923**
23	**HVAC**	**15.29**	**55.46**	**592,897**
26	**Electrical**	**11.62**	**42.18**	**450,673**
27	**Communications**	**2.00**	**7.26**	**77,500**
28	**Electronic Safety and Security**	**1.39**	**5.04**	**53,880**
	Total Interior Costs	**40.69**	**147.58**	**1,577,595**
	Total Building Costs	**100.00**	**362.66**	**3,876,919**

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FILE 14

This 12,700-square-foot fire station stretches across a developing prairie and was the first building in a planned pedestrian-friendly neighborhood of commercial, retail, and residential projects.

The station sits on a sloping tapered site and is influenced by two major factors. First, the site's rolling terrain forces the building away from the northeast corner to allow for a shallow drive-out apron. The apron would have been too steep for exiting rescue vehicles if the building were close to the corner. Second, a large detention basin that drains a portion of the neighborhood occupies 1/4 of the site, forcing the building away from the southeast corner. The entire wetland perimeter is planted with prairie grasses, minimizing the overall impact of mowing and watering. All storm water from the building and 18-stall parking area is directed to and filtered by this natural amenity.

Serving firefighters and the public, the fire station conveys a civic presence. Large volumes like the apparatus room are broken down with windows and thin planes, while smaller volumes like the officers' quarters are rendered more massively, thus carefully balancing the fire station's different elements. To add more stature and permanence to the one-story structure, an oversized aluminum pergola stands above the watch room, directing focus to the main entrance. A masonry overhang supported by aluminum pillars shades the curtain wall entrance. The extensive use of windows provides natural daylighting and outside views to the interior. While site and functional constraints push the building away from its corners, the edge-hugging community room employs pedestrian-friendly canopies, signage, and lighting.

The design for the station consists of a 4,000-square-foot apparatus room for six vehicles, including engines, ladder truck, and EMT vehicles. Support space lines both sides of the floor, while six overhead doors provide drive-through capability. A watch room sits at the front of the support space, with views inside as well as outside across the drive-out apron. Three officer's quarters and eight sleeping quarters are served by a day-lit exercise room, kitchen, and dining area with a south-facing outdoor terrace. A windowless dayroom occupies the center of the station, functioning as a dark box for television viewing. A community room with a prominent public entrance serves visitors.

Sustainability was a key concern in the design of the building. The station has a highly-efficient heating and cooling system with a well-insulated exterior. Air recyclers circulate air throughout the building. Building materials were selected for low-VOC content, and recycled material was used whenever possible.

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Code	Division Name	%	S F Cost	Projected
06	**Wood, Plastics, and Composites**	**3.46**	**13.03**	**165,320**
	Architectural Woodwork	2.35	8.82	111,988
	Wood Blocking	1.12	4.19	53,330
07	**Thermal and Moisture Protection**	**0.30**	**1.13**	**14,322**
	Sealants/Caulking	0.30	1.13	14,322
08	**Openings**	**3.99**	**14.99**	**190,294**
	Doors/Frames/Hardware	1.47	5.50	69,944
	Glass/Glazing	2.52	9.47	120,349
09	**Finishes**	**10.68**	**40.17**	**510,039**
	Acoustical Ceilings	0.54	2.04	25,816
	Carpet	0.53	1.97	25,106
	Ceramic Tile	0.45	1.68	21,409
	Exterior Sheet Rock	0.65	2.46	31,213
	Exterior Wall Framing	1.31	4.92	62,424
	Interior Sheet Rock	1.31	4.92	62,423
	Interior Wall Framing	1.31	4.92	62,423
	Painting	1.15	4.34	55,018
	Quarry Tile	0.40	1.51	19,256
	Resilient Flooring	1.08	4.03	51,315
	Wall Finishing	1.31	4.92	62,423
	Wall Insulation	0.65	2.46	31,213
10	**Specialties**	**1.10**	**4.15**	**52,598**
	Marker/Tack Boards	0.10	0.40	4,979
	Misc Specialties	0.40	1.50	18,876
	Signage	0.36	1.34	17,075
	Toilet Accessories	0.24	0.92	11,667
12	**Furnishings**	**0.42**	**1.59**	**20,175**
	Window Shades	0.42	1.59	20,175
21	**Fire Suppression**	**0.97**	**3.66**	**46,452**
22	**Plumbing**	**4.88**	**18.37**	**233,093**
23	**HVAC**	**11.24**	**42.27**	**536,518**
26	**Electrical**	**8.95**	**33.64**	**426,998**
	Total Interior Costs	**19.54**	**73.47**	**932,568**
	Total Building Costs	**100.00**	**376.09**	**4,773,513**

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FILE 15

The Poplar Creek Public Library stands as a testament to the integration of functional and contemporary library services alongside flexible community spaces that foster interaction, education, and repose. The newly expanded and renovated facility won an AIA Chicago Design Excellence award and a GE Edison Award of Merit.

Being located in a residential neighborhood, there were challenges in providing a symbolic place that would provide a new image as a cultural center. The existing 1966 formed concrete structure was partially recessed into the earth and had an austere presence on-site. Expanding without imposing turned out to be a challenge. Even so, the glass tower at the west entrance is already a community icon, and has been featured prominently on the cover of the chamber of commerce community guide.

The opposite expansion that was added presented a contemporary design response to the nearby homes. A scale appropriate and durable Kynar® finish was provided on a metal siding / standing seam roof system. In contrast, a sealed, troweled stucco on sculptural facades creates an identity that fits in but also stands apart. Larger areas of Low-E, UV-resistant glass were also used to create a more open and communicating presence to the new facade. Fritted glass provides necessary heat gain resistance on several exposures.

The roofing is a durable membrane, and is elevated by the inclusion of 15,000 square feet of sedum roof trays, providing rainwater regulation as well as an extra layer of insulation for the facility. Nearly the entire site is landscaped with native grasses and plants, and there is also an additional bio-swale that filters rainwater captured from diversion spouts.

Many of the finishes in the facility have durable value such as epoxy coatings in high traffic areas, and scuff resistant paints on all walls. Recycled rubber sheet goods are the most common material for the flooring, and it has the added benefit of being “easy on the feet” while providing an acoustic buffer. Furniture and counters use high-quality laminates and seats and tables use metal legs to provide lightweight but durable pieces as opposed to bulkier wood furniture.

Since its construction, there has been a creation of a new bicycle and pedestrian path linking it to the city hall and police department, which are located two blocks away. With a wealth of enhanced amenities that were not present before the re-design, patrons are aware of an easier and enjoyable browsing experience, while staff and maintenance enjoy the flexibility of the facility. After a 2½ year design and construction phase, it emerged as a vibrant, flexible, and functional social center with a green mindset and a sharp focus on technology.

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Code	Division Name	%	S F Cost	Projected
06	**Wood, Plastics, and Composites**	**5.94**	**22.57**	**2,186,711**
	Rough Carpentry	2.32	8.79	852,260
	Architectural Woodwork	3.63	13.77	1,334,451
07	**Thermal and Moisture Protection**	**6.96**	**26.43**	**2,559,954**
	Waterproofing	0.27	1.05	100,881
	Metal Wall Panels	1.38	5.27	509,545
	Roofing	4.57	17.37	1,681,130
	Fireproofing	0.73	2.78	268,396
08	**Openings**	**9.38**	**35.65**	**3,453,469**
	Horizontal Fire Doors	0.18	0.67	65,143
	Overhead Coiling Door	0.02	0.06	6,811
	Revolving Doors	0.26	0.99	95,089
	Rolling Grill	0.17	0.67	64,076
	Skylights	0.80	3.03	294,175
	Glass & Glazing	7.96	30.23	2,928,177
09	**Finishes**	**14.25**	**54.16**	**5,243,740**
	Plaster	1.33	5.04	487,713
	Gypsum Drywall	8.62	32.74	3,171,277
	Resilient & Carpet	2.75	10.46	1,012,047
	Painting	1.56	5.93	572,701
10	**Specialties**	**0.43**	**1.64**	**157,362**
	Toilet Partitions	0.09	0.35	33,293
	Signage	0.12	0.46	44,959
	Partitions	0.11	0.42	41,658
	Toilet Accessories	0.10	0.40	37,452
11	**Equipment**	**0.07**	**0.24**	**24,064**
	Residential Kitchens	0.07	0.24	24,064
14	**Conveying Systems**	**0.89**	**3.38**	**327,849**
	Elevators	0.81	3.08	299,430
	Wheelchair Lifts	0.08	0.28	28,417
21	**Fire Suppression**	**1.47**	**5.57**	**539,411**
22	**Plumbing**	**3.23**	**12.25**	**1,187,003**
23	**HVAC**	**11.32**	**43.05**	**4,167,999**
26	**Electrical**	**13.55**	**51.51**	**4,988,646**
28	**Electronic Safety and Security**	**1.23**	**4.67**	**452,054**
	Total Interior Costs	**37.92**	**144.05**	**13,953,148**
	Total Building Costs	**100.00**	**380.04**	**36,804,404**

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FILE 16

The new Animal Care and Protective Services building replaced an overcrowded and dilapidated existing facility. This project was delivered on time and under budget and was awarded a LEED® Gold designation. Energy usage in the building is projected to be 40% less than the base model.

The substantial energy reduction benefits both the environment and the annual operating costs of this facility. By introducing energy efficient design and products into the building, it is expected to save $56,590 per year in energy costs, a savings of $1,000,000 over 20 years and a HVAC payoff in 5.25 years. Energy modeling revealed the following:

Annual Energy Costs: Baseline Building: $139,031

Proposed Building: $82,441

Total Energy Savings: $56,590

Overall Improvement: 40.7%

The project is currently complete and 337 of 407 tons, or 83%, of construction waste has been diverted from landfills. In addition, 27.9% of the material used on the project was from recycled content. This was achieved by using items such as structural steel, which contains over 99% recycled material, and drywall composed of 98% recycled material. Forty-three percent of the cementitious material for the concrete is recycled fly ash, thus using less Portland Cement, which requires extensive embodied energy to produce.

The minimum goal for regional materials is 20%, and the project achieved 43%, earning an exemplary performance credit. Using regional materials not only benefits the local economy but also limits the environmental impact of shipping materials over long distances. Regional materials used in this facility included block, concrete, ceramic tile, gypsum tile, gypsum wallboard, insulation, acoustical ceiling, tile, landscaping, light gauge metal framing, structural steel, limerock, and landscaping. The project also achieved an exemplary performance credit for maintaining 49.7% of the open space on site.

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Code	Division Name	%	S F Cost	Projected
06	**Wood & Plastics**	**0.90**	**5.07**	**207,997**
	Millwork	0.90	5.07	207,997
07	**Thermal & Moisture Protection**	**8.07**	**45.45**	**1,868,146**
	Corrugated Metal Siding	1.62	9.15	376,311
	Insulation - Core Fill	0.09	0.52	21,896
	Dampproofing	0.30	1.68	68,969
	Modified Bituminous Roofing	6.05	34.10	1,400,973
08	**Doors & Windows**	**5.83**	**32.87**	**1,350,890**
	Wood & Hollow Metal Doors	1.75	9.89	406,415
	Overhead Doors	0.24	1.34	55,831
	Glass & Glazing	3.84	21.62	888,641
09	**Finishes**	**5.54**	**31.21**	**1,282,467**
	Drywall	1.11	6.23	256,439
	Ceramic Tile	0.24	1.34	55,831
	Epoxy Flooring	1.90	10.71	440,626
	Acoustical Treatments	0.91	5.15	211,555
	Resilient Flooring	0.05	0.27	11,494
	Painting	1.32	7.46	306,522
10	**Specialties**	**2.38**	**13.38**	**550,373**
	Toilet Partitions & Accessories	0.54	3.03	124,525
	Building Specialties	1.84	10.34	425,847
11	**Equipment**	**0.37**	**2.06**	**84,842**
	Equipment	0.37	2.06	84,842
12	**Furnishings**	**1.36**	**7.67**	**314,733**
	Office Furniture	1.36	7.67	314,733
13	**Special Construction**	**13.59**	**76.57**	**3,147,014**
	Dog Kennels, Cat Condos & Dog Water System	13.59	76.57	3,147,014
15	**Mechanical**	**19.21**	**108.28**	**4,450,323**
16	**Electrical**	**9.60**	**54.14**	**2,224,520**
	Total Interior Costs	**38.04**	**214.27**	**8,806,460**
	Total Building Costs	**100.00**	**563.55**	**23,160,781**

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FILE 17

Hurricane Ivan, a Category 3 storm, caused an estimated $18 billion in damage to the United States when it made landfall. Its destruction included two community centers, The Sanders Beach Community Center and the Corinne Jones Community Center in Pensacola, Florida.

The community made the decision to replace the two centers with one new beautiful center. Quina Grundhoefer Architects was selected to design the new Sanders Beach-Corinne Jones Community Center to replace the centers that had been destroyed.

The architect designed the new facility around its location to the water. Sitting only 100 feet from the water's edge of Pensacola Bay, the new center offers visitors spectacular views from both outdoor and indoor spaces. The new 350-seat ballroom and its three-sided balcony face the water, making it a sought out location for activities.

The new 17,000-square-foot facility offers new and exciting spaces in addition to the ballroom for the community with areas including a multi-purpose room, a game room, a TV room, a fitness room, an exercise room, a small library and computer room, and a kitchen.

The City of Pensacola Parks and Recreation Department hosted a Grand Opening to the new Sanders Beach-Corinne Jones Community Center. The new center is now home to many quality recreation programs, classes and events for the citizens of Pensacola.

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Code	Division Name	%	S F Cost	Projected
06	**Wood, Plastics, and Composites**	**1.62**	**10.16**	**172,727**
	Carpentry	0.66	4.11	69,914
	Millwork	0.96	6.04	102,813
07	**Thermal and Moisture Protection**	**9.79**	**61.35**	**1,042,863**
	Dampproofing	0.11	0.70	11,964
	Insulation	0.22	1.41	23,932
	Aluminum Roofing System	8.11	50.82	864,137
	Flexible Sheet Roofing	0.80	5.04	85,583
	EIFS	0.54	3.37	57,247
08	**Openings**	**8.88**	**55.67**	**946,228**
	Doors & Hardware	1.77	11.12	189,087
	Storefront & Glass	7.03	44.06	748,842
	Counter Shutter	0.08	0.47	8,300
09	**Finishes**	**7.42**	**46.50**	**790,508**
	Metal Framing	1.75	10.93	186,052
	Gypsum Board	0.97	6.07	103,044
	Building Insulation	0.22	1.41	23,930
	Hard Tile	1.34	8.38	142,570
	Carpet & Soft Tile	0.43	2.66	45,546
	Acoustic Flooring	0.41	2.57	43,794
	Acoustical Ceilings	0.74	4.62	78,383
	Painting	0.71	4.48	75,965
	Wood Flooring	0.86	5.36	91,223
10	**Specialties**	**1.16**	**7.28**	**123,835**
	Folding Partition	0.30	1.91	32,398
	Specialties	0.86	5.38	91,437
11	**Equipment**	**0.67**	**4.21**	**71,529**
	Kitchen	0.67	4.21	71,529
21	**Fire Suppression**	**0.89**	**5.57**	**94,685**
22	**Plumbing**	**1.35**	**8.45**	**143,575**
23	**HVAC**	**8.17**	**51.19**	**870,149**
26	**Electrical**	**6.18**	**38.73**	**658,336**
	Total Interior Costs	**29.54**	**185.16**	**3,147,693**
	Total Building Costs	**100.00**	**626.88**	**10,656,931**

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FILE 18

The Palmetto Library was part of the Atlanta-Fulton Public Library System Capital Improvement Program managed by Heery/Russell, a program manager Joint Venture. This program was initiated to improve current library facilities, as well as providing solutions to reach areas without easy access to a low-cost media/publication source. New South Construction was the selected construction manager for the new Palmetto Library, located a short drive southwest of Atlanta.

Houser-Walker managed the design of the project and incorporated cutting-edge building products and systems that, while not native to this area of Georgia, worked in harmony with the surroundings. Some notable features included the utilization of metal, cypress, and composite siding that acted as a rain screen feature that encompassed the majority of the exterior skin. Another notable feature was the four pods making up the layout of the building. They played a crucial role in providing exterior and interior highlights. The pods physically divided the library into sections based on subject and/or age level of materials. Another focus point of the construction was the use of a raised access floor that housed the air distribution for the spaces. This attribute eliminated the above-ceiling ductwork, allowing higher ceilings and increasing the overall energy efficiency, which led to larger building flexibility.

The project was scheduled as a ten-and-a-half-month long project beginning in December 2013. The virgin site was conducive to this structure, although a detention pond and municipal utility tie-in work was forecasted. The 11,000-square-foot structure provided many opportunities for coordination amongst historically residential-type products in conjunction with typical commercial construction, most notably the exterior skin. The construction materials and systems achieved the LEED® credits that pushed this project to the Silver certification that was initially anticipated.

New South Construction worked hand-in-hand with Fulton County as well as the town of Palmetto to provide opportunities for local trade contractor opportunities. Additionally, Houser-Walker and its consultants led to a successful project that exceeded the expectations originally set out by the program.

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Code	Division Name	%	S F Cost	Projected
06	**Wood, Plastics, and Composites**	**4.05**	**26.96**	**301,926**
	Millwork & Casework	4.05	26.96	301,926
08	**Openings**	**4.45**	**29.57**	**331,261**
	Doors/Frames/Hardware	0.97	6.46	72,284
	Coiling Doors	0.20	1.31	14,656
	Skylights	0.17	1.14	12,887
	Glass & Glazing	3.11	20.66	231,436
09	**Finishes**	**12.68**	**84.38**	**945,000**
	Gypsum Board/Acoustic Ceiling	9.14	60.83	681,179
	Tile	0.47	3.15	35,195
	Flooring	1.18	7.82	87,587
	Access Flooring	1.26	8.36	93,690
	Painting	0.64	4.22	47,351
10	**Specialties**	**1.27**	**8.46**	**94,755**
	Misc	0.02	0.15	1,759
	Toilet Partitions/Accessories	0.36	2.41	27,071
	Signage	0.78	5.21	58,245
	Fire Extinguisher	0.10	0.68	7,680
11	**Equipment**	**0.16**	**1.06**	**11,826**
	Residential Appliances	0.16	1.06	11,826
12	**Furnishings**	**5.07**	**33.72**	**377,588**
	Window Treatments	0.34	2.24	25,016
	Floor Mat	0.12	0.78	8,800
	Furniture	4.61	30.69	343,775
21	**Fire Suppression**	**0.84**	**5.58**	**62,612**
22	**Plumbing**	**1.93**	**12.83**	**143,624**
23	**HVAC**	**9.15**	**60.90**	**682,057**
26	**Electrical**	**10.18**	**67.72**	**758,501**
	Total Interior Costs	**27.68**	**184.13**	**2,062,356**
	Total Building Costs	**100.00**	**665.19**	**7,450,235**

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FILE 19

The graceful architecture and adaptable design of the new police headquarters make it stand out as an efficient base of operations and welcoming nerve center for police services in the community. Visitors are greeted by the information desk and records units as they enter the first floor lobby and the department's public information office and community room are located just off the lobby.

The second floor features the investigations bureau and the new, open-plan design fosters collaborative police work. The Police Chief's office and the criminal intelligence unit are located on the third floor.

The headquarters' built-in flexibility allows the police department to change the way it operates over time; departments can scale up or down as needed. The design also allows for expansion, and includes state-of-the-art security features.

The new headquarters was built on the existing police parking lot located on the western edge of downtown Oklahoma City's Civic Center. The new three-story building is a modern adaptation of the established Art Deco design style of the surrounding civic center.

Sitting atop the 88,625-square-foot headquarters is a sloped diamond-shaped metal atrium roof—or "hat"—that is an iconic identifier for the downtown area. Blonde, black and red brick, as well as tan calcium silicate masonry units resembling limestone, clad the four quadrants of the building. The stonework reflects the Art Deco design elements of surrounding WPA-era buildings constructed in the 1930s.

Artwork funded by the City's 1% for Art Ordinance graces the exterior plaza and will soon enhance the lobby. The plaza is a memorial to fallen officers, and features large aluminum arches set on a round 19-foot-diameter concrete pedestal. The plaza incorporates low seating blocks as well as heritage memorial plaques. Dichroic art glass elements add color and sparkle to the black and gray concrete flagstones of the plaza.

The existing police headquarters and municipal courts complex had become obsolete and would have been too costly to renovate. The first step in the process was to create a master plan that evaluated the existing 1960s structure and prioritized department needs. The design team explored over 25 design scenarios before presenting three that maximized construction dollars while minimizing construction time and disruption to services.

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Code	Division Name	%	S F Cost	Projected
06	**Wood & Plastics**	**3.97**	**18.89**	**1,674,587**
	Rough Carpentry	0.78	3.71	329,548
	Millwork	2.09	9.97	883,190
	Composite Paneling	1.09	5.21	461,850
08	**Doors & Windows**	**6.65**	**31.67**	**2,806,036**
	Acoustic Door Assemblies	0.39	1.87	166,351
	HM Doors & Frames	0.20	0.95	84,131
	Wood Doors	0.21	0.99	87,186
	Door Hardware	0.85	4.04	358,159
	Coiling Doors	0.09	0.45	39,053
	Fire & Smoke Curtains	0.10	0.47	41,871
	Glass & Glazing	4.78	22.76	2,016,996
	Access Doors	0.03	0.14	12,287
09	**Finishes**	**11.74**	**55.90**	**4,953,574**
	DW & Acoustical	6.52	31.07	2,753,304
	Tile	0.67	3.17	280,796
	Granite	1.56	7.42	657,718
	Terrazzo	0.15	0.73	65,196
	Carpet & VCT	1.28	6.09	539,621
	Epoxy Flooring	0.03	0.13	11,620
	Painting	1.53	7.28	645,321
10	**Specialties**	**1.07**	**5.09**	**451,497**
	Toilet Partitions	0.13	0.61	54,922
	Toilet Accessories	0.14	0.67	59,709
	Roof Screen	0.16	0.78	69,606
	Corner Guards	0.04	0.18	14,828
	Fire Extinguishers & Cabinets	0.03	0.14	13,286
	Flag Poles	0.04	0.19	16,367
	Lockers	0.03	0.15	14,706
	Signage	0.45	2.16	191,040
	Wire Mesh Partitions	0.04	0.19	17,030
11	**Equipment**	**0.06**	**0.31**	**26,025**
	Loading Dock Equipment	0.03	0.14	12,868
	Vehicle Lift	0.03	0.14	13,158
12	**Furnishings**	**0.03**	**0.13**	**11,647**
	Bike Racks	0.03	0.13	11,647
14	**Conveying Systems**	**1.22**	**5.82**	**515,544**
15	**Mechanical**	**26.89**	**128.05**	**11,349,597**
16	**Electrical**	**12.08**	**57.54**	**5,099,524**
	Total Interior Costs	**23.52**	**111.97**	**9,923,366**
	Total Building Costs	**100.00**	**476.29**	**42,211,398**

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FILE 20

The National Civil War Museum is sited on the highest point in the city of Harrisburg, Pennsylvania. Funded by a $16.2 million Redevelopment Assistance Capital Program grant from the Commonwealth of Pennsylvania, in addition to other public and private monies, the Museum provides a complete picture of the American Civil War from pre-conflict to post-war western expansion, with extensive exhibits on both the Union and Confederate war efforts.

The two-story, 66,500-square-foot facility, designed by Hayes Large Architects, is modeled after mid-19th century architecture with a brick façade, plazas, overlooks and a grand cupola rising 80 feet into the air above Harrisburg. The museum is surrounded by the bucolic rolling hills of a 90-acre park with large open areas to allow for hosting re-enactor parades, drills, encampments and re-enactments. The building is linked with an entry space named “Lincoln Circle” where visitors either enter the museum or go through the building to the parade grounds. The parking area is situated on a lower level, so that vehicles are not visible from the museum, which maintains the ambiance of a different time and place.

The museum houses a 2,200-square-foot gift shop, a cafeteria, two multi-purpose rooms for meetings and private functions, offices, climate controlled storage/archival areas and public amenities. The exhibit area is designed to be an experience of the war, rather than just a view of it. Exhibits are dramatically lighted with voices and music surrounding the visitor as one travels through the war from beginning to end.

An internationally recognized attraction, The National Civil War Museum houses the nation’s largest collection of Civil War artifacts. It is the only museum in the United States that attempts to portray the story of the Nation’s Civil War by offering equally balanced presentations that are humanistic in nature, without bias to Union or Confederate causes.

Due to the aggressive construction schedule, a cooperative agreement to fast-track the project was made and the project was divided into twenty-one prime contracts, starting with site preparations and ending with furnishings. Having achieved the challenge presented, the final result is a timeless, durable and functional museum that provides an appropriate venue for honoring and remembering those who died for America.

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Code	Division Name	%	S F Cost	Projected
06	**Wood, Plastics, and Composites**	**1.02**	**4.72**	**313,965**
	Display Platforms	0.14	0.63	42,048
	Millwork	0.88	4.08	271,914
08	**Openings**	**2.11**	**9.77**	**649,265**
	Bronze Door	0.59	2.73	181,810
	Finish Hardware	0.55	2.53	168,196
	Hollow Metal Doors & Frames	0.30	1.40	92,508
	Misc Glass Etched	0.13	0.63	41,359
	Ticket Window	0.08	0.37	25,230
	Wood Doors	0.46	2.10	140,161
09	**Finishes**	**7.28**	**33.66**	**2,237,837**
	Acoustical Treatment	0.25	1.14	75,688
	Ceramic Tile	0.27	1.25	84,097
	Drywall, Plaster & metal Framing	2.17	10.05	667,735
	Epoxy Floor	0.05	0.23	15,418
	Metal Stud Framing	0.73	3.37	224,260
	Painting	0.77	3.58	237,997
	Terrazzo	1.40	6.49	430,860
	VCT Carpet	1.46	6.76	448,521
	Wood Floor	0.17	0.79	53,261
10	**Specialties**	**1.68**	**7.74**	**514,957**
	Coat Shelf	0.03	0.12	7,849
	Folding Partitions	0.47	2.19	145,769
	High Density Shelving	0.84	3.88	257,901
	Interior Signage	0.02	0.12	7,569
	Light Coves	0.14	0.63	42,048
	Lockers	0.05	0.26	16,538
	Telephone Enclosure	0.01	0.05	3,364
	Toilet Partitions	0.11	0.51	33,919
11	**Equipment**	**0.85**	**3.96**	**262,696**
	Cabinet, Shelving	0.03	0.17	10,605
	Kitchen Equipment	0.75	3.46	230,076
	Project Screens	0.06	0.28	18,501
	Tables, Hand Sinks	0.01	0.05	3,514
12	**Furnishings**	**1.33**	**6.17**	**410,217**
	Exhibits	0.38	1.74	115,300
	Furniture	0.93	4.30	286,508
	Window Blinds	0.03	0.14	8,411
21	**Fire Suppression**	**0.36**	**1.66**	**109,672**
22	**Plumbing**	**3.47**	**16.06**	**1,068,200**
23	**HVAC**	**15.55**	**71.90**	**4,781,879**
26	**Electrical**	**17.55**	**81.15**	**5,396,579**
	Total Interior Costs	**14.28**	**66.00**	**4,388,936**
	Total Building Costs	**100.00**	**462.28**	**30,742,254**

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FILE 21

The Transportation Maintenance Center was completed in 2023 by SLA Architects. This facility provides storage and maintenance facilities for the City's Falls Ride bus system as well as Rolling Plains Management Corporation's (RPMC) SHARP Lines Rural Transportation.

The Wichita Falls Transit System, Falls Ride, provides public transportation for the City of Wichita Falls and its residents. SHARP Lines Rural Public Transportation is a rural public transportation program and non-emergency medical transportation service for residents of Archer, Baylor, Cottle, Foard, Hardeman, Jack, rural Wichita, Wilbarger, and Young counties. Destinations include shopping centers, beauty/barber shops, social service agencies, and medical clinics.

The project scope includes administrative offices for the City of Wichita Falls Transportation staff and RPMC staff, maintenance facilities, parking, both covered and uncovered, for both organization's fleet, and bus washing area and fueling station. The site is designed to handle the capacity of as many as forty-three transit vehicles of various sizes. Access control and surveillance systems are utilized for both the site and all buildings.

The 8,468-square-foot administrative building includes multiple offices for RPMC SHARP Lines, Falls Ride, Wichita Falls Metropolitan Planning Organization and the DAV Chapter 41 staff, along with a shared conference/training room, break room, and secure vault. The design also includes a wellness room with fitness equipment and shower facilities. A dispatch office is located right off the lobby area. Adjacent to the administrative building, and connected with a covered walk, is the maintenance repair building. The 11,426-square-foot building consists of seven drive-thru bays, parts and tire storage areas, mechanics' offices, and mechanics' work area.

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Code	Division Name	%	SF Cost	Projected
06	**Wood, Plastics, and Composites**	**1.01**	**7.95**	**158,120**
	Rough Carpentry	0.68	5.37	106,926
	Cabinets	0.21	1.67	33,231
	Quartz Tops Solid Surface Sills	0.11	0.90	17,963
08	**Openings**	**3.39**	**26.61**	**529,456**
	Aluminum Storefront	1.40	11.01	219,039
	Doors & Hardward Install	0.14	1.09	21,652
	HMF Doors Special Lite & HDW	0.94	7.39	147,051
	Overhead Doors Material	3.39	26.61	141,713
09	**Finishes**	**5.82**	**45.75**	**910,144**
	Acoustical Ceilings	9.48	74.49	42,374
	Ceramic Tile	1.19	9.33	185,557
	Densglass Prosoco Rigid Insul	11.24	88.38	90,619
	Floor Covering	0.19	1.51	29,962
	Gypsum Wall Board	12.32	96.88	139,194
	Metal Stud Framing	1.46	11.49	228,617
	Painting & Finishing	1.24	9.74	193,820
10	**Specialties**	**7.01**	**55.10**	**1,096,207**
	Aluminum Slat System	0.12	0.91	18,169
	Canopies	6.54	51.41	1,022,793
	Exterior Signage Materials	0.15	1.21	24,128
	FEC T-Part T-Acc Corn Guards & Install	0.16	1.28	25,385
	Lockers Installed	0.04	0.29	5,732
11	**Equipment**	**9.05**	**71.11**	**1,414,702**
	Compressed Air System	0.87	6.82	135,663
	Energy Management	0.70	5.54	110,199
	Fuel Dispensers	3.38	26.55	528,265
	General Shop Equipment	0.03	0.26	5,157
	Lubrication Dispensing	1.33	10.44	207,687
	Vehicle Exhaust	0.36	2.82	56,021
	Vehicle Lifts	2.18	17.17	341,536
	Vehicle Wash	0.19	1.52	30,174
12	**Furnishings**	**0.26**	**2.08**	**41,315**
	Window Treatment	0.26	2.08	41,315
21	**Fire Suppression**	**1.16**	**9.10**	**181,066**
22	**Plumbing**	**4.01**	**31.55**	**627,695**
23	**HVAC**	**7.06**	**55.46**	**1,103,401**
26	**Electrical**	**10.31**	**81.03**	**1,612,103**
28	**Electronic Safety and Security**	**0.50**	**3.94**	**78,408**
	Total Interior Costs	**19.53**	**153.50**	**3,053,737**
	Total Building Costs	**100.00**	**786.05**	**15,637,772**

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FILE 22

In 2012, Casa Pacifica found themselves in critical need to expand their campus. Staples Construction was brought onboard to provide pre-construction services in collaboration with the design team for the Building New Foundations of Hope Capital Campaign. Over the following years the project team worked in partnership to develop a program.

The challenge presented to the project team from the start was to develop a design that preserved the current look and feel of the campus, provide the necessary space for Casa Pacifica's programmatic needs, and maintain an inviting and safe campus for the youth and staff. All aspects of the buildings and site improvements were carefully examined to ensure that the design/layout, materials, and systems selected were cost effective, durable, and maintenance-friendly. The proposed expansion and the construction sequencing/logistics strategy underwent several iterations to develop a comprehensive plan that allowed the project to break ground in January 2017.

The administration building included training, therapy, commercial kitchen, classroom, and a warehouse facility and broke ground in July of 2017. This building was originally designed to be three separate buildings. As a cost savings measure it was combined into one large building to maximize use of common/shared spaces (restrooms, break rooms, therapy space, conference rooms, etc.). This decision yielded a significant savings to the project and contributed to a more collaborative working environment for employees. In order to maintain a more secure facility for youth and staff, only one third of the building is openly accessible to youth while two-thirds of the building has limited accessibility.

In addition, the existing parking lot needed to be expanded to meet the County's parking mandates for the campus, as well as required upgrades to the electrical services to accommodate the additional load of the new buildings and any future expansions on campus. This work was successfully scheduled to minimize impact to the ongoing operations of Casa Pacifica.

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Code	Division Name	%	S F Cost	Projected
06	**Wood, Plastics, and Composites**	**15.20**	**33.41**	**809,134**
	Rough Carpentry	14.31	31.44	761,460
	Arch WW	0.90	1.97	47,674
07	**Thermal and Moisture Protection**	**1.36**	**3.01**	**72,844**
	DP & WP	0.35	0.78	18,833
	Thermal Protection	1.01	2.23	54,011
08	**Openings**	**5.70**	**12.53**	**303,613**
	Doors Frames & HW	2.70	5.94	143,734
	Specialty Doors & Frames	0.99	2.18	52,645
	Ent SF CW & Windows	1.89	4.16	100,694
	Roof Windows & Skylights	0.12	0.27	6,542
09	**Finishes**	**12.96**	**28.48**	**689,907**
	Plaster & Gyp Brd	4.99	10.96	265,330
	Tiling	1.96	4.30	104,169
	Ceilings	1.81	3.98	96,292
	Flooring	2.62	5.76	139,581
	Painting & Coating	1.59	3.49	84,535
10	**Specialties**	**0.75**	**1.65**	**40,127**
	Information	0.05	0.10	2,537
	Interior	0.65	1.43	34,737
	Safety	0.05	0.12	2,853
12	**Furnishings**	**0.95**	**2.10**	**50,757**
	Window Treatments	0.27	0.59	14,176
	Countertops	0.69	1.51	36,582
22	**Plumbing**	**5.05**	**11.10**	**268,864**
23	**HVAC**	**13.07**	**28.71**	**695,396**
26	**Electrical**	**14.95**	**32.86**	**795,881**
	Total Interior Costs	**36.92**	**81.18**	**1,966,382**
	Total Building Costs	**100.00**	**219.71**	**5,322,255**

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FILE 23

In 2012, Casa Pacifica found themselves in critical need to expand their campus. Staples Construction was brought onboard to provide pre-construction services in collaboration with the design team for the Building New Foundations of Hope Capital Campaign. Over the following years the project team worked in partnership to develop a program.

The challenge presented to the project team from the start was to develop a design that preserved the current look and feel of the campus, provide the necessary space for Casa Pacifica's programmatic needs, and maintain an inviting and safe campus for the youth and staff. All aspects of the buildings and site improvements were carefully examined to ensure that the design/layout, materials, and systems selected were cost effective, durable, and maintenance-friendly. The proposed expansion and the construction sequencing/logistics strategy underwent several iterations to develop a comprehensive plan that allowed the project to break ground in January 2017.

Construction began with the facility that was most needed on campus: the dormitory. The facility houses youth with co-occurring disorders (mental health and substance abuse). The dormitory has two wings, with eight rooms per wing. Each wing has a sizeable staff office, kitchen and laundry facilities, and a large common area with TV, dining, lounging, and gaming areas. One wing includes a 24/7 separate room/bathroom behind the staff office to isolate a youth temporarily for detoxing, or privacy during a crisis. The building was designed with thoughtful use of colors, textures, and materials to create a warm, therapeutic environment.

In addition to the two new buildings, the existing parking lot needed to be expanded to meet the County's parking mandates for the campus, as well as required upgrades to the electrical services to accommodate the additional load of the new buildings and any future expansions on campus. This work was successfully scheduled to minimize impact to the ongoing operations of Casa Pacifica and the construction of the new buildings.

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Code	Division Name	%	S F Cost	Projected
06	**Wood, Plastics, and Composites**	**14.75**	**43.20**	**380,430**
	Rough Carpentry	12.75	37.34	328,797
	Arch WW	2.00	5.86	51,633
07	**Thermal and Moisture Protection**	**1.21**	**3.56**	**31,357**
	DP & WP	0.02	0.06	607
	Thermal Protection	1.19	3.49	30,751
08	**Openings**	**7.31**	**21.40**	**188,474**
	Doors Frames & HW	4.15	12.15	106,985
	Ent SF CW Windows	3.16	9.25	81,489
09	**Finishes**	**18.55**	**54.32**	**478,323**
	Plaster & Gyp Brd	8.15	23.86	210,090
	Tiling	6.48	18.97	167,064
	Ceilings	0.26	0.77	6,712
	Painting & Coating	1.38	4.03	35,528
	Flooring	2.28	6.69	58,927
10	**Specialties**	**0.90**	**2.64**	**23,245**
	Information	0.03	0.09	804
	Interior	0.79	2.33	20,488
	Safety	0.08	0.22	1,953
12	**Furnishings**	**2.51**	7.35	64,716
	Window Treatments	0.80	2.33	20,506
	Countertops	1.71	5.02	44,211
22	**Plumbing**	**8.48**	**24.82**	**218,601**
23	**HVAC**	**7.14**	**20.90**	**184,079**
26	**Electrical**	**12.27**	**35.93**	**316,428**
	Total Interior Costs	**45.23**	**132.47**	**1,166,545**
	Total Building Costs	**100.00**	**292.88**	**2,579,103**

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FILE 24

The red brick "Galveston Water and Electric Light Station" was built in 1904 atop the buff limestone foundations of the earlier 1889 pump station that was destroyed in the 1900 hurricane.

The City of Galveston rehabilitated the Pump Station as a 6,800-square-foot community center for the rapidly expanding surrounding neighborhoods. Elements of the original pump station equipment, signage, and hardware are on display to inform visitors about the building's history. One of the original 1889 water tanks, east of the building, also remains.

The mortar joints on the exterior of the building were completely tuck pointed, and broken bricks were replaced with original bricks harvested from the rear wall of the building. Building cornices and pediments were originally made of sheet metal and, through the years, deteriorated due to exposure to the salt air from the Gulf of Mexico. They were replaced with fiberglass replicas cast from another Bulger building to keep the original style intact. The broken limestone on walls and entry stairs were replaced with Texas white limestone to match the originals.

This building originally contained two rooms: one for the electric generator, and the other for the water pumps. The main meeting room is surrounded by thirteen-foot-tall original double-hung wood windows and large cypress doors, which were removed, cleaned to bare wood, and repainted in the original 1904 color scheme. The floor contained pits which housed the water pumps that supplied Galveston with drinking water until the 2000s. The pits were filled and a new slab poured over the old openings. The interior color scheme is from renovations done to the building in the 1930s.

One of the highlights of the restoration is the installation of a glass panel floor over the old water pump wells, which will allow visitors to walk over and view the building's historic water pumps.

The rear room was converted into a catering corridor, public restrooms, and a smaller meeting room. A mezzanine was created over the restrooms for the new mechanical room.

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Code	Division Name	%	S F Cost	Projected
06	**Wood, Plastics, and Composites**	**1.88**	**12.07**	**82,234**
	Rough Carpentry	0.35	2.27	15,392
	Finish Carpentry	0.28	1.80	12,314
	Countertops	0.28	1.80	12,314
	Install Beams	0.05	0.33	2,243
	Add Hilti Anchors	0.01	0.05	366
	Replace Beam	0.23	1.46	9,930
	Replace Sill Plates	0.68	4.35	29,676
08	**Openings**	**8.02**	**51.61**	**351,534**
	Rebuild Doors & Windows	5.80	37.29	253,957
	New Doors & Windows	2.23	14.32	97,577
09	**Finishes**	**12.68**	**81.54**	**555,427**
	Interior Plaster Patching	1.69	10.84	73,879
	Metal Stud Framing	2.56	16.50	112,357
	Drywall	0.67	4.29	29,244
	Floor Tile at Assembly	2.02	13.02	88,654
	Restroom Tile	1.24	8.00	54,486
	Exterior Painting	0.63	4.07	27,704
	Interior Painting	2.11	13.56	92,348
	Continuous Brackets	0.02	0.15	1,004
	Add Wainscot Tile	0.10	0.61	4,175
	Add Wainscot Cap	0.07	0.47	3,205
	Additional Metal Stud Framing	0.06	0.38	2,651
	Patch Added Plaster	0.16	1.04	7,080
	Additional Paint & Tile	0.65	4.19	28,474
	Additional Patch Plaster	0.69	4.43	30,167
10	**Specialties**	**0.47**	**3.02**	**20,548**
	Toilet Accessories	0.14	0.91	6,157
	Toilet Partitions	0.33	2.11	14,391
22	**Plumbing**	**11.20**	**72.01**	**490,523**
23	**HVAC**	**11.59**	**74.56**	**507,916**
26	**Electrical**	**12.15**	**78.11**	**532,097**
27	**Communications**	**0.17**	**1.06**	**7,258**
28	**Electronic Safety and Security**	**0.34**	**2.16**	**14,703**
	Total Interior Costs	**23.05**	**148.24**	**1,009,742**
	Total Building Costs	**100.00**	**643.07**	**4,380,582**

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FILE 25

Architect Alison Beck, Freese and Nichols, describes the new campus center at Central Texas College as the campus living room. The college, based in Killeen, Texas, serves a commuter population drawn from the adjacent Fort Hood Army Base and surrounding communities of family members, base employees, and nearby residents. The campus center provides a place where students can study for a test in solitude or in groups, meet with friends, or get a cup of coffee. The 48,000-square-foot building is also where the School of Nursing (the college's largest class) can conduct graduation ceremonies in the second floor conference center, which accommodates 500 people. The Board of Trustees can host meetings and presentations for 100 people in the boardroom where full-service catering facilities can provide banquet services, and where students can browse for books and more in a campus bookstore four times the size of the store it replaced.

Located just south of the original 40-year-old student center, the new center features terra cotta roofs, an upstairs patio, and shaded arcades. The structure shares both the architectural vocabulary and a fresh perspective on the existing, Mediterranean-style campus buildings. A 4,000-square-foot pedestrian plaza that creates a dramatic multi-use space between the two buildings links the old student center and is scheduled for renovation. Tree-lined stairs on both sides of the campus center connect the plaza to new parking at the south entrance. The site utilizes native and adapted species of shade trees, multi-trunk flowering trees, shrubs, and groundcover on more than half the open space, providing open lawns and shaded areas with benches. Banded panels of brick pavers and decorative pedestrian-scale lighting with pole-mounted banners define the hard surfaces and edges of the plaza space while disguising an emergency-vehicle access lane as a pedestrian mall.

Inside the new student center is a grand staircase winding around the clock tower that graces the two-story dining hall. On the second floor, the conference center can house large events, or be subdivided into four smaller spaces for more flexibility. "Pre-function" areas at large events offer nooks for everyday use as study spaces.

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Code	Division Name	%	S F Cost	Projected
06	**Wood, Plastics, and Composites**	**2.17**	**11.70**	**567,953**
	HM Doors & Frames	0.22	1.20	58,441
	Wood Doors	0.13	0.72	34,132
	Hardware	0.85	4.58	222,904
	Installation	0.14	0.74	36,202
	Millwork	0.83	4.44	216,270
09	**Finishes**	**11.50**	**61.98**	**3,011,468**
	Acoustic & Specialty Ceiling	2.85	15.36	745,853
	Carpet	1.17	6.28	305,847
	Drywall, Studs & Plaster	3.21	17.31	839,988
	Floor Sealer	0.02	0.09	4,526
	Insulation	0.52	2.79	135,759
	Painting	0.56	3.05	147,738
	Ceramic Tile	2.94	15.82	768,660
	Resilient Tile	0.24	1.31	63,096
10	**Specialties**	**0.29**	**1.59**	**76,941**
	Fire Extinguishers & Cabinets	0.01	0.06	3,821
	Tackboard	0.00	0.01	1,202
	Toilet Accessories	0.05	0.27	12,956
	Toilet Partitions	0.10	0.55	26,492
	Wall Protection	0.12	0.68	32,471
11	**Equipment**	**8.63**	**46.52**	**2,260,265**
	Kitchen Equipment	8.35	44.99	2,185,980
	Tables	0.14	0.78	37,748
	Trench Drains	0.03	0.14	6,552
	Vending Storage	0.04	0.24	10,979
	Walk In Install	0.07	0.40	19,002
12	**Furnishings**	**0.27**	**1.46**	**71,112**
	Auditorium Seating	0.26	1.38	67,233
14	**Conveying Systems**	**0.89**	**4.79**	**232,790**
21	**Fire Suppression**	**0.55**	**2.97**	**144,315**
22	**Plumbing**	**3.60**	**19.39**	**942,528**
23	**HVAC**	**15.17**	**81.75**	**3,971,935**
26	**Electrical**	**11.56**	**62.31**	**3,027,149**
27	**Communications**	**1.81**	**9.77**	**474,277**
28	**Electronic Safety and Security**	**0.32**	**1.73**	**84,041**
	Total Interior Costs	**22.87**	**123.25**	**5,987,738**
	Total Building Costs	**100.00**	**538.88**	**26,180,402**

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FILE 26

The town's only elementary school, a pre-kindergarten through 6th grade facility serving 604 students, has seen significant enrollment increases in recent years. The 70,600-square-foot school is a one-story structure built in 1950 with three subsequent one-story additions. Flansburgh Architects was retained to conduct an extensive feasibility study to determine whether to replace or renovate the school.

Flansburgh Architects recommended retaining and renovating all portions of the school and adding 34,300 square feet of classroom, music, and support space. Twenty-two classrooms were added. Renovations include all-new HVAC systems utilizing the state-of-the-art displacement ventilation system. Also included are an expanded cafeteria, reconfigured kindergarten rooms, and library. Site improvements include a new baseball field, play areas, and expanded parking. The completed school addition complies with MA-CHPS (Massachusetts Collaborative for High Performance Schools), a certification which encompasses school design, construction and operation, energy and water use, lighting, temperature control, and acoustics.

In order to meet the pressing need for an aggressive design and construction schedule, Flansburgh employed two strategies: building the needed classroom addition using a precast concrete wall, floor, and roof system to minimize erection time so that it will be completed in only nine months; and utilizing the CM-at-Risk process to fast track the design and construction sequences. The site and foundation work were performed while the precast design was being finalized to save valuable time.

The project was constructed in six phases so that the school remained fully functioning. By completing the addition quickly, students will be moved while keeping the school fully functioning. The project was completed 9 months ahead of schedule

One of the advantages of using precast concrete panels was the variety of exterior choices available. To match the existing school, thin brick exterior was used, which eliminates the need for periodic sealing or tuck-pointing required with traditional brick. Precast building systems meet the criteria for high-performance school buildings. They provide acoustical superior sound isolation, low-lifetime maintenance, lower heating and cooling costs, and improved air quality.

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Code	Division Name	%	S F Cost	Projected
06	**Wood, Plastics, and Composites**	**2.98**	**8.33**	**874,879**
	Millwork	2.10	5.88	616,436
	Rough Carpentry	0.88	2.46	258,442
08	**Openings**	**2.10**	**5.88**	**616,436**
	Doors Frames Hardware	2.07	5.80	608,957
	Interior Glass	0.03	0.06	7,479
09	**Finishes**	**8.29**	**23.16**	**2,433,476**
	Acoustical Treatment	1.04	2.91	304,545
	Carpet	0.32	0.91	94,551
	Demobilization	0.01	0.03	3,324
	Drywall	2.16	6.03	632,809
	Finish Carpentry	0.47	1.32	138,047
	Flooring Miscellaneous	1.27	3.56	373,519
	Metal Framing	0.86	2.39	252,623
	Paint	1.51	4.24	444,657
	Tile	0.65	1.79	189,399
10	**Specialties**	**1.55**	**4.31**	**453,659**
	Acoustical Wall Panels	0.17	0.47	50,525
	Ceiling Diffusers	0.03	0.06	8,311
	Fire Extinguishers	0.02	0.05	5,818
	Locker	0.31	0.86	89,748
	Marker Tack Boards	0.48	1.34	141,270
	Operable Partition	0.19	0.51	54,845
	Projection Screens	0.03	0.09	9,140
	Signage	0.03	0.09	8,406
	Temp Partitions	0.04	0.12	10,305
	Toilet Partitions	0.26	0.72	75,288
11	**Equipment**	**0.26**	**0.73**	**76,452**
	Kitchen	0.26	0.73	76,452
12	**Furnishings**	**0.34**	**0.93**	**99,406**
	Window Treatment	0.34	0.93	99,406
21	**Fire Suppression**	**2.15**	**6.02**	**630,524**
22	**Plumbing**	**4.89**	**13.68**	**1,436,708**
23	**HVAC**	**21.08**	**58.93**	**6,189,030**
26	**Electrical**	**10.95**	**30.60**	**3,213,344**
	Total Interior Costs	**15.52**	**43.37**	**4,554,310**
	Total Building Costs	**100.00**	**279.50**	**29,354,195**

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FILE 27

A new high school was designed to accommodate an initial capacity of 1,200 students within a building of 209,000 square feet. The core facilities, HVAC, power, and technology systems have been constructed to accommodate the anticipated expansion to 1,600 students. The architectural massing of this two-story school is tucked into the rolling landscape of a 92 acre site. Other benefits are realized by situating the lower level partially in grade. Grade access for both levels is provided. Construction systems include spread footings, steel frame, brick and metal panel skin, aluminum doors and windows and an adhered EPDM roof membrane. Interior partitions are painted concrete block and impact resistant gypsum wallboard. Floor finishes include VCT, terrazzo, and epoxy materials. Lighting systems strive for energy efficiency and ease-of-maintenance.

Site improvements include a football field and running track, softball and baseball fields, soccer and practice fields, six tennis courts, and a continuation of a greenway path. Separate access is provided for automobile and school bus drop-off and parking. Road improvements include the re-engineering of a nearby state road and the realignment of its main road including a signalization package. Cascading retention basins, emergency vehicular access, robust landscape buffering, rain gardens and accommodations for additional development are provided.

Educational spaces and amenities include forty-one standard classrooms; five science lab suites; a 1,200-seat auditorium with full production capabilities supported by 2D and 3D art rooms, stagecraft workroom and storage, choral and instrument rehearsal rooms, keyboard classroom and individual practice rooms; a competition gym, an auxiliary gym and cardiac room supported by locker rooms and offices for the physical education program as well as home and visiting teams; a cafeteria seating 400 with a contemporary servery and a full service kitchen; an intermediate unit, guidance, administration and student activities suites; a library suite with a distance learning classroom. Unique to this Catholic high school is the chapel suite that accommodates 70 students, a sacristy, reconciliation room and school minister's office.

The high school affords the staff and students accessible technologies in the form of unique data, IP-based multi-media, VOIP communications, public address, physical security, point of sale and video surveillance systems. All systems platforms are fully integrated and employ a standardized topography utilizing IP-based technologies. HVAC systems include a dual fuel/dual boiler, dual chiller two pipe hydronic design serving VAV and fancoil units. The administration, auditorium and gymnasium suites operate independently reflecting the facility's ability to zone energy usage and physical access for after school operation.

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Code	Division Name	%	S F Cost	Projected
06	**Wood, Plastics, and Composites**	**0.44**	**1.79**	**374,395**
	Finish Carpentry	0.44	1.79	180,730
08	**Openings**	**2.10**	**8.65**	**1,803,194**
	Frames	0.87	3.57	745,746
	Doors Hardware	0.69	2.85	595,456
	Doors Hardware, heavy duty	0.18	0.74	156,000
	Door Hardware, exterior	0.30	1.22	253,807
	Interior Glass	0.06	0.26	52,187
09	**Finishes**	**7.99**	**32.84**	**6,844,335**
	Acoustical Ceilings	0.75	3.08	641,809
	Carpet & Flooring	0.53	2.19	455,452
	Ceramic & Terrazzo	2.58	10.60	2,206,625
	Drywall & Metal Studs	1.59	6.54	1,364,338
	Recreational Flooring	1.45	5.95	1,241,541
	Painting	0.67	2.76	573,112
	Stage Floors	0.02	0.09	19,025
	Stage Floors	0.40	1.64	342,436
10	**Specialties**	**0.67**	**2.76**	**572,627**
	Visual Display Surfaces	0.09	0.40	79,901
	Interior Signage	0.02	0.09	18,074
	Toilet Compartments	0.13	0.55	114,145
	Corner Guards	0.02	0.06	14,267
	Toilet Accessories	0.10	0.41	85,609
	Lockers	0.30	1.24	260,631
11	**Equipment**	**1.73**	**7.13**	**1,486,340**
	Recreational Equipment	0.25	1.01	211,412
	Kitchen Equipment	1.02	4.17	871,616
	Projection Screens	0.02	0.06	13,317
	Stage Equipment	0.46	1.87	389,994
12	**Furnishings**	**2.39**	**9.83**	**2,048,052**
	Window Shades	0.12	0.49	105,583
	Casework	1.38	5.64	1,179,223
	Entrance Mats	0.02	0.06	15,599
	Laboratory Casework	0.87	3.58	747,651
21	**Fire Suppression**	**1.04**	**4.29**	**891,204**
22	**Plumbing**	**4.73**	**19.44**	**4,053,320**
23	**HVAC**	**7.30**	**30.03**	**6,257,614**
26	**Electrical**	**12.68**	**52.11**	**10,860,013**
27	**Communications**	**3.54**	**14.54**	**3,030,547**
28	**Electronic Safety and Security**	**0.81**	**3.32**	**692,477**
	Total Interior Costs	**15.32**	**63.00**	**13,128,947**
	Total Building Costs	**100.00**	**411.08**	**85,677,678**

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FILE 28

This design-build project included the removal of portions of the existing Student Union Facility and construction of 47,500 square feet of new space, as well as the conversion of the existing 24,000-square-foot bookstore into an event space.

The vision for the new University Student Center was to provide a fulfilling experience and the resources necessary to allow for student success. The environment was designed to ignite campus pride and improve student life. And students, no matter their demographic, will find their niche within the space.

The building is now a place where the student body can be engaged, empowered, and transformed. The Student Union is the heart of the university, and characterized by modern design and sustainable practices. The building met the goal of becoming a place where students can be collaborative, creative, and comfortable. It is the foundation of the new Stanislaus State.

The program for the project included lecture halls, theater space, offices, and food service vendor spaces.

The Technology Services included are: Campus Site Utility Coordination; Outside Plant Design Distribution (WAN); Information Technology Infrastructure (LAN); Wi-Fi Systems Design (WLAN); Security Design; and Audio-Visual Design.

Sustainable Building Features include: Dynamic daylight via glazing type, orientation, and shading; Improved envelope with limited thermal short circuits; Color-corrected LED lighting to maintain human circadian rhythms; Continuous indoor air quality monitoring for health awareness; Photovoltaic systems integrated with the building and/or landscape as an aesthetic feature; and Storm water collection and/or reuse to introduce/experiment with new concepts.

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Code	Division Name	%	S F Cost	Projected
06	**Wood, Plastics, and Composites**	**2.37**	**17.49**	**1,285,881**
	General Conditions	0.21	1.59	117,295
	Casework	0.60	4.40	323,509
	Seating	1.56	11.50	845,077
	Seating, special	0.60	4.40	323,497
08	**Openings**	**6.73**	**49.65**	**3,649,363**
	Aluminum Storefront & Entrances	0.72	5.30	389,602
	Change Orders	0.97	7.18	527,769
	Doors	0.82	6.06	445,458
	Frames	0.62	4.56	335,303
	Glass & Glazing	2.59	19.10	1,403,611
	Hardware	0.96	7.06	518,902
	General Conditions	0.05	0.39	28,718
09	**Finishes**	**16.20**	**119.55**	**8,786,953**
	Change Orders	0.58	4.27	313,565
	Drywall	8.98	66.27	4,870,593
	Flooring	3.32	24.51	1,801,152
	General Conditions	0.15	1.10	80,703
	Paint & Wall Coverings	1.00	7.37	541,965
	Tile	1.42	10.45	768,214
	Wall Panels	0.76	5.59	410,762
10	**Specialties**	**1.93**	**14.27**	**1,048,921**
	Corner Guards	0.02	0.15	11,137
	Partitions	0.74	5.44	399,928
	Signage	0.53	3.89	285,604
	Toilet Partitions	0.29	2.14	157,154
	Equipment	0.27	1.96	144,172
	Change Orders	0.09	0.69	50,925
11	**Equipment**	**0.13**	**0.96**	**70,714**
	Appliances	0.10	0.75	55,471
	Loading Dock Bumpers	0.01	0.05	3,423
	Change Orders	0.02	0.16	11,820
12	**Furnishings**	**0.97**	**7.15**	**525,757**
	Shades	0.68	5.04	370,118
	Furniture	0.29	2.12	155,639
14	**Conveying Systems**	**0.41**	**3.06**	**224,771**
	Elevator Engineering	0.41	3.06	224,771
21	**Fire Suppression**	**1.06**	**7.86**	**577,466**
22	**Plumbing**	**2.19**	**16.19**	**1,190,080**
23	**HVAC**	**10.70**	**79.00**	**5,806,535**
26	**Electrical**	**10.90**	**80.42**	**5,910,781**
27	**Communications**	**0.71**	**5.24**	**385,071**
28	**Electronic Safety and Security**	**0.96**	**7.09**	**520,752**
	Total Interior Costs	**28.74**	**212.13**	**15,592,360**
	Total Building Costs	**100.00**	**737.98**	**54,241,363**

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FILE 29

John Dewey, at the turn of the 20th century, put forth a vision for modern education and reimagined a future in which schools "carefully balance the delivery of knowledge and learning through active inquiry". John S. McCain III Elementary, the only school to be named after the late senator, embraces and epitomizes these ideals.

The school is designed to support the C-STEM curriculum and also fosters social and emotional learning. A community-led, collaborative, co-creation process was utilized to establish a design direction, embed the school into its larger context, and set up the school district for future success.

JSM III is a learning community-based organization. There are three learning communities initially operated along traditional age-based grade bands. They can easily adapt to an ability-based cohort organized around pedagogies involving teacher facilitated-student directed learning. The learner-centric communities feature multi-dimensional infrastructures that support brainbased learning modalities, and offer a high degree of flexibility, variety, and collaborative opportunities at multiple scales.

High performance and biophilic design principles such as ample natural light, views, access to the outdoors, and balance of prospect and refuge, help cater to occupant wellness while creating a solid foundation for higher order learning.

The life, legacy, and ethics of Senator McCain are embedded through a branding strategy employing computational design, as traits for students to unpack through the course of their development and growth at the school.

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Code	Division Name	%	S F Cost	Projected
06	**Wood, Plastics, and Composites**	**1.81**	**8.00**	**760,459**
	Rough Carpentry	0.38	1.69	160,248
	Millwork	1.43	6.32	600,211
08	**Openings**	**10.12**	**44.71**	**4,247,715**
	Skylights	0.16	0.72	68,206
	Translucent Panels	1.49	6.59	625,749
	Caulking & Sealants	0.26	1.14	108,508
	Door Frames & Hardware	2.58	11.42	1,084,905
	Overhead Doors	0.08	0.37	35,149
	Glass & Glazing	3.64	16.09	1,528,243
	Operable Glass Partitions	1.90	8.39	796,956
09	**Finishes**	**12.01**	**53.08**	**5,042,610**
	Framing & Drywall	5.45	24.09	2,288,844
	Tile	0.94	4.17	395,866
	Acoustical Assemblies	2.78	12.26	1,164,842
	Flooring	1.97	8.68	824,859
	Paint	0.88	3.88	368,200
10	**Specialties**	**1.38**	**6.10**	**579,649**
	Specialties	0.72	3.17	301,433
	Signage	0.66	2.93	278,216
11	**Equipment**	**2.79**	**12.34**	**1,172,482**
	Athletic	0.62	2.75	261,020
	Food Service	2.04	9.00	854,777
	Theatrical	0.14	0.60	56,685
14	**Conveying Systems**	**0.31**	**1.37**	**130,361**
	Elevators	0.31	1.37	130,361
21	**Fire Suppression**	**0.68**	**3.02**	**287,209**
22	**Plumbing**	**3.20**	**14.15**	**1,343,838**
23	**HVAC**	**6.90**	**30.48**	**2,895,696**
26	**Electrical**	**9.19**	**40.60**	**3,857,306**
28	**Electronic Safety and Security**	**1.39**	**6.13**	**582,491**
	Total Interior Costs	**28.42**	**125.60**	**11,933,276**
	Total Building Costs	**100.00**	**441.84**	**41,974,585**

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FILE 30

Creative Hands Art Studio needed an inspiring space that could accommodate their growth, while not breaking the budget. Gabbert Architects Planners used creativity, ingenuity, and imagination to meet the client's lofty dreams on a development-pressured site. The result is an awe inspiring space where kids can explore their creativity in an eye-catching, airy building.

Dr. Rinkle Shah saw that kids found connection to themselves, each other, their community, and their heritage through art, ceramics, and pottery. She started her studio in a small retail tenant space and after three long years in planning, design, and construction, her dream became a reality in her new, double-height, open-plan studio. "The building reaches out to the community in the same way that her business has, and we used her story to inspire the design," the architect noted.

"The zoning required that a minimum of 50% of the site area be developed," the design planner stated. "They want the whole area to be much more urban."

The design team went on to observe that, while Dr. Shah plans to further develop the site, the project couldn't wait 5 years for master planning and development. "We needed to find a solution that would allow her to move her growing studio quickly," the architect said. What happened? They proposed an addition to a 1950s wood-framed building.

The design is a heavy timber super-structure around the existing building with open-web roof trusses set off with glass and dramatic angles. It's an inspirational modern building that sets a theme for what is to come to the corridor peppered with small shops, food trucks, and 50-year-old strip malls.

Dr. Shah wanted a space that connected to the site, captured views of nature, and let in plenty of natural light. In addition, the space needed to be open and feel lively so that the kids could connect through different types of arts and crafts. "We were also tasked with creating flexible classrooms that could be intimate for smaller groups or really opened up for large classes outside of the main space," the designer added. "The structural concept allowed us to showcase the gluelaminated beams and columns in a way that nods to the contemporary-industrial aesthetic. It's the steel-concrete-and-glass feel, but we substituted wood to bring warmth and inspiration to the creative spaces," the architect told us.

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Code	Division Name	%	S F Cost	Projected
06	**Wood, Plastics, and Composites**	**12.51**	**30.57**	**183,929**
	Framing Materials	9.25	22.61	136,009
	Trusses Sheathing	2.78	6.78	40,809
	Framing & Lumber Labor	0.48	1.18	7,111
08	**Openings**	**8.73**	**21.32**	**128,278**
	Hollow Metal Wood Doors	1.00	2.45	14,717
	Garage Door	0.67	1.63	9,811
	Storefront	6.68	16.31	98,113
	Vinyl Windows	0.38	0.92	5,519
	Door Change Order	0.01	0.02	118
09	**Finishes**	**3.52**	**8.60**	**51,755**
	Drywall	2.09	5.10	30,660
	Acoustical Ceilings	0.33	0.82	4,906
	Rubber Base	0.10	0.24	1,472
	Painting Interior	0.50	1.22	7,358
	Painting Exterior	0.50	1.22	7,358
10	**Specialties**	**7.63**	**18.65**	**112,217**
	Canopies on North and South	1.25	3.06	18,396
	Cable Guardrails	1.42	3.47	20,849
	Exterior Signage	1.67	4.08	24,528
	Fire Extinguishers & Cabinets	0.08	0.20	1,226
	Knox Box	0.08	0.20	1,226
	Toilet Accessories	0.13	0.31	1,840
	Operable Partition	3.00	7.34	44,151
11	**Equipment**	**0.17**	**0.41**	**2,453**
	Washer Dryer	0.17	0.41	2,453
22	**Plumbing**	**3.51**	**8.58**	**51,632**
23	**HVAC**	**13.40**	**32.74**	**196,973**
26	**Electrical**	**12.85**	**31.40**	**188,907**
27	**Communications**	**0.28**	**0.68**	**4,110**
28	**Electronic Safety and Security**	**1.53**	**3.74**	**22,528**
	Total Interior Costs	**32.56**	**79.55**	**478,632**
	Total Building Costs	**100.00**	**244.32**	**1,469,845**

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FILE 31

The construction of the new student housing and dining commons on the east end of the Cal State San Bernardino campus was the largest single capital project in university history.

With 416 beds, the student housing development is the initial phase of a larger community that will be developed at CSUSB as enrollment grows. This residential community will eventually serve about 1,200 more students.

This phase was targeted to meet the needs of entering first-year students and is the first new housing community specifically designed to serve their needs since Serrano Village opened in 1972.

In addition to the new housing units for students, the community dedicated space for student advising and academic support, the Honors Program, two Faculty-in-Residence apartments, a community kitchen, multipurpose meeting rooms, and is the administrative home of the university's Department of Housing and Residential Education.

The new dining commons is a two level, multi-faceted campus dining facility with a capacity of nearly 700 customers. Two dining experiences are available in this location.

The first offers an all-you-care-to-eat dining hall featuring a range of dining cuisines, including a grill, sandwiches/salads, display cooking, and a number of international choices. Seating is on multiple levels, including two enclosed outdoor locations, meeting rooms that can be reserved for groups and guests, and a faculty/staff collaboration dining room.

The second venue in the new dining commons is a cash-and-carry operation, as well as an enhanced convenience store. CSUSB's first planned late-night dining location, it offers sandwiches and grill-style cash options all day, providing an exciting place for the campus community to gather into the evening.

As with all campus housing, the project was funded through the rental rates of students living in the residence halls. No state general fund dollars were committed to this project.

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Code	Division Name	%	S F Cost	Projected
06	**Wood, Plastics, and Composites**	**0.97**	**5.50**	**589,418**
	Arch Woodwork	0.97	5.50	589,418
08	**Openings**	**4.07**	**23.02**	**2,468,904**
	Auto Door	0.06	0.32	34,675
	Curtain Wall	0.22	1.24	132,494
	Door & Frames	1.12	6.31	677,183
	Door Hardware	1.45	8.21	880,466
	Louvers	0.05	0.26	28,069
	Storefront	0.38	2.16	231,447
	Sunshades	0.13	0.73	78,038
	Windows	0.67	3.79	406,532
09	**Finishes**	**10.07**	**57.00**	**6,113,464**
	Acoustical	0.99	5.62	603,231
	Carpet	0.96	5.44	583,808
	Drywall	3.65	20.64	2,214,107
	Gypsum Concrete Sealer	0.02	0.13	13,593
	Metal Framing	0.75	4.27	457,609
	Painting	0.88	4.98	533,823
	Tile	1.43	8.10	868,993
	Wall Panels	1.38	7.82	838,300
10	**Specialties**	**1.17**	**6.64**	**711,914**
	Accessories	0.47	2.66	285,191
	Partitions	0.30	1.71	183,230
	Signage	0.13	0.76	81,963
	Shower Compartments	0.27	1.51	161,531
11	**Equipment**	**0.11**	**0.61**	**65,621**
	Food Service	0.11	0.61	65,621
14	**Conveying Systems**	**1.11**	**6.31**	**676,729**
	Elevators	0.96	5.42	581,808
	Facility Chutes	0.16	0.88	94,921
21	**Fire Suppression**	**1.41**	**7.97**	**855,144**
22	**Plumbing**	**3.75**	**21.21**	**2,275,181**
23	**HVAC**	**9.97**	**56.45**	**6,054,496**
26	**Electrical**	**10.52**	**59.54**	**6,386,418**
	Total Interior Costs	**17.49**	**99.07**	**10,626,051**
	Total Building Costs	**100.00**	**566.20**	**60,730,394**

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FILE 32

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Code	Division Name	%	S F Cost	Projected
06	**Wood, Plastics, and Composites**	**1.80**	**15.76**	**762,147**
	Arch Woodwork Submittals Eng Project Mgt	1.80	15.76	762,147
08	**Openings**	**6.40**	**55.94**	**2,326,395**
	Auto Door Openers	0.07	0.57	27,472
	Curtain Wall	2.45	21.43	1,036,393
	Doors & Frames	1.06	9.26	447,588
	Glass	0.38	3.33	161,204
	Interior Storefront	0.70	6.11	295,235
	Mirrors	0.08	0.67	32,592
	Polycarbonate Wall	0.17	1.49	72,007
	Translucent Panel	0.60	5.25	253,905
09	**Finishes**	**12.70**	**110.96**	**5,365,740**
	Acoustical	1.52	13.28	642,162
	Carpet & Resilient Flooring	0.44	3.81	184,476
	Drywall	4.92	42.97	2,077,984
	Metal Framing	1.92	16.79	811,894
	Painting & Wall Covering	0.62	5.37	259,916
	Tile	3.29	28.73	1,389,308
10	**Specialties**	**0.49**	**4.28**	**207,154**
	Partitions	0.06	0.53	25,656
	Shower Compartments	0.05	0.47	22,584
	Signage	0.15	1.29	62,347
	Specialties	0.23	2.00	96,567
11	**Equipment**	**15.54**	**135.80**	**6,566,929**
	Custom Stone	0.47	4.07	197,035
	Fire Suppression	0.62	5.41	261,611
	Kitchen Equipment	14.00	122.37	5,917,375
	Loading Dock	0.04	0.34	16,326
	Millwork	0.41	3.61	174,581
14	**Conveying Systems**	**0.30**	**2.66**	**128,778**
	Conveying Systems	0.30	2.66	128,778
21	**Fire Suppression**	**0.76**	**6.62**	**320,321**
22	**Plumbing**	**4.81**	**42.07**	**2,034,424**
23	**HVAC**	**9.43**	**82.42**	**3,985,865**
26	**Electrical**	**12.60**	**110.08**	**5,323,434**
	Total Interior Costs	**37.23**	**325.40**	**15,357,143**
	Total Building Costs	**100.00**	**873.81**	**42,255,522**

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FILE 33

The architects at Long & Associates had the incredible opportunity to design a remarkable 500-student station building addition for Spoto High School. Situated on their expansive 53-acre school site, Long & Associates' goal was to seamlessly integrate this addition into the existing campus fabric while enhancing its functionality and aesthetics.

Long's design encompassed several key aspects. First, they upgraded the Chiller Plant to accommodate the additional loads, ensuring optimal performance and comfort. Additionally, they strategically rerouted major site utilities around the new building footprint, carefully considering efficiency and accessibility.

To maintain a cohesive architectural harmony, Long paid meticulous attention to detail in the tilt wall panel design. Each fenestration was thoughtfully placed to match the existing school's aesthetic, creating a harmonious blend that adds to the overall campus fabric.

Inside the new addition, Long created a diverse range of educational facilities. These included 20 classrooms catering to specific disciplines such as Culinary Arts, Chemistry Labs, Biology Labs, Multipurpose Classrooms, Teacher Planning, Vertical Circulation, and dedicated support spaces. Their priority was to provide a safe environment for students, so each classroom features operable emergency escape windows and a discreet Shadow Zone design. In the unlikely event of an active security event, students can find a secure, concealed area within the classroom that remains out of sight from the door lite. This unique feature is visually indicated by a distinct flooring pattern, ensuring both students and faculty can easily identify and utilize the safe haven.

Furthermore, Long integrated the latest technology and teaching systems into each classroom, aligning them with the campus curriculum — touch screen televisions, digital tools, alerting systems, and integrated cameras to support modern teaching methods and enhance the learning experience.

Long & Associates takes great pride in their architectural design and commitment to excellence. The Spoto High School project allowed them to showcase their expertise in creating functional spaces that blend with the existing campus while prioritizing safety and incorporating advanced technology. Long feels it was a privilege to contribute to the transformation of Spoto High School into an inspiring and innovative educational environment.

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Code	Division Name	%	S F Cost	Projected
08	**Openings**	**5.92**	**22.65**	**702,381**
	Doors Frames Hardware	1.40	5.37	166,613
	Glass & Glazing	6.61	25.30	784,725
	Window Treatment	0.11	0.43	13,397
	Change Orders	(2.21)	(8.46)	(262,354)
09	**Finishes**	**10.85**	**41.51**	**1,287,493**
	Framing Drywall & Stucco	7.04	26.93	835,283
	Hard Tile	1.15	4.39	136,217
	Acoustical Ceilings	0.96	3.68	113,989
	Resilient Flooring	2.18	8.34	258,562
	Painting	1.18	4.52	140,226
	Final Cleaning	0.15	0.56	17,289
	Change Orders	(1.80)	(6.90)	(214,072)
10	**Specialties**	**0.49**	**1.88**	**58,232**
	Misc Specialties	0.54	2.07	64,125
	Signage	0.12	0.47	14,669
	Change Orders	(0.17)	(0.66)	(20,562)
11	**Equipment**	**0.16**	**0.60**	**18,644**
	Food Service	0.16	0.60	18,644
12	**Furnishings**	**1.25**	**4.78**	**148,329**
	Visual Display Boards	0.26	1.01	31,181
	Laboratory Casework	3.63	13.87	430,269
	Change Orders	(2.64)	(10.10)	(313,121)
21	**Fire Suppression**	**0.80**	**3.05**	**94,726**
22	**Plumbing**	**4.81**	**18.41**	**570,977**
23	**HVAC**	**17.00**	**65.05**	**2,017,391**
26	**Electrical**	**17.57**	**67.20**	**2,084,115**
	Total Interior Costs	**18.67**	**71.42**	**2,215,079**
	Total Building Costs	**100.00**	**382.56**	**11,864,280**

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FILE 34

Campus officials, community members, and the construction and design team celebrated the groundbreaking of California State University, San Bernardino's new Center for Global Innovation (CGI) building of the College of Extended Learning (CEL).

Sundt is the Construction Manager at Risk for the $55 million project. The firm constructed a 71,000-square-foot, three story classroom and administrative office building. The new building provides a centralized location for international students, allows opportunities for them to integrate more with the general student population, and enriches student and academic life.

The event, held inside due to strong winds, was attended by campus administrators, including President Tomas D. Morales; Vice President for Administration and Finance, Douglas Freer; and San Bernardino Mayor R. Carey Davis. College of Extended Learning Dean Tatiana Karmanova talked about the tremendous positive impact the new facility will have on the college and the CSUSB campus.

CGI includes 24 classrooms, a 250-seat auditorium, reconfigurable multipurpose rooms, study lounges, retail food services, and spaces for hosting indoor and outdoor special programs. Sustainable building features include extensive use of natural lighting and ventilation, energy efficient LED lighting with smart controls, water efficient plumbing, and energy efficient windows.

"We are excited to build this new hub of student life at Cal State San Bernardino," said Sundt Project Executive Betty Lynn Senes. "Sundt Construction is all about continual learning, and the College of Extended Learning serves the local population — from high school to professionals seeking to advance to retirees — providing a rich educational experience for the diverse population of CSUSB students."

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Code	Division Name	%	S F Cost	Projected
06	**Wood, Plastics, and Composites**	**1.51**	**11.70**	**853,639**
	Finish Carpentry	1.51	11.70	853,639
08	**Openings**	**8.93**	**69.12**	**5,041,211**
	Curtainwall	2.11	16.31	1,189,662
	Doors & Frames	1.52	11.78	859,105
	Glass Railings	1.43	11.04	805,409
	Glazing	1.29	9.98	727,564
	Hardware	0.43	3.32	241,825
	Miscellaneous	2.02	15.61	1,138,328
	Storefronts	0.57	4.40	321,145
09	**Finishes**	**13.74**	**106.36**	**7,756,919**
	Acoustical	2.69	20.78	1,515,559
	Drywall	1.75	13.51	985,467
	Fireproofing	0.56	4.30	313,817
	Flooring	1.55	12.02	876,874
	Insulation	0.50	3.87	282,262
	Metal Framing	1.82	14.08	1,027,157
	Miscellaneous	0.08	0.63	45,940
	Paint	2.12	16.42	1,197,813
	Tile	0.63	4.86	354,219
10	**Specialties**	**1.36**	**10.49**	**764,902**
	Elevator Smoke Containment	0.17	1.34	97,666
	Signage	0.17	1.33	96,683
	Smoke Curtains	0.12	0.92	67,153
	Specialties	0.89	6.90	503,401
12	**Furnishings**	**0.18**	**1.39**	**101,713**
	Window Coverings	0.18	1.39	101,713
14	**Conveying Systems**	**1.07**	**8.27**	**603,074**
	Conveying Systems	1.07	8.27	603,074
21	**Fire Suppression**	**0.97**	**7.53**	**549,161**
22	**Plumbing**	**1.72**	**13.28**	**968,456**
23	**HVAC**	**5.36**	**41.49**	**3,025,716**
26	**Electrical**	**10.58**	**81.91**	**5,973,823**
	Total Interior Costs	**26.79**	**207.33**	**15,121,458**
	Total Building Costs	**100.00**	**773.87**	**56,439,777**

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FILE 35

Vega Collegiate Academy is a charter school facility in Aurora, Colorado, that provides excellent educational opportunities for a diverse range of economically disadvantaged students.

Vega outgrew their leased church space but still wanted to provide a quality educational option in the local underserved community. After looking at multiple locations they landed on the old manufacturing facility for Eagle Claw Fish Hooks.

Unified Building Group worked with the architect, the city of Aurora and the state of Colorado to redevelop the existing building and revitalize the corner of 14th and Yosemite.

The main focus was to create a stimulating space conducive to engaging the children's imagination and excitement for learning with the goal of securing a successful future for every child in the community.

The extensive scope started with demolishing an existing storage building in the future parking lot, and took the entire building structure back to its shell.

Scheduling was a huge challenge given the scope of the project and the time constraints for the building to be open to welcome students at the beginning of the school year.

Asbestos abatement had to be completed before the new mechanical, electrical and plumbing systems went in. A new fire suppression & alarm system was designed and installed. An elevator was retrofitted into an existing shaft.

Unified Building Group really enjoyed working on this project having been active in the construction of education facilities for over 25 years in Florida and Colorado. When building all types of facilities, particularly schools, they are especially aware of the need for safely delivering a fast turnaround without compromise in quality, efficiency or cost.

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Code	Division Name	%	S F Cost	Projected
06	**Wood, Plastics, and Composites**	**0.13**	**0.14**	**9,351**
	Finish Carpentry	0.13	0.14	9,351
08	**Openings**	**11.25**	**12.89**	**835,506**
	Doors & Frames	0.82	0.94	60,949
	Specialty Doors & Frames	0.61	0.70	45,576
	Entrances Storefronts & Curtain Walls	2.11	2.42	156,608
	Windows	7.13	8.17	529,117
	Hardware	0.42	0.48	31,092
	Openings	0.16	0.19	12,164
09	**Finishes**	**13.79**	**15.80**	**1,023,974**
	Plaster & Gypsum Board	5.50	6.30	408,167
	Ceilings	1.55	1.77	114,795
	Flooring	4.67	5.36	347,135
	Painting & Coating	2.07	2.37	153,877
10	**Specialties**	**0.19**	**0.22**	**14,414**
	Information	0.19	0.22	14,414
14	**Conveying Systems**	**5.40**	**6.19**	**400,856**
	Elevators	5.40	6.19	400,856
21	**Fire Suppression**	**5.35**	**6.13**	**397,487**
22	**Plumbing**	**8.41**	**9.63**	**624,160**
23	**HVAC**	**9.79**	**11.22**	**727,141**
26	**Electrical**	**12.90**	**14.78**	**957,679**
28	**Electronic Safety and Security**	**1.60**	**1.83**	**118,735**
	Total Interior Costs	**30.76**	**35.24**	**2,284,101**
	Total Building Costs	**100.00**	**114.60**	**7,425,956**

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FILE 36

This project included the demolition of the old student center. This entailed removing and replacing exterior brick veneer entry columns, landscape, interior walls, finishes, interior brick veneer/columns, ceilings, lighting, handicap ramp, and stairs that were built back in the early 1980s by McAnaw Construction and remodeled in 2017-2018 by McAnaw almost 38 years later.

Construction started in the middle of 2017, which included the interior remodel and exterior site work on the property, all while keeping the existing school building open until the new Student Center was complete.

The exterior has aluminum storefront doors and windows, and aluminum windows that were cut in on the north side of the facility, brick veneer and a single ply membrane roof. The interior has faculty offices, faculty break room, restroom partitions, metal studs and drywall with wood planks, and aluminum storefront doors/window partitions at the offices.

The interior itself gives a sense of openness due to multiple glass doors and large glass windows, and pendant linear LED lighting. Ornamental railings and carpet tile floor patterns, along with large vinyl tile thru-out the facility, provide contrast and visibility.

Painted ceilings and soffits along with wood planks cover walls for durability and contrasting design. When you enter the student center there is a new reception desk and seating area for the students, along with a raised floor area with a new open office system adjacent to the main entry for faculty.

The new networking area includes a new state-of-the art seating area for students to be able to sit with their laptops and work on their studies with full internet access.

This project is just one of the many interior remodels that KKT Architects and McAnaw Construction have done with Tri County Technology Center over the last several years. By updating the facility to meet today's technology standards and modernize the environment, the students are giving the faculty a revitalized sense of accomplishment.

Overall, the project was a great success for Tri County Technology Center faculty and students.

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Code	Division Name	%	S F Cost	Projected
06	**Wood, Plastics, and Composites**	**6.29**	**16.01**	**112,050**
	Millwork	4.13	10.52	73,646
	General Carpentry	2.16	5.49	38,404
08	**Openings**	**7.55**	**19.20**	**134,415**
	Steel Doors & Frames	0.17	0.44	3,013
	Wood Doors	0.26	0.65	4,595
	Aluminum Entrances & Storefront	4.96	12.63	88,434
	Door Hardware	2.05	5.22	36,602
	Door Hardware Install	0.10	0.26	1,773
09	**Finishes**	**23.02**	**58.59**	**410,094**
	Metal Studs Drywall Ceilings	12.09	30.77	215,406
	Flooring Tile Base	9.08	23.09	161,665
	Painting	1.85	4.72	33,024
10	**Specialties**	**3.69**	**9.40**	**65,747**
	Specialties	1.13	2.88	20,145
	Signage	2.56	6.52	45,603
12	**Furnishings**	**0.31**	**0.79**	**5,548**
	Window Coverings	0.31	0.79	5,548
22	**Plumbing**	**1.48**	**3.78**	**26,388**
23	**HVAC**	**2.44**	**6.22**	**43,508**
26	**Electrical**	**12.30**	**31.31**	**219,150**
	Total Interior Costs	**40.86**	**103.99**	**727,854**
	Total Building Costs	**100.00**	**254.45**	**1,781,166**

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FILE 37

The original concrete facility has undergone a metamorphosis into an open and inviting destination that consolidates everything a campus needs: academic resources, wellness activities, varied study environments, and social interactions — in a completely new setting

The initial building was constructed in the 1950s, before the need for stringent seismic codes and fire sprinklers. The CM Team preserved and renovated the existing building while school was in session. With their efforts, the project met budget constraints as well as responding to the University's stringent sustainability goals.

The renovation resulted in up to 90% less embodied carbon than would have occurred if building a similar, new facility. Exposing and polishing the original concrete floors and opening the ceilings reduced waste typically generated during construction. New, efficient mechanical, lighting, and window systems have been shown to reduce energy consumption by 36% (compared with a similar facility).

A new glassed-in student lounge atop columns redefines the entry, offering the renovated building a new look, and adding to its popularity on campus. A main stairway filled with natural light and an enticing courtyard adds a sense of welcome and respite to students.

Classrooms and labs that were once dark and dank have been modernized as day-lit, dynamic spaces that pull students to a bevy of alcoves and relaxed seating arrays. Even the basement, once shunned, is full of students creatively working in the art studios and laboratories.

The renovation required intricate seismic upgrades, fire sprinklers, restrooms, and a lactation room; the seismic retrofitting to the existing structure required extensive engineering. Additional steel was also needed to re-align the building hallways and create a new central stair lobby and a student lounge.

The site was occupied during construction, creating challenges with noise and dust in the classrooms and offices surrounding the construction.

Both the staff at California State University at Long Beach and the CM team were committed to the success of the renovation. This project received a 2020 CMAA Project Achievement Award in the higher education category.

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Code	Division Name	%	S F Cost	Projected
06	**Wood, Plastics, and Composites**	**4.38**	**18.21**	**1,486,386**
	Rough Carpentry	0.08	0.33	27,424
	Architectural Woodwork & Lab Casework	4.28	17.82	1,454,012
	Glass Fiber Reinforced Plastic Paneling	0.01	0.06	4,948
07	**Thermal and Moisture Protection**	**0.08**	**0.35**	**28,563**
	Waterproofing	0.08	0.35	28,563
08	**Openings**	**9.25**	**38.49**	**3,140,892**
	Doors & Frames	0.52	2.16	176,186
	Glass & Glazing	8.71	36.25	2,957,929
	Access Doors	0.02	0.08	6,776
09	**Finishes**	**13.57**	**56.47**	**4,608,828**
	Lath & Plaster	1.08	4.48	365,460
	Framing & Drywall	7.41	30.85	2,517,357
	Tile & Stone	0.59	2.44	199,380
	Acoustical Ceilings	1.61	6.69	546,071
	Carpet & Resilient Flooring	1.53	6.37	519,763
	Painting	1.36	5.64	460,795
10	**Specialties**	**1.75**	**7.27**	**593,595**
	Sound Absorbing Wall Units	0.24	1.00	81,157
	Signage	0.12	0.49	39,360
	Demountable Partitions	1.02	4.25	346,435
	Folding Panel Partitions	0.10	0.44	35,464
	Corner Guards Protective Wall Coverings	0.02	0.08	6,593
	Visual Display Surfaces	0.05	0.20	16,690
	Toilet & Bath Accessories	0.19	0.79	64,772
	Fire Extinguisher	0.01	0.04	3,124
11	**Equipment**	**0.02**	**0.09**	**7,092**
	Residential Appliances & Equipment	0.02	0.09	7,092
12	**Furnishings**	**0.25**	**1.04**	**84,564**
	Window Treatments	0.25	1.04	84,564
21	**Fire Suppression**	**0.96**	**4.02**	**327,643**
22	**Plumbing**	**2.64**	**10.97**	**895,622**
23	**HVAC**	**8.82**	**36.71**	**2,996,059**
26	**Electrical**	**23.90**	**99.42**	**8,113,073**
	Total Interior Costs	**20.05**	**83.43**	**6,809,029**
	Total Building Costs	**100.00**	**416.05**	**33,952,618**

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FILE 38

This 303,000-square-foot, 39-foot-high warehouse and distribution center in Windsor, Connecticut represents a large-scale project within a tight schedule. Its basic construction type is new/tilt-up with reinforced grade beam foundations and slab on grade. The exterior and interior walls are tilt-wall panels.

To successfully meet the project's aggressive delivery schedule, the development team elected to use tilt-wall construction, a building method in which concrete panels are cast on site using the floor slab as a working platform. The panels are then tilted up with the help of a crane and held in place with temporary bracing until the roof is added. Erecting walls with tilt-up panels is faster than building walls using traditional construction techniques. The trades can begin work earlier, which allows greater overlapping of project phases.

While speed, durability, and quality are compelling reasons why owners are choosing tilt-up construction, value, reduced construction costs, and flexibility are added benefits that cannot be overlooked. Lower raw material costs combined with smaller work crews and a shortened construction schedule translated into lower project costs. The facility was constructed for about $29 per square foot, an extremely economical solution for companies looking to expand under today's economic conditions.

The technology used provided an efficient and flexible design for the building. The load-bearing walls of tilt-up construction eliminate the need for perimeter columns, creating more usable space. The floor is extremely level in this method of construction, an important attribute in many distribution and warehouse facilities. Moreover, with site approvals in place to grow the facility to 450,000 square feet, the modular design of the tilt panels allows for efficient expansion.

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Code	Division Name	%	S F Cost	Projected
06	**Wood, Plastics, and Composites**	**0.48**	**0.27**	**80,611**
	Rough Carpentry	0.48	0.27	80,611
07	**Thermal and Moisture Protection**	**0.00**	**0.00**	**308**
	Thermal Protection	0.00	0.00	308
08	**Openings**	**0.99**	**0.55**	**165,129**
	Doors & Frames	0.16	0.09	26,149
	Overhead Doors	0.64	0.35	106,409
	Specialty Doors & Frames	0.16	0.09	27,438
	Hardware	0.03	0.01	5,134
09	**Finishes**	**3.63**	**1.98**	**603,951**
	Plaster & Gypsum Board	0.50	0.27	82,931
	Painting & Coating	1.12	0.60	185,638
	Office Fit Up	2.01	1.10	335,383
11	**Equipment**	**0.56**	**0.31**	**92,548**
	Loading Dock	0.56	0.31	92,548
21	**Fire Suppression**	**9.90**	**5.43**	**1,648,319**
22	**Plumbing**	**0.56**	**0.31**	**93,445**
23	**HVAC**	**3.59**	**1.97**	**597,070**
26	**Electrical**	**6.51**	**3.57**	**1,082,909**
	Total Interior Costs	**5.66**	**3.11**	**942,547**
	Total Building Costs	**100.00**	**54.81**	**16,647,227**

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FILE 39

The Consolidated Hardened Maintenance Facility (CHMF) at Valrico is a brand-new campus containing buildings and facilities for Hillsborough County Public Works, Public Utilities and Fleet Maintenance departments.

The largest building on the site is the Core Building. This is a 41,000 sf hurricane hardened tilt-up concrete building that contains office space and warehouse storage space for the Public Works and Public Utilities departments. This building is built to withstand up to 223 mph (ultimate) wind speeds and is intended to survive a Category 5 hurricane. It will therefore allow the County to continue its operations through a hurricane to provide critical infrastructure and utility support immediately following a major storm event. The building contains open office areas for County staff as well as break rooms, toilet and shower facilities, training rooms and a muster room for gathering employees to distribute critical information. Approximately 60% of the Core Building is warehouse space to store supplies and equipment used by County utility staff. The Core Building is connected to back-up emergency generator power.

The Fleet Building is an 11,212 sf pre-engineered metal building with three enclosed vehicle service bays as well as two covered exterior service bays. In addition, the building contains offices, toilet and shower facilities, a break room and a vehicle parts storage room. The bays contain vehicle lifts capable of lifting up to 100,000 pounds, a 2-ton overhead traveling hoist system, and distribution systems for compressed air and various lubricants.

The Fleet Building will enable the County Fleet Maintenance department to service and maintain their fleet of service and emergency vehicles. The building is connected to back-up emergency generator power. The 30 acre site also contains a diesel and gasoline fueling station for County vehicles as well as various out-buildings to provide covered storage for materials and equipment.

The site's history as a former phosphate mine presented unique challenges for the structural design in order to support the buildings on extremely inconsistent soil. The result is a system of nearly 500 65' long concrete piles topped with a 20" thick concrete mat foundation.

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Code	Division Name	%	S F Cost	Projected
06	**Wood, Plastics, and Composites**	**0.37**	**1.52**	**63,943**
	Casework	0.37	1.52	63,943
08	**Openings**	**2.81**	**11.64**	**490,534**
	Hollow Metal Doors & Frames	0.44	1.84	77,645
	Flush Wood Doors	0.26	1.08	45,674
	Access Doors	0.02	0.07	2,740
	Overhead Doors	0.21	0.87	36,539
	Aluminum Framed Entrance Glazing	1.58	6.55	275,868
	Finish Hardware	0.30	1.24	52,068
09	**Finishes**	**6.79**	**28.14**	**1,185,686**
	Framing & Drywall	3.98	16.47	694,238
	Ceramic Porcelain Tile Walls	0.44	1.82	76,732
	Acoustical Ceiling	0.36	1.47	62,116
	Floor Covering	0.41	1.69	71,251
	Epoxy Floor Coating	0.05	0.20	8,221
	Epoxy Paint Coating Walls	0.03	0.13	5,481
	Acoustical Wall Panels	0.19	0.78	32,885
	Painting	1.27	5.27	221,973
	Exterior Texture Coating	0.07	0.30	12,789
10	**Specialties**	**1.43**	**5.93**	**249,926**
	Signage	0.21	0.87	36,539
	Toilet Partition	0.10	0.42	17,904
	Wall Protection	0.10	0.43	18,269
	Aluminum Canopy	0.29	1.21	51,154
	Metal Lockers	0.23	0.95	40,193
	Toilet Accessories	0.10	0.43	18,269
	Misc Specialties	0.13	0.52	21,923
	Flag Poles	0.05	0.22	9,135
	Folding Partition	0.21	0.87	36,539
11	**Equipment**	**0.19**	**0.77**	**32,520**
	Appliances	0.19	0.77	32,520
12	**Furnishings**	**0.17**	**0.71**	**29,796**
	Horizontal Louver Blinds	0.04	0.17	6,959
	Sills Corner Trim & Brackets	0.13	0.54	22,837
13	**Special Construction**	**0.37**	**1.52**	**63,943**
	Liner Panels	0.37	1.52	63,943
21	**Fire Suppression**	**1.04**	**4.31**	**181,781**
22	**Plumbing**	**1.85**	**7.67**	**323,369**
23	**HVAC**	**5.34**	**22.12**	**931,987**
26	**Electrical**	**7.62**	**31.55**	**1,329,333**
28	**Electronic Safety and Security**	**0.49**	**2.04**	**85,866**
	Total Interior Costs	**12.13**	**50.23**	**2,116,348**
	Total Building Costs	**100.00**	**414.10**	**17,450,279**

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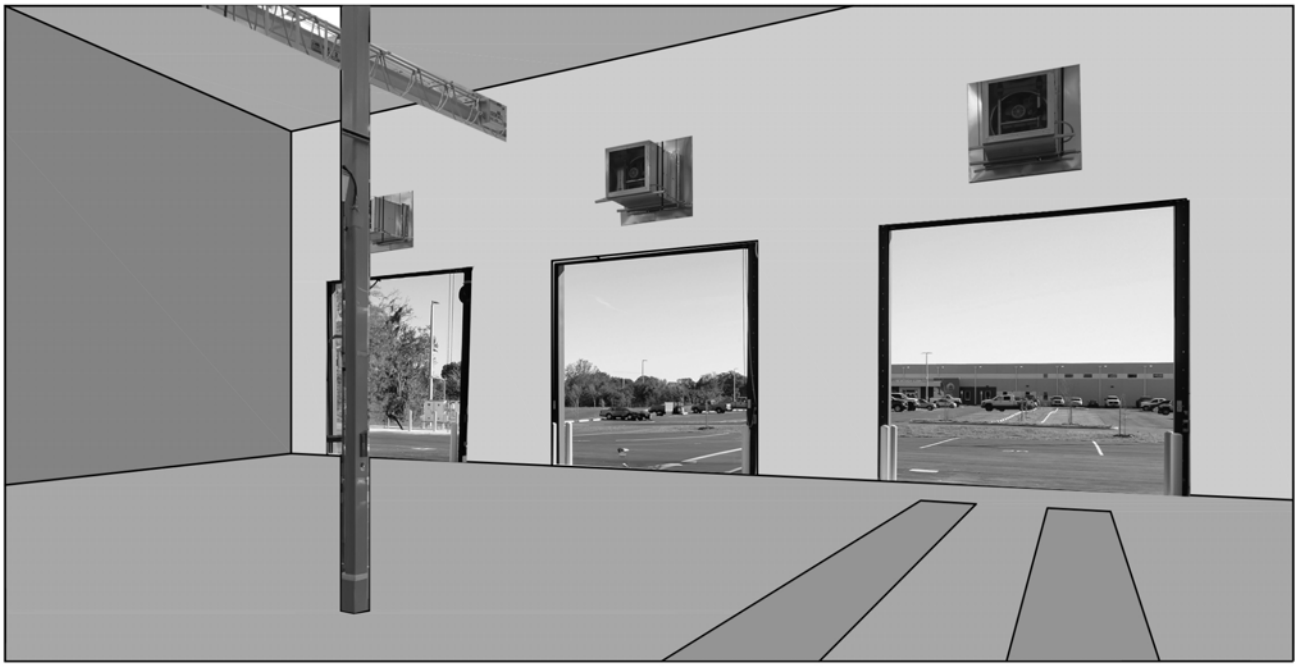
FILE 40



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The site's history as a former phosphate mine presented unique challenges for the structural design in order to support the buildings on extremely inconsistent soil. The result is a system of nearly 500 65' long concrete piles topped with a 20" thick concrete mat foundation.

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Code	Division Name	%	S F Cost	Projected
06	**Wood, Plastics, and Composites**	**0.27**	**2.20**	**26,815**
	Rough Carpentry	0.12	0.96	11,737
	Casework	0.15	1.24	15,078
08	**Openings**	**3.44**	**27.54**	**335,860**
	Hollow Metal Doors & Frames	0.28	2.22	27,085
	Flush Wood Doors	0.19	1.48	18,057
	Access Doors	0.03	0.22	2,709
	Overhead Doors	2.13	17.03	207,655
	Aluminum Framed Entrances & Glazing	0.59	4.74	57,782
	Finish Hardware	0.23	1.85	22,571
09	**Finishes**	**2.45**	**19.60**	**239,047**
	Framing & Drywall	1.07	8.59	104,731
	Acoustical Ceiling	0.09	0.73	8,848
	Floor Covering	0.10	0.81	9,904
	Epoxy Floor Coating	0.03	0.22	2,709
	Acoustical Panels	0.14	1.11	13,543
	Painting	1.02	8.14	99,313
10	**Specialties**	**0.61**	**4.87**	**59,406**
	Signage	0.27	2.15	26,183
	Toilet Partition	0.10	0.80	9,751
	Wall Protection	0.05	0.37	4,514
	Office Shelving	0.07	0.54	6,589
	Metal Lockers	0.05	0.37	4,514
	Toilet Accessories	0.05	0.42	5,146
	Misc Specialties	0.03	0.22	2,709
11	**Equipment**	**0.10**	**0.77**	**9,390**
	Appliances & Equipment	0.10	0.77	9,390
13	**Special Construction**	**4.86**	**38.84**	**473,669**
	Mobilization	0.09	0.74	9,028
	Pre Engineered Building	7.66	61.30	747,559
	Kalex Credit	(7.55)	(60.36)	(736,149)
	Pre Engineered Building Labor	2.22	17.77	216,684
	Exterior Wall Insulation	0.94	7.55	92,091
	Pre Engineered Building Roof	0.56	4.44	54,171
	Pre Engineered Building Wall Sheeting	0.46	3.70	45,142
	Trim Gutter Downspouts	0.28	2.22	27,085
	Canopies Soffit Material & Labor	0.19	1.48	18,057
21	**Fire Suppression**	**1.30**	**10.36**	**126,399**
22	**Plumbing**	**4.07**	**32.57**	**397,254**
23	**HVAC**	**2.92**	**23.32**	**284,398**
26	**Electrical**	**10.60**	**84.79**	**1,034,106**
	Total Interior Costs	**11.63**	**93.05**	**1,134,797**
	Total Building Costs	**100.00**	**799.74**	**9,753,587**

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FILE 41

Running a hybrid program comprised of Urgent Care and state-licensed Emergency Room, Legacy ER aims to advance community access to high-quality healthcare services by positioning the architectural significance of its facility into direct alignment with the client's goal of elevating the patient care experience to an unprecedented level. By focusing the architecture on the patient and the staff, the quality of healthcare delivery is elevated and provides respite from the emotional distress relating to emergency medical situations.

The conceptual framework seeks to capture in aesthetic terms the duality of the emergency medical professional characters, projecting outwardly the knowledge, skill, precision, and decisiveness necessary for the practice of emergency medicine, and reflecting inwardly the gentle, empathic, and humanistic qualities of the persons beneath the robe. This is realized through an architectural montage of a sharply folded exterior of zinc and softly sculpted interior plastered planes. The points of admission of natural daylight and outdoor views are frameless apertures that puncture through the building envelope and interior planes, and elucidate those intersecting tectonic moments. Views, volume, and light are elements that get repeated throughout the building. The atmospheric quality combination and interplay of these three elements continually morph the interior in response to the natural climatic conditions and poetically links the users to nature.

Previously, the project site was an open pasture surrounded by commercially-driven suburban residential subdivisions, chain stores, and strip centers. The current landscape strategies introduce an exemplary way of reconciliation between nature and man-made settings prevalent to the locality. Native, adaptive vegetation with low water demands and subtle grading of land were used as design elements to evoke memories of natural landscape whose forms reflect the interior and cocoons the exterior form.

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Code	Division Name	%	S F Cost	Projected
06	**Wood, Plastics, and Composites**	**3.11**	**26.76**	**225,647**
	Rough Carpentry	0.44	3.78	31,853
	Millwork	2.67	22.99	193,796
07	**Thermal and Moisture Protection**	**7.80**	**67.10**	**565,691**
	Roofing	7.30	62.84	529,898
	Joint Sealers	0.49	4.25	35,793
08	**Openings**	**8.93**	**76.81**	**647,643**
	Hollow Metal Doors Frames	2.16	18.59	156,668
	Skylights	0.53	4.52	38,223
	Glazing	6.24	53.68	452,751
09	**Finishes**	**13.03**	**112.05**	**944,892**
	Drywall & Studs	8.04	69.21	583,502
	EIFS Stucco	1.10	9.50	80,123
	Flooring	1.20	10.33	87,101
	Paint & Wall Cover	2.56	22.04	185,860
	Special Finishes	0.11	0.99	8,307
10	**Specialties**	**0.81**	**6.96**	**58,734**
	Toilet Accessories	0.78	6.71	56,494
	Curtain Tracks	0.03	0.27	2,240
21	**Fire Suppression**	**1.73**	**14.87**	**125,348**
22	**Plumbing**	**4.44**	**38.22**	**322,259**
23	**HVAC**	**5.67**	**48.74**	**411,130**
26	**Electrical**	**16.99**	**146.15**	**1,232,340**
	Total Interior Costs	**33.68**	**289.68**	**2,442,610**
	Total Building Costs	**100.00**	**860.33**	**7,254,245**

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FILE 42

Northeast Georgia Health Systems purchased an existing pre-engineered building that was originally built for a motorcycle shop. Utilizing an integrated team approach, CDH designers provided a creative design that converted this building into a spacious area where the latest medical care is offered. The public now enters the facility beneath a new canopy and immediately steps into a welcoming two-story lobby with porcelain tiled flooring and a curved monumental stair.

Glass railings were utilized to lighten and give a sense of openness to what otherwise would have been a claustrophobic space. Stone, along with a glass curtain wall, defines the new entry point contrasting the original brick veneer that was left in place around the remaining portions of the exterior. The steel and wood canopy brings warmth to the brick exterior and continues through the vestibule into the lobby around the elevator doors.

The 14,000-square-foot ground floor contains an Urgent Care department with a dedicated entrance for the ambulance pick-up and public walk-ins. A sports medicine practice is located on the ground floor along with a medical lab and testing areas. The Imaging Center is also on this floor and has a separate accessible hallway.

There is also a separate sub-waiting area with dressing rooms and toilets for men and women. The CT and MRI scan rooms share a common control room whose windows are offset so that you cannot see the CT room through the control area from the MRI room and vice-versa.

Even though this area is located in the core of the building, designers created a natural themed environment that incorporates light, natural stone, and wood. The X-ray room is directly supported by the nearby tech work area and state-of-the-art physicians' reading room.

The 13,000-square-foot second floor contains Northeast Georgia Health Systems' Dawsonville Family Practice as well as space for three additional specialty practices that all share waiting room, check-in and check-out, conference room, small lab, clean supply room and staff lounge.

There are 21 exam rooms, two procedure rooms, seven physician offices, four nurse stations and satellite charting perches next to exam rooms. In addition to the NGPG suite, there is also a single practice "time share" suite with three exam rooms, office, toilets, reception, nurses' stations, and clean and soiled rooms.

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Code	Division Name	%	S F Cost	Projected
06	**Wood, Plastics, and Composites**	**7.84**	**28.86**	**779,209**
	Rough Carpentry	0.56	2.05	55,241
	Dropoff Canopy Timber	0.54	2.01	54,065
	Casework	6.74	24.82	669,902
07	**Thermal and Moisture Protection**	**3.55**	**13.07**	**352,774**
	Waterproofing & Caulking	(0.09)	(0.35)	(9,345)
	EIFS	0.81	2.98	80,677
	Metal Panels	1.18	4.33	116,827
	Roofing	1.66	6.09	164,616
08	**Openings**	**7.84**	**28.88**	**779,529**
	Glass Handrail	0.49	1.79	48,723
	Doors & Hardware	4.02	14.80	399,402
	Glass & Glazing	3.33	12.28	331,407
09	**Finishes**	**14.63**	**53.86**	**1,454,335**
	Drywall, Acoustical & Exterior	7.87	28.98	782,129
	Flooring	5.46	20.08	542,159
	Paint	1.31	4.83	130,045
10	**Specialties**	**0.60**	**2.20**	**59,398**
	Specialties	0.60	2.20	59,398
11	**Equipment**	**0.15**	**0.54**	**14,459**
	OFCI Equipment	0.15	0.54	14,459
12	**Furnishings**	**0.62**	**2.28**	**61,537**
	Furnishings	0.62	2.28	61,537
13	**Special Construction**	**1.03**	**3.78**	**102,007**
	RF Shielding	1.03	3.78	102,007
14	**Conveying Systems**	**0.99**	**3.64**	**98,098**
21	**Fire Suppression**	**1.19**	**4.39**	**118,536**
22	**Plumbing**	**5.24**	**19.29**	**520,722**
23	**HVAC**	**12.75**	**46.94**	**1,267,217**
26	**Electrical**	**16.92**	**62.30**	**1,681,889**
	Total Interior Costs	**36.26**	**133.47**	**3,603,249**
	Total Building Costs	**100.00**	**368.14**	**9,938,445**

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FILE 43

The Oktibbeha County Hospital Regional Medical Center (OCH) located in Starkville, Mississippi is a county-owned and operated facility that was founded over 35 years ago. Its mission is clear: provision of high quality healthcare to the people of the hospital's seven-county service area responding to changing community needs. Dean and Dean/Associates Architects, P.A. was commissioned with the task of helping Oktibbeha County Hospital fulfill this mission as its growth created the need for a major renovation and expansion.

This 23.4 million dollar construction project consists of a new five-story, 87,116-square-foot addition, new parking garage and interior renovation to the existing Oktibbeha County Hospital. At the first floor level, the design features a new Main Entrance, Lobby, Gift Shop, Coffee Bar, Community Education facilities, and shell space for future expansion. The upper floors provide 52 new private Medical/Surgical Patient Rooms and a state-of-the-art Women's Center comprised of a Birthing Suite with eight Labor/Delivery/Recovery (LDR) rooms, two C-Section rooms/Recovery, three Triage Rooms/Observation Rooms, and new Nursery Suite to include a Well Baby Nursery and High-Risk Nursery with Neo-Natal Intensive Care.

In addition, the project includes 30,263 square feet of renovations to existing patient bed floors. This renovation features enlargement and refurbishment of undersized and outdated patient rooms and baths into 30 new Medical/Surgical Patient Rooms/Baths which meet contemporary standards. Also a new six bed Intensive Care Unit, an ICU Waiting Area, and a Family Quiet Room were welcomed additions to this area. To further enhance this updated modern facility, new entrance driveways and a 240-space parking structure were constructed.

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Code	Division Name	%	S F Cost	Projected
06	**Wood, Plastics, and Composites**	**1.95**	**8.83**	**770,184**
	Rough Carpentry	0.28	1.25	110,006
	Casework Millwork	1.67	7.58	660,177
07	**Thermal and Moisture Protection**	**7.08**	**32.04**	**2,789,943**
	Waterproofing Caulking	0.47	2.14	187,224
	Metal Panels	5.16	23.35	2,033,608
	Roofing	1.44	6.53	569,112
08	**Openings**	**5.96**	**26.96**	**2,348,360**
	Doors & Frames	0.27	1.23	107,192
	Overhead Coiling Doors	0.07	0.33	28,349
	Glass & Glazing Eng & Shop Drawings	0.20	0.88	76,891
	Curtain Wall & Storefront	5.07	22.94	1,998,263
	Interior Glass Material	0.05	0.23	19,844
	Automatic Sliding Doors	0.09	0.42	37,206
	Glass & Glazing Install S Elevation	0.20	0.91	80,613
09	**Finishes**	**8.08**	**36.57**	**3,186,198**
	Exterior Sheathing & Tyvek	0.23	1.05	91,690
	Drywall	3.44	15.56	1,355,726
	Acoustical Ceiling 1st Floor	0.71	3.23	279,442
	Hard Tile 1st Floor	1.52	6.87	598,417
	Soft Flooring 1st Floor	1.62	7.35	639,933
	Painting	0.56	2.55	220,986
10	**Specialties**	**0.52**	**2.32**	**203,333**
	Toilet Compartments	0.03	0.12	10,598
	Cubicle Curtains	0.07	0.32	27,848
	Wall Protection	0.16	0.72	62,865
	Signage	0.07	0.33	28,901
	Fire Extinguishers Cabinets	0.03	0.14	11,437
	Toilet Accessories	0.16	0.70	61,687
11	**Equipment**	**0.09**	**0.38**	**34,541**
	Owner Furnished Equip Install	0.09	0.38	34,541
12	**Furnishings**	**0.22**	**0.99**	**85,260**
	Blinds & Roller Shades	0.22	0.99	85,260
14	**Conveying Systems**	**3.10**	**14.03**	**1,222,826**
21	**Fire Suppression**	**0.96**	**4.34**	**379,048**
22	**Plumbing**	**6.01**	**27.20**	**2,368,246**
23	**HVAC**	**23.40**	**105.92**	**9,226,580**
26	**Electrical**	**9.47**	**42.84**	**3,732,750**
	Total Interior Costs	**23.90**	**108.10**	**9,417,819**
	Total Building Costs	**100.00**	**452.54**	**39,424,023**

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FILE 44

This new 8,900-square-foot medical office building houses Primary and Specialty Care and Immediate Care services with additional out-patient services of radiology and phlebotomy for The Southern New Hampshire Health System.

Dennis Mires PA, the architects, were sensitive through massing and appropriate detail that the facility fulfills the design program without overwhelming the scale of Windham Road near the Town Center in Pelham.

The visitor is greeted by a corner entry with a glass vestibule that leads to a common check-in area. A waiting area serves the smaller south wing that provides immediate care services. Another waiting area serves the north wing that provides the primary and specialty care services.

Each wing has a central nurses' station and support services surrounded by treatment rooms. X-ray and phlebotomy services are available to all patients with core administrative services shared by each wing.

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Code	Division Name	%	S F Cost	Projected
06	**Wood, Plastics, and Composites**	**7.88**	**24.91**	**209,212**
	Rough Carpentry	6.98	22.04	185,138
	Finish Carpentry	0.91	2.88	24,074
07	**Thermal and Moisture Protection**	**14.91**	**47.13**	**395,817**
	Insulation	7.24	22.89	192,122
	Shingle Roof	2.39	7.56	63,500
	Siding Systems	5.28	16.70	140,198
08	**Openings**	**3.82**	**12.06**	**101,274**
	Doors & Hardware	0.36	1.14	9,558
	Storefronts & Entrances	1.56	4.94	41,440
	Windows	1.89	5.99	50,277
09	**Finishes**	**11.56**	**36.54**	**306,866**
	Drywall	4.83	15.26	128,248
	Acoustical Ceilings	2.11	6.68	56,015
	Resilient Flooring	3.15	9.96	83,651
	Painting	1.47	4.65	38,953
10	**Specialties**	**1.28**	**4.04**	**34,022**
	Specialties	1.28	4.04	34,022
11	**Equipment**	**0.09**	**0.29**	**2,487**
	Equipment	0.09	0.29	2,487
12	**Furnishings**	**0.08**	**0.27**	**2,222**
	Furnishings	0.08	0.27	2,222
21	**Fire Suppression**	**3.50**	**11.07**	**93,001**
22	**Plumbing**	**2.58**	**8.13**	**68,372**
23	**HVAC**	**9.28**	**29.32**	**246,292**
26	**Electrical**	**8.13**	**25.70**	**215,827**
	Total Interior Costs	**39.62**	**125.25**	**1,051,900**
	Total Building Costs	**100.00**	**315.99**	**2,653,956**

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FILE 45

Thirty years ago, CDH Partners was asked to design a medical facility for Marietta. This longtime client contacted CDH once again with the request to renovate a building they had just purchased and add a new building adjacent to the renovated facility.

The 7,200-square-foot single story clinic is residential in style and is constructed of wood frame with a mansard roof. It has a rustic brick exterior and sits on 1.43 acres.

The building has been systematically laid out with future expansion in mind. The new surgery center was placed at the entry level to the site to the west of the existing clinic.

The CDH team began by renovating the group's clinic, which was original to the facility and implemented sustainable design principles. The new ambulatory surgery center also contains a physical therapy space and exam modules.

The design team applied a system-wide approach to patient and family centered care. Only finish upgrades were required but this still allowed the CDH team to follow a comprehensive process through every phase of the project, resulting in a well-conceived product that is both holistic and well planned. One exam module was converted into a naturally lit physical therapy area, requiring some minor structural and MEP changes.

The different occupancies and fire separations required the buildings be ten feet apart connected by a light corridor. In order to make the two sections into a cohesive whole, the original entry to the clinic was redesigned to have a similar canopy to the addition. Brick from the original clinic was matched for a pull away detail on the surgery center entrance.

Intricate details are binding elements that bring a final layer of comfort and thoughtfulness to a project. The waiting room was updated for patient comfort. Subdued lighting was added along with a wireless network access and coffee station.

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Code	Division Name	%	S F Cost	Projected
06	**Wood, Plastics, and Composites**	**3.74**	**12.33**	**54,239**
	Carpentry	1.01	3.34	14,691
	Roof Nailers at Top	0.20	0.68	2,932
	Plywood Furnish & Install	0.43	1.42	6,273
	Millwork	2.09	6.90	30,342
07	**Thermal and Moisture Protection**	**9.22**	**30.39**	**133,704**
	Roofing & Coping	5.33	17.56	77,311
	Roof Ladder & Hatch	0.13	0.41	1,836
	EIFS	2.70	8.88	39,114
	Metal Wall Shingles	1.07	3.51	15,443
08	**Openings**	**6.70**	**22.09**	**97,165**
	Glass	2.75	9.05	39,844
	Auto Entrances at Tower	1.32	4.35	19,176
	Doors & Frames	2.63	8.67	38,145
09	**Finishes**	**14.27**	**47.01**	**206,847**
	Gypsum & Metal Studs	8.75	28.81	126,756
	In Wall Blocking	0.06	0.18	800
	Tile	0.19	0.63	2,707
	Carpet VCT Base	3.60	11.84	52,132
	Flooring Changes	0.86	2.83	12,517
	Paint	0.29	0.93	4,131
	Interior Painting	0.54	1.77	7,804
10	**Specialties**	**1.05**	**3.46**	**15,256**
	Toilet Accessories	0.33	1.08	4,732
	Fire Extinguishers	0.05	0.15	674
	Wall Protection	0.29	0.93	4,137
	Cubicle Curtains	0.39	1.31	5,714
22	**Plumbing**	**7.46**	**24.58**	**108,186**
23	**HVAC**	**12.45**	**41.02**	**180,443**
26	**Electrical**	**7.18**	**23.64**	**104,018**
	Total Interior Costs	**34.98**	**115.29**	**507,209**
	Total Building Costs	**100.00**	**329.41**	**1,449,440**

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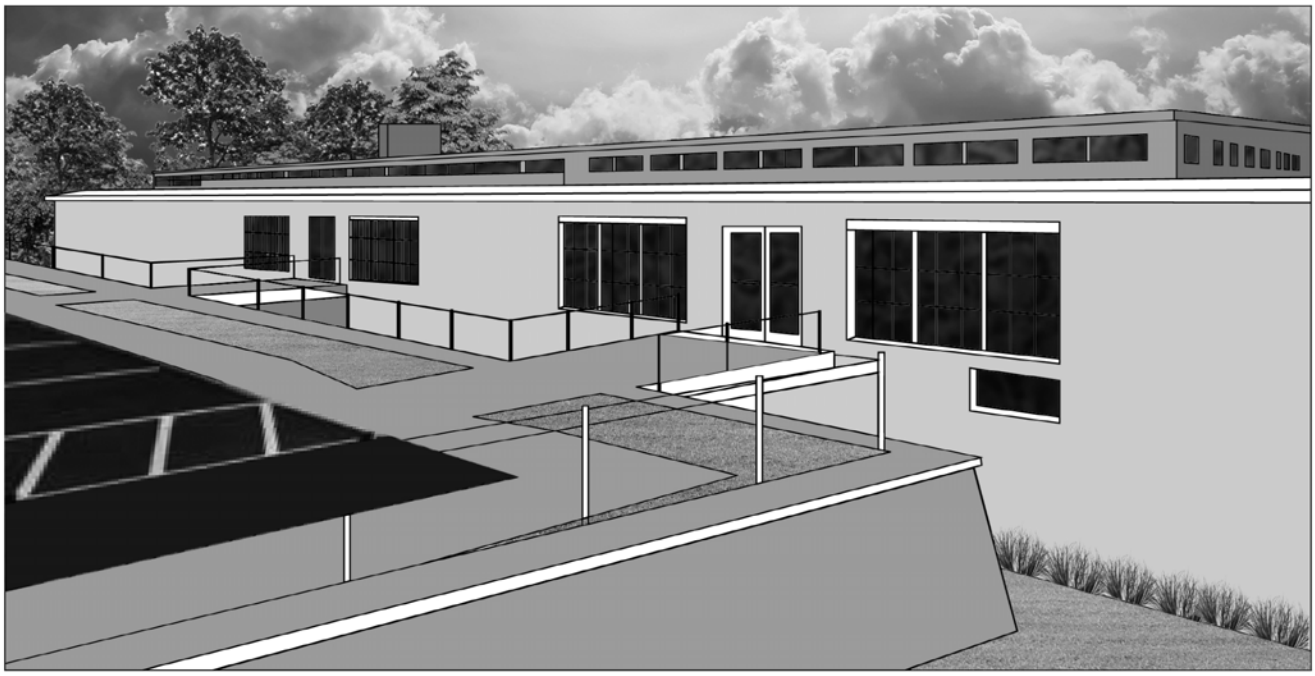
FILE 46



Vision 3 Architects provided architectural and interior design services for Thundermist Community Health Center's newest location. This project is an adaptive reuse of a 120-year-old historic granite mill building. Working with the State Historic Preservation and Heritage Commission, Vision 3 prepared a design concept that preserves and features many historic elements of the building including the existing clerestory windows, heavy timber construction and exposed interior stone and brick walls. The new 18,000-square-foot health center includes 28 exam rooms, a 75-100 person multi-purpose conference room as well as clinical, staff, and administrative spaces all on one level.

Prior to Thundermist Health Center purchasing the property, a developer had begun renovating the building and site for a spec/retail use. Rough grading, paving and site retaining walls were in place. A new roof had been installed, and most of the exterior windows and doors had already been replaced. Project scope included completion of site work, new bridges at entries, and miscellaneous exterior renovations. The basement was converted to the building's mechanical room, the lower level was left as shell space for future tenants, and the upper level completely built-out for the new health center.

Vision 3 Architects took on this design challenge, and carefully evaluated the Center's needs in order to design a health center that not only complemented the historical features of the two-story mill building, but also created an environment that supported the Patient-Centered Medical Home approach. This included creating spaces that were flexible in size and layout to foster collaboration between the clinical teams, and that focus on ways to improve patient education.

Vision 3 Architects created a warm, hotel-style lobby environment that welcomes patients and families while challenging the concepts of traditional medical waiting and check-in procedures. The urgent care exam room, right off the lobby space, serves patients efficiently and with extended hours that can greatly reduce the number of unnecessary emergency room visits. The large community room, with a full teaching kitchen, an attached exam room, and teleconferencing capabilities, can serve as a community classroom, a staff fitness area, or, when subdivided into smaller rooms, can serve multiple functions at once.

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Code	Division Name	%	S F Cost	Projected
06	**Wood, Plastics, and Composites**	**4.66**	**13.47**	**245,220**
	Millwork	2.63	7.60	138,547
	Rough Carpentry	2.03	5.85	106,673
07	**Thermal and Moisture Protection**	**2.12**	**6.14**	**111,652**
	Alum/Glaze/Caulking	0.70	2.02	36,732
	Batt Insulation	0.43	1.24	22,602
	Gutters & Roofing	0.83	2.41	43,860
	Interior Caulking	0.16	0.46	8,458
08	**Openings**	**2.98**	**8.61**	**156,968**
	DRS/FRMS/HDWR	2.71	7.82	142,403
	Wood Windows	0.28	0.81	14,568
09	**Finishes**	**13.57**	**39.21**	**714,161**
	ACT	0.91	2.62	47,776
	Flooring & Tile	4.45	12.85	234,177
	Gypsum System	6.17	17.82	324,598
	Paint	2.04	5.90	107,612
10	**Specialties**	**1.41**	**4.07**	**73,989**
	Corner Guards	0.13	0.37	6,892
	Cubicle Curtain TRK	0.46	1.34	24,436
	Install Owners Item	0.14	0.41	7,520
	Movable Wall	0.50	1.45	26,473
	REC Fe Cabs	0.04	0.10	1,935
	Toilet Accessories	0.13	0.37	6,734
14	**Conveying Systems**	**1.53**	**4.42**	**80,279**
21	**Fire Suppression**	**2.29**	**6.60**	**120,457**
22	**Plumbing**	**5.22**	**15.08**	**274,904**
23	**HVAC**	**24.99**	**72.18**	**1,314,993**
26	**Electrical**	**27.23**	**78.67**	**1,432,942**
	Total Interior Costs	**24.74**	**71.48**	**1,301,990**
	Total Building Costs	**100.00**	**288.88**	**5,262,440**

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FILE 47

The opportunity to serve Our Lady of Lourdes Regional Medical Center has been a joy. Our Lady of Lourdes Regional Medical Center (OLOL), located in Lafayette, Louisiana, resulted from exceptional collaboration and vision of the clinical teams and the designers of the new replacement campus.

Blending the clinical vision with global strategic objectives for the health system with a design that achieved thousands of functional and clinical objectives into an efficient, flexible and technologically advanced campus was the primary goal of this three-year effort.

This project provided a procedural platform that allows the staff to be highly efficient in the treatment of patients. The procedural platform is located on the second floor, with an ambulance ramp to the Emergency Department, in order for the Emergency Department to remain adjacent to the Surgery and Imaging Departments. All patient rooms are same-handed and private, with large windows overlooking the grounds. Green roofs and exterior respite areas are incorporated so that the staff and patients can enjoy the outdoor environment adjacent to the patient floors.

The six-floor, 410,273-square-foot facility houses all acute-care clinical services, has 192 private patient rooms and rests on a 45-acre Greenfield site in a growing area of Lafayette. This state-of-the-art acute care hospital has 1,500 parking spaces and a 16,000-square-foot Central Energy Plant designed for future growth. The hospital is also structurally engineered for the future expansion of two additional floors.

The Replacement Hospital will be the epicenter of the OLOL campus, which will additionally include a Cancer Center, Heart Hospital, Ambulatory Surgery Center, Convent, Spa/Fitness Center, and an Outpatient Clinic and MOB.

TEG's "Efficient Design + Productive Care" Design Strategy allowed OLOL to incorporate innovative and efficient clinical features and relationships that are based on EBD findings from TEG Health Research.

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Code	Division Name	%	S F Cost	Projected
06	**Wood & Plastics**	**2.32**	**17.11**	**7,024,995**
	Wood & Plastics	2.32	17.11	7,024,995
07	**Thermal & Moisture Protection**	**5.17**	**38.17**	**15,663,871**
	Waterproofing Caulking	0.27	2.02	829,221
	Fireproofing	0.36	2.64	1,082,597
	Fireproofing Patch	0.05	0.33	136,751
	Firestopping Firesafing	0.31	2.28	932,620
	Low Voltage Firesafe Allowance	0.06	0.47	193,821
	Wall Panel Column Cover Louver	3.07	22.64	9,290,564
	Roofing Sheetmetal	0.99	7.35	3,013,380
	Roofing Repairs	0.06	0.42	172,287
08	**Doors & Windows**	**1.86**	13.75	5,638,806
	Coiling Doors	0.05	0.38	158,278
	Exterior Glass & Glazing	1.80	13.30	5,453,417
	Interior Glass & Glazing	0.01	0.06	27,108
09	**Finishes**	**10.82**	**79.91**	**32,783,762**
	Metal Studs & Drywall	1.60	11.81	4,851,254
	Interior Framing Drywall Ceilings	3.98	29.41	12,069,157
	Hard Tile	1.14	8.44	3,460,794
	Resilient Flooring & Carpet	2.33	17.23	7,067,638
	Prep & Moisture Remediation	0.04	0.28	115,186
	Terrazzo Flooring	0.46	3.40	1,393,734
	Paint & VWC	1.26	9.31	3,817,324
	Interior Finish Patch & Repair	0.00	0.01	8,678
10	**Specialties**	**0.23**	**1.70**	**701,841**
	Exterior Signage	0.17	1.31	529,574
	Monument Sign	0.01	0.08	32,284
	Exterior Sign Base	0.05	0.35	139,982
11	**Equipment**	**0.84**	**6.18**	**2,535,456**
	Loading Dock	0.03	0.19	82,895
	OFE Installation	0.01	0.05	21,537
	Food Service	0.80	5.91	2,431,026
12	**Furnishings**	**0.13**	**0.96**	**388,388**
	Exterior Window Blind Install	0.10	0.73	305,768
	Exterior Site Furnishings	0.03	0.19	82,620
13	**Special Construction**	**0.17**	**1.24**	**512,622**
	Radiation Shielding	0.14	1.02	414,959
	Phillips MRI Pre-Install	0.03	0.24	97,663
14	**Conveying Systems**	**2.07**	**15.30**	**6,270,337**
15	**Mechanical**	**25.15**	**185.79**	**76,224,343**
16	**Electrical**	**13.73**	**101.45**	**41,617,856**
	Total Interior Costs	**21.54**	**159.03**	**65,249,740**
	Total Building Costs	**100.00**	**738.61**	**303,033,882**

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FILE 48

The Holton Family Health Center is located in Holton, Kansas, a small but growing community 30 miles north of Topeka, the capital city of Kansas. This clinic is another community outreach of the Community Health Care Systems of Onaga, Kansas, a corporation dedicated to providing quality health care to rural communities in northeast Kansas.

Comprised of 10,300 square feet of space, the building houses two functions, each operating in approximately one half of the building area.

On one side, a medical clinic provides space for three physicians to attend to their patients in nine exam rooms. With laboratory and radiology services available on site, diagnostic services can be provided quickly and efficiently for the patients, and minor procedures performed as necessary.

The other side of the building serves a dual purpose as a fitness center for the townspeople of Holton, and as a rehabilitation center for the patients in need of physical and occupational therapy.

As the only fitness center in the community, it has exceeded expectations. With a separate entrance, the fitness center can maintain longer operating hours and operate independently from the clinic. Patrons can come and go without crossing paths with those seeking medical attention. The large windows on the north and south, along with a large expanse of clerestory glazing provide rural vistas and ample daylighting in the approximately 2,000 square foot space.

The structure is wood-framed, with the exception of the locker room area, which is constructed of reinforced concrete masonry and capped with a reinforced concrete slab, thereby serving as a storm shelter when needed. Five gas-fired furnaces sit on the concrete cap slab within the attic space above. Along with remote condensers, heating and cooling is provided to five zones within the building.

The clinic has been a tremendous success in Holton, providing this small town with quality health care in a pleasing environment.

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Code	Division Name	%	S F Cost	Projected
07	**Thermal and Moisture Protection**	**1.23**	**2.88**	**29,590**
	Insulation	1.10	2.57	26,429
	Joint Sealants	0.13	0.32	3,160
08	**Openings**	**5.14**	**11.74**	**120,919**
	Hollow Metal Doors & Frames	0.91	2.09	21,422
	Wood Doors	1.60	3.67	37,769
	Finish Hardware	2.18	4.99	51,299
	Coiling Doors	0.44	1.00	10,429
09	**Finishes**	**10.86**	**24.82**	**255,649**
	Drywall	5.17	11.81	121,765
	Plaster	0.14	0.33	3,382
	Acoustical	0.40	0.90	9,302
	Ceramic Tile	0.53	1.22	12,402
	Resilient	0.73	1.68	17,194
	Carpet	1.31	3.01	31,018
	Painting	2.59	5.98	61,467
10	**Specialties**	**0.84**	**1.95**	**19,980**
	Toilet Accessories	0.40	0.91	9,391
	Lockers	0.37	0.87	8,820
	Fire Extinguishers	0.07	0.17	1,750
11	**Equipment**	**0.63**	**1.43**	**14,938**
	X Ray	0.63	1.43	14,938
22	**Plumbing**	**10.97**	**24.12**	**248,257**
23	**HVAC**	**13.58**	**29.85**	**307,341**
26	**Electrical**	**11.57**	**25.41**	**261,807**
27	**Communications**	**1.14**	**2.48**	**25,748**
	Total Interior Costs	**18.70**	**42.82**	**441,078**
	Total Building Costs	**100.00**	**227.80**	**2,346,333**

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FILE 49

The owner and lead physician, Dr. Deborah Gant of Pearland Pediatrics, wanted to provide an environmentally friendly workplace for her staff and a healing environment for her young patients, and make a statement about the kind of future her patients will inherit.

To meet the owner's goal of an environmentally responsible building, Browne Penland McGregor Stephens Architects and the design team used the United States Green Building Council's (USGBC) sustainable design criteria to create a holistic environment. The result is the first privately owned LEED® certified healthcare facility in Texas.

The single-story, limestone-clad, tilt-wall, concrete building is 10,300 square feet with a 6,000-square-foot pediatric clinic space. With the original plan of utilizing natural daylight and preserving the oak trees on the property, the design team incorporated energy efficiency and indoor air quality into their design. The design team chose a white reflective roof, daylight monitors and an exterior canopy/light shelf to illuminate the interior, while glazing transoms and high performance insulated glazing were used to reject heat, yet let in daylight. Indoor air quality was maintained by using low-emitting materials such as adhesives, paints, sealers, and flooring. A mechanical ventilation system and CO_2 monitoring system were installed to minimize the exposure of young patients and staff to hazardous indoor particulates and chemical pollutants. Also, to help reduce waste, water saving fixtures and a dual-flush plumbing system was installed. The owners operate the building on wind generated power and have a storm water detention pond behind the building. Rapidly renewable resources were used such as linoleum flooring. The split-faced limestone, masonry perimeter wall, fly ash concrete tilt-wall structure and ceiling tile are all local Texas building materials found within 500 miles of the site. With the first energy bills the owners noticed half the energy consumption and cost in the new clinic, which is double the size of the previous building.

The design team utilized a coastal theme, with two aquarium eco-systems and a special educational area that includes nature-oriented books and games that makes the waiting area special for the patients. The waiting areas, exam rooms, corridors, and work stations are illuminated by natural daylight and have views to the outdoors.

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Code	Division Name	%	S F Cost	Projected
06	**Wood, Plastics, and Composites**	**6.30**	**22.13**	**230,104**
	Millwork	6.30	22.13	230,104
07	**Thermal and Moisture Protection**	**0.36**	**19.44**	**201,733**
	Insulation &Moisture Protection	0.36	19.44	201,733
08	**Openings**	**2.26**	**26.21**	**272,351**
	Door Frames	0.61	2.10	21,814
	Finish Hardware	1.07	3.69	38,209
	Wood Doors	0.59	2.04	21,140
09	**Finishes**	**15.70**	**54.21**	**563,140**
	Acoustical Ceilings	0.79	2.73	28,278
	Flooring	2.58	8.92	92,594
	Paint	1.54	5.30	55,082
	Plaster	1.77	6.11	63,546
	Sheetrock	9.02	31.17	323,640
10	**Specialties**	**1.42**	**19.99**	**207,590**
	3-Form	0.68	2.38	24,767
	Fire Extinguishers	0.03	0.08	982
	Glasscrete	0.30	1.05	10,941
	Granite Tops	0.14	0.50	5,162
	Interior Signs	0.09	0.32	3,261
	Toilet Accessories	0.18	0.63	6,362
11	**Equipment**	**0.20**	**0.70**	**7,258**
	Ice Maker	0.20	0.70	7,258
12	**Furnishings**	**0.21**	**0.73**	**7,674**
	Bike Rack	0.04	0.14	1,479
	Entrance Mats	0.17	0.61	6,194
22	**Plumbing**	**5.87**	**19.48**	**202,308**
23	**HVAC**	**6.36**	**21.12**	**219,410**
26	**Electrical**	**11.55**	**38.32**	**398,148**
	Total Interior Costs	**26.45**	**143.44**	**1,489,847**
	Total Building Costs	**100.00**	**344.08**	**3,574,299**

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FILE 50

DSHC Holdings, a partnership between Pediatric Dentists and Orthodontic Specialists, has been growing and expanding their practice for years throughout southeast Texas.

Their latest development is in the community of Lumberton, Texas. This 7,000-square-foot facility is the second for the pediatric dentists and the third for the orthodontists. The exterior design has a classic Tuscan appearance, which fits nicely with the neighboring traditional architecture and adjacent residential neighborhood.

The building includes many energy-saving features. The exterior skin of the building is designed for energy efficiency and includes 6” foam-insulated exterior walls, EIFS sheathing for added thermal value, and thermally insulated windows and doors which include 1-1/2” insulated low-e glazing.

The exterior of the building is the only traditional component of the building design. The interior echoes a modern design which reflects the cutting-edge dental practices taking place in the building. The building plan is split into two independent dental practices, pediatric and orthodontic, with staff support areas sandwiched in between.

The interior design, by one of the nation’s leading dental designers, Joyce Matlack of Matlack-Van Every Design, Santa Cruz, California, expresses a youthful character in the clinic.

The pediatric clinic contains video games, interactive recreations, and video screens mounted above all exam tables. The architecture is colorful, bright, and vibrant, reflecting the character of a youthful fun space.

The orthodontic clinic is a little more refined, reflecting a young adult and more tailored appearance. The orthodontic clinic also includes video games, a well-stocked “k-cup” coffee bar, and hot fresh cookies for clients.

Both clinics have large areas of exterior windows which allow the entrance of natural light, and provide a view into a nicely landscaped garden behind the building. The core of the building contains staff support areas such as break rooms, staff restrooms, an IT closet, and a laundry area. Doctors’ private offices flank these spaces to form the core of the building.

The building’s interior design includes multi-colored furnishings reflecting the age of the patients served. The artwork, drawn by professional animators, all have a dental theme and bright colors to match other design components. Most walls are covered with vinyl wallcovering, adding to the sumptuousness and warmth of the spaces.

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Code	Division Name	%	S F Cost	Projected
06	**Wood, Plastics, and Composites**	**9.37**	**50.18**	**344,467**
	Cabinets	9.21	49.32	338,621
	Finish Carpentry	0.16	0.86	5,847
08	**Openings**	**7.08**	**37.91**	**260,306**
	Doors Frames HW	1.80	9.64	66,193
	SF & Glass	2.60	13.91	95,572
	Windows	2.68	14.35	98,541
09	**Finishes**	**11.87**	**63.59**	**436,586**
	Drywall	5.19	27.81	190,979
	Acoustical Ceiling	1.71	9.16	62,962
	Painting	3.02	16.18	111,044
	Ceramic Tile	0.73	3.89	26,719
	Carpet & Vinyl Floor	0.29	1.52	10,497
	Install Acoustical Wall Cover	0.94	5.00	34,388
10	**Specialties**	**1.76**	**9.41**	**64,614**
	Specialties	0.46	2.46	16,836
	Awnings	0.24	1.27	8,790
	Protective Covers	0.56	3.01	20,653
	Room Signs	0.06	0.29	2,036
	Exterior Letters	0.17	0.88	6,112
	Monument Sign	0.28	1.48	10,185
11	**Equipment**	**0.55**	**2.97**	**20,370**
	Appliances	0.17	0.88	6,112
	Televisions	0.39	2.09	14,260
22	**Plumbing**	**7.55**	**40.42**	**277,496**
23	**HVAC**	**6.04**	**32.33**	**222,048**
26	**Electrical**	**12.74**	**68.20**	**468,264**
	Total Interior Costs	**30.63**	**164.04**	**1,126,344**
	Total Building Costs	**100.00**	**535.51**	**3,676,799**

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FILE 51

Tippah County Hospital originally opened its doors in 1950 after being one of the first land sites approved in the Nation under the Hill-Burton Act. The aging facility was due for an upgrade to help better serve the rural area of Tippah County. TCH solicited Dean Architecture to provide planning and design services for a new replacement facility that would improve the functional and operational efficiencies for each department within the hospital.

Dean Architecture worked closely with the hospital administration and staff to program and develop a design that met TCH's needs to serve the community and surrounding areas for decades to come.

The new Critical Access Hospital replacement facility is a one-story 63,620-square-foot structure which consists of 25 ADA-compliant med-surg patient rooms, a full service nine-room Emergency Department, Imaging Suite with mobile MRI, Outpatient Surgery Suite, Specialty/Outpatient Clinic, Inpatient Rehab Suite, Intensive Outpatient Program Suite, Respiratory Suite, Pharmacy, Lab, Cafeteria/Dietary Service, and requisite ancillary spaces.

The facility provides a six-exam Rural Health Clinic that is connected to the Emergency Department Waiting Room for patient convenience. The facility has a physical connection to the existing county-owned nursing home for the new food service department to serve the nursing home patients and staff. The new cafeteria is designed to serve the public and provides a separate exterior entrance for patrons.

The new hospital is Tippah County's premier health care facility. The staff is committed to providing a resource for quality services and compassionate care for the immediate and surrounding community.

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Code	Division Name	%	S F Cost	Projected
06	**Wood, Plastics, and Composites**	**1.53**	**8.63**	**548,891**
	Millwork	1.26	7.13	453,769
	Wood Blocking	0.26	1.50	95,122
08	**Openings**	**4.59**	**25.90**	**1,647,566**
	Allowance No 2 Hardware	1.34	7.55	480,127
	Doors Frames	1.35	7.61	483,882
	Overhead Doors	0.12	0.68	43,458
	Storefronts Windows	1.58	8.93	568,221
	Automatic Sliding Doors	0.16	0.90	57,564
	AMA Testing	0.04	0.23	14,315
09	**Finishes**	**12.76**	**72.00**	**4,580,758**
	Painting	0.98	5.54	352,472
	Framing	3.37	19.00	1,208,608
	Drywall	2.99	16.87	1,073,134
	Insulation	0.71	3.99	253,593
	Sheathing	0.63	3.55	226,110
	Acoustical Ceiling	0.75	4.25	270,445
	Hard Ceiling	0.47	2.66	169,420
	Vinyl Flooring	1.15	6.52	414,635
	Sealed Concrete	0.29	1.64	104,448
	Porcelain Tile	1.41	7.98	507,893
10	**Specialties**	**1.77**	**9.98**	**634,695**
	Signage	0.51	2.86	181,851
	Toilet Partitions	0.03	0.15	9,326
	Wall Protection	0.34	1.94	123,601
	Flagpole	0.02	0.09	5,465
	Fire Ext Cabinets	0.02	0.09	5,875
	Canopies	0.25	1.44	91,382
	Toilet Accessories	0.16	0.92	58,659
	Shower Units	0.44	2.49	158,537
11	**Equipment**	**0.02**	**0.09**	**5,595**
	Dock Levelers	0.02	0.09	5,595
12	**Furnishings**	**0.20**	**1.11**	**70,373**
	Blinds	0.20	1.11	70,373
21	**Fire Suppression**	**1.01**	**5.69**	**361,818**
22	**Plumbing**	**11.51**	**64.94**	**4,131,650**
23	**HVAC**	**14.59**	**82.32**	**5,237,163**
25	**Integrated Automation**	**0.44**	**2.49**	**158,537**
26	**Electrical**	**14.14**	**79.79**	**5,076,341**
27	**Communications**	**2.15**	**12.11**	**770,301**
	Total Interior Costs	**20.87**	**117.71**	**7,487,878**
	Total Building Costs	**100.00**	**564.32**	**35,901,744**

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FILE 52

Stegenga + PARTNERS worked methodically with the client to understand the needs of the medical professionals and the expectations of the patients. By collaborating closely with orthopedic specialists and physical therapists, they applied invaluable insights into the client's workflows, desired patient experiences, and technical requirements.

A key to the success is the streamlined patient experience and efficient workflow. The Optim Orthopedic Center is divided into zones that cater to different stages of patient care: the MRI, Physical Therapy (PT), and Clinic Suites. The MRI Suite offers privacy and convenience to patients undergoing imaging procedures. The PT Suite boasts a dynamic space that caters to various physical therapy modalities while promoting a sense of community and support. The Clinic Suite embodies Optim's commitment to a patient-centric design. The exam modules are designed to facilitate smooth patient flow, ensure acoustical and visual privacy, and provide therapeutic efficiency during consultations and procedures.

The facility's interior layout optimizes patient flow, ensuring easy navigation for both patients and medical staff. Bright, open spaces, high ceilings, and strategically placed artwork create an inviting atmosphere that encourages optimism and a positive mindset for patients on their road to recovery. The digital imaging suite is equipped with the latest MRI and x-ray scan technology, giving the Care Team access to the highest quality medical imaging.

Waiting areas are strategically placed near windows, offering vistas of the outdoors to create a calming atmosphere. The facility is also designed to support a new second floor ambulatory surgery center (ASC).

The building mechanical system is a complete VRF system. Ground-level service gardens keep the mechanical units off the building roof. The future emergency generator will also be protected in the service garden for use during power outages or natural disasters.

By crafting a clinic that fosters positive healing, nurtures patient well-being, and harnesses advanced technologies, Optim Orthopedics is setting a new benchmark in orthopedic care.

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Code	Division Name	%	S F Cost	Projected
06	**Wood, Plastics, and Composites**	**5.91**	**21.56**	**480,465**
	Misc Rough Carpentry	0.56	2.03	45,303
	Millwork	5.35	19.53	435,162
08	**Openings**	**6.82**	**24.91**	**554,986**
	Doors & Frames	1.38	5.05	112,491
	Storefront & Glazing	2.71	9.90	220,494
	Door Hardware	0.78	2.83	63,099
	Polycarbonate	1.04	3.78	84,275
	Change Orders	0.92	3.35	74,628
09	**Finishes**	**13.34**	**48.68**	**1,084,827**
	Non Structural Metal Framing	4.26	15.54	346,249
	Gypsum Board	2.82	10.30	229,465
	Ceramic Tile	0.10	0.37	8,204
	Acoustical Ceiling Grid	0.98	3.59	79,973
	Acoustical Ceiling Tile	0.98	3.59	79,973
	Resilient Sheet Flooring	0.24	0.87	19,404
	Tile Carpeting	2.24	8.18	182,236
	Decorative Wall Panels	0.75	2.72	60,627
	Painting	0.73	2.67	59,443
	Change Orders	0.24	0.86	19,254
10	**Specialties**	**0.73**	**2.68**	**59,720**
	Walk Off Mat	0.28	1.01	22,533
	Wall & Door Protection	0.18	0.67	14,995
	Toilet & Bath Accessories	0.25	0.91	20,385
	Fire Protection Cabinets & Extinguishers	0.05	0.19	4,166
	Signage	0.17	0.63	14,069
	Wire Shelving System	0.05	0.18	3,994
	Change Orders	(0.25)	(0.92)	(20,423)
11	**Equipment**	**1.06**	**3.88**	**86,501**
	Exterior Sun Control	1.00	3.65	81,437
	Residential Appliances	0.06	0.23	5,064
12	**Furnishings**	**0.27**	**0.98**	**21,786**
	Blinds and Shades	0.27	0.98	21,786
13	**Special Construction**	**3.20**	**11.69**	**260,459**
	Shielding and Radiation Protection	3.20	11.69	260,459
21	**Fire Suppression**	**1.40**	**5.09**	**113,469**
22	**Plumbing**	**2.45**	**8.95**	**199,361**
23	**HVAC**	**11.80**	**43.06**	**959,524**
26	**Electrical**	**11.25**	**41.07**	**915,185**
27	**Communications**	**0.35**	**1.26**	**28,139**
	Total Interior Costs	**31.33**	**114.38**	**2,526,958**
	Total Building Costs	**100.00**	**364.96**	**8,132,367**

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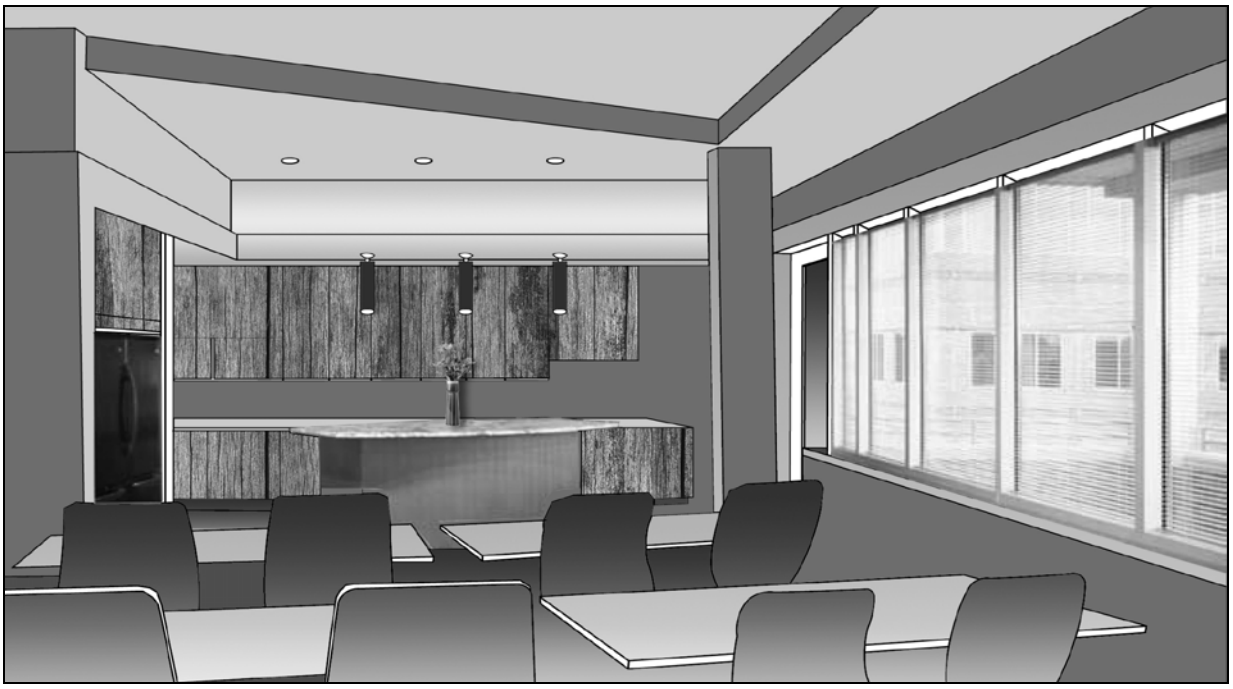
FILE 53



The Pinnacle Corporate Centre campus is a four-building collection of Class-A corporate headquarters providing headquarters for a range of highly professional service firms and financial institutions.

The recent Pinnacle III Office Tenant Finish, designed by Hoefer Wysocki Architects, occupies 18,400 square feet on the top floor, connecting to the building's sole balcony on the east façade. The main entry has an abundance of glass partitions allowing light to penetrate the entire space through the entry, the main lobby, and the boardroom, the space's primary conference room.

The space is arranged around the central lobby with open office areas on either side. The open office arrangement, with glass-lined and open executive offices lining each bay, allows light to penetrate easily throughout the space, offering nearly every seat a clear view to the outdoors and ample light.

The essential shape of the main lobby is an elegant ellipse which echoes the ellipse of the first floor lobby. Its shape is outlined in the recessed ceiling details and echoed on the floor through a combination of curved walls, cut terrazzo, and carpet. A glass cloud element above the main reception desk echoes the shape again.

The palette of interior materials is warm and modern, utilizing generous amounts of wood, terrazzo, glass, stone, and steel baseboard. The central vertical elements of the main lobby are sculpted Armourcoat finishes, mimicking natural stone, giving form to the ellipse from floor to ceiling, and offering the highest level of sophistication.

Evenly throughout the plan are a variety of spaces for teaming and conferencing. Three open resource/meeting areas, three glass-enclosed conference rooms and one large, flexible, and divisible space for a variety of functions, offer a range of spaces for collaboration. The terrace and the veranda are flexible spaces on the east end of the plan that serve as all-staff meeting space, presentation space, work areas, and the employee kitchen/break area. The two spaces can be divided by a fabric partition that recedes into the wall.

Each workstation is connected to the office network, joined by the central IT office and server room. While the boardroom, terrace, and veranda spaces are equipped with built-in and stand-alone projection and sound systems, an office-wide audio system is controlled from the IT office.

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Code	Division Name	%	S F Cost	Projected
00	**Procurement and Contracting Requirements**	**5.98**	**5.29**	**97,204**
	Revisions Clarifications	5.98	5.29	97,204
05	**Metals**	**0.10**	**0.10**	**1,664**
	Fabrications	0.10	0.10	1,664
06	**Wood, Plastics, and Composites**	**5.07**	**4.70**	**86,674**
	Rough Carpentry	0.36	0.35	6,117
	Finish Carpentry	3.75	3.47	64,095
	Architectural Woodwork	0.96	0.90	16,462
08	**Openings**	**6.37**	**5.64**	**104,088**
	Doors & Frames	2.48	2.20	40,463
	Specialty Doors & Frames	1.13	1.00	18,527
	Windows	2.76	2.44	45,097
09	**Finishes**	**38.60**	**34.88**	**642,200**
	Plaster & Gypsum Board	17.78	16.06	295,912
	Ceilings	6.80	6.16	113,202
	Flooring	5.96	5.39	99,194
	Wall Finishes	1.30	1.18	21,695
	Tiling	0.51	0.46	8,517
	Special Finishes	0.83	0.76	13,843
	Carpet	4.48	4.03	74,548
	Granite Tops	0.92	0.84	15,292
12	**Furnishings**	**0.96**	**0.87**	**16,023**
	Casework	0.96	0.87	16,023
21	**Fire Suppression**	**1.22**	**1.06**	**19,709**
22	**Plumbing**	**1.62**	**1.41**	**26,203**
23	**HVAC**	**14.12**	**12.42**	**228,594**
26	**Electrical**	**11.77**	**10.37**	**190,568**
27	**Communications**	**11.76**	**10.34**	**190,345**
28	**Electronic Safety and Security**	**2.43**	**2.14**	**39,410**
	Total Interior Costs	**51.00**	**46.11**	**848,984**
	Total Building Costs	**100.00**	**89.27**	**1,643,722**

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FILE 54

The Wade Walker Park Family YMCA facility replaces an aging exterior community pool in an existing park with a high performance, sustainable community building providing new recreational, educational, and well-being activities to all ages. Located on a sloping site with a view to a dense tree stand to the rear of the building, the pool is located at the high point while the gymnasium is down one level, cut into the hill. The building design centers around a welcoming multi-story lobby serving as the main entrance and organizing element for the aquatics, athletics, and education programs. The lobby is intended as a beacon when approaching the building. Large glass areas at each end of the lobby space allow views to an interior with the warmth of an exposed wood ceiling. Natural light and views to the surrounding park are provided in all program spaces. Accents of stone were used in both the interior and exterior to reference the nearby monument, grounding the design to this area. The facility is designed under sustainable guidelines with the objective of achieving LEED® certification.

Educational program elements include providing for computer classes, arts and crafts, dance, and community meeting space. The gymnasium provides for a full basketball court with a suspended running track above. The aquatics program includes an instructional pool, a whirlpool and a sauna off the pool deck, as well as an outdoor leisure pool. Located north of the indoor pool, separated only by a full-height glass wall, the leisure pool is full of features including a zero beach entry, a vortex, a mushroom, water basketball, interactive play structure and a corkscrewing slide.

Despite the presence of two pools at the facility, water usage for the building was minimized through the use of ultra low flow plumbing fixtures, high efficiency pumps and regenerative media filters for the pool, an ultraviolet water sanitizing system, and recycling rainwater for WC flushing. Additionally, minimal irrigation is provided for the landscape. Native plants have been selected based upon their low maintenance needs. Locally sourced and manufactured materials were used to reduce the impact of the project construction on the environment. Recycled materials were utilized — steel, linoleum, carpet, concrete and masonry. Additionally, 50-75% of construction waste was recycled. Long-term maintenance, life-cycle costs, and environmental stewardship provided direction in all decisions, as the Wade Walker Park Family YMCA is to be used as a model for future LEED projects for the County Recreation Department.

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Code	Division Name	%	S F Cost	Projected
06	**Wood, Plastics, and Composites**	**1.33**	**6.76**	**399,835**
	Wood Plastics & Composites	1.33	6.76	399,835
07	**Thermal and Moisture Protection**	**6.35**	**32.38**	**1,914,234**
	Thermal & Moisture Protection	6.35	32.38	1,914,234
08	**Openings**	**5.31**	**27.11**	**1,603,004**
	Openings	5.31	27.11	1,603,004
09	**Finishes**	**12.65**	**64.50**	**3,815,195**
	Finishes	12.65	64.50	3,815,195
10	**Specialties**	**1.02**	**5.22**	**309,193**
	Specialties	1.02	5.22	309,193
11	**Equipment**	**1.44**	**7.35**	**434,145**
	Equipment	1.44	7.35	434,145
21	**Fire Suppression**	**0.55**	**2.79**	**165,399**
22	**Plumbing**	**4.76**	**24.27**	**1,435,141**
23	**HVAC**	**11.33**	**57.79**	**3,417,472**
26	**Electrical**	**9.40**	**47.99**	**2,837,207**
	Total Interior Costs	**28.09**	**143.33**	**8,475,603**
	Total Building Costs	**100.00**	**510.17**	**30,168,100**

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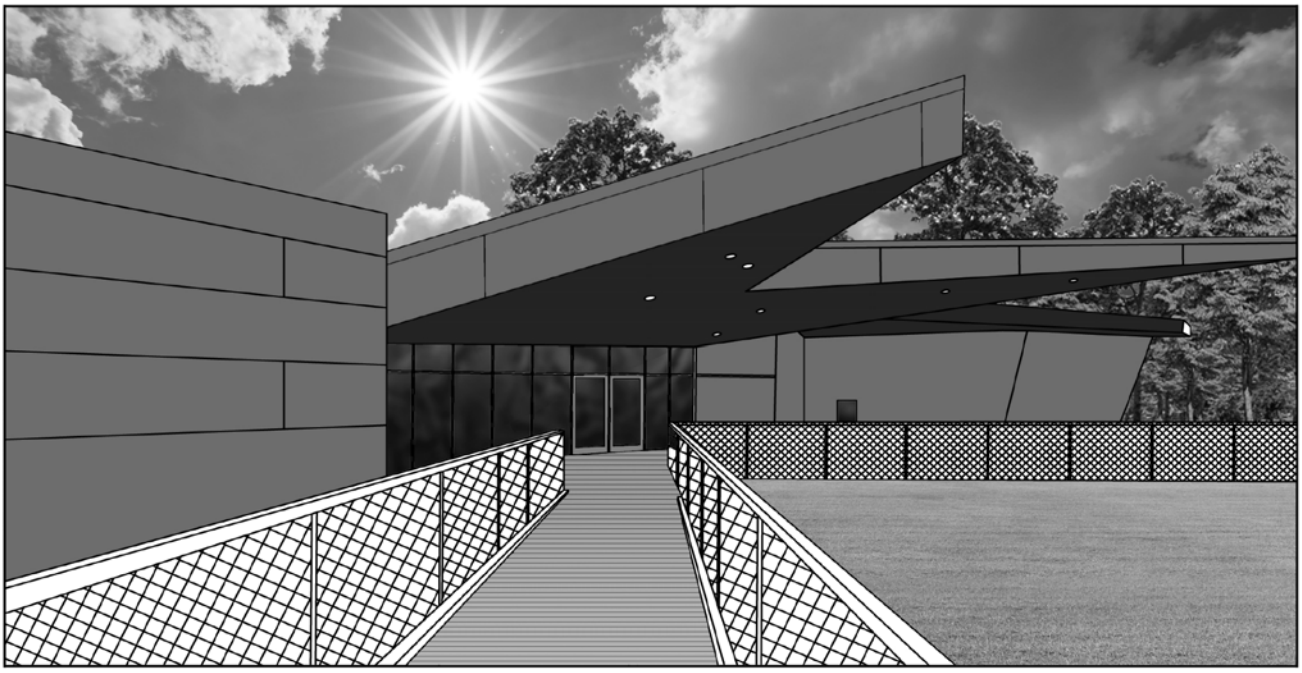
FILE 55



The Trinity River Audubon Center resides within the largest urban hardwood forest in the United States only a few miles from the nearby urban downtown environment. At this intersection of city and nature, the center is sculpted by elements of the natural world – earth, water, and air. This site, previously overlooked for decades, was improperly used as a waste landfill while coexisting with century old native trees and serpentine, deeply cut riverbanks. The facility distills the energy of this restored place through exhibits, classrooms, and research laboratories that celebrate the land.

Each wing reflects a different biome of the Great Trinity Forest. The dichotomy of concrete feather walls softens the envelope while reminding visitors of Audubon's focus. The spaces are flexible and energy efficient. An outdoor corridor to classrooms reduces the need for conditioned space. Partitioned rooms are used as small classrooms or opened for large meeting areas. The great hall and cafe are also open to house various types of events and provide visitors a comfortable space to appreciate nature from the indoors. Perhaps more significant however, is the dedication shown in restoring this expansive site. Following the state's criteria and with the goal of returning the land to its natural state for use with future generations, the plan consolidated the waste into capped hills replanted with prairie grass and native trees. At the base of the hills, a series of cascading wetland marshes and ponds captures and polishes runoff from adjoining neighborhoods and prairies before returning the cleansed water to the river.

As one of the first of the Trinity River Corridor projects to be completed, the center is a true testament to designing within the context of the natural environment. Perhaps greater than what the building represents — a sustainable model that responds to the specific conditions of its site — is what this building actually brings to the Southeast Dallas community; namely, an educational, and community shared space that is a catalyst and true example of change and hope within a community that has long needed both. With a living laboratory that will host thousands of school children a year and a gathering space for a variety of community events throughout the year, the new Trinity River Audubon Center has already succeeded in bringing together the urban community with the green environment virtually at their doorstep that most never realized existed.

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Code	Division Name	%	S F Cost	Projected
06	**Wood, Plastics, and Composites**	**1.50**	**16.76**	**348,536**
	Interior Woodwork	1.50	16.76	348,536
07	**Thermal and Moisture Protection**	**0.12**	**1.33**	**27,904**
	Spray Thermal Insulation	0.12	1.33	27,904
08	**Openings**	**6.21**	**69.50**	**1,445,203**
	Door Frame Hardware	0.65	7.26	150,760
	Door & Hardware Change Order	0.05	0.54	11,199
	Overhead Coiling Grid	0.02	0.27	5,620
	Aluminum Entrances & Storefronts	2.20	24.59	511,050
	Glazed Aluminum Curtain Wall	3.29	36.88	766,573
09	**Finishes**	**7.44**	**83.25**	**1,730,954**
	Plaster	0.20	2.25	47,016
	Drywall Wall Framing Assemblies	3.15	35.30	734,121
	Ceiling Assemblies	1.92	21.50	447,168
	Drywall Change Order	0.00	0.01	211
	Rubber Flooring	0.21	2.29	47,834
	Bamboo Flooring	0.51	5.76	119,587
	Carpet Ceramic Tile	0.31	3.44	71,753
	Fire Tape & Bed Interior Walls	0.54	6.07	126,102
	Painting	0.54	6.07	126,102
	Painting Change Orders	0.05	0.54	11,063
10	**Specialties**	**0.53**	**5.94**	**123,316**
	Misc Specialties	0.30	3.32	69,147
	Interior Signage	0.04	0.40	8,177
	Operable Panel Partition	0.20	2.20	45,996
11	**Equipment**	**5.19**	**58.12**	**1,208,462**
	Exhibits	5.22	58.38	1,213,741
	Exhibit Change Orders	(0.02)	(0.26)	-5,279
12	**Furnishings**	**0.44**	**4.92**	**102,211**
	Floor Mats & Frames	0.20	2.20	45,996
	Window Treatments	0.24	2.70	56,215
13	**Special Construction**	**4.44**	**49.72**	**1,033,554**
	Discovery Garden	4.44	49.72	1,033,554
21	**Fire Suppression**	**0.47**	**5.29**	**109,620**
22	**Plumbing**	**6.71**	**75.14**	**1,562,199**
23	**HVAC**	**8.17**	**91.42**	**1,900,947**
26	**Electrical**	**8.62**	**96.49**	**2,006,010**
27	**Communications**	**0.29**	**3.29**	**68,224**
	Total Interior Costs	**25.87**	**289.57**	**6,020,142**
	Total Building Costs	**100.00**	**1,119.32**	**23,272,047**

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FILE 56

The building's design was to create a strong iconic image easily recognized from the Ohio River Bridge while blending in with New Albany's historic downtown district. The building features projecting panels of brick with architectural pre-cast concrete banding and matching glass fiber reinforced concrete cornice and recessed sections of aluminum composite paneling. Large windows invite daylight into the building while putting the YMCA's athletic programming and mission on display at night. The 82,000-square-foot facility has three floors above grade with a mechanical basement that serves the building's three pools.

YMCA members and guests enter into a dramatic three-story lobby with a large, triangular skylight above that orients and organizes the building. From this atrium there are views into several spaces made possible by the very open design including the aquatic center, gymnasium, climbing wall, child watch, and multi-purpose meeting room all located on the first floor.

The aquatic center is a 1-½ story space and home to three pools. A family fun pool begins with a zero depth spray pad with play features sloping gently toward 4-ft. of water and a curving slide. A 6-lane, 25-yard pool is for lap swimming and water fitness. A curtain wall separates a 22' x 60' warm water pool where physical therapy, aerobics, and arthritis classes will occur.

The first floor also includes boys, girls, and family locker rooms as well as an XRKade, where active gaming creates a fun alternative to traditional exercise for kids. A curving monumental stair with frosted glass handrails leads guests to the second floor where the large group exercise studio and machine weight training area is located. Adult male and female locker facilities feature steam and sauna rooms. A walking and running track encircles the gymnasium while offering views onto Main Street.

The third floor features a cardiovascular area with windows looking out toward the Ohio River, free weights, and a small group exercise studio for spinning and yoga classes. Also located on the third floor are three physical therapy exam rooms, 8,000 square feet of not-for-profit lease space, and the YMCA of Southern Indiana administrative offices.

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Code	Division Name	%	S F Cost	Projected
06	**Wood, Plastics, and Composites**	**0.91**	**4.29**	**352,300**
	Custom Cabinets	0.68	3.20	263,642
	Finish Carpentry	0.04	0.18	13,999
	Rough Carpentry	0.19	0.91	74,660
07	**Thermal and Moisture Protection**	**0.30**	**1.43**	**116,657**
	Board Insulation	0.30	1.43	116,657
08	**Openings**	**1.26**	**5.93**	**487,619**
	Door Hardware	0.36	1.72	139,986
	Stainless Steel Doors	0.28	1.33	109,655
	Steel Doors & Frames	0.36	1.72	139,986
	Wood Doors	0.25	1.19	97,990
09	**Finishes**	**7.28**	**34.21**	**2,816,759**
	Carpet	0.51	2.41	198,314
	Ceramic Tile	1.92	9.05	744,495
	Hardwood Flooring	0.55	2.62	214,647
	Metal Studs/Drywall	2.25	10.57	870,249
	Paint & Coatings	0.79	3.70	304,704
	Resilient Flooring & Base	0.27	1.27	104,056
	Sport Flooring	0.31	1.47	121,322
	Suspended Acoustical Ceilings	0.67	3.15	258,976
10	**Specialties**	**0.66**	**3.10**	**254,774**
	Fire Extinguishers	0.02	0.09	6,998
	Horizontal Screens	0.34	1.59	130,655
	Metal Lockers	0.10	0.46	37,796
	Toilet Accessories	0.09	0.42	34,996
	Toilet Partitions	0.11	0.54	44,329
11	**Equipment**	**1.88**	**8.86**	**728,163**
	Chemical Equipment/UV	0.61	2.84	234,710
	Gymnasium Equipment	0.20	0.93	76,992
	Paddock Equipment	1.08	5.07	416,461
12	**Furnishings**	**0.06**	**0.27**	**21,466**
	Swimsuit Extractors	0.02	0.12	8,166
	Telescopic Bleachers	0.03	0.15	13,299
13	**Special Construction**	**2.97**	**13.96**	**1,150,921**
	Saunas	0.08	0.38	30,330
	Steam Rooms	0.05	0.26	20,997
	Swimming Pool	2.84	13.35	1,099,593
21	**Fire Suppression**	**1.41**	**6.66**	**547,121**
22	**Plumbing**	**11.80**	**55.49**	**4,567,430**
23	**HVAC**	**9.09**	**42.70**	**3,515,846**
26	**Electrical**	**9.07**	**42.64**	**3,509,659**
27	**Communications**	**0.34**	**1.59**	**130,885**
28	**Electronic Safety and Security**	**0.20**	**0.92**	**76,424**
	Total Interior Costs	**15.32**	**72.01**	**5,928,659**
	Total Building Costs	**100.00**	**469.99**	**38,691,062**

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FILE 57

The 14,550-square-foot building houses a 75,590-gallon tank with water depths varying from five to twelve feet and features both above ground and underwater viewing areas. A hand-crafted rocky shoreline, air temp at a chilly 45 degrees, and falling snow emulate the Antarctic conditions. The entire exhibit processes light from day to night and uses seasonal lighting cycles to help regulate the penguins' hormonal balancing and breeding functions.

As visitors follow the exhibit's circulation pathway they encounter multiple, interactive educational activities. The first, a replica of a research vessel, creates the feeling of being on an ocean-going ship. Videos of the ship's bow cutting through the ocean reinforce the impression of being at sea. Interactive touch screens inside the vessel guide the visitor in learning about the different penguin species found in the southern hemisphere and the environmental factors that impact them. Among the interactive educational components scattered throughout the exhibit are "Ice Breaker" games, allowing multiple, hands-on, learning experiences, and a "selfie" station for photos with the penguins.

The underwater viewing room, the Ice Cave, is where visitors can step into a 10-foot-high view bubble that allows them to step into the exhibit and be surrounded by water and swimming penguins. A ceiling lighting system fluidly changes colors to reflect the Aurora Australis, also known as the Southern Lights.

Visitors needing refuge from the chilly climate can step onto the outdoor, multi-function deck, which provides an overlook of the zoo's park setting and nearby animal exhibits.

The design team's approach to this facility treated the exterior as an art installation with a stylistic iceberg-like facade while the interior imitates the Antarctic environment.

Designed to focus on the well-being of the animals and to encourage natural behaviors, the exhibit features a variety of high and low rock outcroppings for enrichment activities and nooks for resting or nesting. Support space for the keepers is organized for ease and safety of access to the animals, with areas for health care, feeding prep, and quarantine. The life support system cycles water through sand filters with a water turn-over rate every 30-60 minutes.

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Code	Division Name	%	S F Cost	Projected
06	**Wood & Plastics**	**0.42**	**5.61**	**92,648**
	Misc Rough Carp & Sheathing	0.42	5.61	92,648
07	**Thermal & Moisture Protection**	**3.53**	**47.18**	**778,980**
	Cold Fluid Applied WP	0.68	9.14	150,869
	Exhibit Flexible Cement WP	1.35	17.97	296,797
	Exhibit Epoxy Reinforce WP	0.43	5.80	95,736
	Water Repellents	0.26	3.44	56,889
	Thermal Insulation	0.81	10.82	178,688
08	**Doors & Windows**	**6.38**	**85.24**	**1,407,389**
	HM Frames	0.64	8.60	141,939
	HW Install	0.10	1.32	21,725
	Access Doors & Frames	0.02	0.32	5,344
	OH Coiling Doors	0.08	1.08	17,681
	Alum Windows Framing Glazing	0.37	4.98	82,279
	Acrylic Glazing Submit & Mat	1.25	16.70	275,825
	Acrylic Glazing Fab & Install	3.29	43.97	725,920
	Acrylic Open	0.32	4.29	70,758
	SS Angle At Acrylic	0.30	3.99	65,916
09	**Finishes**	**2.79**	**37.26**	**615,212**
	GYP Assem Met Frm Shaft Walls	1.23	16.41	271,023
	Tiling Res Floor Base Access	0.72	9.55	157,729
	Acoustic Panel Ceilings	0.02	0.28	4,551
	Resinous Matrix Terrazzo Floor	0.20	2.73	45,023
	Painting	0.62	8.29	136,884
10	**Specialties**	**0.11**	**1.45**	**23,894**
	Signage	0.04	0.51	8,452
	Toilet Accessories	0.03	0.37	6,177
	FEC	0.02	0.23	3,738
	Metal Lockers	0.03	0.33	5,526
11	**Equipment**	**0.55**	**7.30**	**120,539**
	Equipment & Appliances	0.55	7.30	120,539
12	**Furnishings**	**0.07**	**0.99**	**16,175**
	Entr Mats & Frames	0.01	0.10	1,690
	Counter Tops	0.07	0.88	14,486
15	**Mechanical**	**19.32**	**258.02**	**4,260,448**
16	**Electrical**	**7.12**	**95.03**	**1,569,153**
	Total Interior Costs	**13.85**	**185.01**	**3,054,836**
	Total Building Costs	**100.00**	**1,335.28**	**22,048,202**

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FILE 58

The owners made a bold decision to expand the facility by 11,305 square feet, to attract a wider range of customers and lead to a completely renovated and expanded facility, which includes an enlarged retail area and club repair, along with a restaurant, bar, and state-of-the-art kitchen.

5 Under Golf Center offers four suites that feature large screens that can simulate golf courses, baseball pitching, hockey, and other games. Guests can compete against each other in virtual games from the comfort of the lounge, with service from the bar and full-service restaurant.

Outside, a new two-level tee box overlooks the new driving range, which can help players track their shots, get feedback and play virtual courses against their friends. This renovation made 5 Under Golf Center much more than just a golf course; with indoor simulator games for high-tech gaming, a DJ Night for entertainment, and a bar and restaurant, it has something for everyone in the family.

Each simulation bay features a massive screen with a selection of virtual games, allowing you to hit a golf ball, throw a baseball, kick a soccer ball, and even attack zombies through a virtual screen! The game suites are surrounded by the lounge area with a full-service bar and restaurant. The indoor Topgolf Swing Suite simulators have a variety of different games, including over 140 golf courses you can choose from.

The outdoor driving range is two stories with 20 bays, powered by Toptracer Range technology. Serving the outdoor range area is patio dining, a music stage, restrooms, and an additional bar.

The renovation also provided new parking, landscaping, and updated exterior signage.

During renovation, the existing building was completely gutted and revamped. The existing driving range continued to remain open, and a mobile retail unit helped serve customer needs during construction.

5 Under Golf Center has brought the game of golf to all levels of players, and made it a family affair. This has enabled them to maintain their existing customer base as well as attract new customers who have never played golf before. The renovation has helped feed this growth with a state-of-the-art bar and kitchen that offers a wide variety of menus for the whole family.

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Code	Division Name	%	S F Cost	Projected
06	**Wood, Plastics, and Composites**	**2.68**	**13.18**	**149,103**
	Pergola Seating Addition	0.19	0.96	10,830
	Architectural Woodwork	1.69	8.29	93,710
	Knee Walls at Retail	0.04	0.22	2,423
	Custom Club Holders	0.13	0.65	7,354
	Custom Cabinetry	0.35	1.73	19,533
	Driver Display Built In	0.10	0.47	5,345
	Owner Requested Cabinetry Items	0.14	0.72	8,060
07	**Thermal and Moisture Protection**	**0.04**	**0.22**	**2,388**
	Roof Curbs at Kitchen Exhaust Fans	0.04	0.22	2,388
08	**Openings**	**2.05**	**10.07**	**113,908**
	Hollow Metal/Wood Doors and Hardware	0.79	3.90	44,101
	Door & Hardware Installation	0.05	0.26	2,866
	Access Doors Material	0.01	0.08	796
	Double Acting Kitchen Door	0.06	0.32	3,552
	Glass & Glazing	1.12	5.49	62,034
	Add Storefront Doors to Covered Patio	0.01	0.05	557
09	**Finishes**	**8.05**	**39.56**	**447,327**
	Drywall & Acoustic	2.83	13.89	157,069
	Painting	2.27	11.17	126,353
	Fabric Curtains at Hitting Bays	0.14	0.68	7,643
	Carpet, Rubber Flooring & Tiling	2.74	13.49	152,539
	Clear Coat Steel Columns	0.07	0.33	3,724
10	**Specialties**	**2.75**	**13.52**	**152,833**
	Canopies at Covered Patio	1.77	8.70	98,327
	Toilet Accessories, Fire Extinguisher Cabinets	0.27	1.32	14,931
	Knox Box	0.02	0.09	1,036
	Aluminum Canopy at Cooler	0.23	1.15	13,012
	Aluminum Connection Canopies	0.45	2.21	25,073
13	**Special Construction**	**35.26**	**173.41**	**1,960,401**
	Outdoor Range Structure	24.57	120.86	1,366,234
	Outside Bar Modifications	3.88	19.10	215,828
	Putting Green Installation	0.15	0.73	8,257
	Rectify Base from Netting Installation	0.09	0.45	5,036
	Restroom Addition	6.51	32.00	361,741
	Storage Closet at Restroom	0.06	0.29	3,306
22	**Plumbing**	**4.63**	**22.76**	**257,249**
23	**HVAC**	**8.11**	**39.87**	**450,751**
26	**Electrical**	**9.29**	**45.67**	**516,253**
27	**Communications**	**5.21**	**25.64**	**289,798**
28	**Electronic Safety and Security**	**0.25**	**1.25**	**14,148**
	Total Interior Costs	**50.83**	**249.97**	**2,825,961**
	Total Building Costs	**100.00**	**491.80**	**5,559,785**

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FILE 59

The Mockingbird Terrace Condominiums are located on a rugged four-acre hillside site overlooking the scenic Mockingbird Valley area of Louisville, Kentucky. Major efforts were directed towards creating a design solution, which would blend with the existing homes of the valley while offering spectacular views of the surrounding area.

The development consists of two buildings containing twenty-five residential condominiums on five floors, secured underground parking for fifty cars, and a small fitness room.

The building massing was designed to create a lodge-like feeling with comfortable residential details and off-sets.

The main lobby and hallways utilize custom-designed tiger wood veneer panels. Several of these panels conceal mechanical areas and refuse chute doors. These door panels operate with concealed hinges and openers. All spaces have 10-foot ceiling heights. One 350 FPM traction elevator serves freight as well as residential traffic.

The exterior is primarily EIFS on the first and top floors and Nichia Cement Fiber Panels on floors two through five. Each unit has a balcony with built-in planter boxes.

The foundations are spread footings anchored into rock and reinforced concrete basement walls. Exterior decks and basement concrete contain Kryton admixture for waterproofing. The floor systems include four-inch concrete and metal deck over bar joist and joist girders with steel columns and brace frames. Exterior and partition walls are metal studding.

The windows and doors are high-performance Andersen clad double hung. The mechanical system is a high-efficiency heat pump with each condominium home having individual control of the unit's comfort level. The bathrooms include low-flow dual flush fixtures and kitchen appliances are Energy Star® rated.

Exterior walls are 6-inch blown wet cellulose and 2-inch rigid EPS over sheathing. The attic is rated at R50 and the walls are rated R25. The project is designed to LEED® guidelines and has been submitted for certification.

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Code	Division Name	%	S F Cost	Projected
06	**Wood, Plastics, and Composites**	**3.57**	**7.18**	**510,835**
	Casework & Cabinets	2.81	5.64	401,652
	Finish Carpentry	0.10	0.20	13,880
	Wood Base Material	0.67	1.33	95,302
08	**Openings**	**2.88**	**5.56**	**393,830**
	Hardware Material	0.44	0.84	60,723
	Masonite Doors Material	1.85	3.56	253,196
	Metal Doors & Frames Material	0.18	0.33	23,935
	Window Planter Boxes	0.12	0.24	16,989
	Wood Doors Material	0.29	0.55	38,988
09	**Finishes**	**7.49**	**14.67**	**1,043,411**
	Acoustical Ceilings Basement	0.44	0.84	60,833
	Carpet & Wood Floor	3.00	5.88	417,742
	Floor Leveling for Wood	0.09	0.18	12,927
	Painting	2.47	4.84	344,024
	Tile	1.49	2.93	207,889
10	**Specialties**	**0.18**	**0.36**	**25,556**
	Toilet Accessories	0.11	0.20	14,744
	Wire Shelving	0.08	0.17	10,813
11	**Equipment**	**0.88**	**1.73**	**122,866**
	Appliances	0.88	1.73	122,866
14	**Conveying Systems**	**2.76**	**5.31**	**377,944**
	Elevators	2.40	4.62	328,172
	Increase Elevator Speed	0.25	0.50	34,126
	Trash Chute	0.11	0.23	15,645
21	**Fire Suppression**	**2.25**	**4.29**	**304,941**
22	**Plumbing**	**8.37**	**15.95**	**1,133,618**
23	**HVAC**	**4.04**	**7.72**	**547,569**
26	**Electrical**	**5.64**	**10.74**	**763,557**
	Total Interior Costs	**17.77**	**34.80**	**2,474,442**
	Total Building Costs	**100.00**	**193.42**	**13,753,676**

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FILE 60

Located 1.5 miles from downtown and the first new project in San Antonio's new River North District, this adaptive reuse project transformed the concrete superstructure of an abandoned housing project.

Occupying two city blocks, the four-story project includes 308 loft apartments and 15,000 square feet retail/office space organized around five courtyards. 1221 Broadway was designed as an urban compound for living. All circulation is outdoors on single loaded cantilevered walkways linked by bridges over Avenue B and alleys to the five-story parking garage. The connection to the five courtyards and to the outdoors creates both a unique oasis and urban street presence.

Forty different unit types ranging from a 450-square-foot studio to an 850-square-foot one bedroom and a 1,150-square-foot two bedroom lofts are available. The average unit size is 700 square feet. The project was 100% leased within 1.5 months of completion.

The reuse of 21 relatively inflexible buildings constructed of poured-in-place concrete structure, walls, floor and ceiling posed a re-design challenge; the decision to retain the structure and aerated autoclaved concrete unit kept tons of demolished material from the landfill and construction resources were reused. The combination of the thermal lag due to the concrete mass, well sealed and insulated envelope and high performing windows all contribute to the energy efficiency and thermal comfort enjoyed by the tenants.

Full height living screens, as they mature, will provide some privacy and protect the apartment unit entries from low sun angles. New and existing trees occupy the 5 courtyards and provide shaded places for tenants to gather. Openings between buildings allow breezes to flow thru the courtyards. Three rainwater harvesting tanks store 38,000 gallons of water for landscape irrigation and fountains. Phase two of the project includes office/retail lease space on the ground level.

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Code	Division Name	%	S F Cost	Projected
06	**Wood, Plastics, and Composites**	**4.57**	**9.60**	**1,969,742**
	Cabinets	2.88	6.07	1,243,882
	Finish Carpentry	0.71	1.50	305,663
	Rough Carpentry	0.97	2.05	420,197
07	**Thermal and Moisture Protection**	**7.90**	**16.64**	**3,409,948**
08	**Openings**	**7.95**	**16.72**	**3,429,789**
09	**Finishes**	**13.12**	**27.60**	**5,661,676**
	CFMF Eng Shops	0.05	0.09	19,882
	Drywall	7.32	15.40	3,156,328
	Floor Sealing	0.22	0.46	94,042
	Layout	0.05	0.09	22,221
	Metal Stud	0.50	1.06	217,121
	Painting	2.85	6.00	1,229,207
	Resilient Flooring	1.18	2.50	509,256
	Tile	0.96	2.01	413,622
10	**Specialties**	**1.04**	**2.19**	**450,449**
	Bath	0.02	0.05	8,888
	Fire Extinguishers	0.02	0.03	7,250
	Life Safety Signage	0.02	0.03	7,018
	Postal	0.02	0.05	10,527
	Shelving	0.04	0.08	17,920
	Specialties	0.92	1.93	398,845
11	**Equipment**	**2.51**	**5.29**	**1,082,785**
	Appliances	2.13	4.49	920,439
	Residential Appliances	0.38	0.79	162,346
12	**Furnishings**	**0.64**	**1.33**	**274,348**
	Blinds	0.08	0.15	32,760
	Blinds & Shades	0.29	0.60	123,575
	Curtains	0.04	0.08	18,246
	Granite Countertops	0.20	0.42	86,200
	Mirrors	0.03	0.06	13,565
13	**Special Construction**	**9.62**	**20.22**	**4,150,295**
	Special Construction	2.44	5.15	1,053,496
	Accessory Buildings	7.18	15.09	3,096,797
14	**Conveying Systems**	**1.00**	**2.10**	**430,291**
21	**Fire Suppression**	**0.54**	**1.13**	**231,571**
22	**Plumbing**	**8.51**	**17.91**	**3,671,491**
23	**HVAC**	**4.10**	**8.61**	**1,768,238**
26	**Electrical**	**9.95**	**20.94**	**4,291,945**
27	**Communications**	**0.05**	**0.09**	**21,480**
28	**Electronic Safety and Security**	**0.16**	**0.33**	**67,203**
	Total Interior Costs	**47.35**	**99.58**	**20,429,034**
	Total Building Costs	**100.00**	**210.29**	**43,138,779**

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FILE 61

Designed as a contiguous structure, the building twists and turns as it meanders along the site. Developing the parking areas along the travel route allowed for the building to hug the river and provide exciting vistas from all angles. The interplay of the apartment blocks allows those living here privacy and respite, while aiding in forging a complete community.

The architecture reflects the coastal nature of the site. Broad overhangs, large windows to enjoy the views, dormers reminiscent of historic beach cottages, and the casual colors of the project all combine to create a design that feels at home with the beach.

The building footprint allows for the majority of units to enjoy the surrounding natural environment. Using a concrete podium design under a portion of the building caused the parking field to be greatly reduced, therefore increasing access of the remaining portions of the site to the environment. The site plan is extremely efficient, with double-loaded drive aisles and head-in parking along the roadside portion of the site. Entrances dispersed around the perimeter allow for easy entry, while providing the necessary security. The efficiency of the site layout allows for a higher density while decreasing the impervious area. The recreation area is sited to take advantage of the natural sun path, and allows for the pool area to receive the maximum amount of sunlight during the day.

Building materials were selected for their durability and economics. The base of the building utilizes a split-face CMU veneer, which grounds the building and provides the durability and protection needed to withstand the climate. Above this veneer, the planar design dictates the use of materials around the façade. Using mostly durable synthetic materials, the façade is designed to withstand days of bright sunlight while staying in place during a hurricane.

Taking advantage of the roof area on the top floor, the uppermost apartments utilize an open loft to create warmth and volume. This volume – when combined with the dormers – is unique in our area, and allows one to go back in time when ceiling shape was a leading design tool.

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Code	Division Name	%	S F Cost	Projected
06	**Wood, Plastics, and Composites**	**7.73**	**11.25**	**3,731,442**
	Finish Carpentry	3.28	4.77	1,583,529
	Cabinets	4.45	6.48	2,147,913
07	**Thermal and Moisture Protection**	**1.17**	**1.70**	**562,356**
	Insulation	1.17	1.70	562,356
08	**Openings**	**1.69**	**2.46**	**817,142**
	Doors	1.09	1.59	527,843
	Windows	0.57	0.82	274,072
	Glass	0.03	0.05	15,226
09	**Finishes**	**11.73**	**17.08**	**5,662,554**
	Drywall	5.57	8.12	2,689,967
	Tile Work	1.62	2.36	781,614
	Acoustical	0.07	0.09	33,498
	Resilient Flooring	0.16	0.22	76,132
	Painting and Decorating	1.64	2.38	791,763
	Carpets	1.02	1.47	490,589
	Common Area Finishes	1.66	2.41	798,991
10	**Specialties**	**0.81**	**1.18**	**389,791**
	Specialties	0.81	1.18	389,791
11	**Equipment**	**3.93**	**5.71**	**1,896,234**
	Appliances	3.32	4.84	1,603,828
	Exercise Equipment	0.61	0.88	292,404
12	**Furnishings**	**0.34**	**0.49**	**162,413**
	Artwork	0.34	0.49	162,413
13	**Special Construction**	**0.60**	**0.87**	**288,972**
	Pool	0.60	0.87	288,972
14	**Conveying Systems**	**0.61**	**0.87**	**292,070**
21	**Fire Suppression**	**1.69**	**2.46**	**814,095**
22	**Plumbing**	**5.49**	**7.99**	**2,647,141**
23	**HVAC**	**7.01**	**10.20**	**3,384,538**
26	**Electrical**	**10.62**	**15.45**	**5,123,622**
	Total Interior Costs	**28.00**	**40.74**	**13,510,902**
	Total Building Costs	**100.00**	**145.50**	**48,256,818**

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FILE 62

Building C, Academy Place at Houma, Louisiana, is a senior housing development that includes a new 56-unit, 47,000-square-foot, three-story multi-family housing development that is age restricted to seniors 62 and up. In addition (and separately on-site), is a complete renovation of the historic Houma Elementary School, which includes 47 apartments (costs not included with this project).

The development is immediately adjacent to transit and commercial/retail. Sixty percent of the apartments are income restricted. Of the total 103 units, 94 units will be one-bedroom units and nine will be two-bedroom units.

The site design is scaled to the surrounding historic downtown and serves to transition from the commercial properties with their larger scaled structures to the residential neighborhoods. This change in scale is accomplished through the planning of multiple smaller buildings on this site rather than a single, monolithic building.

The existing parking lot has been reconfigured for efficiency and is located behind the historic building's street entrances.

The new building is a wood-frame structure clad in a variation of Hardie cement board siding and wall panels, along with some brick veneer and wood slats. A dynamic approach was deployed in the composition and color scheme of the exterior façade to provide each of the units with a unique identity.

Each unit has its own exterior balcony and it is in this aspect that the variation occurs. The roof is a thermoplastic polyolefin (TPO) single-ply reflective roofing membrane that contributes to the energy efficient performance.

Interior materials are modest and low maintenance. Each unit contains luxury vinyl tile (LVT) throughout, with carpet tile in the public corridors. Salvaged slate from the chalk boards of the original elementary school were repurposed for a system of indoor signage that allows residents to leave handwritten notes for their neighbors.

The development was certified with Enterprise Green Communities and Energy Star 3.0. It incorporates many green building strategies, including: durable materials, Energy Star lighting and appliances, and energy efficient building components. All of these contribute to lower costs for tenants on utilities.

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Code	Division Name	%	S F Cost	Projected
06	**Wood, Plastics, and Composites**	**3.05**	**7.13**	**334,426**
	Finish Carpentry	3.05	7.13	334,426
08	**Openings**	**7.35**	**17.18**	**806,047**
	Doors & Frames	3.03	7.07	331,933
	Entrances Storefronts & CW	0.66	1.55	72,548
	Windows	2.49	5.81	273,064
	Hardware	1.17	2.74	128,503
09	**Finishes**	**13.55**	**31.64**	**1,485,583**
	Plaster & Gypsum Board	7.68	17.95	842,445
	Flooring	3.34	7.81	366,574
	Painting & Coating	2.52	5.89	276,564
10	**Specialties**	**1.15**	**2.68**	**125,793**
	Interior	0.86	2.01	94,318
	Safety	0.11	0.24	11,572
	Other	0.18	0.42	19,904
11	**Equipment**	**2.36**	**5.52**	**258,723**
	Residential	2.36	5.52	258,723
12	**Furnishings**	**4.07**	**9.51**	**446,648**
	Casework	3.68	8.58	403,059
	Furnishings & Accessories	0.40	0.93	43,590
22	**Plumbing**	**6.91**	**16.15**	**758,378**
23	**HVAC**	**8.39**	**19.58**	**919,767**
26	**Electrical**	**12.26**	**28.65**	**1,344,801**
	Total Interior Costs	**31.53**	**73.66**	**3,457,220**
	Total Building Costs	**100.00**	**233.64**	**10,967,428**

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FILE 63

The 5,335-square-foot S. Ferdinand Townhomes project involved the conceptual design, permitting, construction documentation, and administration of three new townhouses on a tight site behind two existing historic residences within the Columbia City Historical District of Seattle, Washington.

Each of the approximately 1,744-square-foot townhouse units features an efficient floor layout, including three bedrooms, 2.5 baths and a laundry room, and is located over a private garage.

Care was given to making the units contextual with the surrounding neighborhood while also intentionally not looking "historical." The townhomes were also designed to not distract from the 100+-year-old homes that prominently face S. Ferdinand Street, and the designs went through extensive screening before being approved by the Landmarks Board.

The exteriors are finished with a low-maintenance rainscreen system consisting of cement fiber panels and vertical cedar siding. Units are accessed via a shared brick paver courtyard and feature welcoming entry steps, trellises, gardens, and rooftop decks.

Inside, tall windows with transoms and slot windows bring light deep into the units. The stepping and cantilevered building elements balance the need for light, variation, fire separation, and visual interest with limited space, and allow the owner/developers to achieve maximum value from their site.

Broderick Architects used Graphisoft's ArchiCAD BIM software from building concept to working drawings, and for extensive site modeling required for presentations to the Landmarks Preservation Board.

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Code	Division Name	%	S F Cost	Projected
06	**Wood, Plastics, and Composites**	**1.31**	**4.48**	**23,869**
	Int Finish Carpentry	1.29	4.40	23,498
	Handrail Brackets	0.02	0.08	371
08	**Openings**	**7.01**	**24.01**	**128,106**
	HM Doors & Frames	0.19	0.64	3,462
	Misc.	0.82	2.82	14,982
	Alum Clad Wood Doors & Frames	0.95	3.26	17,449
	Int Mld Pan Wood Doors Frames	0.26	0.87	4,664
	Access Doors & Panels	0.06	0.19	1048
	Full Glass Alum OH Doors	1.19	4.06	21,670
	Integrity Fiberglass Windows	2.79	9.57	51,023
	Integrity Fiberglass Sliding Doors	0.53	1.83	9,734
	Mirrors	0.13	0.44	2,289
09	**Finishes**	**9.67**	**33.14**	**176,841**
	Gypsum Wall Board	3.04	10.41	55,512
	Porcelain Floor Tile & Base	1.75	5.99	31,933
	Cement Board Under Tile	0.38	1.31	6,935
	Durarock At Shower Walls	0.08	0.28	1,484
	Porcelain Wall Tile At Bath Shower	0.31	1.06	5,667
	Carpet Over Pad	0.64	2.20	11,747
	Floor Prep Minor	0.07	0.26	1,340
	Painting	3.40	11.64	62,076
10	**Specialties**	**0.87**	**2.98**	**15,867**
	Chrome Bath Sliding Doors	0.12	0.42	2,268
	Chrome Shower Doors	0.12	0.41	2,162
	Mail Box Salsbury Model 3308	0.11	0.37	2,021
	Bldg Address Letters	0.21	0.72	3,816
	Fire Extinguishers & Cabinets	0.05	0.18	964
	Toilet Accessories	0.24	0.81	4,303
11	**Equipment**	**1.17**	**4.02**	**21,436**
	Residential Appliances	1.17	4.02	21,436
12	**Furnishings**	**2.25**	**7.69**	**41,089**
	Casework	1.28	4.38	23,322
	Quartz Countertops	0.71	2.44	13,020
	Wire Closet Shelves & Rod	0.06	0.19	1060
	Blinds	0.20	0.69	3,688
22	**Plumbing**	**5.25**	**18.00**	**96,014**
23	**HVAC**	**0.08**	**0.28**	**1,484**
26	**Electrical**	**7.82**	**26.79**	**142,939**
	Total Interior Costs	**2.62**	**8.99**	**47,977**
	Total Building Costs	**100.00**	**342.69**	**1,828,296**

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FILE 64

This 33,275-square-foot Multi-Residential project entailed demolishing the existing center and rebuilding 39 units of housing, a manager's unit, offices and counseling rooms within the housing complex.

The goal of the housing development is to provide transitional housing for mental health clients who can live independently with some counseling support.

The three-story, cast-in-place concrete building is located on a major corridor that is a predominantly commercial street with surrounding one-story residential buildings on the adjacent side streets.

The architects selected an interior courtyard design with the units facing the courtyard on all levels. Another meeting room/recreational room was built in the center of the courtyard for resident functions. Landscaping in both the courtyard and around the perimeter of the site acted as a buffer for the adjacent residences.

Due to the client's budgetary constraints, aesthetics had to be balanced with costs. Therefore, standard wood construction and exterior plaster were utilized, which is typical for the neighborhood and for Southern California. Articulating the building massing and the use of exterior balconies was a cost-effective way to achieve a building that is not a typical low-income box.

To make the single apartments appear larger, an open plan and an apparent raised ceiling over the living/dining area was used. The apparent raised ceiling was achieved by lowering the entry foyer that leads to the living/dining area. A pastel color scheme with strong accent colors was used to give the building a cheerful atmosphere.

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Code	Division Name	%	S F Cost	Projected
06	**Wood & Plastics**	**20.16**	**34.18**	**1,136,951**
	Finish Carpentry	2.50	4.22	140,741
	Modification Procedures	3.92	6.63	220,826
	Rough Carpentry	13.75	23.32	775,384
08	**Doors & Windows**	**4.08**	**6.92**	**230,259**
	Entrances & Storefronts	0.15	0.26	8,568
	Glazing	0.15	0.26	8,568
	Hardware	1.09	1.86	61,622
	Metal Windows	1.06	1.82	59,981
	Modification Procedures	(0.10)	(0.17)	-5,592
	Wood Doors & Metal Frames	1.72	2.92	97,112
09	**Finishes**	**11.05**	**18.74**	**623,223**
	Anti Graffiti	0.30	0.51	16,995
	Gypsum Board	3.08	5.22	173,944
	Lath & Plaster	3.32	5.63	187,085
	Modification Procedures	1.33	2.27	75,255
	Painting	1.95	3.29	109,966
	Resilient Flooring & Carpet	1.06	1.82	59,981
10	**Specialties**	**3.20**	**5.44**	**180,643**
	Fire Protection	0.04	0.06	2,296
	Identifying Devices	0.28	0.46	15,709
	Modification Procedures	2.46	4.16	138,502
	Toilet & Bath Accessories	0.43	0.72	24,136
11	**Equipment**	**0.18**	**0.29**	**9,997**
	Solid Waste Handling	0.18	0.29	9,997
12	**Furnishings**	**2.50**	**4.22**	**140,741**
	Furnishings	2.50	4.22	140,741
15	**Mechanical**	**14.84**	**25.16**	**836,833**
16	**Electrical**	**3.08**	**5.22**	**173,843**
	Total Interior Costs	**61.31**	**103.92**	**3,457,587**
	Total Building Costs	**100.00**	**169.47**	**5,639,028**

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FILE 65

A home of light, energy, life, and magic inspired by the land, light, views toward Marin County's landmark, Mount Tamalpais, air movement, and surrounding trees — the Architect Fani Danadjieva Hansen, AIA, has created a spectacular place for enjoying living, working and playing. The light and air movement enter everywhere. Steel framed windows link the indoors with the outdoors. Clerestory windows deliver light throughout the day, illuminating the space at little cost.

Decks and multiple terraces on all sides link the interior with exterior space. Entertaining or working with socially distanced seating can take place outdoors, so that guests can visit and feel safe.

The client's program, budget, the community needs, the site, ecology, approvals, sustainability, building materials, schedules, availability of funds, and contractors' demands were some of the components that required a great deal of creativity, design skills, and teamwork. While performing the roles of designer and construction manager simultaneously, Fani Danadjieva Hansen, AIA, interpreted the diverse demands in sketch formats, nurtured the ideas, and integrated the myriad ideas to create a single totality for mutual benefit.

The simplification of the design/build process helped produce seamless spaces, unique to the land and as economically as possible.

Throughout, there is a strong indoors-outdoors connection with the land, bringing light and fresh air that helps to increase the feeling of freedom. As sustainability was a guiding force, natural ventilation provides the interior space with a breeze, cultivating a deep connection with the land. The light brings attention to different elements at different times of the day.

The elegant color palette originates from the surrounding trees' foliage and their bark. Standing seam roofing and the exterior plaster finish harmonize with the natural landscape. The wood flooring throughout provides a calming and warm foundation for enjoyment.

With solid walls framing the views, living room, cooking area, dining room, fireplaces, and bedrooms link with the open outdoor sitting area, available for conversation and play. The master bedroom, bathroom, and sauna access the pool deck and spa, offering spectacular views.

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Code	Division Name	%	S F Cost	Projected
06	**Wood, Plastics, and Composites**	**1.53**	**10.97**	**55,841**
	Rough Carpentry	0.78	5.58	28,438
	Fibergrate Composite Structures	0.75	5.39	27,405
07	**Thermal and Moisture Protection**	**0.53**	**3.78**	**19,255**
	Dampproofing & Waterproofing	0.53	3.78	19,255
08	**Openings**	**10.29**	**73.95**	**376,460**
	Doors & Frames	0.87	6.26	31,834
	Specialty Doors & Frames	0.29	2.10	10,685
	Entrances Storefronts & Curtain Walls	7.06	50.75	258,388
	Mirrors	0.16	1.14	5,827
	Glazing Stairs	1.44	10.33	52,591
	Garage Doors	0.47	3.37	17,134
09	**Finishes**	**5.80**	**41.68**	**212,202**
	Plaster & Gypsum Board	1.03	7.44	37,843
	Tiling	0.58	4.16	21,148
	Metal Framing Walls Ceiling	2.98	21.40	108,966
	Wood Flooring	1.21	8.69	44,243
10	**Specialties**	**1.65**	**11.85**	**60,338**
	Interior	0.35	2.48	12,650
	Fireplaces	0.84	6.02	30,609
	Other	0.47	3.35	17,079
11	**Equipment**	**3.41**	**24.52**	**124,836**
	Equipment Install	1.43	10.24	52,157
	Residential	0.94	6.78	34,529
	Stove & Hood	1.04	7.49	38,149
12	**Furnishings**	**2.68**	**19.23**	**97,882**
	Casework Install	1.69	12.13	61,774
	Casework	0.99	7.09	36,108
22	**Plumbing**	**1.98**	**14.21**	**72,348**
23	**HVAC**	**6.30**	**45.25**	**230,378**
26	**Electrical**	**6.52**	**46.84**	**238,460**
27	**Communications**	**0.70**	**5.00**	**25,484**
	Total Interior Costs	**25.89**	**185.97**	**946,813**
	Total Building Costs	**100.00**	**718.50**	**3,657,920**

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Part Two

Unit-In-Place Costs

DIVISION	00	PROCUREMENT & CONTRACTING REQUIREMENTS
DIVISION	01	GENERAL REQUIREMENTS
DIVISION	02	EXISTING CONDITIONS
DIVISION	03	CONCRETE
DIVISION	04	MASONRY
DIVISION	05	METALS
DIVISION	06	WOOD, PLASTICS, AND COMPOSITES
DIVISION	07	THERMAL AND MOISTURE PROTECTION
DIVISION	08	OPENINGS
DIVISION	09	FINISHES
DIVISION	10	SPECIALTIES
DIVISION	11	EQUIPMENT
DIVISION	12	FURNISHINGS
DIVISION	13	SPECIAL CONSTRUCTION
DIVISION	14	CONVEYING EQUIPMENT
DIVISION	21	FIRE SUPPRESSION
DIVISION	22	PLUMBING
DIVISION	23	HEATING, VENTILATING, AND AIR-COND. (HVAC)
DIVISION	25	INTEGRATED AUTOMATION
DIVISION	26	ELECTRICAL
DIVISION	27	COMMUNICATIONS
DIVISION	28	ELECTRONIC SAFETY AND SECURITY
DIVISION	31	EARTHWORK
DIVISION	32	EXTERIOR IMPROVEMENTS
DIVISION	33	UTILITIES
DIVISION	34	TRANSPORTATION
DIVISION	35	WATERWAY AND MARINE CONSTRUCTION
DIVISION	40	PROCESS INTEGRATION
DIVISION	41	MATERIAL PROCESSING & HANDLING EQUIPMENT
DIVISION	42	PROCESS HEATING, COOLING, & DRYING EQUIP.
DIVISION	43	PROCESS GAS & LIQUID HANDLING, PURIFICATION, & STORAGE EQUIPMENT
DIVISION	44	POLLUTION CONTROL EQUIPMENT
DIVISION	45	INDUSTRY-SPECIFIC MANUFACTURING EQUIPMENT
DIVISION	48	ELECTRICAL POWER GENERATION

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	Unit	Man-Hrs	Material	Labor	Total
01210.01 ALLOWANCES					
ALLOWANCES					
Overhead					
$20,000 project					
Minimum	PCT				15.00
Average	PCT				20.00
Maximum	PCT				40.00
$100,000 project					
Minimum	PCT				12.00
Average	PCT				15.00
Maximum	PCT				25.00
$500,000 project					
Minimum	PCT				10.00
Average	PCT				12.00
Maximum	PCT				20.00
Profit					
$20,000 project					
Minimum	PCT				10.00
Average	PCT				15.00
Maximum	PCT				25.00
$100,000 project					
Minimum	PCT				10.00
Average	PCT				12.00
Maximum	PCT				20.00
$500,000 project					
Minimum	PCT				5.00
Average	PCT				10.00
Maximum	PCT				15.00
Professional fees					
Architectural					
$100,000 project					
Minimum	PCT				5.00
Average	PCT				10.00
Maximum	PCT				20.00
$500,000 project					
Minimum	PCT				5.00
Average	PCT				8.00
Maximum	PCT				12.00
Structural engineering					
Minimum	PCT				2.00
Average	PCT				3.00
Maximum	PCT				5.00
Mechanical engineering					
Minimum	PCT				4.00
Average	PCT				5.00
Maximum	PCT				15.00
Taxes					
Sales tax					
Minimum	PCT				4.00
Average	PCT				5.00
Maximum	PCT				10.00
Unemployment					
Minimum	PCT				3.00
Average	PCT				6.50
Maximum	PCT				8.00
Social security (FICA)	PCT				7.85
01311.30 FIELD STAFF					
FIELD STAFF					
Superintendent					
Minimum	YEAR				110,437.48
Average	YEAR				138,065.93
Maximum	YEAR				165,845.63
Foreman					
Minimum	YEAR				73,403.90
Average	YEAR				117,390.73

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	Unit	Man-Hrs	Material	Labor	Total
01311.30 FIELD STAFF (Cont.)					
Foreman					
Maximum	YEAR				137,441.52
Bookkeeper/timekeeper					
Minimum	YEAR				42,460.48
Average	YEAR				55,448.39
Maximum	YEAR				71,738.78
Watchman					
Minimum	YEAR				31,637.22
Average	YEAR				42,321.72
Maximum	YEAR				53,422.50
01322.30 SURVEYING					
SURVEYING					
Surveying					
Small crew	DAY				1,320.00
Average crew	DAY				1,980.00
Large crew	DAY				2,610.00
Lot lines and boundaries					
Minimum	ACRE				950.00
Average	ACRE				1,950.00
Maximum	ACRE				3,170.00
01323.30 JOB REQUIREMENTS					
JOB REQUIREMENTS					
Job photographs, small jobs					
Minimum	EA				190.00
Average	EA				280.00
Maximum	EA				660.00
Large projects					
Minimum	EA				950.00
Average	EA				1,420.00
Maximum	EA				4,730.00
01452.30 TESTING					
TESTING					
Testing concrete, per test					
Minimum	EA				32.00
Average	EA				53.00
Maximum	EA				110.00
01540.01 CONSTRUCTION AIDS					
CONSTRUCTION AIDS					
Scaffolding/staging, rent per month					
Measured by lineal feet of base					
10' high	LF				18.00
20' high	LF				32.75
30' high	LF				46.00
Measured by square foot of surface					
Minimum	SF				0.80
Average	SF				1.38
Maximum	SF				2.47
Tarpaulins, fabric, per job					
Minimum	SF				0.37
Average	SF				0.63
Maximum	SF				1.64
Rolling scaffold					
To 10'					
By day	EA				63.00
By week	EA				130.00
By month	EA				320.00
To 15'					
By day	EA				76.00
By week	EA				150.00
By month	EA				340.00
To 20'					
By day	EA				89.00
By week	EA				180.00

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	Unit	Man-Hrs	Material	Labor	Total
01540.01 CONSTRUCTION AIDS (Cont.)					
To 20'					
By month	EA				380.00
01540.08 MOBILIZATION					
MOBILIZATION					
Equipment mobilization					
Bulldozer					
Minimum	EA				300.00
Average	EA				620.00
Maximum	EA				1,040.00
Backhoe/front-end loader					
Minimum	EA				180.00
Average	EA				310.00
Maximum	EA				680.00
Truck crane					
Minimum	EA				750.00
Average	EA				1,160.00
Maximum	EA				1,990.00
01540.09 EQUIPMENT					
EQUIPMENT					
Air compressor					
60 cfm					
By day	EA				130.00
By week	EA				380.00
By month	EA				1,160.00
300 cfm					
By day	EA				270.00
By week	EA				840.00
By month	EA				2,540.00
Air tools, per compressor, per day					
Minimum	EA				53.00
Average	EA				66.00
Maximum	EA				93.00
Generators, 5 kw					
By day	EA				120.00
By week	EA				360.00
By month	EA				1,100.00
Heaters, salamander type, per week					
Minimum	EA				140.00
Average	EA				200.00
Maximum	EA				430.00
Pumps, submersible					
50 gpm					
By day	EA				96.00
By week	EA				290.00
By month	EA				860.00
Pickup truck					
By day	EA				160.00
By week	EA				470.00
By month	EA				1,470.00
Dump truck					
6 c.y. truck					
By day	EA				430.00
By week	EA				1,300.00
By month	EA				3,900.00
10 c.y. truck					
By day	EA				540.00
By week	EA				1,620.00
By month	EA				4,870.00
16 c.y. truck					
By day	EA				870.00
By week	EA				2,590.00
By month	EA				7,800.00

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	Unit	Man-Hrs	Material	Labor	Total
01540.09 EQUIPMENT (Cont.)					
Backhoe, track mounted					
1/2 c.y. capacity					
By day	EA				670.00
By week	EA				1,620.00
By month	EA				3,680.00
Backhoe/loader, rubber tired					
1/2 c.y. capacity					
By day	EA				600.00
By week	EA				1,800.00
By month	EA				5,420.00
3/4 c.y. capacity					
By day	EA				720.00
By week	EA				2,160.00
By month	EA				6,500.00
Bulldozer					
75 hp					
By day	EA				840.00
By week	EA				2,530.00
By month	EA				7,590.00
Cranes, crawler type					
15 ton capacity					
By day	EA				1,080.00
By week	EA				3,250.00
By month	EA				9,750.00
Truck mounted, hydraulic					
15 ton capacity					
By day	EA				1,020.00
By week	EA				3,070.00
By month	EA				8,860.00
Loader, rubber tired					
1 c.y. capacity					
By day	EA				720.00
By week	EA				2,170.00
By month	EA				6,500.00
Electric, scissor platform lift					
To 10'					
By day	EA				150.00
By week	EA				290.00
By month	EA				600.00
To 18'					
By day	EA				150.00
By week	EA				300.00
By month	EA				620.00
To 20'					
By day	EA				180.00
By week	EA				360.00
By month	EA				750.00
Concrete Pump					
To 28 cy per hour					
By day	EA				190.00
By week	EA				390.00
By month	EA				790.00
To 38 cy per hour					
By day	EA				220.00
By week	EA				450.00
By month	EA				910.00
To 46 cy per hour					
By day	EA				300.00
By week	EA				600.00
By month	EA				1,270.00
Dumpsters					
10 c.y.					
By day	EA				320.00
By week	EA				380.00

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	Unit	Man-Hrs	Material	Labor	Total
01540.09 EQUIPMENT (Cont.)					
10 c.y.					
By month	EA				510.00
20 c.y.					
By day	EA				440.00
By week	EA				510.00
By month	EA				630.00
30 c.y.					
By day	EA				570.00
By week	EA				630.00
By month	EA				760.00
Additional dump charges.					
Asphalt, recycle	EA				250.00
Concrete, recycle	EA				230.00
Soil, recycle	EA				150.00
Assorted mix of conc, asphalt, soil at landfill	EA				95.00
Non-contaminated debris at landfill	EA				130.00
01562.30 TEMPORARY FACILITIES					
TEMPORARY FACILITIES					
Barricades, temporary					
Highway					
Concrete	LF	0.080	46.25	6.40	52.65
Wood	LF	0.032	10.50	2.56	13.06
Steel	LF	0.027	9.61	2.13	11.74
Pedestrian barricades					
Plywood	SF	0.027	9.61	2.13	11.74
Chain link fence	SF	0.027	7.69	2.13	9.82
Trailers, general office type, per month					
Minimum	EA				290.00
Average	EA				490.00
Maximum	EA				980.00
For skirting around trailer	EA				1,030.00
Crew change trailers, per month					
Minimum	EA				180.00
Average	EA				200.00
Maximum	EA				290.00
Temp const lights with protective cages, 10 lights	EA				120.00
Storage trailers, per month					
Minimum	EA				150.00
Average	EA				180.00
Maximum	EA				270.00
Temp components					
Plywood, 1/2" thick, per sheet					
Minimum	EA				36.25
Average	EA				42.25
Maximum	EA				54.00
Lumber, per foot					
Minimum	LF				1.04
Average	LF				1.59
Maximum	LF				3.58
Masonite / Protection board, per sheet					
Minimum	EA				14.50
Average	EA				21.75
Maximum	EA				30.25
01581.30 SIGNS					
SIGNS					
Construction signs, temporary					
Signs, 2' x 4'					
Minimum	EA				49.00
Average	EA				120.00
Maximum	EA				410.00
Signs, 4' x 8'					
Minimum	EA				100.00
Average	EA				270.00
Maximum	EA				1,150.00

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	Unit	Man-Hrs	Material	Labor	Total
01581.30 SIGNS (Cont.)					
Construction signs, temporary					
Signs, 8' x 8'					
Minimum	EA				130.00
Average	EA				410.00
Maximum	EA				4,160.00

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	Unit	Man-Hrs	Material	Labor	Total
02321.30 SOIL BORING					
SOIL BORING					
Borings, uncased, stable earth					
2-1/2" dia.	LF	0.300		43.75	43.75
4" dia.	LF	0.343		50.00	50.00
Cased, including samples					
2-1/2" dia.	LF	0.400		59.00	59.00
4" dia.	LF	0.686		100.00	100.00
Drilling in rock					
No sampling	LF	0.632		92.00	92.00
With casing and sampling	LF	0.800		120.00	120.00
Test pits					
Light soil	EA	4.000		590.00	590.00
Heavy soil	EA	6.000		880.00	880.00
02411.32 FENCE DEMOLITION					
FENCE DEMOLITION					
Remove fencing					
Chain link, 8' high					
For disposal	LF	0.040		3.20	3.20
For reuse	LF	0.100		8.00	8.00
Wood					
4' high	SF	0.027		2.13	2.13
Masonry					
8" thick					
4' high	SF	0.080		6.40	6.40
6' high	SF	0.100		8.00	8.00
02411.33 CURB & GUTTER DEMOLITION					
CURB & GUTTER DEMOLITION					
Removal, plain concrete curb	LF	0.060		8.77	8.77
Plain concrete curb and 2' gutter	LF	0.083		12.00	12.00
02421.32 GUARDRAIL DEMOLITION					
GUARDRAIL DEMOLITION					
Remove standard guardrail					
Steel	LF	0.080		11.75	11.75
Wood	LF	0.062		9.00	9.00
02431.33 HYDRANT DEMOLITION					
HYDRANT DEMOLITION					
Remove and reset fire hydrant	EA	12.000		1,760.00	1,760.00
02441.34 PAVEMENT AND SIDEWALK DEMOLITION					
PAVEMENT AND SIDEWALK DEMOLITION					
Concrete pavement, 6" thick					
No reinforcement	SY	0.160		23.50	23.50
With wire mesh	SY	0.240		35.00	35.00
With rebars	SY	0.300		43.75	43.75
Sidewalk, 4" thick, with disposal	SY	0.080		11.75	11.75
02451.34 DRAINAGE PIPING DEMOLITION					
DRAINAGE PIPING DEMOLITION					
Remove drainage pipe, not including excavation					
12" dia.	LF	0.100		14.50	14.50
18" dia.	LF	0.126		18.50	18.50
02461.34 GAS PIPING DEMOLITION					
GAS PIPING DEMOLITION					
Remove welded steel pipe, not including excavation					
4" dia.	LF	0.150		22.00	22.00
5" dia.	LF	0.240		35.00	35.00
02471.34 SANITARY PIPING DEMOLITION					
SANITARY PIPING DEMOLITION					
Remove sewer pipe, not including excavation					
4" dia.	LF	0.096		14.00	14.00

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	Unit	Man-Hrs	Material	Labor	Total
02481.34 WATER PIPING DEMOLITION					
WATER PIPING DEMOLITION					
Remove water pipe, not including excavation					
4" dia.	LF	0.109		16.00	16.00
02491.35 SAW CUTTING PAVEMENT					
SAW CUTTING PAVEMENT					
Pavement, bituminous					
2" thick	LF	0.016		2.72	2.72
3" thick	LF	0.020		3.40	3.40
Concrete pavement, with wire mesh					
4" thick	LF	0.031		5.23	5.23
5" thick	LF	0.033		5.67	5.67
Plain concrete, unreinforced					
4" thick	LF	0.027		4.53	4.53
5" thick	LF	0.031		5.23	5.23
02510.61 COMPLETE BUILDING DEMOLITION					
COMPLETE BUILDING DEMOLITION					
Building, complete with disposal					
Wood frame	CF	0.003		0.51	0.51
02511.90 SELECTIVE BUILDING DEMOLITION					
SELECTIVE BUILDING DEMOLITION					
Partition removal					
Concrete block partitions					
8" thick	SF	0.053		4.27	4.27
Brick masonry partitions					
4" thick	SF	0.040		3.20	3.20
8" thick	SF	0.050		4.00	4.00
Stud partitions					
Metal or wood, with drywall both sides	SF	0.040		3.20	3.20
Door and frame removal					
Wood in framed wall					
2'6"x6'8"	EA	0.571		45.75	45.75
3'x6'8"	EA	0.667		53.00	53.00
Ceiling removal					
Acoustical tile ceiling					
Adhesive fastened	SF	0.008		0.64	0.64
Furred and glued	SF	0.007		0.53	0.53
Suspended grid	SF	0.005		0.40	0.40
Drywall ceiling					
Furred and nailed	SF	0.009		0.71	0.71
Nailed to framing	SF	0.008		0.64	0.64
Window removal					
Metal windows, trim included					
2'x3'	EA	0.800		64.00	64.00
3'x4'	EA	1.000		80.00	80.00
4'x8'	EA	2.000		160.00	160.00
Wood windows, trim included					
2'x3'	EA	0.444		35.50	35.50
3'x4'	EA	0.533		42.75	42.75
6'x8'	EA	0.800		64.00	64.00
Concrete block walls, not including toothing					
4" thick	SF	0.044		3.55	3.55
6" thick	SF	0.047		3.76	3.76
8" thick	SF	0.050		4.00	4.00
Rubbish handling					
Load in dumpster or truck					
Minimum	CF	0.018		1.42	1.42
Maximum	CF	0.027		2.13	2.13
Rubbish hauling					
Rubbish chute, plastic. Minimum	LF				22.00
Rubbish chute, plastic. Maximum	LF				55.00
Hand loaded on trucks, 2 mile trip	CY	0.320		54.00	54.00
Machine loaded on trucks, 2 mile trip	CY	0.240		35.00	35.00

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	Unit	Man-Hrs	Material	Labor	Total
02650.07 SEPTIC TANK REMOVAL					
SEPTIC TANK REMOVAL					
Remove septic tank					
1000 gals	EA	2.000		290.00	290.00
2000 gals	EA	2.400		350.00	350.00

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	Unit	Man-Hrs	Material	Labor	Total
03111.30 BEAM FORMWORK					
BEAM FORMWORK					
Beam forms, job built					
Beam bottoms					
1 use	SF	0.133	6.69	13.75	20.44
4 uses	SF	0.118	2.50	12.00	14.50
5 uses	SF	0.114	2.28	11.75	14.03
Beam sides					
1 use	SF	0.089	4.78	9.08	13.86
5 uses	SF	0.073	2.03	7.43	9.46
03111.32 COLUMN FORMWORK					
COLUMN FORMWORK					
Column, square forms, job built					
8" x 8" columns					
1 use	SF	0.160	5.63	16.25	21.88
5 uses	SF	0.138	1.99	14.00	15.99
12" x 12" columns					
1 use	SF	0.145	5.13	14.75	19.88
5 uses	SF	0.127	1.67	13.00	14.67
Round fiber forms, 1 use					
10" dia.	LF	0.160	5.79	16.25	22.04
12" dia.	LF	0.163	7.13	16.75	23.88
03111.33 CURB FORMWORK					
CURB FORMWORK					
Curb forms					
Straight, 6" high					
1 use	LF	0.080	3.35	8.18	11.53
5 uses	LF	0.067	1.23	6.81	8.04
Curved, 6" high					
1 use	LF	0.100	3.63	10.25	13.88
5 uses	LF	0.082	1.48	8.34	9.82
03111.35 EQUIPMENT PAD FORMWORK					
EQUIPMENT PAD FORMWORK					
Equipment pad, job built					
1 use	SF	0.100	5.84	10.25	16.09
3 uses	SF	0.089	2.81	9.08	11.89
5 uses	SF	0.080	1.74	8.18	9.92
03111.36 FOOTING FORMWORK					
FOOTING FORMWORK					
Wall footings, job built, continuous					
1 use	SF	0.080	3.13	8.18	11.31
3 uses	SF	0.073	1.81	7.43	9.24
5 uses	SF	0.067	1.39	6.81	8.20
03111.37 GRADE BEAM FORMWORK					
GRADE BEAM FORMWORK					
Grade beams, job built					
1 use	SF	0.080	4.93	8.18	13.11
3 uses	SF	0.073	2.16	7.43	9.59
5 uses	SF	0.067	1.49	6.81	8.30
03111.38 PILE CAP FORMWORK					
PILE CAP FORMWORK					
Pile cap forms, job built					
Square					
1 use	SF	0.100	5.59	10.25	15.84
5 uses	SF	0.080	1.87	8.18	10.05
03111.39 SLAB / MAT FORMWORK					
SLAB / MAT FORMWORK					
Mat foundations, job built					
1 use	SF	0.100	4.88	10.25	15.13
3 uses	SF	0.089	2.08	9.08	11.16
5 uses	SF	0.080	1.41	8.18	9.59

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	Unit	Man-Hrs	Material	Labor	Total
03111.39 SLAB / MAT FORMWORK (Cont.)					
Edge forms					
6" high					
1 use	LF	0.073	4.69	7.43	12.12
3 uses	LF	0.067	1.99	6.81	8.80
5 uses	LF	0.062	1.35	6.29	7.64
03111.41 WALL FORMWORK					
WALL FORMWORK					
Wall forms, exterior, job built					
Up to 8' high wall					
1 use	SF	0.080	5.26	8.18	13.44
3 uses	SF	0.073	2.56	7.43	9.99
5 uses	SF	0.067	1.93	6.81	8.74
Retaining wall forms					
1 use	SF	0.089	4.89	9.08	13.97
3 uses	SF	0.080	2.24	8.18	10.42
5 uses	SF	0.073	1.66	7.43	9.09
Column pier and pilaster					
1 use	SF	0.160	5.53	16.25	21.78
5 uses	SF	0.114	2.48	11.75	14.23
03112.42 MISCELLANEOUS FORMWORK					
MISCELLANEOUS FORMWORK					
Keyway forms (5 uses)					
2 x 4	LF	0.040	0.43	4.09	4.52
2 x 6	LF	0.044	0.62	4.54	5.16
Bulkheads					
Walls, with keyways					
3 piece	LF	0.080	7.44	8.18	15.62
Ground slab, with keyway					
2 piece	LF	0.057	6.97	5.84	12.81
3 piece	LF	0.062	8.51	6.29	14.80
Chamfer strips					
Wood					
1/2" wide	LF	0.018	0.29	1.81	2.10
3/4" wide	LF	0.018	0.37	1.81	2.18
1" wide	LF	0.018	0.50	1.81	2.31
PVC					
1/2" wide	LF	0.018	1.29	1.81	3.10
3/4" wide	LF	0.018	1.40	1.81	3.21
1" wide	LF	0.018	2.03	1.81	3.84
03150.01 CONCRETE ACCESSORIES					
CONCRETE ACCESSORIES					
Expansion joint, poured					
Asphalt					
1/2" x 1"	LF	0.016	1.31	1.28	2.59
1" x 2"	LF	0.017	4.10	1.39	5.49
Expansion joint, premolded, in slabs					
Asphalt					
1/2" x 6"	LF	0.020	1.00	1.60	2.60
1" x 12"	LF	0.027	1.98	2.13	4.11
Cork					
1/2" x 6"	LF	0.020	1.99	1.60	3.59
1" x 12"	LF	0.027	7.56	2.13	9.69
Neoprene sponge					
1/2" x 6"	LF	0.020	3.70	1.60	5.30
1" x 12"	LF	0.027	13.50	2.13	15.63
Polyethylene foam					
1/2" x 6"	LF	0.020	1.25	1.60	2.85
1" x 12"	LF	0.027	5.73	2.13	7.86
Polyurethane foam					
1/2" x 6"	LF	0.020	1.79	1.60	3.39
1" x 12"	LF	0.027	4.62	2.13	6.75

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	Unit	Man-Hrs	Material	Labor	Total
03150.01 CONCRETE ACCESSORIES (Cont.)					
Expansion joint, premolded, in slabs					
Polyvinyl chloride foam					
1/2" x 6"	LF	0.020	4.40	1.60	6.00
1" x 12"	LF	0.027	9.51	2.13	11.64
Rubber, gray sponge					
1/2" x 6"	LF	0.020	4.97	1.60	6.57
1" x 12"	LF	0.027	21.50	2.13	23.63
Asphalt felt control joints or bond breaker, screed joints					
4" slab	LF	0.016	1.62	1.28	2.90
6" slab	LF	0.018	2.03	1.42	3.45
8" slab	LF	0.020	2.65	1.60	4.25
Waterstops					
Polyvinyl chloride					
Ribbed					
3/16" thick x					
4" wide	LF	0.040	2.57	3.20	5.77
6" wide	LF	0.044	3.14	3.55	6.69
1/2" thick x					
9" wide	LF	0.050	7.07	4.00	11.07
Ribbed with center bulb					
3/16" thick x 9" wide	LF	0.050	5.94	4.00	9.94
3/8" thick x 9" wide	LF	0.050	6.98	4.00	10.98
Dumbbell type, 3/8" thick x 6" wide	LF	0.044	7.07	3.55	10.62
Plain, 3/8" thick x 9" wide	LF	0.050	9.40	4.00	13.40
Center bulb, 3/8" thick x 9" wide	LF	0.050	11.25	4.00	15.25
Rubber					
Vapor barrier					
4 mil polyethylene	SF	0.003	0.06	0.21	0.27
6 mil polyethylene	SF	0.003	0.09	0.21	0.30
10 mil polyethylene	SF	0.003	0.14	0.21	0.35
15 mil polyethylene	SF	0.003	0.15	0.21	0.36
Gravel porous fill, under floor slabs, 3/4" stone	CY	1.333	34.00	110.00	144.00
Reinforcing accessories					
Beam bolsters					
1-1/2" high, plain	LF	0.008	0.59	0.83	1.42
Galvanized	LF	0.008	1.30	0.83	2.13
3" high					
Plain	LF	0.010	1.37	1.04	2.41
Galvanized	LF	0.010	2.09	1.04	3.13
Slab bolsters					
1" high					
Plain	LF	0.004	0.63	0.41	1.04
Galvanized	LF	0.004	1.27	0.41	1.68
2" high					
Plain	LF	0.004	0.88	0.46	1.34
Galvanized	LF	0.004	1.49	0.46	1.95
Chairs, high chairs					
2" high					
Plastic	EA	0.020	0.82	2.08	2.90
Plain	EA	0.020	1.70	2.08	3.78
Galvanized	EA	0.020	1.87	2.08	3.95
4-1/2" high					
Plastic	EA	0.023	1.65	2.38	4.03
Plain	EA	0.023	2.88	2.38	5.26
Galvanized	EA	0.023	4.88	2.38	7.26
Continuous, high chair					
3" high					
Plain	LF	0.005	2.36	0.55	2.91
Galvanized	LF	0.005	2.92	0.55	3.47
03210.01 BEAM REINFORCING					
BEAM REINFORCING					
Beam-girders					
#3 - #4	TON	20.000	1,880.00	2,090.00	3,970.00
#5 - #6	TON	16.000	1,650.00	1,670.00	3,320.00

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	Unit	Man-Hrs	Material	Labor	Total
03210.03 COLUMN REINFORCING					
COLUMN REINFORCING					
Columns					
#3 - #4	TON	22.857	1,880.00	2,390.00	4,270.00
#5 - #6	TON	17.778	1,650.00	1,860.00	3,510.00
03210.04 ELEVATED SLAB REINFORCING					
ELEVATED SLAB REINFORCING					
Elevated slab					
#3 - #4	TON	10.000	1,880.00	1,040.00	2,920.00
#5 - #6	TON	8.889	1,650.00	930.00	2,580.00
03210.05 EQUIP. PAD REINFORCING					
EQUIP. PAD REINFORCING					
Equipment pad					
#3 - #4	TON	16.000	1,880.00	1,670.00	3,550.00
#5 - #6	TON	14.545	1,650.00	1,520.00	3,170.00
03210.06 FOOTING REINFORCING					
FOOTING REINFORCING					
Footings					
#3 - #4	TON	13.333	1,880.00	1,390.00	3,270.00
#5 - #6	TON	11.429	1,650.00	1,190.00	2,840.00
#7 - #8	TON	10.000	1,610.00	1,040.00	2,650.00
Straight dowels, 24" long					
3/4" dia. (#6)	EA	0.019	5.24	1.94	7.18
5/8" dia. (#5)	EA	0.017	4.53	1.81	6.34
1/2" dia. (#4)	EA	0.016	3.41	1.67	5.08
03210.07 FOUNDATION REINFORCING					
FOUNDATION REINFORCING					
Foundations					
#3 - #4	TON	13.333	1,880.00	1,390.00	3,270.00
#5 - #6	TON	11.429	1,650.00	1,190.00	2,840.00
#7 - #8	TON	10.000	1,610.00	1,040.00	2,650.00
03210.08 GRADE BEAM REINFORCING					
GRADE BEAM REINFORCING					
Grade beams					
#3 - #4	TON	12.308	1,880.00	1,280.00	3,160.00
#5 - #6	TON	10.667	1,650.00	1,110.00	2,760.00
#7 - #8	TON	9.412	1,610.00	980.00	2,590.00
03210.09 SLAB / MAT REINFORCING					
SLAB / MAT REINFORCING					
Bars, slabs					
#3 - #4	TON	13.333	1,880.00	1,390.00	3,270.00
#5 - #6	TON	11.429	1,650.00	1,190.00	2,840.00
Wire mesh, slabs					
Galvanized					
2x2					
W.9xW.9	SF	0.005	2.64	0.55	3.19
4x4					
W1.4xW1.4	SF	0.005	0.67	0.55	1.22
W2.0xW2.0	SF	0.006	0.88	0.59	1.47
W2.9xW2.9	SF	0.006	1.22	0.64	1.86
W4.0xW4.0	SF	0.007	1.81	0.69	2.50
6x6					
W1.4xW1.4	SF	0.004	0.62	0.41	1.03
W2.0xW2.0	SF	0.004	0.88	0.46	1.34
W2.9xW2.9	SF	0.005	1.18	0.49	1.67
W4.0xW4.0	SF	0.005	1.27	0.55	1.82
03210.11 WALL REINFORCING					
WALL REINFORCING					
Walls					
#3 - #4	TON	11.429	1,880.00	1,190.00	3,070.00
#5 - #6	TON	10.000	1,650.00	1,040.00	2,690.00

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	Unit	Man-Hrs	Material	Labor	Total
03210.11 WALL REINFORCING (Cont.)					
Masonry wall (horizontal)					
#3 - #4	TON	32.000	1,880.00	3,340.00	5,220.00
#5 - #6	TON	26.667	1,650.00	2,780.00	4,430.00
Galvanized					
#3 - #4	TON	32.000	3,210.00	3,340.00	6,550.00
#5 - #6	TON	26.667	3,030.00	2,780.00	5,810.00
Masonry wall (vertical)					
#3 - #4	TON	40.000	1,880.00	4,180.00	6,060.00
#5 - #6	TON	32.000	1,650.00	3,340.00	4,990.00
Galvanized					
#3 - #4	TON	40.000	3,210.00	4,180.00	7,390.00
#5 - #6	TON	32.000	3,030.00	3,340.00	6,370.00
03210.16 PILE CAP REINFORCING					
PILE CAP REINFORCING					
Pile caps					
#3 - #4	TON	20.000	1,880.00	2,090.00	3,970.00
#5 - #6	TON	17.778	1,650.00	1,860.00	3,510.00
#7 - #8	TON	16.000	1,610.00	1,670.00	3,280.00
03305.31 CONCRETE ADMIXTURES					
CONCRETE ADMIXTURES					
Concrete admixtures					
Water reducing admixture	GAL				20.25
Set retarder	GAL				16.75
Air entraining agent	GAL				19.25
03310.01 BEAM CONCRETE					
BEAM CONCRETE					
Beams and girders					
2500# or 3000# concrete					
By crane	CY	0.960	190.00	130.00	320.00
By pump	CY	0.873	190.00	120.00	310.00
By hand buggy	CY	0.800	190.00	64.00	254.00
3500# or 4000# concrete					
By crane	CY	0.960	200.00	130.00	330.00
By pump	CY	0.873	200.00	120.00	320.00
By hand buggy	CY	0.800	200.00	64.00	264.00
03310.02 COLUMN CONCRETE					
COLUMN CONCRETE					
Columns					
2500# or 3000# concrete					
By crane	CY	0.873	190.00	120.00	310.00
By pump	CY	0.800	190.00	110.00	300.00
3500# or 4000# concrete					
By crane	CY	0.873	200.00	120.00	320.00
By pump	CY	0.800	200.00	110.00	310.00
03310.03 ELEVATED SLAB CONCRETE					
ELEVATED SLAB CONCRETE					
Elevated slab					
2500# or 3000# concrete					
By crane	CY	0.480	190.00	64.00	254.00
By pump	CY	0.369	190.00	49.50	239.50
By hand buggy	CY	0.800	190.00	64.00	254.00
03310.04 EQUIPMENT PAD CONCRETE					
EQUIPMENT PAD CONCRETE					
Equipment pad					
2500# or 3000# concrete					
By chute	CY	0.267	190.00	21.25	211.25
By pump	CY	0.686	190.00	92.00	282.00
By crane	CY	0.800	190.00	110.00	300.00
3500# or 4000# concrete					
By chute	CY	0.267	200.00	21.25	221.25
By pump	CY	0.686	200.00	92.00	292.00

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	Unit	Man-Hrs	Material	Labor	Total
03310.05 FOOTING CONCRETE					
FOOTING CONCRETE					
Continuous footing					
2500# or 3000# concrete					
By chute	CY	0.267	190.00	21.25	211.25
By pump	CY	0.600	190.00	81.00	271.00
By crane	CY	0.686	190.00	92.00	282.00
Spread footing					
2500# or 3000# concrete					
By chute	CY	0.267	190.00	21.25	211.25
By pump	CY	0.640	190.00	86.00	276.00
By crane	CY	0.738	190.00	99.00	289.00
03310.06 GRADE BEAM CONCRETE					
GRADE BEAM CONCRETE					
Grade beam					
2500# or 3000# concrete					
By chute	CY	0.267	190.00	21.25	211.25
By crane	CY	0.686	190.00	92.00	282.00
By pump	CY	0.600	190.00	81.00	271.00
By hand buggy	CY	0.800	190.00	64.00	254.00
3500# or 4000# concrete					
By chute	CY	0.267	200.00	21.25	221.25
By crane	CY	0.686	200.00	92.00	292.00
By pump	CY	0.600	200.00	81.00	281.00
By hand buggy	CY	0.800	200.00	64.00	264.00
03310.07 PILE CAP CONCRETE					
PILE CAP CONCRETE					
Pile cap					
2500# or 3000 concrete					
By chute	CY	0.267	190.00	21.25	211.25
By crane	CY	0.800	190.00	110.00	300.00
By pump	CY	0.686	190.00	92.00	282.00
By hand buggy	CY	0.800	190.00	64.00	254.00
03310.08 SLAB / MAT CONCRETE					
SLAB / MAT CONCRETE					
Slab on grade					
2500# or 3000# concrete					
By chute	CY	0.200	190.00	16.00	206.00
By crane	CY	0.400	190.00	54.00	244.00
By pump	CY	0.343	190.00	46.00	236.00
By hand buggy	CY	0.533	190.00	42.75	232.75
03310.09 WALL CONCRETE					
WALL CONCRETE					
Walls					
2500# or 3000# concrete					
To 4'					
By chute	CY	0.229	190.00	18.25	208.25
By crane	CY	0.800	190.00	110.00	300.00
By pump	CY	0.738	190.00	99.00	289.00
To 8'					
By crane	CY	0.873	190.00	120.00	310.00
By pump	CY	0.800	190.00	110.00	300.00
Filled block (CMU)					
3000# concrete, by pump					
4" wide	SF	0.034	2.39	4.60	6.99
6" wide	SF	0.040	3.57	5.37	8.94
8" wide	SF	0.048	4.80	6.44	11.24
03350.01 CONCRETE FINISHES					
CONCRETE FINISHES					
Floor finishes					
Broom	SF	0.011		0.91	0.91
Screed	SF	0.010		0.80	0.80
Darby	SF	0.010		0.80	0.80

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	Unit	Man-Hrs	Material	Labor	Total
03350.01 CONCRETE FINISHES (Cont.)					
Floor finishes					
Steel float	SF	0.013		1.06	1.06
Wall finishes					
Burlap rub, with cement paste	SF	0.013	0.16	1.06	1.22
03371.90 PNEUMATIC CONCRETE					
PNEUMATIC CONCRETE					
Pneumatic applied concrete (gunite)					
2" thick	SF	0.030	6.55	4.38	10.93
3" thick	SF	0.040	8.04	5.85	13.89
4" thick	SF	0.048	9.81	7.02	16.83
Finish surface					
Minimum	SF	0.040		4.09	4.09
Maximum	SF	0.080		8.18	8.18
03372.10 CONCRETE DELIVERY SPECIALS					
CONCRETE DELIVERY SPECIALS					
Small loads, up to 3 cubic yards					
Minimum	CY				240.00
Average	CY				250.00
Maximum	CY				280.00
3 to 7 cubic yard deliveries					
Minimum	CY				190.00
Average	CY				200.00
Maximum	CY				210.00
03390.01 CURING CONCRETE					
CURING CONCRETE					
Sprayed membrane					
Slabs	SF	0.002	0.15	0.12	0.27
Walls	SF	0.002	0.21	0.16	0.37
Curing paper					
Slabs	SF	0.002	0.16	0.16	0.32
Walls	SF	0.002	0.16	0.18	0.34
Burlap					
7.5 oz.	SF	0.003	0.18	0.21	0.39
12 oz.	SF	0.003	0.24	0.22	0.46
03480.01 PRECAST SPECIALTIES					
PRECAST SPECIALTIES					
Precast concrete, coping, 4' to 8' long					
12" wide	LF	0.060	13.25	8.77	22.02
10" wide	LF	0.069	11.75	10.00	21.75
Splash block, 30"x12"x4"	EA	0.400	20.00	59.00	79.00
Stair unit, per riser	EA	0.400	130.00	59.00	189.00
Sun screen and trellis, 8' long, 12" high					
4" thick blades	EA	0.300	140.00	43.75	183.75
03610.01 GROUTING					
GROUTING					
Grouting for bases					
Non-metallic grout					
1" deep	SF	0.160	8.02	17.00	25.02
2" deep	SF	0.178	15.25	19.00	34.25
Portland cement grout (1 cement to 3 sand)					
1/2" joint thickness					
6" wide joints	LF	0.027	0.27	2.85	3.12
8" wide joints	LF	0.032	0.30	3.42	3.72
1" joint thickness					
4" wide joints	LF	0.025	0.30	2.67	2.97
6" wide joints	LF	0.028	0.49	2.95	3.44
03821.31 CORE DRILLING					
CORE DRILLING					
Concrete					
6" thick					
3" dia.	EA	0.571		61.00	61.00

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	Unit	Man-Hrs	Material	Labor	Total
03821.31 CORE DRILLING (Cont.)					
Concrete					
8" thick					
3" dia.	EA	0.800		86.00	86.00

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	Unit	Man-Hrs	Material	Labor	Total
04012.01 RESTORATION AND CLEANING					
RESTORATION AND CLEANING					
Masonry cleaning					
Washing brick					
Smooth surface	SF	0.013	0.21	1.30	1.51
Rough surface	SF	0.018	0.29	1.73	2.02
Steam clean masonry					
Smooth face					
Minimum	SF	0.010	0.56	1.06	1.62
Maximum	SF	0.015	0.90	1.55	2.45
Rough face					
Minimum	SF	0.013	0.82	1.42	2.24
Maximum	SF	0.020	1.21	2.13	3.34
04051.61 MASONRY GROUT					
MASONRY GROUT					
Grout, non-shrink, non-metallic, trowelable	CF	0.016	5.35	2.34	7.69
Grout door frame, hollow metal					
Single	EA	0.600	13.50	88.00	101.50
Double	EA	0.632	18.75	92.00	110.75
Grout-filled concrete block (CMU)					
4" wide	SF	0.020	0.35	2.92	3.27
6" wide	SF	0.022	0.93	3.19	4.12
8" wide	SF	0.024	1.38	3.51	4.89
12" wide	SF	0.025	2.26	3.69	5.95
Grout-filled individual CMU cells					
4" wide	LF	0.012	0.29	1.75	2.04
6" wide	LF	0.012	0.40	1.75	2.15
8" wide	LF	0.012	0.53	1.75	2.28
10" wide	LF	0.014	0.66	2.00	2.66
12" wide	LF	0.014	0.80	2.00	2.80
Bond beams or lintels, 8" deep					
6" thick	LF	0.022	0.80	2.92	3.72
8" thick	LF	0.024	1.07	3.22	4.29
10" thick	LF	0.027	1.34	3.58	4.92
12" thick	LF	0.030	1.60	4.02	5.62
Cavity walls					
2" thick	SF	0.032	0.89	4.29	5.18
3" thick	SF	0.032	1.34	4.29	5.63
4" thick	SF	0.034	1.78	4.60	6.38
6" thick	SF	0.040	2.67	5.37	8.04
04052.31 MASONRY ACCESSORIES					
MASONRY ACCESSORIES					
Foundation vents	EA	0.320	32.25	31.25	63.50
Bar reinforcing					
Horizontal					
#3 - #4	LB	0.032	0.63	3.12	3.75
#5 - #6	LB	0.027	0.63	2.60	3.23
Vertical					
#3 - #4	LB	0.040	0.63	3.90	4.53
#5 - #6	LB	0.032	0.63	3.12	3.75
Horizontal joint reinforcing					
Truss type					
4" wide, 6" wall	LF	0.003	0.20	0.31	0.51
6" wide, 8" wall	LF	0.003	0.20	0.32	0.52
8" wide, 10" wall	LF	0.003	0.25	0.33	0.58
10" wide, 12" wall	LF	0.004	0.25	0.35	0.60
12" wide, 14" wall	LF	0.004	0.31	0.37	0.68
Ladder type					
4" wide, 6" wall	LF	0.003	0.15	0.31	0.46
6" wide, 8" wall	LF	0.003	0.17	0.32	0.49
8" wide, 10" wall	LF	0.003	0.18	0.33	0.51
10" wide, 12" wall	LF	0.003	0.21	0.33	0.54

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04052.31 MASONRY ACCESSORIES (Cont.)

	Unit	Man-Hrs	Material	Labor	Total
Rectangular wall ties					
3/16" dia., galvanized					
2" x 6"	EA	0.013	0.38	1.30	1.68
2" x 8"	EA	0.013	0.41	1.30	1.71
2" x 10"	EA	0.013	0.47	1.30	1.77
2" x 12"	EA	0.013	0.53	1.30	1.83
4" x 6"	EA	0.016	0.43	1.56	1.99
4" x 8"	EA	0.016	0.49	1.56	2.05
4" x 10"	EA	0.016	0.64	1.56	2.20
4" x 12"	EA	0.016	0.73	1.56	2.29
1/4" dia., galvanized					
2" x 6"	EA	0.013	0.71	1.30	2.01
2" x 8"	EA	0.013	0.80	1.30	2.10
2" x 10"	EA	0.013	0.90	1.30	2.20
2" x 12"	EA	0.013	1.04	1.30	2.34
4" x 6"	EA	0.016	0.82	1.56	2.38
4" x 8"	EA	0.016	0.90	1.56	2.46
4" x 10"	EA	0.016	1.04	1.56	2.60
4" x 12"	EA	0.016	1.09	1.56	2.65
Z-type wall ties, galvanized					
6" long					
1/8" dia.	EA	0.013	0.33	1.30	1.63
3/16" dia.	EA	0.013	0.36	1.30	1.66
1/4" dia.	EA	0.013	0.38	1.30	1.68
8" long					
1/8" dia.	EA	0.013	0.36	1.30	1.66
3/16" dia.	EA	0.013	0.38	1.30	1.68
1/4" dia.	EA	0.013	0.41	1.30	1.71
10" long					
1/8" dia.	EA	0.013	0.38	1.30	1.68
3/16" dia.	EA	0.013	0.43	1.30	1.73
1/4" dia.	EA	0.013	0.49	1.30	1.79
Dovetail anchor slots					
Galvanized steel, filled					
24 ga.	LF	0.020	0.82	1.95	2.77
20 ga.	LF	0.020	1.72	1.95	3.67
16 oz. copper, foam filled	LF	0.020	2.03	1.95	3.98
Dovetail anchors					
16 ga.					
3-1/2" long	EA	0.013	0.25	1.30	1.55
5-1/2" long	EA	0.013	0.30	1.30	1.60
12 ga.					
3-1/2" long	EA	0.013	0.33	1.30	1.63
5-1/2" long	EA	0.013	0.55	1.30	1.85
Dovetail, triangular galvanized ties, 12 ga.					
3" x 3"	EA	0.013	0.56	1.30	1.86
5" x 5"	EA	0.013	0.60	1.30	1.90
7" x 7"	EA	0.013	0.68	1.30	1.98
7" x 9"	EA	0.013	0.72	1.30	2.02
Brick anchors					
Corrugated, 3-1/2" long					
16 ga.	EA	0.013	0.23	1.30	1.53
12 ga.	EA	0.013	0.40	1.30	1.70
Non-corrugated, 3-1/2" long					
16 ga.	EA	0.013	0.32	1.30	1.62
12 ga.	EA	0.013	0.57	1.30	1.87
Cavity wall anchors, corrugated, galvanized					
5" long					
16 ga.	EA	0.013	0.71	1.30	2.01
12 ga.	EA	0.013	1.06	1.30	2.36
7" long					
28 ga.	EA	0.013	0.78	1.30	2.08
24 ga.	EA	0.013	0.99	1.30	2.29
22 ga.	EA	0.013	1.01	1.30	2.31

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	Unit	Man-Hrs	Material	Labor	Total
04052.31 MASONRY ACCESSORIES (Cont.)					
7" long					
16 ga.	EA	0.013	1.14	1.30	2.44
Mesh ties, 16 ga., 3" wide					
8" long	EA	0.013	0.95	1.30	2.25
12" long	EA	0.013	1.06	1.30	2.36
20" long	EA	0.013	1.46	1.30	2.76
24" long	EA	0.013	1.61	1.30	2.91
04052.32 MASONRY CONTROL JOINTS					
MASONRY CONTROL JOINTS					
Control joint, cross shaped PVC	LF	0.020	2.17	1.95	4.12
Closed cell joint filler					
1/2"	LF	0.020	0.38	1.95	2.33
3/4"	LF	0.020	0.77	1.95	2.72
Rubber, for					
4" wall	LF	0.020	2.50	1.95	4.45
PVC, for					
4" wall	LF	0.020	1.30	1.95	3.25
04052.35 MASONRY FLASHING					
MASONRY FLASHING					
Through-wall flashing					
5 oz. coated copper	SF	0.067	3.35	6.50	9.85
0.030" elastomeric	SF	0.053	1.10	5.20	6.30
04211.31 BRICK MASONRY					
BRICK MASONRY					
Standard size brick, running bond					
Face brick, red (6.4/sf)					
Veneer	SF	0.133	5.65	13.00	18.65
Cavity wall	SF	0.114	5.65	11.25	16.90
9" solid wall	SF	0.229	11.25	22.25	33.50
Common brick (6.4/sf)					
Select common for veneers	SF	0.133	3.69	13.00	16.69
Back-up					
4" thick	SF	0.100	3.32	9.75	13.07
8" thick	SF	0.160	6.65	15.50	22.15
Glazed brick (7.4/sf)					
Veneer	SF	0.145	15.25	14.25	29.50
Buff or gray face brick (6.4/sf)					
Veneer	SF	0.133	6.58	13.00	19.58
Cavity wall	SF	0.114	6.58	11.25	17.83
Jumbo or oversize brick (3/sf)					
4" veneer	SF	0.080	4.33	7.80	12.13
4" back-up	SF	0.067	4.33	6.50	10.83
8" back-up	SF	0.114	5.02	11.25	16.27
Norman brick, red face (4.5/sf)					
4" veneer	SF	0.100	6.23	9.75	15.98
Cavity wall	SF	0.089	6.23	8.67	14.90
Chimney, standard brick, including flue					
16" x 16"	LF	0.800	26.75	78.00	104.75
16" x 20"	LF	0.800	45.00	78.00	123.00
16" x 24"	LF	0.800	48.00	78.00	126.00
20" x 20"	LF	1.000	37.50	98.00	135.50
20" x 24"	LF	1.000	51.00	98.00	149.00
20" x 32"	LF	1.143	57.00	110.00	167.00
Window sill, face brick on edge	LF	0.200	3.11	19.50	22.61
04220.01 CONCRETE MASONRY UNITS					
CONCRETE MASONRY UNITS					
Hollow, load bearing					
4"	SF	0.059	1.63	5.78	7.41
6"	SF	0.062	2.38	6.00	8.38
8"	SF	0.067	2.73	6.50	9.23
10"	SF	0.073	3.78	7.09	10.87
12"	SF	0.080	4.34	7.80	12.14

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04220.01 CONCRETE MASONRY UNITS (Cont.)

	Unit	Man-Hrs	Material	Labor	Total
Solid, load bearing					
4"	SF	0.059	2.55	5.78	8.33
6"	SF	0.062	2.86	6.00	8.86
8"	SF	0.067	3.91	6.50	10.41
10"	SF	0.073	4.17	7.09	11.26
12"	SF	0.080	6.19	7.80	13.99
Back-up block, 8" x 16"					
2"	SF	0.046	1.71	4.45	6.16
4"	SF	0.047	1.78	4.59	6.37
6"	SF	0.050	2.61	4.87	7.48
8"	SF	0.053	2.99	5.20	8.19
10"	SF	0.057	4.13	5.57	9.70
12"	SF	0.062	4.75	6.00	10.75
Foundation wall, 8" x 16"					
6"	SF	0.057	2.60	5.57	8.17
8"	SF	0.062	2.99	6.00	8.99
10"	SF	0.067	4.13	6.50	10.63
12"	SF	0.073	4.75	7.09	11.84
Solid					
6"	SF	0.062	3.14	6.00	9.14
8"	SF	0.067	4.29	6.50	10.79
10"	SF	0.073	4.57	7.09	11.66
12"	SF	0.080	6.79	7.80	14.59
Exterior, styrofoam inserts, std weight, 8" x 16"					
6"	SF	0.062	4.57	6.00	10.57
8"	SF	0.067	4.94	6.50	11.44
10"	SF	0.073	6.39	7.09	13.48
12"	SF	0.080	8.77	7.80	16.57
Lightweight					
6"	SF	0.062	5.09	6.00	11.09
8"	SF	0.067	5.73	6.50	12.23
10"	SF	0.073	6.09	7.09	13.18
12"	SF	0.080	8.04	7.80	15.84
Acoustical slotted block					
4"	SF	0.073	5.30	7.09	12.39
6"	SF	0.073	5.56	7.09	12.65
8"	SF	0.080	6.94	7.80	14.74
Filled cavities					
4"	SF	0.089	5.68	8.67	14.35
6"	SF	0.094	6.56	9.18	15.74
8"	SF	0.100	8.40	9.75	18.15
Hollow, split face					
4"	SF	0.059	3.63	5.78	9.41
6"	SF	0.062	4.21	6.00	10.21
8"	SF	0.067	4.42	6.50	10.92
10"	SF	0.073	4.95	7.09	12.04
12"	SF	0.080	5.28	7.80	13.08
Split rib profile					
4"	SF	0.073	4.42	7.09	11.51
6"	SF	0.073	5.13	7.09	12.22
8"	SF	0.080	5.59	7.80	13.39
10"	SF	0.080	6.11	7.80	13.91
12"	SF	0.080	6.63	7.80	14.43
Solar screen concrete block					
4" thick					
6" x 6"	SF	0.178	4.09	17.25	21.34
8" x 8"	SF	0.160	4.88	15.50	20.38
12" x 12"	SF	0.123	5.00	12.00	17.00
8" thick					
8" x 16"	SF	0.114	5.00	11.25	16.25
Vertical reinforcing					
4' o.c., add 5% to labor					
2'8" o.c., add 15% to labor					
Interior partitions, add 10% to labor					

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	Unit	Man-Hrs	Material	Labor	Total
04220.09 BOND BEAMS & LINTELS					
BOND BEAMS & LINTELS					
Bond beam, no grout or reinforcement					
8" x 16" x					
4" thick	LF	0.062	1.54	6.00	7.54
6" thick	LF	0.064	2.35	6.24	8.59
8" thick	LF	0.067	2.69	6.50	9.19
10" thick	LF	0.070	3.33	6.78	10.11
12" thick	LF	0.073	3.78	7.09	10.87
Beam lintel, no grout or reinforcement					
8" x 16" x					
10" thick	LF	0.080	6.16	7.80	13.96
12" thick	LF	0.089	7.82	8.67	16.49
Precast masonry lintel					
6 lf, 8" high x					
4" thick	LF	0.133	5.63	13.00	18.63
6" thick	LF	0.133	7.19	13.00	20.19
8" thick	LF	0.145	8.14	14.25	22.39
10" thick	LF	0.145	9.71	14.25	23.96
10 lf, 8" high x					
4" thick	LF	0.080	7.08	7.80	14.88
6" thick	LF	0.080	8.73	7.80	16.53
8" thick	LF	0.089	9.71	8.67	18.38
10" thick	LF	0.089	13.25	8.67	21.92
Steel angles and plates					
Minimum	LB	0.011	1.15	1.11	2.26
Maximum	LB	0.020	1.69	1.95	3.64
Various size angle lintels					
1/4" stock					
3" x 3"	LF	0.050	5.94	4.87	10.81
3" x 3-1/2"	LF	0.050	6.54	4.87	11.41
3/8" stock					
3" x 4"	LF	0.050	10.25	4.87	15.12
3-1/2" x 4"	LF	0.050	10.75	4.87	15.62
4" x 4"	LF	0.050	12.00	4.87	16.87
5" x 3-1/2"	LF	0.050	12.50	4.87	17.37
6" x 3-1/2"	LF	0.050	14.25	4.87	19.12
1/2" stock					
6" x 4"	LF	0.050	15.75	4.87	20.62
04230.01 GLASS BLOCK					
GLASS BLOCK					
Glass block, 4" thick					
6" x 6"	SF	0.267	30.25	26.00	56.25
8" x 8"	SF	0.200	19.00	19.50	38.50
12" x 12"	SF	0.160	24.25	15.50	39.75
04430.01 STONE					
STONE					
Rubble stone					
Walls set in mortar					
8" thick	SF	0.200	15.50	19.50	35.00
12" thick	SF	0.320	18.75	31.25	50.00
18" thick	SF	0.400	24.75	39.00	63.75
24" thick	SF	0.533	31.00	52.00	83.00
Dry set wall					
8" thick	SF	0.133	17.50	13.00	30.50
12" thick	SF	0.200	19.75	19.50	39.25
18" thick	SF	0.267	27.25	26.00	53.25
24" thick	SF	0.320	33.25	31.25	64.50
Thresholds, 7/8" thick, 3' long, 4" to 6" wide					
Plain	EA	0.667	28.00	65.00	93.00
Beveled	EA	0.667	30.75	65.00	95.75
Window sill					
6" wide, 2" thick	LF	0.320	15.50	31.25	46.75
Stools					
5" wide, 7/8" thick	LF	0.320	23.00	31.25	54.25

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	Unit	Man-Hrs	Material	Labor	Total
04430.01 STONE (Cont.)					
Rubble stone					
Granite veneer facing panels, polished					
7/8" thick					
Black	SF	0.320	52.00	31.25	83.25
Gray	SF	0.320	41.00	31.25	72.25
Slate, panels					
1" thick	SF	0.320	25.75	31.25	57.00
Sills or stools					
1" thick					
6" wide	LF	0.320	12.00	31.25	43.25
10" wide	LF	0.348	19.50	34.00	53.50
04510.01 FLUE LINERS					
FLUE LINERS					
Flue liners					
Rectangular					
8" x 12"	LF	0.133	7.91	13.00	20.91
12" x 12"	LF	0.145	9.87	14.25	24.12
12" x 18"	LF	0.160	17.50	15.50	33.00
16" x 16"	LF	0.178	18.75	17.25	36.00
18" x 18"	LF	0.190	23.25	18.50	41.75
20" x 20"	LF	0.200	38.75	19.50	58.25
24" x 24"	LF	0.229	46.50	22.25	68.75
Round					
18" dia.	LF	0.190	35.75	18.50	54.25
24" dia.	LF	0.229	71.00	22.25	93.25

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	Unit	Man-Hrs	Material	Labor	Total
05052.31 STRUCTURAL WELDING					
STRUCTURAL WELDING					
Welding					
Single pass					
1/8"	LF	0.040	0.46	4.14	4.60
3/16"	LF	0.053	0.76	5.52	6.28
1/4"	LF	0.067	1.07	6.90	7.97
05052.39 METAL FASTENINGS					
METAL FASTENINGS					
Anchor bolts, material only					
3/8" x					
8" long	EA				1.77
12" long	EA				2.56
1/2" x					
8" long	EA				2.79
12" long	EA				3.61
5/8" x					
8" long	EA				5.53
12" long	EA				6.82
3/4" x					
8" long	EA				6.76
12" long	EA				9.67
Non-drilling anchor					
1/4"	EA				0.90
3/8"	EA				1.12
1/2"	EA				1.72
Self-drilling anchor					
1/4"	EA				2.27
3/8"	EA				3.41
1/2"	EA				4.55
05052.40 METAL LINTELS					
METAL LINTELS					
Lintels, steel					
Plain	LB	0.020	2.09	2.07	4.16
Galvanized	LB	0.020	2.54	2.07	4.61
05120.01 BEAMS, GIRDERS, COLUMNS, TRUSSES					
BEAMS, GIRDERS, COLUMNS, TRUSSES					
Beams and girders, A-36					
Welded	TON	4.800	4,190.00	1,060.00	5,250.00
Bolted	TON	4.364	4,070.00	960.00	5,030.00
Columns					
Pipe					
6" dia.	LB	0.005	2.14	1.06	3.20
Structural tube					
6" square					
Light sections	TON	9.600	4,990.00	2,120.00	7,110.00
05410.01 METAL FRAMING					
METAL FRAMING					
Furring channel, galvanized					
Beams and columns, 3/4"					
12" o.c.	SF	0.080	0.51	8.28	8.79
16" o.c.	SF	0.073	0.39	7.52	7.91
Walls, 3/4"					
12" o.c.	SF	0.040	0.51	4.14	4.65
16" o.c.	SF	0.033	0.39	3.45	3.84
24" o.c.	SF	0.027	0.28	2.76	3.04
1-1/2"					
12" o.c.	SF	0.040	0.84	4.14	4.98
16" o.c.	SF	0.033	0.64	3.45	4.09
24" o.c.	SF	0.027	0.43	2.76	3.19

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05410.01 METAL FRAMING (Cont.)

	Unit	Man-Hrs	Material	Labor	Total
Stud, load bearing					
16" o.c.					
12 ga.					
2-1/2"	SF	0.036	1.89	3.68	5.57
3-5/8"	SF	0.036	2.23	3.68	5.91
4"	SF	0.036	2.34	3.68	6.02
6"	SF	0.040	2.91	4.14	7.05
8"	SF	0.040	3.55	4.14	7.69
12"	SF	0.044	4.69	4.60	9.29
14 ga.					
2-1/2"	SF	0.036	1.55	3.68	5.23
3-5/8"	SF	0.036	1.83	3.68	5.51
4"	SF	0.036	1.92	3.68	5.60
6"	SF	0.040	2.39	4.14	6.53
8"	SF	0.040	2.91	4.14	7.05
12"	SF	0.044	3.84	4.60	8.44
16 ga.					
2-1/2"	SF	0.036	1.41	3.68	5.09
3-5/8"	SF	0.036	1.66	3.68	5.34
4"	SF	0.036	1.73	3.68	5.41
6"	SF	0.040	2.18	4.14	6.32
8"	SF	0.040	2.79	4.14	6.93
12"	SF	0.044	3.49	4.60	8.09
18 ga.					
2-1/2"	SF	0.036	1.15	3.68	4.83
3-5/8"	SF	0.036	1.41	3.68	5.09
4"	SF	0.036	1.48	3.68	5.16
6"	SF	0.040	1.86	4.14	6.00
8"	SF	0.040	2.25	4.14	6.39
12"	SF	0.044	2.79	4.60	7.39
20 ga.					
2-1/2"	SF	0.036	0.76	3.68	4.44
3-5/8"	SF	0.036	0.92	3.68	4.60
4"	SF	0.036	1.00	3.68	4.68
6"	SF	0.040	1.23	4.14	5.37
8"	SF	0.040	1.46	4.14	5.60
12"	SF	0.044	1.74	4.60	6.34
24" o.c.					
12 ga.					
2-1/2"	SF	0.031	1.32	3.18	4.50
3-5/8"	SF	0.031	1.56	3.18	4.74
4"	SF	0.031	1.64	3.18	4.82
6"	SF	0.033	2.04	3.45	5.49
8"	SF	0.033	2.48	3.45	5.93
12"	SF	0.036	3.28	3.76	7.04
14 ga.					
2-1/2"	SF	0.031	1.08	3.18	4.26
3-5/8"	SF	0.031	1.28	3.18	4.46
4"	SF	0.031	1.34	3.18	4.52
6"	SF	0.033	1.67	3.45	5.12
8"	SF	0.033	2.04	3.45	5.49
12"	SF	0.036	2.69	3.76	6.45
16 ga.					
2-1/2"	SF	0.031	0.96	3.18	4.14
3-5/8"	SF	0.031	1.15	3.18	4.33
4"	SF	0.031	1.22	3.18	4.40
6"	SF	0.033	1.48	3.45	4.93
8"	SF	0.033	1.86	3.45	5.31
12"	SF	0.036	1.86	3.76	5.62
18 ga.					
2-1/2"	SF	0.031	0.76	3.18	3.94
3-5/8"	SF	0.031	0.89	3.18	4.07
4"	SF	0.031	0.96	3.18	4.14
6"	SF	0.033	1.22	3.45	4.67

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	Unit	Man-Hrs	Material	Labor	Total
05410.01 METAL FRAMING (Cont.)					
18 ga.					
8"	SF	0.033	1.48	3.45	4.93
12"	SF	0.036	1.48	3.76	5.24
20 ga.					
2-1/2"	SF	0.031	0.48	3.18	3.66
3-5/8"	SF	0.031	0.55	3.18	3.73
4"	SF	0.031	0.61	3.18	3.79
6"	SF	0.033	0.79	3.45	4.24
8"	SF	0.033	0.97	3.45	4.42
12"	SF	0.036	0.97	3.76	4.73
Track, load bearing, 12 ga.					
2-1/2"	LF	0.012	1.89	1.27	3.16
3-5/8"	LF	0.012	2.23	1.27	3.50
4"	LF	0.012	2.34	1.27	3.61
6"	LF	0.013	2.91	1.31	4.22
8"	LF	0.013	3.55	1.31	4.86
12"	LF	0.013	4.69	1.35	6.04
14 ga.					
2-1/2"	LF	0.012	1.55	1.27	2.82
3-5/8"	LF	0.012	1.83	1.27	3.10
4"	LF	0.012	1.92	1.27	3.19
6"	LF	0.013	2.39	1.31	3.70
8"	LF	0.013	2.91	1.31	4.22
12"	LF	0.013	3.84	1.35	5.19
16 ga.					
2-1/2"	LF	0.012	1.41	1.27	2.68
3-5/8"	LF	0.012	1.66	1.27	2.93
4"	LF	0.012	1.73	1.27	3.00
6"	LF	0.013	2.18	1.31	3.49
8"	LF	0.013	2.79	1.31	4.10
12"	LF	0.013	3.49	1.35	4.84
18 ga.					
2-1/2"	LF	0.012	1.15	1.27	2.42
3-5/8"	LF	0.012	1.41	1.27	2.68
4"	LF	0.012	1.48	1.27	2.75
6"	LF	0.013	1.86	1.31	3.17
8"	LF	0.013	2.25	1.31	3.56
12"	LF	0.013	2.79	1.35	4.14
20 ga.					
2-1/2"	LF	0.012	0.76	1.27	2.03
3-5/8"	LF	0.012	0.92	1.27	2.19
4"	LF	0.012	1.00	1.27	2.27
6"	LF	0.013	1.23	1.31	2.54
8"	LF	0.013	1.46	1.31	2.77
12"	LF	0.013	1.74	1.35	3.09
05521.31 RAILINGS					
RAILINGS					
Railing, pipe					
1-1/4" diameter, welded steel					
2-rail					
Primed	LF	0.160	43.75	16.50	60.25
Galvanized	LF	0.160	56.00	16.50	72.50
3-rail					
Primed	LF	0.200	56.00	20.75	76.75
Galvanized	LF	0.200	73.00	20.75	93.75
Wall mounted, single rail, welded steel					
Primed	LF	0.123	29.25	12.75	42.00
Galvanized	LF	0.123	38.00	12.75	50.75
1-1/2" diameter, welded steel					
2-rail					
Primed	LF	0.160	47.50	16.50	64.00
Galvanized	LF	0.160	62.00	16.50	78.50

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	Unit	Man-Hrs	Material	Labor	Total
05521.31 RAILINGS (Cont.)					
1-1/2" diameter, welded steel					
3-rail					
Primed	LF	0.200	60.00	20.75	80.75
Galvanized	LF	0.200	78.00	20.75	98.75
05730.01 ORNAMENTAL METAL					
ORNAMENTAL METAL					
Railings, square bars, 6" o.c., shaped top rails					
Steel	LF	0.400	99.00	41.50	140.50
Aluminum	LF	0.400	120.00	41.50	161.50
Bronze	LF	0.533	250.00	55.00	305.00
Stainless steel	LF	0.533	250.00	55.00	305.00
Laminated metal or wood handrails					
2-1/2" round or oval shape	LF	0.400	290.00	41.50	331.50

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	Unit	Man-Hrs	Material	Labor	Total
06052.31 ACCESSORIES					
ACCESSORIES					
Column/post base, cast aluminum					
4" x 4"	EA	0.200	20.75	20.50	41.25
6" x 6"	EA	0.200	29.00	20.50	49.50
Bridging, metal, per pair					
12" o.c.	EA	0.080	2.92	8.18	11.10
16" o.c.	EA	0.073	2.69	7.43	10.12
Anchors					
Bolts, threaded two ends, with nuts and washers					
1/2" dia.					
4" long	EA	0.050	3.75	5.11	8.86
7-1/2" long	EA	0.050	4.37	5.11	9.48
3/4" dia.					
7-1/2" long	EA	0.050	7.39	5.11	12.50
15" long	EA	0.050	11.25	5.11	16.36
Framing anchors					
10 gauge	EA	0.067	1.60	6.81	8.41
Bolts, carriage					
1/4 x 4	EA	0.080	0.85	8.18	9.03
5/16 x 6	EA	0.084	1.93	8.61	10.54
3/8 x 6	EA	0.084	3.91	8.61	12.52
1/2 x 6	EA	0.084	5.45	8.61	14.06
Joist and beam hangers					
18 ga.					
2 x 4	EA	0.080	1.61	8.18	9.79
2 x 6	EA	0.080	1.93	8.18	10.11
2 x 8	EA	0.080	2.25	8.18	10.43
2 x 10	EA	0.089	2.42	9.08	11.50
2 x 12	EA	0.100	4.07	10.25	14.32
16 ga.					
3 x 6	EA	0.089	6.08	9.08	15.16
3 x 8	EA	0.089	7.38	9.08	16.46
3 x 10	EA	0.094	8.33	9.62	17.95
3 x 12	EA	0.107	9.38	11.00	20.38
3 x 14	EA	0.114	10.25	11.75	22.00
4 x 6	EA	0.089	9.47	9.08	18.55
4 x 8	EA	0.089	11.00	9.08	20.08
4 x 10	EA	0.094	12.75	9.62	22.37
4 x 12	EA	0.107	16.25	11.00	27.25
4 x 14	EA	0.114	17.25	11.75	29.00
Rafter anchors, 18 ga., 1-1/2" wide					
5-1/4" long	EA	0.067	1.19	6.81	8.00
10-3/4" long	EA	0.067	1.76	6.81	8.57
Shear plates					
2-5/8" dia.	EA	0.062	4.23	6.29	10.52
4" dia.	EA	0.067	8.78	6.81	15.59
Sill anchors					
Embedded in concrete	EA	0.080	3.10	8.18	11.28
Split rings					
2-1/2" dia.	EA	0.089	2.55	9.08	11.63
4" dia.	EA	0.100	4.70	10.25	14.95
Strap ties, 14 ga., 1-3/8" wide					
12" long	EA	0.067	3.19	6.81	10.00
18" long	EA	0.073	3.43	7.43	10.86
24" long	EA	0.080	5.11	8.18	13.29
36" long	EA	0.089	7.02	9.08	16.10
Toothed rings					
2-5/8" dia.	EA	0.133	2.95	13.75	16.70
4" dia.	EA	0.160	3.43	16.25	19.68
06057.31 WOOD TREATMENT					
WOOD TREATMENT					
Creosote preservative treatment					
8 lb/cf	BF				0.74
10 lb/cf	BF				0.88

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	Unit	Man-Hrs	Material	Labor	Total
06057.31 WOOD TREATMENT (Cont.)					
Salt preservative treatment					
Oil borne					
Minimum	BF				0.67
Maximum	BF				0.95
Water borne					
Minimum	BF				0.47
Maximum	BF				0.74
Fire retardant treatment					
Minimum	BF				0.95
Maximum	BF				1.15
Kiln dried, softwood, add to framing costs					
1" thick	BF				0.34
2" thick	BF				0.47
3" thick	BF				0.60
4" thick	BF				0.74
06110.01 BLOCKING					
BLOCKING					
Steel construction					
Walls					
2x4	LF	0.053	1.06	5.45	6.51
2x6	LF	0.062	1.59	6.29	7.88
2x8	LF	0.067	2.12	6.81	8.93
2x10	LF	0.073	2.66	7.43	10.09
2x12	LF	0.080	3.25	8.18	11.43
Ceilings					
2x4	LF	0.062	1.06	6.29	7.35
2x6	LF	0.073	1.59	7.43	9.02
2x8	LF	0.080	2.12	8.18	10.30
2x10	LF	0.089	2.66	9.08	11.74
2x12	LF	0.100	3.25	10.25	13.50
Wood construction					
Walls					
2x4	LF	0.044	1.06	4.54	5.60
2x6	LF	0.050	1.59	5.11	6.70
2x8	LF	0.053	2.12	5.45	7.57
2x10	LF	0.057	2.66	5.84	8.50
2x12	LF	0.062	3.25	6.29	9.54
Ceilings					
2x4	LF	0.050	1.06	5.11	6.17
2x6	LF	0.057	1.59	5.84	7.43
2x8	LF	0.062	2.12	6.29	8.41
2x10	LF	0.067	2.66	6.81	9.47
2x12	LF	0.073	3.25	7.43	10.68
06110.02 CEILING FRAMING					
CEILING FRAMING					
Ceiling joists					
12" o.c.					
2x4	SF	0.019	1.06	1.94	3.00
2x6	SF	0.020	1.59	2.04	3.63
2x8	SF	0.021	2.12	2.15	4.27
2x10	SF	0.022	2.66	2.27	4.93
2x12	SF	0.024	3.25	2.40	5.65
16" o.c.					
2x4	SF	0.015	1.04	1.57	2.61
2x6	SF	0.016	1.19	1.63	2.82
2x8	SF	0.017	1.59	1.70	3.29
2x10	SF	0.017	1.99	1.77	3.76
2x12	SF	0.018	2.44	1.85	4.29
24" o.c.					
2x4	SF	0.013	0.53	1.29	1.82
2x6	SF	0.013	0.82	1.36	2.18
2x8	SF	0.014	1.06	1.43	2.49
2x10	SF	0.015	1.33	1.51	2.84
2x12	SF	0.016	1.62	1.60	3.22

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	Unit	Man-Hrs	Material	Labor	Total
06110.02 CEILING FRAMING (Cont.)					
Headers and nailers					
2x4	LF	0.026	1.06	2.63	3.69
2x6	LF	0.027	1.59	2.72	4.31
2x8	LF	0.029	2.12	2.92	5.04
2x10	LF	0.031	2.66	3.14	5.80
2x12	LF	0.033	3.25	3.40	6.65
Sister joists for ceilings					
2x4	LF	0.057	1.06	5.84	6.90
2x6	LF	0.067	1.59	6.81	8.40
2x8	LF	0.080	2.12	8.18	10.30
2x10	LF	0.100	2.66	10.25	12.91
2x12	LF	0.133	3.25	13.75	17.00
06110.03 FLOOR FRAMING					
FLOOR FRAMING					
Floor joists					
12" o.c.					
2x6	SF	0.016	1.59	1.63	3.22
2x8	SF	0.016	2.12	1.66	3.78
2x10	SF	0.017	2.66	1.70	4.36
2x12	SF	0.017	3.25	1.77	5.02
2x14	SF	0.017	3.79	1.70	5.49
3x6	SF	0.017	4.12	1.74	5.86
3x8	SF	0.017	5.50	1.77	7.27
3x10	SF	0.018	6.87	1.85	8.72
3x12	SF	0.019	8.25	1.94	10.19
3x14	SF	0.020	9.62	2.04	11.66
4x6	SF	0.017	3.63	1.70	5.33
4x8	SF	0.017	4.84	1.77	6.61
4x10	SF	0.018	6.05	1.85	7.90
4x12	SF	0.019	7.26	1.94	9.20
4x14	SF	0.020	8.47	2.04	10.51
16" o.c.					
2x6	SF	0.013	1.19	1.36	2.55
2x8	SF	0.014	1.59	1.38	2.97
2x10	SF	0.014	1.99	1.41	3.40
2x12	SF	0.014	2.44	1.46	3.90
2x14	SF	0.015	2.83	1.51	4.34
3x6	SF	0.014	1.98	1.41	3.39
3x8	SF	0.014	2.64	1.46	4.10
3x10	SF	0.015	3.30	1.51	4.81
3x12	SF	0.015	3.96	1.57	5.53
3x14	SF	0.016	4.62	1.63	6.25
4x6	SF	0.014	2.64	1.41	4.05
4x8	SF	0.014	3.52	1.46	4.98
4x10	SF	0.015	4.40	1.51	5.91
4x12	SF	0.015	5.28	1.57	6.85
4x14	SF	0.016	6.16	1.63	7.79
Sister joists for floors					
2x4	LF	0.050	1.06	5.11	6.17
2x6	LF	0.057	1.59	5.84	7.43
2x8	LF	0.067	2.12	6.81	8.93
2x10	LF	0.080	2.66	8.18	10.84
2x12	LF	0.100	3.25	10.25	13.50
3x6	LF	0.080	4.12	8.18	12.30
3x8	LF	0.089	5.50	9.08	14.58
3x10	LF	0.100	6.87	10.25	17.12
3x12	LF	0.114	8.25	11.75	20.00
4x6	LF	0.080	3.63	8.18	11.81
4x8	LF	0.089	4.84	9.08	13.92
4x10	LF	0.100	6.05	10.25	16.30
4x12	LF	0.114	7.26	11.75	19.01

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	Unit	Man-Hrs	Material	Labor	Total
06110.04 FURRING					
FURRING					
Furring, wood strips					
Walls					
On masonry or concrete walls					
1x2 furring					
12" o.c.	SF	0.025	0.46	2.55	3.01
16" o.c.	SF	0.023	0.35	2.33	2.68
24" o.c.	SF	0.021	0.23	2.15	2.38
1x3 furring					
12" o.c.	SF	0.025	0.69	2.55	3.24
16" o.c.	SF	0.023	0.51	2.33	2.84
24" o.c.	SF	0.021	0.35	2.15	2.50
On wood walls					
1x2 furring					
12" o.c.	SF	0.018	0.46	1.81	2.27
16" o.c.	SF	0.016	0.35	1.63	1.98
24" o.c.	SF	0.015	0.23	1.48	1.71
1x3 furring					
12" o.c.	SF	0.018	0.69	1.81	2.50
16" o.c.	SF	0.016	0.51	1.63	2.14
24" o.c.	SF	0.015	0.35	1.48	1.83
Ceilings					
On masonry or concrete ceilings					
1x2 furring					
12" o.c.	SF	0.044	0.46	4.54	5.00
16" o.c.	SF	0.040	0.35	4.09	4.44
24" o.c.	SF	0.036	0.23	3.71	3.94
1x3 furring					
12" o.c.	SF	0.044	0.69	4.54	5.23
16" o.c.	SF	0.040	0.51	4.09	4.60
24" o.c.	SF	0.036	0.35	3.71	4.06
On wood ceilings					
1x2 furring					
12" o.c.	SF	0.030	0.46	3.02	3.48
16" o.c.	SF	0.027	0.35	2.72	3.07
24" o.c.	SF	0.024	0.23	2.47	2.70
1x3					
12" o.c.	SF	0.030	0.69	3.02	3.71
16" o.c.	SF	0.027	0.51	2.72	3.23
24" o.c.	SF	0.024	0.35	2.47	2.82
06110.05 ROOF FRAMING					
ROOF FRAMING					
Roof framing					
Rafters, gable end					
0-2 pitch (flat to 2-in-12)					
12" o.c.					
2x4	SF	0.017	1.06	1.70	2.76
2x6	SF	0.017	1.59	1.77	3.36
2x8	SF	0.018	2.12	1.85	3.97
2x10	SF	0.019	2.66	1.94	4.60
2x12	SF	0.020	3.25	2.04	5.29
16" o.c.					
2x6	SF	0.014	1.19	1.46	2.65
2x8	SF	0.015	1.59	1.51	3.10
2x10	SF	0.015	2.00	1.57	3.57
2x12	SF	0.016	2.44	1.63	4.07
24" o.c.					
2x6	SF	0.012	0.80	1.23	2.03
2x8	SF	0.013	1.06	1.27	2.33
2x10	SF	0.013	1.33	1.31	2.64
2x12	SF	0.013	1.62	1.36	2.98

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06110.05 ROOF FRAMING (Cont.)

	Unit	Man-Hrs	Material	Labor	Total
Rafters, gable end					
4-6 pitch (4-in-12 to 6-in-12)					
12" o.c.					
2x4	SF	0.017	1.06	1.77	2.83
2x6	SF	0.018	1.59	1.85	3.44
2x8	SF	0.019	2.12	1.94	4.06
2x10	SF	0.020	2.66	2.04	4.70
2x12	SF	0.021	3.25	2.15	5.40
16" o.c.					
2x6	SF	0.015	1.19	1.51	2.70
2x8	SF	0.015	1.59	1.57	3.16
2x10	SF	0.016	2.00	1.63	3.63
2x12	SF	0.017	2.44	1.70	4.14
24" o.c.					
2x6	SF	0.013	0.80	1.27	2.07
2x8	SF	0.013	1.06	1.31	2.37
2x10	SF	0.014	1.33	1.41	2.74
2x12	SF	0.015	1.62	1.57	3.19
8-12 pitch (8-in-12 to 12-in-12)					
12" o.c.					
2x4	SF	0.018	1.15	1.85	3.00
2x6	SF	0.019	1.72	1.94	3.66
2x8	SF	0.020	2.29	2.04	4.33
2x10	SF	0.021	2.87	2.15	5.02
2x12	SF	0.022	3.51	2.27	5.78
16" o.c.					
2x6	SF	0.015	1.29	1.57	2.86
2x8	SF	0.016	1.72	1.63	3.35
2x10	SF	0.017	2.16	1.70	3.86
2x12	SF	0.017	2.63	1.77	4.40
24" o.c.					
2x6	SF	0.013	0.86	1.31	2.17
2x8	SF	0.013	1.15	1.36	2.51
2x10	SF	0.014	1.43	1.41	2.84
2x12	SF	0.014	1.75	1.46	3.21
Ridge boards					
2x6	LF	0.040	1.59	4.09	5.68
2x8	LF	0.044	2.12	4.54	6.66
2x10	LF	0.050	2.66	5.11	7.77
2x12	LF	0.057	3.25	5.84	9.09
Hip rafters					
2x6	LF	0.029	1.59	2.92	4.51
2x8	LF	0.030	2.12	3.02	5.14
2x10	LF	0.031	2.66	3.14	5.80
2x12	LF	0.032	3.25	3.27	6.52
Jack rafters					
4-6 pitch (4-in-12 to 6-in-12)					
16" o.c.					
2x6	SF	0.024	1.19	2.40	3.59
2x8	SF	0.024	1.59	2.47	4.06
2x10	SF	0.026	2.00	2.63	4.63
2x12	SF	0.027	2.44	2.72	5.16
24" o.c.					
2x6	SF	0.018	0.80	1.85	2.65
2x8	SF	0.019	1.06	1.90	2.96
2x10	SF	0.020	1.33	1.99	3.32
2x12	SF	0.020	1.62	2.04	3.66
8-12 pitch (8-in-12 to 12-in-12)					
16" o.c.					
2x6	SF	0.025	1.29	2.55	3.84
2x8	SF	0.026	1.72	2.63	4.35
2x10	SF	0.027	2.16	2.72	4.88
2x12	SF	0.028	2.63	2.82	5.45

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	Unit	Man-Hrs	Material	Labor	Total
06110.05 ROOF FRAMING (Cont.)					
8-12 pitch (8-in-12 to 12-in-12)					
24" o.c.					
2x6	SF	0.019	0.86	1.94	2.80
2x8	SF	0.020	1.15	1.99	3.14
2x10	SF	0.020	1.43	2.04	3.47
2x12	SF	0.021	1.75	2.09	3.84
Sister rafters					
2x4	LF	0.057	1.06	5.84	6.90
2x6	LF	0.067	1.59	6.81	8.40
2x8	LF	0.080	2.12	8.18	10.30
2x10	LF	0.100	2.66	10.25	12.91
2x12	LF	0.133	3.25	13.75	17.00
Fascia boards					
2x4	LF	0.040	1.16	4.09	5.25
2x6	LF	0.040	1.76	4.09	5.85
2x8	LF	0.044	2.34	4.54	6.88
2x10	LF	0.044	2.93	4.54	7.47
2x12	LF	0.050	3.52	5.11	8.63
Cant strips					
Fiber					
3x3	LF	0.023	0.84	2.33	3.17
4x4	LF	0.024	1.17	2.47	3.64
Wood					
3x3	LF	0.024	4.36	2.47	6.83
06110.06 SLEEPERS					
SLEEPERS					
Sleepers, over concrete					
12" o.c.					
1x2	SF	0.018	0.47	1.85	2.32
1x3	SF	0.019	0.69	1.94	2.63
2x4	SF	0.022	1.07	2.27	3.34
2x6	SF	0.024	1.59	2.40	3.99
16" o.c.					
1x2	SF	0.016	0.35	1.63	1.98
1x3	SF	0.016	0.51	1.63	2.14
2x4	SF	0.019	0.81	1.94	2.75
2x6	SF	0.020	1.19	2.04	3.23
06110.07 SOFFITS					
SOFFITS					
Soffit framing					
2x3	LF	0.057	0.81	5.84	6.65
2x4	LF	0.062	1.07	6.29	7.36
2x6	LF	0.067	1.59	6.81	8.40
2x8	LF	0.073	2.12	7.43	9.55
06110.08 WALL FRAMING					
WALL FRAMING					
Framing wall, studs					
12" o.c.					
2x3	SF	0.015	0.80	1.51	2.31
2x4	SF	0.015	1.06	1.51	2.57
2x6	SF	0.016	1.59	1.63	3.22
2x8	SF	0.017	2.12	1.70	3.82
16" o.c.					
2x3	SF	0.013	0.60	1.27	1.87
2x4	SF	0.013	0.80	1.27	2.07
2x6	SF	0.013	1.19	1.36	2.55
2x8	SF	0.014	1.59	1.41	3.00
24" o.c.					
2x3	SF	0.011	0.40	1.10	1.50
2x4	SF	0.011	0.53	1.10	1.63
2x6	SF	0.011	0.79	1.16	1.95
2x8	SF	0.012	1.06	1.20	2.26

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	Unit	Man-Hrs	Material	Labor	Total
06110.08 WALL FRAMING (Cont.)					
Framing wall, studs					
Plates, top or bottom					
2x3	LF	0.024	0.80	2.40	3.20
2x4	LF	0.025	1.06	2.55	3.61
2x6	LF	0.027	1.59	2.72	4.31
2x8	LF	0.029	2.12	2.92	5.04
Headers, door or window					
2x6					
Single					
3' long	EA	0.400	4.78	41.00	45.78
6' long	EA	0.500	9.57	51.00	60.57
Double					
3' long	EA	0.444	9.57	45.50	55.07
6' long	EA	0.571	19.25	58.00	77.25
2x8					
Single					
4' long	EA	0.500	8.49	51.00	59.49
8' long	EA	0.615	17.00	63.00	80.00
Double					
4' long	EA	0.571	17.00	58.00	75.00
8' long	EA	0.727	34.00	74.00	108.00
2x10					
Single					
5' long	EA	0.615	13.25	63.00	76.25
10' long	EA	0.800	26.50	82.00	108.50
Double					
5' long	EA	0.667	26.50	68.00	94.50
10' long	EA	0.800	53.00	82.00	135.00
2x12					
Single					
6' long	EA	0.615	19.25	63.00	82.25
12' long	EA	0.800	38.25	82.00	120.25
Double					
6' long	EA	0.727	38.25	74.00	112.25
12' long	EA	0.889	77.00	91.00	168.00
06130.01 HEAVY TIMBER					
HEAVY TIMBER					
Mill framed structures					
Beams to 20' long					
Douglas fir					
6x8	LF	0.080	13.75	10.75	24.50
6x10	LF	0.083	17.00	11.00	28.00
6x12	LF	0.089	20.50	12.00	32.50
6x14	LF	0.092	23.75	12.50	36.25
6x16	LF	0.096	27.25	13.00	40.25
8x10	LF	0.083	22.75	11.00	33.75
8x12	LF	0.089	27.25	12.00	39.25
8x14	LF	0.092	31.75	12.50	44.25
8x16	LF	0.096	36.25	13.00	49.25
Southern yellow pine					
6x8	LF	0.080	10.50	10.75	21.25
6x10	LF	0.083	12.75	11.00	23.75
6x12	LF	0.089	16.50	12.00	28.50
6x14	LF	0.092	18.75	12.50	31.25
6x16	LF	0.096	20.75	13.00	33.75
8x10	LF	0.083	17.50	11.00	28.50
8x12	LF	0.089	21.25	12.00	33.25
8x14	LF	0.092	24.25	12.50	36.75
8x16	LF	0.096	28.00	13.00	41.00
Columns to 12' high					
Douglas fir					
6x6	LF	0.120	10.25	16.00	26.25
8x8	LF	0.120	17.75	16.00	33.75
10x10	LF	0.133	31.00	18.00	49.00

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	Unit	Man-Hrs	Material	Labor	Total
06130.01 HEAVY TIMBER (Cont.)					
Douglas fir					
12x12	LF	0.133	38.25	18.00	56.25
Southern yellow pine					
6x6	LF	0.120	8.25	16.00	24.25
8x8	LF	0.120	13.75	16.00	29.75
10x10	LF	0.133	21.50	18.00	39.50
12x12	LF	0.133	30.00	18.00	48.00
Posts, treated					
4x4	LF	0.032	2.87	3.27	6.14
6x6	LF	0.040	8.33	4.09	12.42
06150.01 WOOD DECKING					
WOOD DECKING					
Decking, T&G solid					
Cedar					
3" thick	SF	0.020	15.25	2.04	17.29
4" thick	SF	0.021	19.00	2.18	21.18
Fir					
3" thick	SF	0.020	6.63	2.04	8.67
4" thick	SF	0.021	8.05	2.18	10.23
Southern yellow pine					
3" thick	SF	0.023	6.63	2.33	8.96
4" thick	SF	0.025	7.01	2.51	9.52
White pine					
3" thick	SF	0.020	8.05	2.04	10.09
4" thick	SF	0.021	11.00	2.18	13.18
Residential decking					
Framing, treated lumber					
12" o.c.					
2x6	SF	0.018	2.20	1.81	4.01
2x8	SF	0.018	2.93	1.85	4.78
2x10	SF	0.019	3.66	1.90	5.56
2x12	SF	0.020	4.40	1.99	6.39
16" o.c.					
2x6	SF	0.015	1.65	1.51	3.16
2x8	SF	0.015	2.20	1.54	3.74
2x10	SF	0.015	2.75	1.57	4.32
2x12	SF	0.016	3.30	1.63	4.93
24" o.c.					
2x6	SF	0.015	1.10	1.54	2.64
2x8	SF	0.016	1.47	1.60	3.07
2x10	SF	0.017	1.83	1.70	3.53
2x12	SF	0.018	2.20	1.81	4.01
Wood Posts, 4x4					
4' high	EA	0.400	11.75	41.00	52.75
6' high	EA	0.533	17.50	55.00	72.50
Wood Decking					
Treated, Southern Yellow Pine					
5/4x6	SF	0.064	4.62	6.54	11.16
2x4	SF	0.080	4.75	8.18	12.93
2x6	SF	0.070	4.62	7.11	11.73
Redwood/Cedar					
1x6	SF	0.064	8.25	6.54	14.79
2x4	SF	0.080	9.90	8.18	18.08
2x6	SF	0.070	9.90	7.11	17.01
Railing, 2x4 rails, 2x2 balusters					
Redwood/cedar	LF	0.160	12.75	16.25	29.00
SYP treated lumber	LF	0.160	7.08	16.25	23.33
For composites see Division 06448					
06160.01 FLOOR SHEATHING					
FLOOR SHEATHING					
Sub-flooring, plywood, CDX					
1/2" thick	SF	0.010	0.82	1.02	1.84
5/8" thick	SF	0.011	0.93	1.16	2.09
3/4" thick	SF	0.013	1.10	1.36	2.46

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	Unit	Man-Hrs	Material	Labor	Total
06160.01 FLOOR SHEATHING (Cont.)					
Sub-flooring					
Structural plywood					
1/2" thick	SF	0.010	1.27	1.02	2.29
5/8" thick	SF	0.011	1.44	1.16	2.60
3/4" thick	SF	0.012	1.70	1.25	2.95
Board type sub-flooring					
1x6					
Minimum	SF	0.018	1.65	1.81	3.46
Maximum	SF	0.020	1.92	2.04	3.96
1x8					
Minimum	SF	0.017	2.20	1.72	3.92
Maximum	SF	0.019	2.58	1.92	4.50
1x10					
Minimum	SF	0.016	2.75	1.63	4.38
Maximum	SF	0.018	3.24	1.81	5.05
Underlayment					
Hardboard, 1/4" tempered	SF	0.010	1.57	1.02	2.59
Plywood, CDX					
3/8" thick	SF	0.010	0.71	1.02	1.73
1/2" thick	SF	0.011	0.82	1.09	1.91
5/8" thick	SF	0.011	0.93	1.16	2.09
3/4" thick	SF	0.012	1.10	1.25	2.35
06160.02 ROOF SHEATHING					
ROOF SHEATHING					
Sheathing					
Plywood, CDX					
3/8" thick	SF	0.010	0.71	1.05	1.76
1/2" thick	SF	0.011	0.82	1.09	1.91
5/8" thick	SF	0.011	0.93	1.16	2.09
3/4" thick	SF	0.012	1.10	1.25	2.35
Structural plywood					
3/8" thick	SF	0.010	0.44	1.05	1.49
1/2" thick	SF	0.011	0.70	1.09	1.79
5/8" thick	SF	0.011	0.88	1.16	2.04
3/4" thick	SF	0.012	1.04	1.25	2.29
06160.03 WALL SHEATHING					
WALL SHEATHING					
Sheathing					
Plywood, CDX					
3/8" thick	SF	0.012	0.71	1.21	1.92
1/2" thick	SF	0.012	0.82	1.25	2.07
5/8" thick	SF	0.013	0.93	1.36	2.29
3/4" thick	SF	0.015	1.10	1.48	2.58
Waferboard					
3/8" thick	SF	0.012	0.44	1.21	1.65
1/2" thick	SF	0.012	0.70	1.25	1.95
5/8" thick	SF	0.013	0.88	1.36	2.24
3/4" thick	SF	0.015	1.04	1.48	2.52
Structural plywood					
3/8" thick	SF	0.012	1.10	1.21	2.31
1/2" thick	SF	0.012	1.27	1.25	2.52
5/8" thick	SF	0.013	1.44	1.36	2.80
3/4" thick	SF	0.015	1.70	1.48	3.18
Gypsum, 1/2" thick	SF	0.012	0.62	1.25	1.87
5/8" thick	SF	0.012	0.94	1.25	2.19
Asphalt impregnated fiberboard, 1/2" thick	SF	0.012	1.07	1.25	2.32
06175.31 WOOD TRUSSES					
WOOD TRUSSES					
Truss, fink, 2x4 members					
3-in-12 slope					
24' span	EA	0.686	220.00	92.00	312.00
26' span	EA	0.686	240.00	92.00	332.00
28' span	EA	0.727	260.00	98.00	358.00

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	Unit	Man-Hrs	Material	Labor	Total
06175.31 WOOD TRUSSES (Cont.)					
3-in-12 slope					
30' span	EA	0.727	260.00	98.00	358.00
34' span	EA	0.774	270.00	100.00	370.00
38' span	EA	0.774	280.00	100.00	380.00
5-in-12 slope					
24' span	EA	0.706	240.00	95.00	335.00
28' span	EA	0.727	250.00	98.00	348.00
30' span	EA	0.750	270.00	100.00	370.00
32' span	EA	0.750	290.00	100.00	390.00
40' span	EA	0.800	390.00	110.00	500.00
Gable, 2x4 members					
5-in-12 slope					
24' span	EA	0.706	270.00	95.00	365.00
26' span	EA	0.706	290.00	95.00	385.00
28' span	EA	0.727	330.00	98.00	428.00
30' span	EA	0.750	350.00	100.00	450.00
32' span	EA	0.750	360.00	100.00	460.00
36' span	EA	0.774	380.00	100.00	480.00
40' span	EA	0.800	410.00	110.00	520.00
King post type, 2x4 members					
4-in-12 slope					
16' span	EA	0.649	160.00	87.00	247.00
18' span	EA	0.667	180.00	90.00	270.00
24' span	EA	0.706	190.00	95.00	285.00
26' span	EA	0.706	210.00	95.00	305.00
30' span	EA	0.750	260.00	100.00	360.00
34' span	EA	0.750	280.00	100.00	380.00
38' span	EA	0.774	330.00	100.00	430.00
42' span	EA	0.828	390.00	110.00	500.00
06202.31 FINISH CARPENTRY					
FINISH CARPENTRY					
Mouldings and trim					
Apron, flat					
9/16 x 2	LF	0.040	1.97	4.09	6.06
9/16 x 3-1/2	LF	0.042	4.55	4.30	8.85
Base					
Colonial					
7/16 x 2-1/4	LF	0.040	2.58	4.09	6.67
7/16 x 3	LF	0.040	3.34	4.09	7.43
7/16 x 3-1/4	LF	0.040	3.42	4.09	7.51
9/16 x 3	LF	0.042	3.34	4.30	7.64
9/16 x 3-1/4	LF	0.042	3.50	4.30	7.80
11/16 x 2-1/4	LF	0.044	3.67	4.54	8.21
Ranch					
7/16 x 2-1/4	LF	0.040	2.83	4.09	6.92
7/16 x 3-1/4	LF	0.040	3.34	4.09	7.43
9/16 x 2-1/4	LF	0.042	3.08	4.30	7.38
9/16 x 3	LF	0.042	3.34	4.30	7.64
9/16 x 3-1/4	LF	0.042	3.42	4.30	7.72
Casing					
11/16 x 2-1/2	LF	0.036	2.66	3.71	6.37
11/16 x 3-1/2	LF	0.038	3.00	3.89	6.89
Chair rail					
9/16 x 2-1/2	LF	0.040	2.83	4.09	6.92
9/16 x 3-1/2	LF	0.040	3.92	4.09	8.01
Closet pole					
1-1/8" dia.	LF	0.053	1.92	5.45	7.37
1-5/8" dia.	LF	0.053	2.83	5.45	8.28
Cove					
9/16 x 1-3/4	LF	0.040	2.17	4.09	6.26
11/16 x 2-3/4	LF	0.040	3.34	4.09	7.43
Crown					
9/16 x 1-5/8	LF	0.053	2.57	5.45	8.02
9/16 x 2-5/8	LF	0.062	2.80	6.29	9.09

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06202.31 FINISH CARPENTRY (Cont.)

	Unit	Man-Hrs	Material	Labor	Total
Crown					
11/16 x 3-5/8	LF	0.067	3.04	6.81	9.85
11/16 x 4-1/4	LF	0.073	4.55	7.43	11.98
11/16 x 5-1/4	LF	0.080	5.08	8.18	13.26
Drip cap					
1-1/16 x 1-5/8	LF	0.040	2.73	4.09	6.82
Glass bead					
3/8 x 3/8	LF	0.050	1.08	5.11	6.19
1/2 x 9/16	LF	0.050	1.33	5.11	6.44
5/8 x 5/8	LF	0.050	1.42	5.11	6.53
3/4 x 3/4	LF	0.050	1.67	5.11	6.78
Half round					
1/2	LF	0.032	1.25	3.27	4.52
5/8	LF	0.032	1.67	3.27	4.94
3/4	LF	0.032	2.26	3.27	5.53
Lattice					
1/4 x 7/8	LF	0.032	0.91	3.27	4.18
1/4 x 1-1/8	LF	0.032	0.98	3.27	4.25
1/4 x 1-3/8	LF	0.032	1.05	3.27	4.32
1/4 x 1-3/4	LF	0.032	1.18	3.27	4.45
1/4 x 2	LF	0.032	1.36	3.27	4.63
Ogee molding					
5/8 x 3/4	LF	0.040	1.36	4.09	5.45
11/16 x 1-1/8	LF	0.040	3.19	4.09	7.28
11/16 x 1-3/8	LF	0.040	2.50	4.09	6.59
Parting bead					
3/8 x 7/8	LF	0.050	1.52	5.11	6.63
Quarter round					
1/4 x 1/4	LF	0.032	0.53	3.27	3.80
3/8 x 3/8	LF	0.032	0.76	3.27	4.03
1/2 x 1/2	LF	0.032	0.98	3.27	4.25
11/16 x 11/16	LF	0.035	0.98	3.55	4.53
3/4 x 3/4	LF	0.035	1.81	3.55	5.36
1-1/16 x 1-1/16	LF	0.036	1.43	3.71	5.14
Railings, balusters					
1-1/8 x 1-1/8	LF	0.080	4.86	8.18	13.04
1-1/2 x 1-1/2	LF	0.073	5.69	7.43	13.12
Screen moldings					
1/4 x 3/4	LF	0.067	1.21	6.81	8.02
5/8 x 5/16	LF	0.067	1.52	6.81	8.33
Shoe					
7/16 x 11/16	LF	0.032	1.51	3.27	4.78
Sash beads					
1/2 x 3/4	LF	0.067	1.74	6.81	8.55
1/2 x 7/8	LF	0.067	1.97	6.81	8.78
1/2 x 1-1/8	LF	0.073	2.12	7.43	9.55
5/8 x 7/8	LF	0.073	2.12	7.43	9.55
Stop					
5/8 x 1-5/8					
Colonial	LF	0.050	1.05	5.11	6.16
Ranch	LF	0.050	1.05	5.11	6.16
Stools					
11/16 x 2-1/4	LF	0.089	4.63	9.08	13.71
11/16 x 2-1/2	LF	0.089	4.86	9.08	13.94
11/16 x 5-1/4	LF	0.100	5.01	10.25	15.26
Exterior trim, casing, select pine, 1x3	LF	0.040	1.65	4.09	5.74
1x4	LF	0.040	2.42	4.09	6.51
1x6	LF	0.044	3.85	4.54	8.39
1x8	LF	0.050	5.39	5.11	10.50
Douglas fir					
1x3	LF	0.040	1.59	4.09	5.68
1x4	LF	0.040	1.96	4.09	6.05
1x6	LF	0.044	2.58	4.54	7.12
1x8	LF	0.050	3.56	5.11	8.67

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	Unit	Man-Hrs	Material	Labor	Total
06202.31 FINISH CARPENTRY (Cont.)					
Exterior trim, casing					
Cellular PVC trim					
1x3	LF	0.040	2.33	4.09	6.42
1x4	LF	0.040	3.43	4.09	7.52
1x6	LF	0.044	4.67	4.54	9.21
1x8	LF	0.050	6.18	5.11	11.29
Cornices, white pine, #2 or better					
1x2	LF	0.040	0.99	4.09	5.08
1x4	LF	0.040	1.21	4.09	5.30
1x6	LF	0.044	1.96	4.54	6.50
1x8	LF	0.047	2.42	4.81	7.23
1x10	LF	0.050	3.11	5.11	8.22
1x12	LF	0.053	3.87	5.45	9.32
Cellular PVC trim					
1x2	LF	0.040	1.71	4.09	5.80
1x4	LF	0.040	3.43	4.09	7.52
1x6	LF	0.044	4.67	4.54	9.21
1x8	LF	0.047	6.18	4.81	10.99
1x10	LF	0.050	7.70	5.11	12.81
1x12	LF	0.053	9.28	5.45	14.73
Cellular PVC 4'x8' sheets, per sheet					
1/2"	EA				140.00
3/4"	EA				160.00
Hardwood trim					
1x2	LF	0.047	2.31	4.81	7.12
1x4	LF	0.047	4.35	4.81	9.16
1x6	LF	0.053	6.53	5.45	11.98
1x8	LF	0.057	8.67	5.84	14.51
1x10	LF	0.062	11.00	6.29	17.29
1x12	LF	0.067	13.25	6.81	20.06
Shelving, pine					
1x8	LF	0.062	2.62	6.29	8.91
1x10	LF	0.064	3.42	6.54	9.96
1x12	LF	0.067	4.33	6.81	11.14
Plywood shelf, 3/4", with edge band, 12" wide	LF	0.080	4.67	8.18	12.85
Adjustable shelf, and rod, 12" wide					
3' to 4' long	EA	0.200	31.00	20.50	51.50
5' to 8' long	EA	0.267	58.00	27.25	85.25
Prefinished wood shelves with brackets and supports					
8" wide					
3' long	EA	0.200	91.00	20.50	111.50
4' long	EA	0.200	100.00	20.50	120.50
6' long	EA	0.200	150.00	20.50	170.50
10" wide					
3' long	EA	0.200	100.00	20.50	120.50
4' long	EA	0.200	150.00	20.50	170.50
6' long	EA	0.200	160.00	20.50	180.50
06220.01 MILLWORK					
MILLWORK					
Countertop, laminated plastic					
25" x 7/8" thick					
Minimum	LF	0.200	19.00	20.50	39.50
Average	LF	0.267	35.50	27.25	62.75
Maximum	LF	0.320	52.00	32.75	84.75
25" x 1-1/4" thick					
Minimum	LF	0.267	22.75	27.25	50.00
Average	LF	0.320	45.50	32.75	78.25
Maximum	LF	0.400	68.00	41.00	109.00
Add for cutouts	EA	0.500		51.00	51.00
Backsplash, 4" high, 7/8" thick	LF	0.160	25.00	16.25	41.25
Plywood, sanded, A-C					
1/4" thick	SF	0.027	1.58	2.72	4.30
3/8" thick	SF	0.029	1.71	2.92	4.63
1/2" thick	SF	0.031	1.94	3.14	5.08

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	Unit	Man-Hrs	Material	Labor	Total
06220.01 MILLWORK (Cont.)					
Plywood, sanded					
A-D					
1/4" thick	SF	0.027	1.50	2.72	4.22
3/8" thick	SF	0.029	1.71	2.92	4.63
1/2" thick	SF	0.031	1.86	3.14	5.00
Base cabinet, 34-1/2" high, 24" deep, hardwood					
Minimum	LF	0.320	360.00	32.75	392.75
Average	LF	0.400	410.00	41.00	451.00
Maximum	LF	0.533	460.00	55.00	515.00
Wall cabinets					
Minimum	LF	0.267	110.00	27.25	137.25
Average	LF	0.320	150.00	32.75	182.75
Maximum	LF	0.400	190.00	41.00	231.00
06260.01 PANEL WORK					
PANEL WORK					
Hardboard, tempered, 1/4" thick					
Natural faced	SF	0.020	1.63	2.04	3.67
Plastic faced	SF	0.023	2.44	2.33	4.77
Pegboard, natural	SF	0.020	2.05	2.04	4.09
Plastic faced	SF	0.023	1.63	2.33	3.96
Untempered, 1/4" thick					
Natural faced	SF	0.020	1.37	2.04	3.41
Plastic faced	SF	0.023	2.37	2.33	4.70
Pegboard, natural	SF	0.020	1.46	2.04	3.50
Plastic faced	SF	0.023	2.10	2.33	4.43
Plywood, unfinished, 1/4" thick					
Birch					
Natural	SF	0.027	1.83	2.72	4.55
Select	SF	0.027	2.69	2.72	5.41
Knotty pine	SF	0.027	3.55	2.72	6.27
Cedar (closet lining)					
Standard boards T&G	SF	0.027	4.41	2.72	7.13
Particle board	SF	0.027	2.69	2.72	5.41
Plywood, prefinished, 1/4" thick, premium grade					
Birch veneer	SF	0.032	5.16	3.27	8.43
Cherry veneer	SF	0.032	6.02	3.27	9.29
Chestnut veneer	SF	0.032	7.23	3.27	10.50
Lauan veneer	SF	0.032	2.23	3.27	5.50
Mahogany veneer	SF	0.032	5.94	3.27	9.21
Oak veneer (red)	SF	0.032	5.94	3.27	9.21
Pecan veneer	SF	0.032	7.49	3.27	10.76
Rosewood veneer	SF	0.032	5.03	3.27	8.30
Teak veneer	SF	0.032	7.67	3.27	10.94
Walnut veneer	SF	0.032	6.63	3.27	9.90
06431.31 STAIRWORK					
STAIRWORK					
Risers, 1x8, 42" wide					
White oak	EA	0.400	46.50	41.00	87.50
Pine	EA	0.400	41.25	41.00	82.25
Treads, 1-1/16" x 9-1/2" x 42"					
White oak	EA	0.500	56.00	51.00	107.00
06440.01 COLUMNS					
COLUMNS					
Column, hollow, round wood					
12" diameter					
10' high	EA	0.800	1,380.00	120.00	1,500.00
12' high	EA	0.857	1,690.00	130.00	1,820.00
14' high	EA	0.960	2,030.00	140.00	2,170.00
16' high	EA	1.200	2,510.00	180.00	2,690.00
24" diameter					
16' high	EA	1.200	5,740.00	180.00	5,920.00
18' high	EA	1.263	6,530.00	180.00	6,710.00
20' high	EA	1.263	8,020.00	180.00	8,200.00

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	Unit	Man-Hrs	Material	Labor	Total
06440.01 COLUMNS (Cont.)					
24" diameter					
22' high	EA	1.333	8,450.00	200.00	8,650.00
24' high	EA	1.333	9,220.00	200.00	9,420.00
06448.01 COMPOSITE RESIDENTIAL DECKS					
COMPOSITE RESIDENTIAL DECKS					
Composite Decking					
1x6 board					
Minimum	SF	0.067	5.50	6.81	12.31
Average	SF	0.080	6.60	8.18	14.78
Maximum	SF	0.100	8.25	10.25	18.50
Post					
4x4	EA	0.400	49.50	41.00	90.50
6x6	EA	0.533	83.00	55.00	138.00
Post fixtures					
Shoe	EA	0.080	5.22	8.18	13.40
Cap	EA	0.080	7.70	8.18	15.88
Railing, including rails and balusters					
Minimum	LF	0.133	44.00	13.75	57.75
Average	LF	0.160	55.00	16.25	71.25
Maximum	LF	0.200	66.00	20.50	86.50

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	Unit	Man-Hrs	Material	Labor	Total
07110.01 DAMPPROOFING					
DAMPPROOFING					
Silicone dampproofing, sprayed on					
Concrete surface					
1 coat	SF	0.004	0.68	0.35	1.03
2 coats	SF	0.006	1.12	0.49	1.61
Concrete block					
1 coat	SF	0.005	0.68	0.42	1.10
2 coats	SF	0.007	1.12	0.58	1.70
Brick					
1 coat	SF	0.006	0.78	0.49	1.27
2 coats	SF	0.008	1.21	0.64	1.85
07111.31 BITUMINOUS DAMPPROOFING					
BITUMINOUS DAMPPROOFING					
Building paper, asphalt felt					
15 lb	SF	0.032	0.22	2.56	2.78
30 lb	SF	0.033	0.40	2.66	3.06
Asphalt, troweled, cold, primer plus					
1 coat	SF	0.027	0.74	2.13	2.87
2 coats	SF	0.040	1.57	3.20	4.77
3 coats	SF	0.050	2.25	4.00	6.25
Fibrous asphalt, hot troweled, primer plus					
1 coat	SF	0.032	0.74	2.56	3.30
2 coats	SF	0.044	1.57	3.55	5.12
3 coats	SF	0.057	2.25	4.57	6.82
Asphaltic paint dampproofing, per coat					
Brush on	SF	0.011	0.38	0.91	1.29
Spray on	SF	0.009	0.55	0.71	1.26
07111.61 PARGING / MASONRY PLASTER					
PARGING / MASONRY PLASTER					
Parging					
1/2" thick	SF	0.053	0.29	5.20	5.49
3/4" thick	SF	0.067	0.37	6.50	6.87
1" thick	SF	0.080	0.50	7.80	8.30
07130.01 WATERPROOFING					
WATERPROOFING					
Membrane waterproofing, elastomeric					
Butyl					
1/32" thick	SF	0.032	2.01	2.56	4.57
1/16" thick	SF	0.033	2.61	2.66	5.27
Neoprene					
1/32" thick	SF	0.032	3.30	2.56	5.86
1/16" thick	SF	0.033	4.73	2.66	7.39
Plastic vapor barrier (polyethylene)					
4 mil	SF	0.003	0.05	0.25	0.30
6 mil	SF	0.003	0.08	0.25	0.33
10 mil	SF	0.004	0.13	0.32	0.45
Bituminous membrane, asphalt felt, 15 lb.					
One ply	SF	0.020	0.91	1.60	2.51
Two ply	SF	0.024	1.07	1.94	3.01
Three ply	SF	0.029	1.34	2.28	3.62
Bentonite waterproofing, panels					
3/16" thick	SF	0.020	2.25	1.60	3.85
1/4" thick	SF	0.020	2.56	1.60	4.16
07211.31 BOARD INSULATION					
BOARD INSULATION					
Perlite board, roof					
1.00" thick, R2.78	SF	0.007	0.67	0.53	1.20
1.50" thick, R4.17	SF	0.007	1.04	0.55	1.59
Rigid urethane					
1" thick, R6.67	SF	0.007	1.15	0.53	1.68
1.50" thick, R11.11	SF	0.007	1.56	0.55	2.11

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	Unit	Man-Hrs	Material	Labor	Total
07211.31 BOARD INSULATION (Cont.)					
Polystyrene					
1.0" thick, R4.17	SF	0.007	0.77	0.53	1.30
1.5" thick, R6.26	SF	0.007	1.17	0.55	1.72
07211.61 BATT INSULATION					
BATT INSULATION					
Ceiling, fiberglass, unfaced					
3-1/2" thick, R11	SF	0.009	0.45	0.75	1.20
6" thick, R19	SF	0.011	0.59	0.85	1.44
9" thick, R30	SF	0.012	1.15	0.98	2.13
Suspended ceiling, unfaced					
3-1/2" thick, R11	SF	0.009	0.49	0.71	1.20
6" thick, R19	SF	0.010	0.65	0.80	1.45
9" thick, R30	SF	0.011	1.27	0.91	2.18
Crawl space, unfaced					
3-1/2" thick, R11	SF	0.012	0.49	0.98	1.47
6" thick, R19	SF	0.013	0.65	1.06	1.71
9" thick, R30	SF	0.015	1.27	1.16	2.43
Wall, fiberglass					
Paper backed					
2" thick, R7	SF	0.008	0.36	0.67	1.03
3" thick, R11	SF	0.009	0.40	0.71	1.11
4" thick, R13	SF	0.009	0.65	0.75	1.40
6" thick, R19	SF	0.010	0.97	0.80	1.77
9" thick, R30	SF	0.010	1.76	0.80	2.56
12" thick, R38	SF	0.010	2.20	0.80	3.00
Foil backed, 1 side					
2" thick, R8	SF	0.008	0.70	0.67	1.37
3" thick, R11	SF	0.009	0.75	0.71	1.46
4" thick, R13	SF	0.009	0.78	0.75	1.53
6" thick, R19	SF	0.010	1.03	0.80	1.83
9" thick, R30	SF	0.010	1.96	0.80	2.76
12" thick, R38	SF	0.010	2.31	0.80	3.11
FSK backed 2 sides					
2" thick, R8	SF	0.009	0.80	0.75	1.55
3" thick, R11	SF	0.010	1.01	0.80	1.81
4" thick, R13	SF	0.011	1.20	0.85	2.05
6" thick, R19	SF	0.011	1.29	0.91	2.20
9" thick, R30	SF	0.010	2.58	0.80	3.38
12" thick, R38	SF	0.010	3.30	0.80	4.10
Unfaced					
2" thick, R8	SF	0.008	0.44	0.67	1.11
3" thick, R11	SF	0.009	0.50	0.71	1.21
4" thick, R13	SF	0.009	0.54	0.75	1.29
6" thick, R19	SF	0.010	0.70	0.80	1.50
9" thick, R30	SF	0.010	1.32	0.80	2.12
12" thick, R38	SF	0.010	1.96	0.80	2.76
Mineral wool batts					
Paper backed					
2" thick, R6	SF	0.008	0.48	0.67	1.15
4" thick, R12	SF	0.009	1.09	0.71	1.80
6" thick, R19	SF	0.010	1.36	0.80	2.16
Unfaced					
1" thick, R3	SF	0.008	0.27	0.67	0.94
1-1/2" thick, R4	SF	0.009	0.38	0.73	1.11
2" thick, R6	SF	0.009	0.48	0.75	1.23
2-1/2" thick, R7	SF	0.009	0.61	0.75	1.36
3" thick, R9	SF	0.010	0.75	0.77	1.52
3-1/2" thick, R11	SF	0.010	0.92	0.77	1.69
4" thick, R12	SF	0.010	1.08	0.80	1.88
6" thick, R19	SF	0.011	1.36	0.85	2.21
Rigid Safing, flame resistant, unfaced					
1" thick, R4	SF	0.009	1.29	0.75	2.04
2" thick, R8	SF	0.010	1.36	0.80	2.16
4" thick, R16	SF	0.011	1.76	0.85	2.61

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	Unit	Man-Hrs	Material	Labor	Total
07211.61 BATT INSULATION (Cont.)					
Fasteners, self adhering, attached to ceiling deck					
2-1/2" long	EA	0.013	0.27	1.06	1.33
4-1/2" long	EA	0.015	0.30	1.16	1.46
Capped, self-locking washers	EA	0.008	0.27	0.64	0.91
07212.31 LOOSE FILL INSULATION					
LOOSE FILL INSULATION					
Blown-in type					
Fiberglass					
5" thick, R11	SF	0.007	0.41	0.53	0.94
6" thick, R13	SF	0.008	0.48	0.64	1.12
9" thick, R19	SF	0.011	0.58	0.91	1.49
Rockwool, attic application					
6" thick, R13	SF	0.008	0.38	0.64	1.02
8" thick, R19	SF	0.010	0.45	0.80	1.25
10" thick, R22	SF	0.012	0.53	0.98	1.51
12" thick, R26	SF	0.013	0.68	1.06	1.74
15" thick, R30	SF	0.016	0.82	1.28	2.10
Poured type					
Fiberglass					
1" thick, R4	SF	0.005	0.45	0.40	0.85
2" thick, R8	SF	0.006	0.84	0.45	1.29
3" thick, R12	SF	0.007	1.24	0.53	1.77
4" thick, R16	SF	0.008	1.63	0.64	2.27
Mineral wool					
1" thick, R3	SF	0.005	0.55	0.40	0.95
2" thick, R6	SF	0.006	1.01	0.45	1.46
3" thick, R9	SF	0.007	1.54	0.53	2.07
4" thick, R12	SF	0.008	1.80	0.64	2.44
Vermiculite or perlite					
2" thick, R4.8	SF	0.006	0.98	0.45	1.43
3" thick, R7.2	SF	0.007	1.39	0.53	1.92
4" thick, R9.6	SF	0.008	1.81	0.64	2.45
Masonry, poured vermiculite or perlite					
4" block	SF	0.004	0.59	0.32	0.91
6" block	SF	0.005	0.90	0.40	1.30
8" block	SF	0.006	1.31	0.45	1.76
10" block	SF	0.006	1.73	0.49	2.22
12" block	SF	0.007	2.16	0.53	2.69
07212.91 SPRAYED INSULATION					
SPRAYED INSULATION					
Foam, sprayed on					
Polystyrene					
1" thick, R4	SF	0.008	0.91	0.64	1.55
2" thick, R8	SF	0.011	1.78	0.85	2.63
Urethane					
1" thick, R4	SF	0.008	0.78	0.64	1.42
2" thick, R8	SF	0.011	1.50	0.85	2.35
07260.01 VAPOR BARRIERS					
VAPOR BARRIERS					
Vapor barrier, polyethylene					
2 mil	SF	0.004	0.02	0.32	0.34
6 mil	SF	0.004	0.08	0.32	0.40
8 mil	SF	0.004	0.09	0.35	0.44
10 mil	SF	0.004	0.11	0.35	0.46
07311.31 ASPHALT SHINGLES					
ASPHALT SHINGLES					
Standard asphalt shingles, strip shingles					
210 lb/square	SQ	0.800	130.00	78.00	208.00
235 lb/square	SQ	0.889	140.00	87.00	227.00
240 lb/square	SQ	1.000	140.00	98.00	238.00
260 lb/square	SQ	1.143	200.00	110.00	310.00
300 lb/square	SQ	1.333	220.00	130.00	350.00
385 lb/square	SQ	1.600	310.00	160.00	470.00

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	Unit	Man-Hrs	Material	Labor	Total
07311.31 ASPHALT SHINGLES (Cont.)					
Roll roofing, mineral surface					
90 lb	SQ	0.571	58.00	56.00	114.00
110 lb	SQ	0.667	96.00	65.00	161.00
140 lb	SQ	0.800	99.00	78.00	177.00
Roofing, accessories					
8" Starter strip (roll)	LF	0.020	1.15	1.95	3.10
Starter shingle	LF	0.023	0.55	2.23	2.78
Ice & water shield	SF	0.027	0.99	2.60	3.59
07311.61 METAL SHINGLES					
METAL SHINGLES					
Aluminum, .020" thick					
Plain	SQ	1.600	290.00	160.00	450.00
Colors	SQ	1.600	320.00	160.00	480.00
Steel, galvanized					
26 ga.					
Plain	SQ	1.600	360.00	160.00	520.00
Colors	SQ	1.600	460.00	160.00	620.00
24 ga.					
Plain	SQ	1.600	420.00	160.00	580.00
Colors	SQ	1.600	530.00	160.00	690.00
Porcelain enamel, 22 ga.					
Minimum	SQ	2.000	870.00	200.00	1,070.00
Average	SQ	2.000	1,000.00	200.00	1,200.00
Maximum	SQ	2.000	1,120.00	200.00	1,320.00
07312.61 SLATE SHINGLES					
SLATE SHINGLES					
Slate shingles					
Pennsylvania					
Ribbon	SQ	4.000	600.00	390.00	990.00
Clear	SQ	4.000	770.00	390.00	1,160.00
Vermont					
Black	SQ	4.000	710.00	390.00	1,100.00
Gray	SQ	4.000	780.00	390.00	1,170.00
Green	SQ	4.000	800.00	390.00	1,190.00
Red	SQ	4.000	1,440.00	390.00	1,830.00
07312.91 WOOD SHINGLES					
WOOD SHINGLES					
Wood shingles, on roofs					
White cedar, #1 shingles					
4" exposure	SQ	2.667	270.00	260.00	530.00
5" exposure	SQ	2.000	240.00	200.00	440.00
#2 shingles					
4" exposure	SQ	2.667	190.00	260.00	450.00
5" exposure	SQ	2.000	160.00	200.00	360.00
Resquared and rebutted					
4" exposure	SQ	2.667	240.00	260.00	500.00
5" exposure	SQ	2.000	200.00	200.00	400.00
On walls					
White cedar, #1 shingles					
4" exposure	SQ	4.000	270.00	390.00	660.00
5" exposure	SQ	3.200	240.00	310.00	550.00
6" exposure	SQ	2.667	200.00	260.00	460.00
#2 shingles					
4" exposure	SQ	4.000	190.00	390.00	580.00
5" exposure	SQ	3.200	160.00	310.00	470.00
6" exposure	SQ	2.667	130.00	260.00	390.00
Add for fire retarding	SQ				120.00
07312.92 WOOD SHAKES					
WOOD SHAKES					
Shakes, hand split, 24" red cedar, on roofs					
5" exposure	SQ	4.000	800.00	390.00	1,190.00
7" exposure	SQ	3.200	750.00	310.00	1,060.00
9" exposure	SQ	2.667	680.00	260.00	940.00

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	Unit	Man-Hrs	Material	Labor	Total
07312.92 WOOD SHAKES (Cont.)					
Shakes, hand split, 24" red cedar, on roofs					
On walls					
6" exposure	SQ	4.000	750.00	390.00	1,140.00
8" exposure	SQ	3.200	710.00	310.00	1,020.00
10" exposure	SQ	2.667	680.00	260.00	940.00
Add for fire retarding	SQ				120.00
07420.05 METAL SIDING PANELS					
METAL SIDING PANELS					
Aluminum siding panels					
Corrugated					
Plain finish					
.024"	SF	0.032	2.23	3.31	5.54
.032"	SF	0.032	2.62	3.31	5.93
Painted finish					
.024"	SF	0.032	2.78	3.31	6.09
.032"	SF	0.032	3.19	3.31	6.50
Steel siding panels					
Corrugated					
22 ga.	SF	0.053	2.73	5.52	8.25
24 ga.	SF	0.053	2.49	5.52	8.01
Ribbed, sheets, galvanized					
22 ga.	SF	0.032	3.42	3.31	6.73
24 ga.	SF	0.032	3.01	3.31	6.32
Primed					
24 ga.	SF	0.032	3.01	3.31	6.32
26 ga.	SF	0.032	2.46	3.31	5.77
07462.31 WOOD SIDING					
WOOD SIDING					
Beveled siding, cedar					
A grade					
1/2 x 8	SF	0.032	5.00	3.27	8.27
3/4 x 10	SF	0.027	6.43	2.72	9.15
Clear					
1/2 x 6	SF	0.040	5.44	4.09	9.53
1/2 x 8	SF	0.032	5.56	3.27	8.83
3/4 x 10	SF	0.027	7.45	2.72	10.17
B grade					
1/2 x 6	SF	0.040	5.26	4.09	9.35
1/2 x 8	SF	0.032	5.94	3.27	9.21
3/4 x 10	SF	0.027	5.60	2.72	8.32
Board and batten					
Cedar					
1x6	SF	0.040	6.84	4.09	10.93
1x8	SF	0.032	6.22	3.27	9.49
1x10	SF	0.029	5.62	2.92	8.54
1x12	SF	0.026	5.04	2.63	7.67
Pine					
1x6	SF	0.040	2.25	4.09	6.34
1x8	SF	0.032	2.20	3.27	5.47
1x10	SF	0.029	2.11	2.92	5.03
1x12	SF	0.026	1.94	2.63	4.57
Redwood					
1x6	SF	0.040	7.44	4.09	11.53
1x8	SF	0.032	6.93	3.27	10.20
1x10	SF	0.029	6.43	2.92	9.35
1x12	SF	0.026	5.93	2.63	8.56
Tongue and groove					
Cedar					
1x4	SF	0.044	7.39	4.54	11.93
1x6	SF	0.042	7.11	4.30	11.41
1x8	SF	0.040	6.67	4.09	10.76
1x10	SF	0.038	6.55	3.89	10.44

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	Unit	Man-Hrs	Material	Labor	Total
07462.31 WOOD SIDING (Cont.)					
Tongue and groove					
Pine					
1x4	SF	0.044	2.44	4.54	6.98
1x6	SF	0.042	2.31	4.30	6.61
1x8	SF	0.040	2.16	4.09	6.25
1x10	SF	0.038	2.05	3.89	5.94
Redwood					
1x4	SF	0.044	6.80	4.54	11.34
1x6	SF	0.042	6.55	4.30	10.85
1x8	SF	0.040	6.33	4.09	10.42
1x10	SF	0.038	6.04	3.89	9.93
07462.91 PLYWOOD SIDING					
PLYWOOD SIDING					
Rough sawn cedar, 3/8" thick	SF	0.027	2.16	2.72	4.88
Fir, 3/8" thick	SF	0.027	1.19	2.72	3.91
Texture 1-11, 5/8" thick					
Cedar	SF	0.029	2.92	2.92	5.84
Fir	SF	0.029	2.04	2.92	4.96
Redwood	SF	0.029	3.14	2.79	5.93
Southern Yellow Pine	SF	0.029	1.66	2.92	4.58
07463.31 PLASTIC SIDING					
PLASTIC SIDING					
Horizontal vinyl siding, solid					
8" wide					
Standard	SF	0.031	1.76	3.14	4.90
Insulated	SF	0.031	2.13	3.14	5.27
10" wide					
Standard	SF	0.029	1.82	2.92	4.74
Insulated	SF	0.029	2.18	2.92	5.10
Vinyl moldings for doors and windows	LF	0.032	0.87	3.27	4.14
07511.31 BUILT-UP ASPHALT ROOFING					
BUILT-UP ASPHALT ROOFING					
Built-up roofing, asphalt felt, including gravel					
2 ply	SQ	2.000	120.00	200.00	320.00
3 ply	SQ	2.667	160.00	260.00	420.00
4 ply	SQ	3.200	230.00	310.00	540.00
Cant strip, 4" x 4"					
Treated wood	LF	0.023	3.38	2.23	5.61
Foamglass	LF	0.020	2.90	1.95	4.85
New gravel for built-up roofing, 400 lb/sq	SQ	1.600	59.00	160.00	219.00
07530.01 SINGLE-PLY ROOFING					
SINGLE-PLY ROOFING					
Elastic sheet roofing					
Neoprene, 1/16" thick	SF	0.010	2.83	0.97	3.80
PVC					
45 mil	SF	0.010	2.34	0.97	3.31
Flashing					
Pipe flashing, 90 mil thick					
1" pipe	EA	0.200	34.00	19.50	53.50
Neoprene flashing, 60 mil thick strip					
6" wide	LF	0.067	2.06	6.51	8.57
12" wide	LF	0.100	4.06	9.76	13.82
07610.01 METAL ROOFING					
METAL ROOFING					
Sheet metal roofing, copper, 16 oz, batten seam	SQ	5.333	1,800.00	520.00	2,320.00
Standing seam	SQ	5.000	1,760.00	490.00	2,250.00
Aluminum roofing, natural finish					
Corrugated, on steel frame					
.0175" thick	SQ	2.286	140.00	220.00	360.00
.0215" thick	SQ	2.286	180.00	220.00	400.00
.024" thick	SQ	2.286	210.00	220.00	430.00
.032" thick	SQ	2.286	260.00	220.00	480.00

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	Unit	Man-Hrs	Material	Labor	Total
07610.01 METAL ROOFING (Cont.)					
Aluminum roofing, natural finish					
V-beam, on steel frame					
.032" thick	SQ	2.286	270.00	220.00	490.00
.040" thick	SQ	2.286	290.00	220.00	510.00
.050" thick	SQ	2.286	370.00	220.00	590.00
Ridge cap					
.019" thick	LF	0.027	4.24	2.60	6.84
Corrugated galvanized steel roofing, on steel frame					
28 ga.	SQ	2.286	230.00	220.00	450.00
26 ga.	SQ	2.286	270.00	220.00	490.00
24 ga.	SQ	2.286	300.00	220.00	520.00
22 ga.	SQ	2.286	330.00	220.00	550.00
26 ga., factory insulated with 1" polystyrene	SQ	3.200	510.00	310.00	820.00
Ridge roll					
10" wide	LF	0.027	2.31	2.60	4.91
20" wide	LF	0.032	4.70	3.12	7.82
07620.01 FLASHING AND TRIM					
FLASHING AND TRIM					
Counter flashing					
Aluminum, .032"	SF	0.080	2.51	7.81	10.32
Stainless steel, .015"	SF	0.080	8.03	7.81	15.84
Copper					
16 oz.	SF	0.080	7.48	7.81	15.29
20 oz.	SF	0.080	8.89	7.81	16.70
24 oz.	SF	0.080	10.75	7.81	18.56
32 oz.	SF	0.080	13.25	7.81	21.06
Valley flashing					
Aluminum, .032"	SF	0.050	1.74	4.88	6.62
Stainless steel, .015	SF	0.050	5.56	4.88	10.44
Copper					
16 oz.	SF	0.050	7.48	4.88	12.36
20 oz.	SF	0.067	8.89	6.51	15.40
24 oz.	SF	0.050	10.75	4.88	15.63
32 oz.	SF	0.050	13.25	4.88	18.13
Base flashing					
Aluminum, .040"	SF	0.067	2.60	6.51	9.11
Stainless steel, .018"	SF	0.067	6.65	6.51	13.16
Copper					
16 oz.	SF	0.067	15.00	6.51	21.51
20 oz.	SF	0.050	17.75	4.88	22.63
24 oz.	SF	0.067	21.50	6.51	28.01
32 oz.	SF	0.067	26.50	6.51	33.01
Flashing and trim, aluminum					
.019" thick	SF	0.057	2.25	5.58	7.83
.032" thick	SF	0.057	2.75	5.58	8.33
.040" thick	SF	0.062	4.71	6.00	10.71
Neoprene sheet flashing, .060" thick	SF	0.050	3.75	4.88	8.63
Copper, paper backed					
2 oz.	SF	0.080	4.81	7.81	12.62
5 oz.	SF	0.080	6.21	7.81	14.02
07712.31 GUTTERS AND DOWNSPOUTS					
GUTTERS AND DOWNSPOUTS					
Copper gutter and downspout					
Downspouts, 16 oz. copper					
Round					
3" dia.	LF	0.053	15.50	5.20	20.70
4" dia.	LF	0.053	19.50	5.20	24.70
Rectangular, corrugated					
2" x 3"	LF	0.050	15.00	4.88	19.88
3" x 4"	LF	0.050	18.50	4.88	23.38
Rectangular, flat surface					
2" x 3"	LF	0.053	17.25	5.20	22.45
3" x 4"	LF	0.053	24.50	5.20	29.70

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	Unit	Man-Hrs	Material	Labor	Total
07712.31 GUTTERS AND DOWNSPOUTS (Cont.)					
Copper gutter and downspout					
Lead-coated copper downspouts					
Round					
3" dia.	LF	0.050	24.50	4.88	29.38
4" dia.	LF	0.057	29.50	5.58	35.08
Rectangular, corrugated					
2" x 3"	LF	0.053	20.50	5.20	25.70
3" x 4"	LF	0.053	24.50	5.20	29.70
Rectangular, plain					
2" x 3"	LF	0.053	14.25	5.20	19.45
3" x 4"	LF	0.053	16.50	5.20	21.70
Gutters, 16 oz. copper					
Half round					
4" wide	LF	0.080	14.00	7.81	21.81
5" wide	LF	0.089	17.00	8.68	25.68
Type K					
4" wide	LF	0.080	15.50	7.81	23.31
5" wide	LF	0.089	16.25	8.68	24.93
Lead-coated copper gutters					
Half round					
4" wide	LF	0.080	17.00	7.81	24.81
6" wide	LF	0.089	23.25	8.68	31.93
Type K					
4" wide	LF	0.080	18.50	7.81	26.31
5" wide	LF	0.089	24.00	8.68	32.68
Aluminum gutter and downspout					
Downspouts					
2" x 3"	LF	0.053	2.19	5.20	7.39
3" x 4"	LF	0.057	3.02	5.58	8.60
4" x 5"	LF	0.062	3.48	6.00	9.48
Round					
3" dia.	LF	0.053	3.51	5.20	8.71
4" dia.	LF	0.057	4.50	5.58	10.08
Gutters, stock units					
4" wide	LF	0.084	2.60	8.22	10.82
5" wide	LF	0.089	3.09	8.68	11.77
Galvanized steel gutter and downspout					
Downspouts, round corrugated					
3" dia.	LF	0.053	2.87	5.20	8.07
4" dia.	LF	0.053	3.85	5.20	9.05
5" dia.	LF	0.057	5.74	5.58	11.32
6" dia.	LF	0.057	7.62	5.58	13.20
Rectangular					
2" x 3"	LF	0.053	2.60	5.20	7.80
3" x 4"	LF	0.050	3.72	4.88	8.60
4" x 4"	LF	0.050	4.65	4.88	9.53
Gutters, stock units					
5" wide					
Plain	LF	0.089	2.51	8.68	11.19
Painted	LF	0.089	2.72	8.68	11.40
6" wide					
Plain	LF	0.094	3.50	9.19	12.69
Painted	LF	0.094	3.93	9.19	13.12
07920.01 CAULKING					
CAULKING					
Caulk exterior, two component					
1/4 x 1/2	LF	0.040	0.43	4.09	4.52
3/8 x 1/2	LF	0.044	0.66	4.54	5.20
1/2 x 1/2	LF	0.050	0.90	5.11	6.01
Caulk interior, single component					
1/4 x 1/2	LF	0.038	0.29	3.89	4.18
3/8 x 1/2	LF	0.042	0.41	4.30	4.71
1/2 x 1/2	LF	0.047	0.54	4.81	5.35

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	Unit	Man-Hrs	Material	Labor	Total
08111.31 METAL DOORS					
METAL DOORS					
Flush hollow metal, std. duty, 20 ga., 1-3/8" thick					
2-6 x 6-8	EA	0.889	570.00	91.00	661.00
2-8 x 6-8	EA	0.889	600.00	91.00	691.00
3-0 x 6-8	EA	0.889	640.00	91.00	731.00
1-3/4" thick					
2-6 x 6-8	EA	0.889	580.00	91.00	671.00
2-8 x 6-8	EA	0.889	710.00	91.00	801.00
3-0 x 6-8	EA	0.889	660.00	91.00	751.00
2-6 x 7-0	EA	0.889	640.00	91.00	731.00
2-8 x 7-0	EA	0.889	660.00	91.00	751.00
3-0 x 7-0	EA	0.889	700.00	91.00	791.00
Heavy duty, 20 ga., unrated, 1-3/4"					
2-8 x 6-8	EA	0.889	640.00	91.00	731.00
3-0 x 6-8	EA	0.889	680.00	91.00	771.00
2-8 x 7-0	EA	0.889	720.00	91.00	811.00
3-0 x 7-0	EA	0.889	700.00	91.00	791.00
3-4 x 7-0	EA	0.889	720.00	91.00	811.00
18 ga., 1-3/4", unrated door					
2-0 x 7-0	EA	0.889	670.00	91.00	761.00
2-4 x 7-0	EA	0.889	670.00	91.00	761.00
2-6 x 7-0	EA	0.889	670.00	91.00	761.00
2-8 x 7-0	EA	0.889	740.00	91.00	831.00
3-0 x 7-0	EA	0.889	680.00	91.00	771.00
3-4 x 7-0	EA	0.889	840.00	91.00	931.00
2", unrated door					
2-0 x 7-0	EA	1.000	740.00	100.00	840.00
2-4 x 7-0	EA	1.000	740.00	100.00	840.00
2-6 x 7-0	EA	1.000	740.00	100.00	840.00
2-8 x 7-0	EA	1.000	810.00	100.00	910.00
3-0 x 7-0	EA	1.000	840.00	100.00	940.00
3-4 x 7-0	EA	1.000	860.00	100.00	960.00
08111.34 METAL DOOR FRAMES					
METAL DOOR FRAMES					
Hollow metal, stock, 18 ga., 4-3/4" x 1-3/4"					
2-0 x 7-0	EA	1.000	160.00	100.00	260.00
2-4 x 7-0	EA	1.000	180.00	100.00	280.00
2-6 x 7-0	EA	1.000	180.00	100.00	280.00
2-8 x 7-0	EA	1.000	180.00	100.00	280.00
3-0 x 7-0	EA	1.000	180.00	100.00	280.00
4-0 x 7-0	EA	1.333	200.00	140.00	340.00
5-0 x 7-0	EA	1.333	210.00	140.00	350.00
6-0 x 7-0	EA	1.333	250.00	140.00	390.00
16 ga., 6-3/4" x 1-3/4"					
2-0 x 7-0	EA	1.000	180.00	100.00	280.00
2-4 x 7-0	EA	1.000	170.00	100.00	270.00
2-6 x 7-0	EA	1.000	170.00	100.00	270.00
2-8 x 7-0	EA	1.000	180.00	100.00	280.00
3-0 x 7-0	EA	1.000	190.00	100.00	290.00
4-0 x 7-0	EA	1.333	220.00	140.00	360.00
6-0 x 7-0	EA	1.333	260.00	140.00	400.00
08140.01 WOOD DOORS					
WOOD DOORS					
Solid core, 1-3/8" thick					
Birch faced					
2-4 x 7-0	EA	1.000	190.00	100.00	290.00
2-8 x 7-0	EA	1.000	200.00	100.00	300.00
3-0 x 7-0	EA	1.000	200.00	100.00	300.00
3-4 x 7-0	EA	1.000	400.00	100.00	500.00
2-4 x 6-8	EA	1.000	190.00	100.00	290.00
2-6 x 6-8	EA	1.000	190.00	100.00	290.00
2-8 x 6-8	EA	1.000	200.00	100.00	300.00
3-0 x 6-8	EA	1.000	200.00	100.00	300.00

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	Unit	Man-Hrs	Material	Labor	Total
08140.01 WOOD DOORS (Cont.)					
Solid core, 1-3/8" thick					
Lauan faced					
2-4 x 6-8	EA	1.000	160.00	100.00	260.00
2-8 x 6-8	EA	1.000	170.00	100.00	270.00
3-0 x 6-8	EA	1.000	180.00	100.00	280.00
3-4 x 6-8	EA	1.000	290.00	100.00	390.00
Tempered hardboard faced					
2-4 x 7-0	EA	1.000	200.00	100.00	300.00
2-8 x 7-0	EA	1.000	210.00	100.00	310.00
3-0 x 7-0	EA	1.000	240.00	100.00	340.00
3-4 x 7-0	EA	1.000	250.00	100.00	350.00
Hollow core, 1-3/8" thick					
Birch faced					
2-4 x 7-0	EA	1.000	160.00	100.00	260.00
2-8 x 7-0	EA	1.000	160.00	100.00	260.00
3-0 x 7-0	EA	1.000	170.00	100.00	270.00
3-4 x 7-0	EA	1.000	180.00	100.00	280.00
Lauan faced					
2-4 x 6-8	EA	1.000	81.00	100.00	181.00
2-6 x 6-8	EA	1.000	88.00	100.00	188.00
2-8 x 6-8	EA	1.000	110.00	100.00	210.00
3-0 x 6-8	EA	1.000	110.00	100.00	210.00
3-4 x 6-8	EA	1.000	130.00	100.00	230.00
Tempered hardboard faced					
2-4 x 7-0	EA	1.000	83.00	100.00	183.00
2-6 x 7-0	EA	1.000	89.00	100.00	189.00
2-8 x 7-0	EA	1.000	98.00	100.00	198.00
3-0 x 7-0	EA	1.000	100.00	100.00	200.00
3-4 x 7-0	EA	1.000	110.00	100.00	210.00
Solid core, 1-3/4" thick					
Birch faced					
2-4 x 7-0	EA	1.000	270.00	100.00	370.00
2-6 x 7-0	EA	1.000	270.00	100.00	370.00
2-8 x 7-0	EA	1.000	290.00	100.00	390.00
3-0 x 7-0	EA	1.000	270.00	100.00	370.00
3-4 x 7-0	EA	1.000	270.00	100.00	370.00
Lauan faced					
2-4 x 7-0	EA	1.000	190.00	100.00	290.00
2-6 x 7-0	EA	1.000	210.00	100.00	310.00
2-8 x 7-0	EA	1.000	230.00	100.00	330.00
3-0 x 7-0	EA	1.000	240.00	100.00	340.00
3-4 x 7-0	EA	1.000	250.00	100.00	350.00
Tempered hardboard faced					
2-4 x 7-0	EA	1.000	200.00	100.00	300.00
2-6 x 7-0	EA	1.000	220.00	100.00	320.00
2-8 x 7-0	EA	1.000	240.00	100.00	340.00
3-0 x 7-0	EA	1.000	250.00	100.00	350.00
3-4 x 7-0	EA	1.000	270.00	100.00	370.00
Hollow core, 1-3/4" thick					
Birch faced					
2-4 x 7-0	EA	1.000	190.00	100.00	290.00
2-6 x 7-0	EA	1.000	190.00	100.00	290.00
2-8 x 7-0	EA	1.000	200.00	100.00	300.00
3-0 x 7-0	EA	1.000	200.00	100.00	300.00
3-4 x 7-0	EA	1.000	210.00	100.00	310.00
Lauan faced					
2-4 x 6-8	EA	1.000	110.00	100.00	210.00
2-6 x 6-8	EA	1.000	120.00	100.00	220.00
2-8 x 6-8	EA	1.000	110.00	100.00	210.00
3-0 x 6-8	EA	1.000	120.00	100.00	220.00
3-4 x 6-8	EA	1.000	120.00	100.00	220.00
Tempered hardboard					
2-4 x 7-0	EA	1.000	100.00	100.00	200.00
2-6 x 7-0	EA	1.000	110.00	100.00	210.00

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	Unit	Man-Hrs	Material	Labor	Total
08140.01 WOOD DOORS (Cont.)					
Tempered hardboard					
2-8 x 7-0	EA	1.000	110.00	100.00	210.00
3-0 x 7-0	EA	1.000	120.00	100.00	220.00
3-4 x 7-0	EA	1.000	120.00	100.00	220.00
Add-on, louver	EA	0.800	34.50	82.00	116.50
Glass	EA	0.800	110.00	82.00	192.00
Exterior doors, 3-0 x 7-0 x 2-1/2", solid core					
Carved					
One face	EA	2.000	1,150.00	200.00	1,350.00
Two faces	EA	2.000	1,590.00	200.00	1,790.00
Closet doors, 1-3/4" thick					
Bi-fold or bi-passing, includes frame and trim					
Paneled					
4-0 x 6-8	EA	1.333	460.00	140.00	600.00
6-0 x 6-8	EA	1.333	520.00	140.00	660.00
Louvered					
4-0 x 6-8	EA	1.333	280.00	140.00	420.00
6-0 x 6-8	EA	1.333	330.00	140.00	470.00
Flush					
4-0 x 6-8	EA	1.333	200.00	140.00	340.00
6-0 x 6-8	EA	1.333	260.00	140.00	400.00
Primed					
4-0 x 6-8	EA	1.333	220.00	140.00	360.00
6-0 x 6-8	EA	1.333	250.00	140.00	390.00
08140.09 WOOD FRAMES					
WOOD FRAMES					
Frame, interior, pine					
2-6 x 6-8	EA	1.143	83.00	120.00	203.00
2-8 x 6-8	EA	1.143	89.00	120.00	209.00
3-0 x 6-8	EA	1.143	92.00	120.00	212.00
5-0 x 6-8	EA	1.143	96.00	120.00	216.00
6-0 x 6-8	EA	1.143	100.00	120.00	220.00
2-6 x 7-0	EA	1.143	95.00	120.00	215.00
2-8 x 7-0	EA	1.143	110.00	120.00	230.00
3-0 x 7-0	EA	1.143	110.00	120.00	230.00
5-0 x 7-0	EA	1.600	120.00	160.00	280.00
6-0 x 7-0	EA	1.600	130.00	160.00	290.00
Exterior, custom, with threshold, including trim					
Walnut					
3-0 x 7-0	EA	2.000	330.00	200.00	530.00
6-0 x 7-0	EA	2.000	380.00	200.00	580.00
Oak					
3-0 x 7-0	EA	2.000	300.00	200.00	500.00
6-0 x 7-0	EA	2.000	340.00	200.00	540.00
Pine					
2-4 x 7-0	EA	1.600	120.00	160.00	280.00
2-6 x 7-0	EA	1.600	130.00	160.00	290.00
2-8 x 7-0	EA	1.600	160.00	160.00	320.00
3-0 x 7-0	EA	1.600	170.00	160.00	330.00
3-4 x 7-0	EA	1.600	180.00	160.00	340.00
6-0 x 7-0	EA	2.667	190.00	270.00	460.00
08340.01 SPECIAL DOORS					
SPECIAL DOORS					
Sliding glass doors					
Tempered plate glass, 1/4" thick					
6' wide					
Economy grade	EA	2.667	1,130.00	270.00	1,400.00
Premium grade	EA	2.667	1,820.00	270.00	2,090.00
12' wide					
Economy grade	EA	4.000	1,590.00	410.00	2,000.00
Premium grade	EA	4.000	2,390.00	410.00	2,800.00

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	Unit	Man-Hrs	Material	Labor	Total
08340.01 SPECIAL DOORS (Cont.)					
Sliding glass doors					
Insulating glass, 5/8" thick					
6' wide					
Economy grade	EA	2.667	1,400.00	270.00	1,670.00
Premium grade	EA	2.667	1,800.00	270.00	2,070.00
12' wide					
Economy grade	EA	4.000	1,740.00	410.00	2,150.00
Premium grade	EA	4.000	2,790.00	410.00	3,200.00
1" thick					
6' wide					
Economy grade	EA	2.667	1,760.00	270.00	2,030.00
Premium grade	EA	2.667	2,030.00	270.00	2,300.00
12' wide					
Economy grade	EA	4.000	2,730.00	410.00	3,140.00
Premium grade	EA	4.000	3,990.00	410.00	4,400.00
Added costs					
Custom quality, add to material, 30%					
Tempered glass, 6' wide, add	SF				4.90
Residential storm door					
Minimum	EA	1.333	180.00	140.00	320.00
Average	EA	1.333	230.00	140.00	370.00
Maximum	EA	2.000	510.00	200.00	710.00
08440.01 GLAZED CURTAIN WALLS					
GLAZED CURTAIN WALLS					
Curtain wall, aluminum system, framing sections					
2" x 3"					
Jamb	LF	0.067	19.75	6.90	26.65
Horizontal	LF	0.067	20.00	6.90	26.90
Mullion	LF	0.067	26.75	6.90	33.65
2" x 4"					
Jamb	LF	0.100	26.75	10.25	37.00
Horizontal	LF	0.100	27.50	10.25	37.75
Mullion	LF	0.100	26.75	10.25	37.00
3" x 5-1/2"					
Jamb	LF	0.100	35.50	10.25	45.75
Horizontal	LF	0.100	39.50	10.25	49.75
Mullion	LF	0.100	35.75	10.25	46.00
4" corner mullion	LF	0.133	47.25	13.75	61.00
Coping sections					
1/8" x 8"	LF	0.133	45.00	13.75	58.75
1/8" x 9"	LF	0.133	45.25	13.75	59.00
1/8" x 12-1/2"	LF	0.160	46.25	16.50	62.75
Sill section					
1/8" x 6"	LF	0.080	44.25	8.28	52.53
1/8" x 7"	LF	0.080	44.75	8.28	53.03
1/8" x 8-1/2"	LF	0.080	45.75	8.28	54.03
Column covers, aluminum					
1/8" x 26"	LF	0.200	66.00	20.75	86.75
1/8" x 34"	LF	0.211	74.00	21.75	95.75
1/8" x 38"	LF	0.211	75.00	21.75	96.75
Doors					
Aluminum framed, standard hardware					
Narrow stile					
2-6 x 7-0	EA	4.000	820.00	410.00	1,230.00
3-0 x 7-0	EA	4.000	820.00	410.00	1,230.00
3-6 x 7-0	EA	4.000	850.00	410.00	1,260.00
08511.31 ALUMINUM WINDOWS					
ALUMINUM WINDOWS					
Jalousie					
3-0 x 4-0	EA	1.000	360.00	100.00	460.00
3-0 x 5-0	EA	1.000	420.00	100.00	520.00
Fixed window					
6 sf to 8 sf	SF	0.114	19.75	11.75	31.50
12 sf to 16 sf	SF	0.089	17.75	9.20	26.95

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	Unit	Man-Hrs	Material	Labor	Total
08511.31 ALUMINUM WINDOWS (Cont.)					
Projecting window					
6 sf to 8 sf	SF	0.200	44.00	20.75	64.75
12 sf to 16 sf	SF	0.133	39.75	13.75	53.50
Horizontal sliding					
6 sf to 8 sf	SF	0.100	28.50	10.25	38.75
12 sf to 16 sf	SF	0.080	26.50	8.28	34.78
Double hung					
6 sf to 8 sf	SF	0.160	39.75	16.50	56.25
10 sf to 12 sf	SF	0.133	35.25	13.75	49.00
Storm window, 0.5 cfm, up to					
60 u.i. (united inches)	EA	0.400	92.00	41.50	133.50
70 u.i.	EA	0.400	95.00	41.50	136.50
80 u.i.	EA	0.400	110.00	41.50	151.50
90 u.i.	EA	0.444	110.00	46.00	156.00
100 u.i.	EA	0.444	110.00	46.00	156.00
2.0 cfm, up to					
60 u.i.	EA	0.400	120.00	41.50	161.50
70 u.i.	EA	0.400	120.00	41.50	161.50
80 u.i.	EA	0.400	120.00	41.50	161.50
90 u.i.	EA	0.444	130.00	46.00	176.00
100 u.i.	EA	0.444	130.00	46.00	176.00
08520.01 WOOD WINDOWS					
WOOD WINDOWS					
Double hung					
24" x 36"					
Minimum	EA	0.800	250.00	82.00	332.00
Average	EA	1.000	370.00	100.00	470.00
Maximum	EA	1.333	490.00	140.00	630.00
24" x 48"					
Minimum	EA	0.800	300.00	82.00	382.00
Average	EA	1.000	440.00	100.00	540.00
Maximum	EA	1.333	620.00	140.00	760.00
30" x 48"					
Minimum	EA	0.889	320.00	91.00	411.00
Average	EA	1.143	450.00	120.00	570.00
Maximum	EA	1.600	640.00	160.00	800.00
30" x 60"					
Minimum	EA	0.889	350.00	91.00	441.00
Average	EA	1.143	560.00	120.00	680.00
Maximum	EA	1.600	680.00	160.00	840.00
Casement					
1 leaf, 22" x 38" high					
Minimum	EA	0.800	380.00	82.00	462.00
Average	EA	1.000	460.00	100.00	560.00
Maximum	EA	1.333	540.00	140.00	680.00
2 leaf, 50" x 50" high					
Minimum	EA	1.000	1,020.00	100.00	1,120.00
Average	EA	1.333	1,330.00	140.00	1,470.00
Maximum	EA	2.000	1,520.00	200.00	1,720.00
3 leaf, 71" x 62" high					
Minimum	EA	1.000	1,460.00	100.00	1,560.00
Average	EA	1.333	1,490.00	140.00	1,630.00
Maximum	EA	2.000	1,780.00	200.00	1,980.00
4 leaf, 95" x 75" high					
Minimum	EA	1.143	1,940.00	120.00	2,060.00
Average	EA	1.600	2,210.00	160.00	2,370.00
Maximum	EA	2.667	2,820.00	270.00	3,090.00
5 leaf, 119" x 75" high					
Minimum	EA	1.143	2,510.00	120.00	2,630.00
Average	EA	1.600	2,700.00	160.00	2,860.00
Maximum	EA	2.667	3,460.00	270.00	3,730.00
Picture window, fixed glass, 54" x 54" high					
Minimum	EA	1.000	520.00	100.00	620.00
Average	EA	1.143	580.00	120.00	700.00

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	Unit	Man-Hrs	Material	Labor	Total
08520.01 WOOD WINDOWS (Cont.)					
Picture window, fixed glass, 54" x 54" high					
Maximum	EA	1.333	1,030.00	140.00	1,170.00
68" x 55" high					
Minimum	EA	1.000	930.00	100.00	1,030.00
Average	EA	1.143	1,070.00	120.00	1,190.00
Maximum	EA	1.333	1,400.00	140.00	1,540.00
Sliding, 40" x 31" high					
Minimum	EA	0.800	310.00	82.00	392.00
Average	EA	1.000	470.00	100.00	570.00
Maximum	EA	1.333	560.00	140.00	700.00
52" x 39" high					
Minimum	EA	1.000	380.00	100.00	480.00
Average	EA	1.143	570.00	120.00	690.00
Maximum	EA	1.333	610.00	140.00	750.00
64" x 72" high					
Minimum	EA	1.000	600.00	100.00	700.00
Average	EA	1.333	950.00	140.00	1,090.00
Maximum	EA	1.600	1,050.00	160.00	1,210.00
Awning windows					
34" x 21" high					
Minimum	EA	0.800	310.00	82.00	392.00
Average	EA	1.000	360.00	100.00	460.00
Maximum	EA	1.333	420.00	140.00	560.00
40" x 21" high					
Minimum	EA	0.889	360.00	91.00	451.00
Average	EA	1.143	410.00	120.00	530.00
Maximum	EA	1.600	450.00	160.00	610.00
48" x 27" high					
Minimum	EA	0.889	390.00	91.00	481.00
Average	EA	1.143	460.00	120.00	580.00
Maximum	EA	1.600	540.00	160.00	700.00
60" x 36" high					
Minimum	EA	1.000	400.00	100.00	500.00
Average	EA	1.333	720.00	140.00	860.00
Maximum	EA	1.600	810.00	160.00	970.00
Window frame, milled					
Minimum	LF	0.160	5.73	16.25	21.98
Average	LF	0.200	6.39	20.50	26.89
Maximum	LF	0.267	9.61	27.25	36.86
08620.01 PLASTIC SKYLIGHTS					
PLASTIC SKYLIGHTS					
Single thickness, not including mounting curb					
2' x 4'	EA	1.000	430.00	98.00	528.00
4' x 4'	EA	1.333	580.00	130.00	710.00
5' x 5'	EA	2.000	770.00	200.00	970.00
6' x 8'	EA	2.667	1,630.00	260.00	1,890.00
Double thickness, not including mounting curb					
2' x 4'	EA	1.000	560.00	98.00	658.00
4' x 4'	EA	1.333	710.00	130.00	840.00
5' x 5'	EA	2.000	1,040.00	200.00	1,240.00
6' x 8'	EA	2.667	1,820.00	260.00	2,080.00
08710.01 HINGES					
HINGES					
Hinges, material only					
3 x 3 butts, steel, interior, plain bearing	PAIR				21.00
4 x 4 butts, steel, standard	PAIR				31.00
5 x 4-1/2 butts, bronze/s. steel, heavy duty	PAIR				80.00
08710.02 LOCKSETS					
LOCKSETS					
Latchset, heavy duty					
Cylindrical	EA	0.500	190.00	51.00	241.00
Mortise	EA	0.800	200.00	82.00	282.00

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	Unit	Man-Hrs	Material	Labor	Total
08710.02 LOCKSETS (Cont.)					
Lockset, heavy duty					
Cylindrical	EA	0.500	310.00	51.00	361.00
Mortise	EA	0.800	350.00	82.00	432.00
Lockset					
Privacy (bath or bedroom)	EA	0.667	250.00	68.00	318.00
Entry lock	EA	0.667	280.00	68.00	348.00
08710.03 CLOSERS					
CLOSERS					
Door closers					
Standard	EA	1.000	250.00	100.00	350.00
Heavy duty	EA	1.000	290.00	100.00	390.00
08710.04 DOOR TRIM					
DOOR TRIM					
Panic device					
Mortise	EA	2.000	830.00	200.00	1,030.00
Vertical rod	EA	2.000	1,250.00	200.00	1,450.00
Labeled, rim type	EA	2.000	860.00	200.00	1,060.00
Mortise	EA	2.000	1,130.00	200.00	1,330.00
Vertical rod	EA	2.000	1,200.00	200.00	1,400.00
08710.06 WEATHERSTRIPPING					
WEATHERSTRIPPING					
Weatherstrip, head and jamb, metal strip, neoprene bulb					
Standard duty	LF	0.044	5.27	4.54	9.81
Heavy duty	LF	0.050	5.86	5.11	10.97
Spring type					
Metal doors	EA	2.000	58.00	200.00	258.00
Wood doors	EA	2.667	58.00	270.00	328.00
Sponge type with adhesive backing	EA	0.800	55.00	82.00	137.00
Thresholds					
Bronze	LF	0.200	57.00	20.50	77.50
Aluminum					
Plain	LF	0.200	26.25	20.50	46.75
Vinyl insert	LF	0.200	26.75	20.50	47.25
Aluminum with grit	LF	0.200	25.50	20.50	46.00
Steel					
Plain	LF	0.200	25.25	20.50	45.75
Interlocking	LF	0.667	33.75	68.00	101.75
08810.01 GLASS GLAZING					
GLASS GLAZING					
Sheet glass, 1/8" thick	SF	0.044	9.04	4.60	13.64
Plate glass, bronze or grey, 1/4" thick	SF	0.073	13.25	7.52	20.77
Clear	SF	0.073	10.25	7.52	17.77
Polished	SF	0.073	12.25	7.52	19.77
Plexiglass					
1/8" thick	SF	0.073	5.82	7.52	13.34
1/4" thick	SF	0.044	10.50	4.60	15.10
Float glass, clear					
3/16" thick	SF	0.067	7.04	6.90	13.94
1/4" thick	SF	0.073	7.17	7.52	14.69
3/8" thick	SF	0.100	14.50	10.25	24.75
Tinted glass, polished plate, twin ground					
3/16" thick	SF	0.067	9.69	6.90	16.59
1/4" thick	SF	0.073	9.69	7.52	17.21
3/8" thick	SF	0.100	15.50	10.25	25.75
Insulating glass, two lites, clear float glass					
1/2" thick	SF	0.133	14.00	13.75	27.75
5/8" thick	SF	0.160	16.25	16.50	32.75
3/4" thick	SF	0.200	17.75	20.75	38.50
7/8" thick	SF	0.229	18.75	23.75	42.50
1" thick	SF	0.267	25.00	27.50	52.50
Glass seal edge					
3/8" thick	SF	0.133	11.75	13.75	25.50

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	Unit	Man-Hrs	Material	Labor	Total
08810.01 GLASS GLAZING (Cont.)					
Insulating glass, two lites, clear float glass					
Tinted glass					
1/2" thick	SF	0.133	29.00	13.75	42.75
1" thick	SF	0.267	31.00	27.50	58.50
Tempered, clear					
1" thick	SF	0.267	47.25	27.50	74.75
Plate mirror glass					
1/4" thick					
15 sf	SF	0.080	15.25	8.28	23.53
Over 15 sf	SF	0.073	14.00	7.52	21.52
08910.01 VENTS AND WALL LOUVERS					
VENTS AND WALL LOUVERS					
Block vent, 8"x16"x4" alum., w/screen, mill finish	EA	0.267	210.00	27.50	237.50
Standard	EA	0.250	120.00	25.75	145.75
Vents w/screen, 4" deep, 8" wide, 5" high					
Modular	EA	0.250	140.00	25.75	165.75
Aluminum gable louvers	SF	0.133	25.00	13.75	38.75
Vent screen aluminum, 4" wide, continuous	LF	0.027	7.27	2.76	10.03
Aluminum louvers					
Residential use, fixed type, with screen					
8" x 8"	EA	0.400	32.00	41.50	73.50
12" x 12"	EA	0.400	35.25	41.50	76.75
12" x 18"	EA	0.400	42.25	41.50	83.75
14" x 24"	EA	0.400	61.00	41.50	102.50
18" x 24"	EA	0.400	68.00	41.50	109.50
30" x 24"	EA	0.444	93.00	46.00	139.00

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09211.61 METAL STUDS

	Unit	Man-Hrs	Material	Labor	Total
METAL STUDS					
Studs, non load bearing, galvanized					
1-5/8", 20 ga.					
12" o.c.	SF	0.017	0.91	1.70	2.61
16" o.c.	SF	0.013	0.74	1.36	2.10
25 ga.					
12" o.c.	SF	0.017	0.83	1.70	2.53
16" o.c.	SF	0.013	0.68	1.36	2.04
2-1/2", 20 ga.					
12" o.c.	SF	0.017	1.02	1.70	2.72
16" o.c.	SF	0.013	0.77	1.36	2.13
25 ga.					
12" o.c.	SF	0.017	0.93	1.70	2.63
16" o.c.	SF	0.013	0.70	1.36	2.06
24" o.c.	SF	0.011	0.46	1.13	1.59
3-5/8", 20 ga.					
12" o.c.	SF	0.020	1.89	2.04	3.93
16" o.c.	SF	0.016	1.43	1.63	3.06
24" o.c.	SF	0.013	0.94	1.36	2.30
25 ga.					
12" o.c.	SF	0.020	0.98	2.04	3.02
16" o.c.	SF	0.016	0.74	1.63	2.37
24" o.c.	SF	0.013	0.49	1.36	1.85
4", 20 ga.					
12" o.c.	SF	0.020	1.57	2.04	3.61
16" o.c.	SF	0.016	1.18	1.63	2.81
24" o.c.	SF	0.013	0.78	1.36	2.14
25 ga.					
12" o.c.	SF	0.020	1.21	2.04	3.25
16" o.c.	SF	0.016	0.91	1.63	2.54
24" o.c.	SF	0.013	0.60	1.36	1.96
6", 20 ga.					
12" o.c.	SF	0.025	1.69	2.55	4.24
16" o.c.	SF	0.020	1.26	2.04	3.30
24" o.c.	SF	0.017	0.84	1.70	2.54
25 ga.					
12" o.c.	SF	0.025	1.30	2.55	3.85
16" o.c.	SF	0.020	0.98	2.04	3.02
24" o.c.	SF	0.017	0.65	1.70	2.35
Tracks, 20 ga.					
1-5/8"	LF	0.012	0.74	1.25	1.99
2-1/2"	LF	0.012	0.77	1.25	2.02
3-5/8"	LF	0.012	0.89	1.25	2.14
4"	LF	0.012	1.20	1.25	2.45
6"	LF	0.013	1.26	1.29	2.55
25 ga.					
1-5/8"	LF	0.012	0.68	1.25	1.93
2-1/2"	LF	0.012	0.70	1.25	1.95
3-5/8"	LF	0.012	0.74	1.25	1.99
4"	LF	0.012	0.91	1.25	2.16
6"	LF	0.013	0.98	1.29	2.27
Load bearing studs, galvanized					
3-5/8", 16 ga.					
12" o.c.	SF	0.040	2.05	4.09	6.14
16" o.c.	SF	0.036	1.63	3.63	5.26
18 ga.					
12" o.c.	SF	0.040	1.54	4.09	5.63
16" o.c.	SF	0.036	1.18	3.63	4.81
4", 16 ga.					
12" o.c.	SF	0.040	2.19	4.09	6.28
16" o.c.	SF	0.036	1.70	3.63	5.33
6", 16 ga.					
12" o.c.	SF	0.040	2.76	4.09	6.85
16" o.c.	SF	0.036	2.13	3.63	5.76

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	Unit	Man-Hrs	Material	Labor	Total
09211.61 METAL STUDS (Cont.)					
Furring					
On beams and columns					
7/8" channel	LF	0.053	0.65	5.45	6.10
1-1/2" channel	LF	0.062	0.77	6.29	7.06
On ceilings					
3/4" furring channels					
12" o.c.	SF	0.033	0.45	3.40	3.85
16" o.c.	SF	0.032	0.34	3.27	3.61
24" o.c.	SF	0.029	0.22	2.92	3.14
1-1/2" furring channels					
12" o.c.	SF	0.036	0.77	3.71	4.48
16" o.c.	SF	0.033	0.58	3.40	3.98
24" o.c.	SF	0.031	0.38	3.14	3.52
On walls					
3/4" furring channels					
12" o.c.	SF	0.027	0.45	2.72	3.17
16" o.c.	SF	0.025	0.34	2.55	2.89
24" o.c.	SF	0.024	0.22	2.40	2.62
1-1/2" furring channels					
12" o.c.	SF	0.029	0.77	2.92	3.69
16" o.c.	SF	0.027	0.58	2.72	3.30
24" o.c.	SF	0.025	0.38	2.55	2.93
09223.61 GYPSUM LATH					
GYPSUM LATH					
Gypsum lath, 1/2" thick					
Clipped	SY	0.044	5.12	4.54	9.66
Nailed	SY	0.050	5.12	5.11	10.23
09223.62 METAL LATH					
METAL LATH					
Diamond expanded, galvanized					
2.5 lb., on walls					
Nailed	SY	0.100	6.58	10.25	16.83
Wired	SY	0.114	6.58	11.75	18.33
On ceilings					
Nailed	SY	0.114	6.58	11.75	18.33
Wired	SY	0.133	6.58	13.75	20.33
3.4 lb., on walls					
Nailed	SY	0.100	8.94	10.25	19.19
Wired	SY	0.114	8.94	11.75	20.69
On ceilings					
Nailed	SY	0.114	8.94	11.75	20.69
Wired	SY	0.133	8.94	13.75	22.69
Flat rib					
2.75 lb., on walls					
Nailed	SY	0.100	6.22	10.25	16.47
Wired	SY	0.114	8.94	11.75	20.69
On ceilings					
Nailed	SY	0.114	8.94	11.75	20.69
Wired	SY	0.133	8.94	13.75	22.69
3.4 lb., on walls					
Nailed	SY	0.100	8.94	10.25	19.19
Wired	SY	0.114	7.49	11.75	19.24
On ceilings					
Nailed	SY	0.114	7.49	11.75	19.24
Wired	SY	0.133	7.49	13.75	21.24
Stucco lath					
1.8 lb.	SY	0.100	7.73	10.25	17.98
3.6 lb.	SY	0.100	8.68	10.25	18.93
Paper backed					
Minimum	SY	0.080	6.02	8.18	14.20
Maximum	SY	0.114	9.70	11.75	21.45

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	Unit	Man-Hrs	Material	Labor	Total
09223.66 PLASTER ACCESSORIES					
PLASTER ACCESSORIES					
Expansion joint, 3/4", 26 ga., galv.	LF	0.020	1.69	2.04	3.73
Plaster corner beads, 3/4", galvanized	LF	0.023	0.47	2.33	2.80
Casing bead, expanded flange, galvanized	LF	0.020	0.64	2.04	2.68
Expanded wing, 1-1/4" wide, galvanized	LF	0.020	0.75	2.04	2.79
Joint clips for lath	EA	0.004	0.20	0.40	0.60
Metal base, galvanized, 2-1/2" high	LF	0.027	0.86	2.72	3.58
Stud clips for gypsum lath	EA	0.004	0.20	0.40	0.60
Tie wire galvanized, 18 ga., 25 lb. hank	EA				54.00
Sound deadening board, 1/4"	SF	0.013	0.36	1.36	1.72
09230.01 PLASTER					
PLASTER					
Gypsum plaster, trowel finish, 2 coats					
Ceilings	SY	0.250	6.70	23.75	30.45
Walls	SY	0.235	6.70	22.50	29.20
3 coats					
Ceilings	SY	0.348	9.30	33.25	42.55
Walls	SY	0.308	9.30	29.25	38.55
Vermiculite plaster					
2 coats					
Ceilings	SY	0.381	5.59	36.25	41.84
Walls	SY	0.348	5.59	33.25	38.84
3 coats					
Ceilings	SY	0.471	8.79	44.75	53.54
Walls	SY	0.421	8.79	40.25	49.04
Keenes cement plaster					
2 coats					
Ceilings	SY	0.308	3.34	29.25	32.59
Walls	SY	0.267	3.34	25.50	28.84
3 coats					
Ceilings	SY	0.348	3.12	33.25	36.37
Walls	SY	0.308	3.12	29.25	32.37
On columns, add to installation, 50%					
Chases, fascia, and soffits, add to installation, 50%					
Beams, add to installation, 50%					
Patch holes, average size holes					
1 sf to 5 sf					
Minimum	SF	0.133	2.57	12.75	15.32
Average	SF	0.160	2.57	15.25	17.82
Maximum	SF	0.200	2.57	19.00	21.57
Over 5 sf					
Minimum	SF	0.080	2.57	7.62	10.19
Average	SF	0.114	2.57	11.00	13.57
Maximum	SF	0.133	2.57	12.75	15.32
Patch cracks					
Minimum	SF	0.027	2.57	2.54	5.11
Average	SF	0.040	2.57	3.81	6.38
Maximum	SF	0.080	2.57	7.62	10.19
09240.01 PORTLAND CEMENT PLASTER					
PORTLAND CEMENT PLASTER					
Stucco, portland, gray, 3 coat, 1" thick					
Sand finish	SY	0.348	12.25	33.25	45.50
Trowel finish	SY	0.364	12.25	34.75	47.00
White cement					
Sand finish	SY	0.364	14.00	34.75	48.75
Trowel finish	SY	0.400	14.00	38.00	52.00
Scratch coat					
For ceramic tile	SY	0.080	4.45	7.62	12.07
For quarry tile	SY	0.080	4.45	7.62	12.07
Portland cement plaster					
2 coats, 1/2"	SY	0.160	8.84	15.25	24.09
3 coats, 7/8"	SY	0.200	10.50	19.00	29.50

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	Unit	Man-Hrs	Material	Labor	Total
09290.01 GYPSUM BOARD					
GYPSUM BOARD					
Vinyl faced, fastened to metal studs					
1/2" thick	SF	0.010	1.24	1.02	2.26
5/8" thick	SF	0.010	1.18	1.02	2.20
Standard drywall, 3/8" thick					
Nailed or screwed to					
Wood or metal framed ceiling	SF	0.008	0.46	0.81	1.27
Columns and beams	SF	0.018	0.46	1.81	2.27
Walls	SF	0.007	0.46	0.74	1.20
1/2" thick					
Nailed or screwed to					
Wood or metal framed ceiling	SF	0.008	0.43	0.81	1.24
Columns and beams	SF	0.018	0.43	1.81	2.24
Walls	SF	0.007	0.43	0.74	1.17
5/8" thick					
Nailed or screwed to					
Wood or metal framed ceiling	SF	0.010	0.48	1.02	1.50
Columns and beams	SF	0.022	0.48	2.27	2.75
Walls	SF	0.009	0.48	0.90	1.38
Lightweight drywall, 1/2" thick					
Nailed or screwed to					
Wood or metal framed ceiling	SF	0.008	0.41	0.81	1.22
Columns and beams	SF	0.018	0.41	1.81	2.22
Walls	SF	0.007	0.41	0.74	1.15
5/8" thick					
Nailed or screwed to					
Wood or metal framed ceiling	SF	0.010	0.45	1.02	1.47
Columns and beams	SF	0.022	0.45	2.27	2.72
Walls	SF	0.009	0.45	0.90	1.35
Mold resistant drywall, 1/2" thick					
Nailed or screwed to					
Wood or metal framed ceiling	SF	0.008	0.60	0.81	1.41
Columns and beams	SF	0.018	0.60	1.81	2.41
Walls	SF	0.007	0.60	0.74	1.34
5/8" thick					
Nailed or screwed to					
Wood or metal framed ceiling	SF	0.010	0.65	1.02	1.67
Columns and beams	SF	0.022	0.65	2.27	2.92
Walls	SF	0.009	0.65	0.90	1.55
Blue Board drywall, 1/2" thick					
Nailed or screwed to					
Wood or metal framed ceiling	SF	0.008	0.52	0.81	1.33
Columns and beams	SF	0.018	0.52	1.81	2.33
Walls	SF	0.007	0.52	0.74	1.26
5/8" thick					
Nailed or screwed to					
Wood or metal framed ceiling	SF	0.010	0.57	1.02	1.59
Columns and beams	SF	0.022	0.57	2.27	2.84
Walls	SF	0.009	0.57	0.90	1.47
Soundproof drywall, 1/2" thick					
Nailed or screwed to					
Wood or metal framed ceiling	SF	0.008	1.80	0.81	2.61
Columns and beams	SF	0.018	1.80	1.81	3.61
Walls	SF	0.007	1.80	0.74	2.54
5/8" thick					
Nailed or screwed to					
Wood or metal framed ceiling	SF	0.010	2.00	1.02	3.02
Columns and beams	SF	0.022	2.00	2.27	4.27
Walls	SF	0.009	2.00	0.90	2.90
Fire-resistant drywall, 1/2" thick					
Nailed or screwed to					
Wood or metal framed ceiling	SF	0.008	0.52	0.81	1.33
Columns and beams	SF	0.018	0.52	1.81	2.33
Walls	SF	0.007	0.52	0.74	1.26

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	Unit	Man-Hrs	Material	Labor	Total
09290.01 GYPSUM BOARD (Cont.)					
Fire-resistant drywall, 1/2" thick					
5/8" thick					
Nailed or screwed to					
Wood or metal framed ceiling	SF	0.010	0.57	1.02	1.59
Columns and beams	SF	0.022	0.57	2.27	2.84
Walls	SF	0.009	0.57	0.90	1.47
Impact-resistant drywall, 5/8" thick					
Nailed or screwed to					
Wood or metal framed ceiling	SF	0.010	0.94	1.02	1.96
Columns and beams	SF	0.022	0.94	2.27	3.21
Walls	SF	0.009	0.94	0.90	1.84
High-flex drywall, 1/4" thick, nailed or screwed					
Walls	SF	0.009	0.48	0.90	1.38
Shaftwall drywall, 1" thick, nailed or screwed					
Walls	SF	0.011	0.89	1.16	2.05
Stretch drywall, 1/2" thick					
Nailed or screwed to					
Wood or metal framed ceiling	SF	0.009	0.34	0.90	1.24
Walls	SF	0.008	0.34	0.81	1.15
Tile backer board, screwed to wall					
1/4" thick	SF	0.032	1.02	3.27	4.29
7/16" thick	SF	0.032	1.14	3.27	4.41
1/2" thick	SF	0.032	0.97	3.27	4.24
5/8" thick	SF	0.032	1.13	3.27	4.40
Casing bead					
Minimum	LF	0.023	0.17	2.33	2.50
Average	LF	0.027	0.18	2.72	2.90
Maximum	LF	0.040	0.23	4.09	4.32
Corner bead					
Minimum	LF	0.023	0.18	2.33	2.51
Average	LF	0.027	0.23	2.72	2.95
Maximum	LF	0.040	0.28	4.09	4.37
Taping and finishing joints					
Level 1	SF	0.005	0.05	0.54	0.59
Level 2	SF	0.006	0.05	0.62	0.67
Level 3	SF	0.007	0.07	0.68	0.75
Level 4	SF	0.008	0.06	0.81	0.87
Level 5 (includes skim coat)	SF	0.008	0.11	0.81	0.92
Add to above for Special Textures					
Orange Peel	SF	0.013	0.40	1.36	1.76
Santa-Fe	SF	0.016	0.57	1.63	2.20
Skip Trowel	SF	0.015	0.51	1.48	1.99
Smooth	SF	0.013	0.40	1.36	1.76
Splatter Knockdown	SF	0.015	0.51	1.48	1.99
Swirl	SF	0.018	0.51	1.81	2.32
Rosebud	SF	0.018	0.51	1.81	2.32
Popcorn	SF	0.015	0.51	1.48	1.99
09301.31 CERAMIC TILE					
CERAMIC TILE					
Glazed wall tile, 4-1/4" x 4-1/4"					
Minimum	SF	0.057	2.57	5.57	8.14
Average	SF	0.067	4.08	6.50	10.58
Maximum	SF	0.080	14.50	7.80	22.30
Base, 4-1/4" high					
Minimum	LF	0.100	4.72	9.75	14.47
Average	LF	0.100	5.48	9.75	15.23
Maximum	LF	0.100	7.25	9.75	17.00
Unglazed floor tile					
Portland cem., cushion edge, face mtd					
1" x 1"	SF	0.073	17.75	7.09	24.84
2" x 2"	SF	0.067	18.75	6.50	25.25
4" x 4"	SF	0.067	17.50	6.50	24.00

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	Unit	Man-Hrs	Material	Labor	Total
09301.31 CERAMIC TILE (Cont.)					
Unglazed floor tile					
Adhesive bed, with white grout					
1" x 1"	SF	0.073	14.75	7.09	21.84
4" x 4"	SF	0.067	15.75	6.50	22.25
Organic adhesive bed, thin set, back mounted					
1" x 1"	SF	0.073	14.75	7.09	21.84
2" x 2"	SF	0.067	17.25	6.50	23.75
For group 2 colors, add to material, 10%					
For group 3 colors, add to material, 20%					
For abrasive surface, add to material, 25%					
Unglazed wall tile					
Organic adhesive, face mounted cushion edge					
1" x 1"					
Minimum	SF	0.067	6.87	6.50	13.37
Average	SF	0.073	9.00	7.09	16.09
Maximum	SF	0.080	13.50	7.80	21.30
2" x 2"					
Minimum	SF	0.062	7.94	6.00	13.94
Average	SF	0.067	9.00	6.50	15.50
Maximum	SF	0.073	14.75	7.09	21.84
Back mounted					
1" x 1"					
Minimum	SF	0.067	6.87	6.50	13.37
Average	SF	0.073	9.00	7.09	16.09
Maximum	SF	0.080	13.50	7.80	21.30
2" x 2"					
Minimum	SF	0.062	7.94	6.00	13.94
Average	SF	0.067	9.00	6.50	15.50
Maximum	SF	0.073	14.75	7.09	21.84
For glazed finish, add to material, 25%					
For glazed mosaic, add to material, 100%					
For metallic colors, add to material, 125%					
For exterior wall use, add to total, 25%					
For exterior soffit, add to total, 25%					
For portland cement bed, add to total, 25%					
For dry set portland cement bed, add to total, 10%					
Ceramic accessories					
Towel bar, 24" long					
Minimum	EA	0.320	19.00	31.25	50.25
Average	EA	0.400	23.25	39.00	62.25
Maximum	EA	0.533	63.00	52.00	115.00
Soap dish					
Minimum	EA	0.533	8.93	52.00	60.93
Average	EA	0.667	12.00	65.00	77.00
Maximum	EA	0.800	32.00	78.00	110.00
09301.61 QUARRY TILE					
QUARRY TILE					
Floor					
4 x 4 x 1/2"	SF	0.107	6.93	10.50	17.43
6 x 6 x 1/2"	SF	0.100	6.79	9.75	16.54
6 x 6 x 3/4"	SF	0.100	8.43	9.75	18.18
Wall, applied to 3/4" portland cement bed					
4 x 4 x 1/2"	SF	0.160	6.16	15.50	21.66
6 x 6 x 3/4"	SF	0.133	6.89	13.00	19.89
Cove base					
5 x 6 x 1/2" straight top	LF	0.133	7.03	13.00	20.03
6 x 6 x 3/4" round top	LF	0.133	6.52	13.00	19.52
Stair treads 6 x 6 x 3/4"	LF	0.200	9.63	19.50	29.13
Window sill 6 x 8 x 3/4"	LF	0.160	8.79	15.50	24.29

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	Unit	Man-Hrs	Material	Labor	Total
09301.61 QUARRY TILE (Cont.)					
For abrasive surface, add to material, 25%					
09510.01 CEILINGS AND WALLS					
CEILINGS AND WALLS					
Acoustical panels, suspension system not included					
Fiberglass panels					
5/8" thick					
2' x 2'	SF	0.011	1.96	1.16	3.12
2' x 4'	SF	0.009	1.62	0.90	2.52
3/4" thick					
2' x 2'	SF	0.011	2.60	1.16	3.76
2' x 4'	SF	0.009	2.52	0.90	3.42
Glass cloth faced fiberglass panels					
3/4" thick	SF	0.013	3.71	1.36	5.07
1" thick	SF	0.013	4.13	1.36	5.49
Wood laminate faced, minimum	SF	0.016	12.75	1.63	14.38
Maximum	SF	0.018	15.00	1.81	16.81
Mineral fiber panels					
5/8" thick					
2' x 2'	SF	0.011	1.66	1.16	2.82
2' x 4'	SF	0.009	1.66	0.90	2.56
3/4" thick					
2' x 2'	SF	0.011	2.60	1.16	3.76
2' x 4'	SF	0.009	2.55	0.90	3.45
Wood fiber panels					
1/2" thick					
2' x 2'	SF	0.011	2.80	1.16	3.96
2' x 4'	SF	0.009	2.80	0.90	3.70
5/8" thick					
2' x 2'	SF	0.011	3.22	1.16	4.38
2' x 4'	SF	0.009	3.22	0.90	4.12
Acoustical tiles, suspension system not included					
Fiberglass tile, 12" x 12"					
5/8" thick	SF	0.015	2.11	1.48	3.59
3/4" thick	SF	0.018	2.45	1.81	4.26
Glass cloth faced fiberglass tile					
3/4" thick	SF	0.018	3.93	1.81	5.74
3" thick	SF	0.020	4.40	2.04	6.44
Mineral fiber tile, 12" x 12"					
5/8" thick					
Standard	SF	0.016	1.10	1.63	2.73
Vinyl faced	SF	0.016	2.20	1.63	3.83
3/4" thick					
Standard	SF	0.016	1.61	1.63	3.24
Vinyl faced	SF	0.016	2.81	1.63	4.44
Ceiling suspension systems					
T-bar system					
2' x 4'	SF	0.008	1.34	0.81	2.15
2' x 2'	SF	0.009	1.45	0.90	2.35
Concealed Z-bar suspension system, 12" module	SF	0.013	1.38	1.36	2.74
For 1-1/2" carrier channels, 4' o.c., add	SF				0.44
Carrier channel for recessed light fixtures	SF				0.80
T-bar system grid components					
2' Cross Tee	EA	0.010	2.32	1.02	3.34
4' Cross Tee	EA	0.011	4.64	1.09	5.73
Main Beam	LF	0.011	1.27	1.16	2.43
Wall Molding	LF	0.008	0.69	0.81	1.50
Ceiling tile, quick costs					
Minimum	SF	0.016	1.85	1.63	3.48
Average	SF	0.018	2.61	1.81	4.42
Maximum	SF	0.020	6.49	2.04	8.53

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	Unit	Man-Hrs	Material	Labor	Total
09631.61 UNIT MASONRY FLOORING					
UNIT MASONRY FLOORING					
Clay brick					
9 x 4-1/2 x 3" thick					
Glazed	SF	0.067	7.44	6.81	14.25
Unglazed	SF	0.067	7.13	6.81	13.94
8 x 4 x 3/4" thick					
Glazed	SF	0.070	6.73	7.11	13.84
Unglazed	SF	0.070	6.42	7.11	13.53
For herringbone pattern, add to labor, 15%					
09640.01 WOOD FLOORING					
WOOD FLOORING					
Wood strip flooring, unfinished					
Fir floor					
C and better					
Vertical grain	SF	0.027	3.64	2.72	6.36
Flat grain	SF	0.027	4.55	2.72	7.27
Oak floor					
Minimum	SF	0.038	3.85	3.89	7.74
Average	SF	0.038	5.31	3.89	9.20
Maximum	SF	0.038	7.69	3.89	11.58
Maple floor					
25/32" x 2-1/4"					
Minimum	SF	0.038	5.50	3.89	9.39
Maximum	SF	0.038	7.80	3.89	11.69
33/32" x 3-1/4"					
Minimum	SF	0.038	7.68	3.89	11.57
Maximum	SF	0.038	8.68	3.89	12.57
Added costs					
For factory finish, add to material, 10%					
For random width floor, add to total, 20%					
For simulated pegs, add to total, 10%					
Wood block industrial flooring					
Creosoted					
2" thick	SF	0.021	4.34	2.15	6.49
2-1/2" thick	SF	0.025	4.52	2.55	7.07
3" thick	SF	0.027	4.69	2.72	7.41
Parquet, 5/16", white oak					
Finished	SF	0.040	10.50	4.09	14.59
Unfinished	SF	0.040	5.04	4.09	9.13
Gym floor, 2 ply felt, 25/32" maple, finished, in mastic	SF	0.044	8.88	4.54	13.42
Over wood sleepers	SF	0.050	9.05	5.11	14.16
Finishing, sand, fill, finish, and wax	SF	0.020	0.69	2.04	2.73
Refinish sand, seal, and 2 coats of polyurethane	SF	0.027	1.20	2.72	3.92
Clean and wax floors	SF	0.004	0.25	0.40	0.65
09651.31 RESILIENT BASE AND ACCESSORIES					
RESILIENT BASE AND ACCESSORIES					
Wall base, vinyl					
4" high	LF	0.027	1.71	2.72	4.43
6" high	LF	0.027	2.33	2.72	5.05
09651.61 RESILIENT SHEET FLOORING					
RESILIENT SHEET FLOORING					
Vinyl sheet flooring					
Minimum	SF	0.008	4.39	0.81	5.20
Average	SF	0.010	9.37	0.97	10.34
Maximum	SF	0.013	17.75	1.36	19.11
Cove, to 6"	LF	0.016	5.13	1.63	6.76
Fluid applied resilient flooring					
Polyurethane, poured in place, 3/8" thick	SF	0.067	11.00	6.81	17.81
Vinyl sheet goods, backed					
0.070" thick	SF	0.010	4.26	1.02	5.28
0.093" thick	SF	0.010	6.60	1.02	7.62
0.125" thick	SF	0.010	7.62	1.02	8.64
0.250" thick	SF	0.010	8.77	1.02	9.79

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	Unit	Man-Hrs	Material	Labor	Total
09651.91 RESILIENT TILE FLOORING					
RESILIENT TILE FLOORING					
Solid vinyl tile, 1/8" thick, 12" x 12"					
Marble patterns	SF	0.020	5.34	2.04	7.38
Solid colors	SF	0.020	6.92	2.04	8.96
Travertine patterns	SF	0.020	7.78	2.04	9.82
Conductive resilient flooring, vinyl tile					
1/8" thick, 12" x 12"	SF	0.023	9.28	2.33	11.61
09661.31 TERRAZZO					
TERRAZZO					
Floors on concrete, 1-3/4" thick, 5/8" topping					
Gray cement	SF	0.114	7.25	11.00	18.25
White cement	SF	0.114	7.58	11.00	18.58
Sand cushion, 3" thick, 5/8" top, 1/4"					
Gray cement	SF	0.133	8.56	12.75	21.31
White cement	SF	0.133	8.90	12.75	21.65
Monolithic terrazzo, 3-1/2" base slab, 5/8" topping	SF	0.100	6.07	9.53	15.60
Terrazzo wainscot, cast-in-place, 1/2" thick	SF	0.200	7.38	19.00	26.38
Base, cast-in-place, terrazzo cove type, 6" high	LF	0.114	9.28	11.00	20.28
Curb, cast-in-place, 6" wide x 6" high, polished top	LF	0.400	8.43	38.00	46.43
For venetian type terrazzo, add to material, 10%					
For abrasive heavy duty terrazzo, add to material, 15%					
Divider strips					
Zinc	LF				1.52
Brass	LF				2.83
Stairs, cast-in-place, topping on concrete or metal					
1-1/2" thick treads, 12" wide	LF	0.400	5.97	38.00	43.97
Combined tread and riser	LF	1.000	8.97	95.00	103.97
Precast terrazzo, thin set					
Terrazzo tiles, non-slip surface					
9" x 9" x 1" thick	SF	0.114	17.00	11.00	28.00
12" x 12"					
1" thick	SF	0.107	18.50	10.25	28.75
1-1/2" thick	SF	0.114	19.25	11.00	30.25
18" x 18" x 1-1/2" thick	SF	0.114	25.25	11.00	36.25
24" x 24" x 1-1/2" thick	SF	0.094	32.25	8.97	41.22
For white cement, add to material, 10%					
For venetian type terrazzo, add to material, 25%					
Terrazzo wainscot					
12" x 12" x 1" thick	SF	0.200	9.41	19.00	28.41
18" x 18" x 1-1/2" thick	SF	0.229	15.25	21.75	37.00
Base					
6" high					
Straight	LF	0.062	13.50	5.86	19.36
Coved	LF	0.062	16.00	5.86	21.86
8" high					
Straight	LF	0.067	15.25	6.35	21.60
Coved	LF	0.067	17.75	6.35	24.10
Terrazzo curbs					
8" wide x 8" high	LF	0.320	35.00	30.50	65.50
6" wide x 6" high	LF	0.267	31.75	25.50	57.25
Precast terrazzo stair treads, 12" wide					
1-1/2" thick					
Diamond pattern	LF	0.145	42.25	13.75	56.00
Non-slip surface	LF	0.145	44.50	13.75	58.25
2" thick					
Diamond pattern	LF	0.145	44.50	13.75	58.25
Non-slip surface	LF	0.160	46.75	15.25	62.00
Stair risers, 1" thick to 6" high					
Straight sections	LF	0.080	14.25	7.62	21.87
Cove sections	LF	0.080	16.75	7.62	24.37
Combined tread and riser					
Straight sections					
1-1/2" tread, 3/4" riser	LF	0.229	61.00	21.75	82.75
3" tread, 1" riser	LF	0.229	73.00	21.75	94.75

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	Unit	Man-Hrs	Material	Labor	Total
09661.31 TERRAZZO (Cont.)					
Combined tread and riser					
Curved sections					
2" tread, 1" riser	LF	0.267	78.00	25.50	103.50
3" tread, 1" riser	LF	0.267	81.00	25.50	106.50
Stair stringers, notched for treads and risers					
1" thick	LF	0.200	37.00	19.00	56.00
2" thick	LF	0.267	38.25	25.50	63.75
Landings, structural, nonslip					
1-1/2" thick	SF	0.133	34.75	12.75	47.50
3" thick	SF	0.160	48.75	15.25	64.00
09680.01 CARPET PADDING					
CARPET PADDING					
Carpet padding					
Foam rubber, waffle type, 0.3" thick	SY	0.040	6.98	4.09	11.07
Jute padding					
Minimum	SY	0.036	5.92	3.71	9.63
Average	SY	0.040	7.71	4.09	11.80
Maximum	SY	0.044	11.50	4.54	16.04
Sponge rubber cushion					
Minimum	SY	0.036	5.61	3.71	9.32
Average	SY	0.040	7.47	4.09	11.56
Maximum	SY	0.044	10.50	4.54	15.04
Urethane cushion, 3/8" thick					
Minimum	SY	0.036	5.61	3.71	9.32
Average	SY	0.040	6.54	4.09	10.63
Maximum	SY	0.044	8.53	4.54	13.07
09680.02 CARPET					
CARPET					
Carpet, acrylic					
24 oz., light traffic	SY	0.089	19.25	9.08	28.33
28 oz., medium traffic	SY	0.089	23.00	9.08	32.08
Residential					
Nylon					
15 oz., light traffic	SY	0.089	26.75	9.08	35.83
28 oz., medium traffic	SY	0.089	34.75	9.08	43.83
Commercial					
Nylon					
28 oz., medium traffic	SY	0.089	33.25	9.08	42.33
35 oz., heavy traffic	SY	0.089	40.50	9.08	49.58
Wool					
30 oz., medium traffic	SY	0.089	82.00	9.08	91.08
36 oz., medium traffic	SY	0.089	87.00	9.08	96.08
42 oz., heavy traffic	SY	0.089	120.00	9.08	129.08
Carpet tile					
Foam backed					
Minimum	SF	0.016	4.43	1.63	6.06
Average	SF	0.018	5.12	1.81	6.93
Maximum	SF	0.020	8.12	2.04	10.16
Tufted loop or shag					
Minimum	SF	0.016	4.80	1.63	6.43
Average	SF	0.018	5.78	1.81	7.59
Maximum	SF	0.020	9.31	2.04	11.35
Clean and vacuum carpet					
Minimum	SY	0.004	0.39	0.32	0.71
Average	SY	0.005	0.60	0.54	1.14
Maximum	SY	0.008	0.83	0.81	1.64
09720.01 WALL COVERING					
Vinyl wall covering					
Medium duty	SF	0.011	1.18	0.97	2.15
Heavy duty	SF	0.013	2.43	1.13	3.56
Over pipes and irregular shapes					
Lightweight, 13 oz.	SF	0.016	2.04	1.36	3.40
Medium weight, 25 oz.	SF	0.018	2.43	1.51	3.94

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	Unit	Man-Hrs	Material	Labor	Total
09720.01 WALL COVERING (Cont.)					
Over pipes and irregular shapes					
Heavyweight, 34 oz.	SF	0.020	2.97	1.70	4.67
Cork wall covering					
1' x 1' squares					
1/4" thick	SF	0.020	6.09	1.70	7.79
1/2" thick	SF	0.020	7.74	1.70	9.44
3/4" thick	SF	0.020	8.72	1.70	10.42
Wall fabrics					
Natural fabrics, grass cloths					
Minimum	SF	0.012	1.77	1.05	2.82
Average	SF	0.013	1.97	1.13	3.10
Maximum	SF	0.016	6.60	1.36	7.96
Flexible gypsum coated wall fabric, fire resistant	SF	0.008	1.99	0.68	2.67
Vinyl corner guards					
3/4" x 3/4" x 8'	EA	0.100	9.35	8.53	17.88
2-3/4" x 2-3/4" x 4'	EA	0.100	5.52	8.53	14.05
09910.01 PAINTING PREPARATION					
PAINTING PREPARATION					
Dropcloths					
Minimum	SF	0.001	0.17	0.04	0.21
Average	SF	0.001	0.19	0.05	0.24
Maximum	SF	0.001	0.39	0.07	0.46
Masking					
Paper and tape					
Minimum	LF	0.008	0.04	0.68	0.72
Average	LF	0.010	0.07	0.85	0.92
Maximum	LF	0.013	0.08	1.13	1.21
Doors					
Minimum	EA	0.100	0.05	8.53	8.58
Average	EA	0.133	0.07	11.25	11.32
Maximum	EA	0.178	0.08	15.25	15.33
Windows					
Minimum	EA	0.100	0.05	8.53	8.58
Average	EA	0.133	0.07	11.25	11.32
Maximum	EA	0.178	0.08	15.25	15.33
Sanding					
Walls and flat surfaces					
Minimum	SF	0.005		0.45	0.45
Average	SF	0.007		0.56	0.56
Maximum	SF	0.008		0.68	0.68
Doors and windows					
Minimum	EA	0.133		11.25	11.25
Average	EA	0.200		17.00	17.00
Maximum	EA	0.267		22.75	22.75
Trim					
Minimum	LF	0.010		0.85	0.85
Average	LF	0.013		1.13	1.13
Maximum	LF	0.018		1.51	1.51
Puttying					
Minimum	SF	0.012	0.02	1.05	1.07
Average	SF	0.016	0.03	1.36	1.39
Maximum	SF	0.020	0.05	1.70	1.75
09910.09 PAINT					
PAINT					
Paint, enamel					
600 sf per gal.	GAL				58.00
550 sf per gal.	GAL				54.00
500 sf per gal.	GAL				38.25
450 sf per gal.	GAL				35.75
350 sf per gal.	GAL				34.50
Filler, 60 sf per gal.	GAL				41.00
Latex, 400 sf per gal.	GAL				38.25

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	Unit	Man-Hrs	Material	Labor	Total
09910.09 PAINT (Cont.)					
Paint					
Aluminum					
400 sf per gal.	GAL				51.00
500 sf per gal.	GAL				82.00
Red lead, 350 sf per gal.	GAL				72.00
Primer					
400 sf per gal.	GAL				34.25
300 sf per gal.	GAL				34.50
Latex base, interior, white	GAL				38.25
Sealer and varnish					
400 sf per gal.	GAL				35.75
425 sf per gal.	GAL				51.00
600 sf per gal.	GAL				67.00
09911.30 EXT. PAINTING, SITEWORK					
EXT. PAINTING, SITEWORK					
Concrete Block					
Roller					
First Coat					
Minimum	SF	0.004	0.21	0.34	0.55
Average	SF	0.005	0.22	0.45	0.67
Maximum	SF	0.008	0.23	0.68	0.91
Second Coat					
Minimum	SF	0.003	0.21	0.28	0.49
Average	SF	0.004	0.22	0.37	0.59
Maximum	SF	0.007	0.23	0.56	0.79
Spray					
First Coat					
Minimum	SF	0.002	0.16	0.18	0.34
Average	SF	0.003	0.18	0.22	0.40
Maximum	SF	0.003	0.19	0.26	0.45
Second Coat					
Minimum	SF	0.001	0.16	0.12	0.28
Average	SF	0.002	0.18	0.15	0.33
Maximum	SF	0.003	0.19	0.21	0.40
Fences, Chain Link					
Roller					
First Coat					
Minimum	SF	0.006	0.14	0.48	0.62
Average	SF	0.007	0.15	0.56	0.71
Maximum	SF	0.008	0.16	0.65	0.81
Second Coat					
Minimum	SF	0.003	0.14	0.28	0.42
Average	SF	0.004	0.15	0.34	0.49
Maximum	SF	0.005	0.16	0.42	0.58
Spray					
First Coat					
Minimum	SF	0.003	0.11	0.21	0.32
Average	SF	0.003	0.12	0.24	0.36
Maximum	SF	0.003	0.14	0.28	0.42
Second Coat					
Minimum	SF	0.002	0.11	0.16	0.27
Average	SF	0.002	0.12	0.18	0.30
Maximum	SF	0.003	0.14	0.21	0.35
Fences, Wood or Masonry					
Brush					
First Coat					
Minimum	SF	0.008	0.21	0.71	0.92
Average	SF	0.010	0.22	0.85	1.07
Maximum	SF	0.013	0.23	1.13	1.36
Second Coat					
Minimum	SF	0.005	0.21	0.42	0.63
Average	SF	0.006	0.22	0.52	0.74
Maximum	SF	0.008	0.23	0.68	0.91

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	Unit	Man-Hrs	Material	Labor	Total
09911.30 EXT. PAINTING, SITEWORK (Cont.)					
Fences, Wood or Masonry					
Roller					
First Coat					
Minimum	SF	0.004	0.21	0.37	0.58
Average	SF	0.005	0.22	0.45	0.67
Maximum	SF	0.006	0.23	0.52	0.75
Second Coat					
Minimum	SF	0.003	0.21	0.26	0.47
Average	SF	0.004	0.22	0.32	0.54
Maximum	SF	0.005	0.23	0.42	0.65
Spray					
First Coat					
Minimum	SF	0.003	0.16	0.24	0.40
Average	SF	0.004	0.18	0.31	0.49
Maximum	SF	0.005	0.19	0.42	0.61
Second Coat					
Minimum	SF	0.002	0.16	0.17	0.33
Average	SF	0.003	0.18	0.21	0.39
Maximum	SF	0.003	0.19	0.28	0.47
09911.31 EXT. PAINTING, BUILDINGS					
EXT. PAINTING, BUILDINGS					
Decks, Wood, Stained					
Brush					
First Coat					
Minimum	SF	0.004	0.16	0.34	0.50
Average	SF	0.004	0.18	0.37	0.55
Maximum	SF	0.005	0.19	0.42	0.61
Second Coat					
Minimum	SF	0.003	0.16	0.24	0.40
Average	SF	0.003	0.18	0.26	0.44
Maximum	SF	0.003	0.19	0.28	0.47
Roller					
First Coat					
Minimum	SF	0.003	0.16	0.24	0.40
Average	SF	0.003	0.18	0.26	0.44
Maximum	SF	0.003	0.19	0.28	0.47
Second Coat					
Minimum	SF	0.003	0.16	0.21	0.37
Average	SF	0.003	0.18	0.22	0.40
Maximum	SF	0.003	0.19	0.26	0.45
Spray					
First Coat					
Minimum	SF	0.003	0.14	0.21	0.35
Average	SF	0.003	0.15	0.22	0.37
Maximum	SF	0.003	0.16	0.26	0.42
Second Coat					
Minimum	SF	0.002	0.14	0.18	0.32
Average	SF	0.002	0.15	0.20	0.35
Maximum	SF	0.003	0.16	0.22	0.38
Doors, Wood					
Brush					
First Coat					
Minimum	SF	0.012	0.16	1.05	1.21
Average	SF	0.016	0.18	1.36	1.54
Maximum	SF	0.020	0.19	1.70	1.89
Second Coat					
Minimum	SF	0.010	0.16	0.85	1.01
Average	SF	0.011	0.18	0.97	1.15
Maximum	SF	0.013	0.19	1.13	1.32
Roller					
First Coat					
Minimum	SF	0.005	0.16	0.45	0.61
Average	SF	0.007	0.18	0.56	0.74
Maximum	SF	0.010	0.19	0.85	1.04

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	Unit	Man-Hrs	Material	Labor	Total
09911.31 EXT. PAINTING, BUILDINGS (Cont.)					
Roller					
Second Coat					
Minimum	SF	0.004	0.16	0.34	0.50
Average	SF	0.004	0.18	0.37	0.55
Maximum	SF	0.007	0.19	0.56	0.75
Spray					
First Coat					
Minimum	SF	0.003	0.14	0.21	0.35
Average	SF	0.003	0.15	0.26	0.41
Maximum	SF	0.004	0.16	0.34	0.50
Second Coat					
Minimum	SF	0.002	0.14	0.17	0.31
Average	SF	0.002	0.15	0.19	0.34
Maximum	SF	0.003	0.16	0.22	0.38
Gutters and Downspouts					
Brush					
First Coat					
Minimum	LF	0.010	0.21	0.85	1.06
Average	LF	0.011	0.22	0.97	1.19
Maximum	LF	0.013	0.23	1.13	1.36
Second Coat					
Minimum	LF	0.007	0.21	0.56	0.77
Average	LF	0.008	0.22	0.68	0.90
Maximum	LF	0.010	0.23	0.85	1.08
Siding, Wood					
Roller					
First Coat					
Minimum	SF	0.003	0.14	0.24	0.38
Average	SF	0.003	0.15	0.28	0.43
Maximum	SF	0.004	0.16	0.31	0.47
Second Coat					
Minimum	SF	0.003	0.14	0.28	0.42
Average	SF	0.004	0.15	0.31	0.46
Maximum	SF	0.004	0.16	0.34	0.50
Spray					
First Coat					
Minimum	SF	0.003	0.14	0.22	0.36
Average	SF	0.003	0.15	0.24	0.39
Maximum	SF	0.003	0.16	0.26	0.42
Second Coat					
Minimum	SF	0.002	0.14	0.17	0.31
Average	SF	0.003	0.15	0.22	0.37
Maximum	SF	0.004	0.16	0.34	0.50
Stucco					
Roller					
First Coat					
Minimum	SF	0.004	0.21	0.31	0.52
Average	SF	0.004	0.22	0.35	0.57
Maximum	SF	0.005	0.23	0.42	0.65
Second Coat					
Minimum	SF	0.003	0.21	0.25	0.46
Average	SF	0.003	0.22	0.29	0.51
Maximum	SF	0.004	0.23	0.34	0.57
Spray					
First Coat					
Minimum	SF	0.003	0.16	0.21	0.37
Average	SF	0.003	0.18	0.24	0.42
Maximum	SF	0.003	0.19	0.28	0.47
Second Coat					
Minimum	SF	0.002	0.16	0.17	0.33
Average	SF	0.002	0.18	0.19	0.37
Maximum	SF	0.003	0.19	0.22	0.41

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	Unit	Man-Hrs	Material	Labor	Total
09911.31 EXT. PAINTING, BUILDINGS (Cont.)					
Trim					
Brush					
First Coat					
Minimum	LF	0.003	0.21	0.28	0.49
Average	LF	0.004	0.22	0.34	0.56
Maximum	LF	0.005	0.23	0.42	0.65
Second Coat					
Minimum	LF	0.003	0.21	0.21	0.42
Average	LF	0.003	0.22	0.28	0.50
Maximum	LF	0.005	0.23	0.42	0.65
Walls					
Roller					
First Coat					
Minimum	SF	0.003	0.16	0.24	0.40
Average	SF	0.003	0.18	0.25	0.43
Maximum	SF	0.003	0.19	0.27	0.46
Second Coat					
Minimum	SF	0.003	0.16	0.21	0.37
Average	SF	0.003	0.18	0.22	0.40
Maximum	SF	0.003	0.19	0.26	0.45
Spray					
First Coat					
Minimum	SF	0.001	0.12	0.10	0.22
Average	SF	0.002	0.14	0.13	0.27
Maximum	SF	0.002	0.15	0.17	0.32
Second Coat					
Minimum	SF	0.001	0.12	0.09	0.21
Average	SF	0.001	0.14	0.11	0.25
Maximum	SF	0.002	0.15	0.15	0.30
Windows					
Brush					
First Coat					
Minimum	SF	0.013	0.14	1.13	1.27
Average	SF	0.016	0.15	1.36	1.51
Maximum	SF	0.020	0.16	1.70	1.86
Second Coat					
Minimum	SF	0.011	0.14	0.97	1.11
Average	SF	0.013	0.15	1.13	1.28
Maximum	SF	0.016	0.16	1.36	1.52
09911.32 EXT. PAINTING, MISC.					
EXT. PAINTING, MISC.					
Shakes					
Spray					
First Coat					
Minimum	SF	0.003	0.15	0.28	0.43
Average	SF	0.004	0.16	0.31	0.47
Maximum	SF	0.004	0.18	0.34	0.52
Second Coat					
Minimum	SF	0.003	0.15	0.26	0.41
Average	SF	0.003	0.16	0.28	0.44
Maximum	SF	0.004	0.18	0.31	0.49
Shingles, Wood					
Roller					
First Coat					
Minimum	SF	0.004	0.16	0.37	0.53
Average	SF	0.005	0.18	0.42	0.60
Maximum	SF	0.006	0.19	0.48	0.67
Second Coat					
Minimum	SF	0.003	0.16	0.26	0.42
Average	SF	0.003	0.18	0.28	0.46
Maximum	SF	0.004	0.19	0.31	0.50

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	Unit	Man-Hrs	Material	Labor	Total
09911.32 EXT. PAINTING, MISC. (Cont.)					
Shingles, Wood					
Spray					
First Coat					
Minimum	LF	0.003	0.14	0.26	0.40
Average	LF	0.003	0.15	0.28	0.43
Maximum	LF	0.004	0.16	0.31	0.47
Second Coat					
Minimum	LF	0.002	0.14	0.20	0.34
Average	LF	0.003	0.15	0.21	0.36
Maximum	LF	0.003	0.16	0.22	0.38
Shutters and Louvers					
Brush					
First Coat					
Minimum	EA	0.160	0.21	13.75	13.96
Average	EA	0.200	0.22	17.00	17.22
Maximum	EA	0.267	0.23	22.75	22.98
Second Coat					
Minimum	EA	0.100	0.21	8.53	8.74
Average	EA	0.123	0.22	10.50	10.72
Maximum	EA	0.160	0.23	13.75	13.98
Spray					
First Coat					
Minimum	EA	0.053	0.15	4.55	4.70
Average	EA	0.064	0.16	5.46	5.62
Maximum	EA	0.080	0.18	6.82	7.00
Second Coat					
Minimum	EA	0.040	0.15	3.41	3.56
Average	EA	0.053	0.16	4.55	4.71
Maximum	EA	0.064	0.18	5.46	5.64
Stairs, metal					
Brush					
First Coat					
Minimum	SF	0.009	0.21	0.75	0.96
Average	SF	0.010	0.22	0.85	1.07
Maximum	SF	0.011	0.23	0.97	1.20
Second Coat					
Minimum	SF	0.005	0.21	0.42	0.63
Average	SF	0.006	0.22	0.48	0.70
Maximum	SF	0.007	0.23	0.56	0.79
Spray					
First Coat					
Minimum	SF	0.004	0.15	0.37	0.52
Average	SF	0.006	0.16	0.48	0.64
Maximum	SF	0.006	0.18	0.52	0.70
Second Coat					
Minimum	SF	0.003	0.15	0.28	0.43
Average	SF	0.004	0.16	0.34	0.50
Maximum	SF	0.005	0.18	0.42	0.60
09912.33 INT. PAINTING, BUILDINGS					
INT. PAINTING, BUILDINGS					
Acoustical Ceiling					
Roller					
First Coat					
Minimum	SF	0.005	0.21	0.42	0.63
Average	SF	0.007	0.22	0.56	0.78
Maximum	SF	0.010	0.23	0.85	1.08
Second Coat					
Minimum	SF	0.004	0.21	0.34	0.55
Average	SF	0.005	0.22	0.42	0.64
Maximum	SF	0.007	0.23	0.56	0.79
Spray					
First Coat					
Minimum	SF	0.002	0.16	0.18	0.34
Average	SF	0.003	0.18	0.22	0.40

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09912.33 INT. PAINTING, BUILDINGS (Cont.)

	Unit	Man-Hrs	Material	Labor	Total
First Coat					
Maximum	SF	0.003	0.19	0.28	0.47
Second Coat					
Minimum	SF	0.002	0.16	0.15	0.31
Average	SF	0.002	0.18	0.17	0.35
Maximum	SF	0.002	0.19	0.19	0.38
Cabinets and Casework					
Brush					
First Coat					
Minimum	SF	0.008	0.21	0.68	0.89
Average	SF	0.009	0.22	0.75	0.97
Maximum	SF	0.010	0.23	0.85	1.08
Second Coat					
Minimum	SF	0.007	0.21	0.56	0.77
Average	SF	0.007	0.22	0.62	0.84
Maximum	SF	0.008	0.23	0.68	0.91
Spray					
First Coat					
Minimum	SF	0.004	0.16	0.34	0.50
Average	SF	0.005	0.18	0.40	0.58
Maximum	SF	0.006	0.19	0.48	0.67
Second Coat					
Minimum	SF	0.003	0.16	0.27	0.43
Average	SF	0.003	0.18	0.29	0.47
Maximum	SF	0.004	0.19	0.37	0.56
Ceilings					
Roller					
First Coat					
Minimum	SF	0.003	0.16	0.28	0.44
Average	SF	0.004	0.18	0.31	0.49
Maximum	SF	0.004	0.19	0.34	0.53
Second Coat					
Minimum	SF	0.003	0.16	0.22	0.38
Average	SF	0.003	0.18	0.26	0.44
Maximum	SF	0.003	0.19	0.28	0.47
Spray					
First Coat					
Minimum	SF	0.002	0.14	0.17	0.31
Average	SF	0.002	0.15	0.18	0.33
Maximum	SF	0.003	0.16	0.21	0.37
Second Coat					
Minimum	SF	0.002	0.14	0.13	0.27
Average	SF	0.002	0.15	0.14	0.29
Maximum	SF	0.002	0.16	0.17	0.33
Doors, Wood					
Brush					
First Coat					
Minimum	SF	0.011	0.21	0.97	1.18
Average	SF	0.015	0.22	1.24	1.46
Maximum	SF	0.018	0.23	1.51	1.74
Second Coat					
Minimum	SF	0.009	0.15	0.75	0.90
Average	SF	0.010	0.16	0.85	1.01
Maximum	SF	0.011	0.18	0.97	1.15
Spray					
First Coat					
Minimum	SF	0.002	0.15	0.20	0.35
Average	SF	0.003	0.16	0.24	0.40
Maximum	SF	0.004	0.18	0.31	0.49
Second Coat					
Minimum	SF	0.002	0.15	0.16	0.31
Average	SF	0.002	0.16	0.18	0.34
Maximum	SF	0.003	0.18	0.21	0.39

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09912.33 INT. PAINTING, BUILDINGS (Cont.)

	Unit	Man-Hrs	Material	Labor	Total
Trim					
Brush					
First Coat					
Minimum	LF	0.003	0.21	0.27	0.48
Average	LF	0.004	0.22	0.31	0.53
Maximum	LF	0.004	0.23	0.37	0.60
Second Coat					
Minimum	LF	0.002	0.21	0.20	0.41
Average	LF	0.003	0.22	0.26	0.48
Maximum	LF	0.004	0.23	0.37	0.60
Walls					
Roller					
First Coat					
Minimum	SF	0.003	0.16	0.24	0.40
Average	SF	0.003	0.18	0.25	0.43
Maximum	SF	0.003	0.19	0.28	0.47
Second Coat					
Minimum	SF	0.003	0.16	0.21	0.37
Average	SF	0.003	0.18	0.22	0.40
Maximum	SF	0.003	0.19	0.26	0.45
Spray					
First Coat					
Minimum	SF	0.001	0.14	0.10	0.24
Average	SF	0.002	0.15	0.13	0.28
Maximum	SF	0.002	0.16	0.17	0.33
Second Coat					
Minimum	SF	0.001	0.14	0.09	0.23
Average	SF	0.001	0.15	0.11	0.26
Maximum	SF	0.002	0.16	0.15	0.31

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	Unit	Man-Hrs	Material	Labor	Total
10211.60 SHOWER STALLS					
SHOWER STALLS					
Shower receptors					
Precast, terrazzo					
32" x 32"	EA	0.667	850.00	75.00	925.00
32" x 48"	EA	0.800	900.00	90.00	990.00
Concrete					
32" x 32"	EA	0.667	350.00	75.00	425.00
48" x 48"	EA	0.889	390.00	100.00	490.00
Shower door, trim and hardware					
Economy, 24" wide, chrome, tempered glass	EA	0.800	380.00	90.00	470.00
Porcelain enameled steel, flush	EA	0.800	700.00	90.00	790.00
Baked enameled steel, flush	EA	0.800	410.00	90.00	500.00
Aluminum, tempered glass, 48" wide, sliding	EA	1.000	860.00	110.00	970.00
Folding	EA	1.000	830.00	110.00	940.00
Aluminum and tempered glass, molded plastic					
Complete with receptor and door					
32" x 32"	EA	2.000	1,050.00	220.00	1,270.00
36" x 36"	EA	2.000	1,180.00	220.00	1,400.00
40" x 40"	EA	2.286	1,230.00	260.00	1,490.00
10281.60 BATH ACCESSORIES					
BATH ACCESSORIES					
Grab bar, 1-1/2" dia., stainless steel, wall mounted					
24" long	EA	0.400	91.00	41.00	132.00
36" long	EA	0.421	100.00	43.00	143.00
1" dia., stainless steel					
12" long	EA	0.348	57.00	35.50	92.50
24" long	EA	0.400	77.00	41.00	118.00
36" long	EA	0.444	100.00	45.50	145.50
Medicine cabinet, 16 x 22, baked enamel, lighted	EA	0.320	260.00	32.75	292.75
With mirror, lighted	EA	0.533	380.00	55.00	435.00
Mirror, 1/4" plate glass, up to 10 sf	SF	0.080	20.00	8.18	28.18
Mirror, stainless steel frame					
18"x24"	EA	0.267	150.00	27.25	177.25
18"x32"	EA	0.320	180.00	32.75	212.75
24"x30"	EA	0.400	190.00	41.00	231.00
24"x60"	EA	0.800	700.00	82.00	782.00
Soap dish, stainless steel, wall mounted	EA	0.533	260.00	55.00	315.00
Soap dispenser, commercial					0.00
Minimum	EA	0.800	55.00	82.00	137.00
Average	EA	0.800	83.00	82.00	165.00
Maximum	EA	0.800	160.00	82.00	242.00
Toilet tissue dispenser, stainless, wall mounted					
Single roll	EA	0.200	130.00	20.50	150.50
Towel bar, stainless steel					
18" long	EA	0.320	160.00	32.75	192.75
24" long	EA	0.364	220.00	37.25	257.25
30" long	EA	0.400	220.00	41.00	261.00
36" long	EA	0.444	240.00	45.50	285.50
Toothbrush and tumbler holder	EA	0.267	99.00	27.25	126.25
10750.01 FLAGPOLES					
FLAGPOLES					
Installed in concrete base					
Fiberglass					
25' high	EA	5.333	2,210.00	550.00	2,760.00
50' high	EA	13.333	5,840.00	1,360.00	7,200.00
Aluminum					
25' high	EA	5.333	2,140.00	550.00	2,690.00
50' high	EA	13.333	4,240.00	1,360.00	5,600.00
Bonderized steel					
25' high	EA	6.154	2,400.00	630.00	3,030.00
50' high	EA	16.000	4,800.00	1,640.00	6,440.00
Freestanding tapered, fiberglass					
30' high	EA	5.714	2,630.00	580.00	3,210.00
40' high	EA	7.273	3,410.00	740.00	4,150.00

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	Unit	Man-Hrs	Material	Labor	Total
10810.01 PEST CONTROL					
PEST CONTROL					
Termite control					
Under slab spraying					
Minimum	SF	0.002	1.31	0.16	1.47
Average	SF	0.004	1.31	0.32	1.63
Maximum	SF	0.008	1.87	0.64	2.51

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	Unit	Man-Hrs	Material	Labor	Total
11160.01 VAULTS					
VAULTS					
Floor safes					
1.0 cf	EA	0.667	1,300.00	68.00	1,368.00
1.3 cf	EA	1.000	1,440.00	100.00	1,540.00
11240.01 MAINTENANCE EQUIPMENT					
MAINTENANCE EQUIPMENT					
Vacuum cleaning system					
3 valves					
1.5 hp	EA	8.889	1,180.00	910.00	2,090.00
2.5 hp	EA	11.429	1,420.00	1,170.00	2,590.00
5 valves	EA	16.000	2,220.00	1,640.00	3,860.00
7 valves	EA	20.000	2,950.00	2,050.00	5,000.00
11310.01 RESIDENTIAL EQUIPMENT					
RESIDENTIAL EQUIPMENT					
Clothes Dryer					
Minimum	EA	2.667	280.00	210.00	490.00
Maximum	EA	2.667	830.00	210.00	1,040.00
Clothes Washer					
Minimum	EA	2.667	600.00	210.00	810.00
Maximum	EA	2.667	1,040.00	210.00	1,250.00
Compactor, 4 to 1 compaction	EA	2.000	2,350.00	210.00	2,560.00
Dishwasher, built-in					
2 cycles	EA	4.000	1,160.00	420.00	1,580.00
4 or more cycles	EA	4.000	3,120.00	420.00	3,540.00
Disposal					
Garbage disposer	EA	2.667	320.00	280.00	600.00
Heaters, electric, built-in					
Ceiling type	EA	2.667	660.00	280.00	940.00
Wall type					
Minimum	EA	2.000	330.00	210.00	540.00
Maximum	EA	2.667	1,150.00	280.00	1,430.00
Hood for range, 2-speed, vented					
30" wide	EA	2.667	910.00	280.00	1,190.00
42" wide	EA	2.667	1,680.00	280.00	1,960.00
Ice maker, automatic					
30 lb per day	EA	1.143	3,080.00	120.00	3,200.00
50 lb per day	EA	4.000	3,900.00	420.00	4,320.00
Folding access stairs, disappearing metal stair					
8' long	EA	1.143	1,610.00	120.00	1,730.00
11' long	EA	1.143	1,680.00	120.00	1,800.00
12' long	EA	1.143	1,790.00	120.00	1,910.00
Wood frame, wood stair					
22" x 54" x 8'9" long	EA	0.800	310.00	83.00	393.00
25" x 54" x 10' long	EA	0.800	380.00	83.00	463.00
Microwave, built-in					
Minimum	EA	2.000	690.00	210.00	900.00
Maximum	EA	2.667	5,390.00	280.00	5,670.00
Ranges, electric					
Built-in, 30", 1 oven	EA	2.667	3,370.00	280.00	3,650.00
2 oven	EA	2.667	3,900.00	280.00	4,180.00
Countertop, 4 burner, standard	EA	2.000	1,950.00	210.00	2,160.00
With grill	EA	2.000	4,870.00	210.00	5,080.00
Freestanding, 21", 1 oven	EA	2.667	1,760.00	280.00	2,040.00
30", 1 oven	EA	1.600	3,410.00	170.00	3,580.00
2 oven	EA	1.600	5,560.00	170.00	5,730.00
Refrigerator/freezer, free-standing					
Minimum	EA	2.000	830.00	160.00	990.00
Maximum	EA	2.667	4,840.00	210.00	5,050.00
Water softener					
30 grains per gallon	EA	2.667	1,910.00	280.00	2,190.00
70 grains per gallon	EA	4.000	2,400.00	420.00	2,820.00

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11682.30 RECREATIONAL COURTS

	Unit	Man-Hrs	Material	Labor	Total
RECREATIONAL COURTS					
Walls, galvanized steel					
8' high	LF	0.160	17.50	12.75	30.25
10' high	LF	0.178	20.75	14.25	35.00
12' high	LF	0.211	23.75	16.75	40.50
Vinyl coated					
8' high	LF	0.160	16.75	12.75	29.50
10' high	LF	0.178	20.50	14.25	34.75
12' high	LF	0.211	23.00	16.75	39.75
Gates, galvanized steel					
Single, 3' transom					
3'x7'	EA	4.000	510.00	320.00	830.00
4'x7'	EA	4.571	540.00	370.00	910.00
5'x7'	EA	5.333	740.00	430.00	1,170.00
6'x7'	EA	6.400	800.00	510.00	1,310.00
Vinyl coated					
Single, 3' transom					
3'x7'	EA	4.000	990.00	320.00	1,310.00
4'x7'	EA	4.571	1,080.00	370.00	1,450.00
5'x7'	EA	5.333	1,080.00	430.00	1,510.00
6'x7'	EA	6.400	1,110.00	510.00	1,620.00

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	Unit	Man-Hrs	Material	Labor	Total
12210.01 BLINDS					
BLINDS					
Venetian blinds					
2" slats	SF	0.020	48.25	2.04	50.29
1" slats	SF	0.020	52.00	2.04	54.04
12210.02 SHADES					
SHADES					
Standard window shades, light filtering					
Minimum	SF	0.013	7.70	1.36	9.06
Average	SF	0.016	11.00	1.63	12.63
Maximum	SF	0.023	24.25	2.33	26.58
12220.01 WINDOW TREATMENT					
WINDOW TREATMENT					
Drapery tracks, wall or ceiling mounted					
Basic traverse rod					
50 to 90"	EA	0.400	64.00	41.00	105.00
84 to 156"	EA	0.444	85.00	45.50	130.50
136 to 250"	EA	0.444	120.00	45.50	165.50
165 to 312"	EA	0.500	190.00	51.00	241.00
Traverse rod with stationary curtain rod					
30 to 50"	EA	0.400	96.00	41.00	137.00
50 to 90"	EA	0.400	110.00	41.00	151.00
84 to 156"	EA	0.444	150.00	45.50	195.50
136 to 250"	EA	0.500	190.00	51.00	241.00
Double traverse rod					
30 to 50"	EA	0.400	110.00	41.00	151.00
50 to 84"	EA	0.400	140.00	41.00	181.00
84 to 156"	EA	0.444	150.00	45.50	195.50
136 to 250"	EA	0.500	200.00	51.00	251.00
12320.01 CASEWORK					
CASEWORK					
Kitchen base cabinet, standard, 24" deep, 35" high					
12" wide	EA	0.800	250.00	82.00	332.00
18" wide	EA	0.800	290.00	82.00	372.00
24" wide	EA	0.889	370.00	91.00	461.00
27" wide	EA	0.889	420.00	91.00	511.00
36" wide	EA	1.000	500.00	100.00	600.00
48" wide	EA	1.000	600.00	100.00	700.00
Drawer base, 24" deep, 35" high					
15" wide	EA	0.800	310.00	82.00	392.00
18" wide	EA	0.800	330.00	82.00	412.00
24" wide	EA	0.889	540.00	91.00	631.00
27" wide	EA	0.889	610.00	91.00	701.00
30" wide	EA	0.889	710.00	91.00	801.00
Sink-ready base cabinet					
30" wide	EA	0.889	330.00	91.00	421.00
36" wide	EA	0.889	350.00	91.00	441.00
42" wide	EA	0.889	380.00	91.00	471.00
60" wide	EA	1.000	450.00	100.00	550.00
Corner cabinet, 36" wide	EA	1.000	630.00	100.00	730.00
Wall cabinet, 12" deep, 12" high					
30" wide	EA	0.800	320.00	82.00	402.00
36" wide	EA	0.800	330.00	82.00	412.00
15" high					
30" wide	EA	0.889	370.00	91.00	461.00
36" wide	EA	0.889	560.00	91.00	651.00
24" high					
30" wide	EA	0.889	410.00	91.00	501.00
36" wide	EA	0.889	430.00	91.00	521.00
30" high					
12" wide	EA	1.000	240.00	100.00	340.00
18" wide	EA	1.000	270.00	100.00	370.00
24" wide	EA	1.000	290.00	100.00	390.00
27" wide	EA	1.000	350.00	100.00	450.00

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	Unit	Man-Hrs	Material	Labor	Total
12320.01 CASEWORK (Cont.)					
30" high					
30" wide	EA	1.143	390.00	120.00	510.00
36" wide	EA	1.143	400.00	120.00	520.00
Corner cabinet, 30" high					
24" wide	EA	1.333	440.00	140.00	580.00
30" wide	EA	1.333	530.00	140.00	670.00
36" wide	EA	1.333	580.00	140.00	720.00
Wardrobe	EA	2.000	1,160.00	200.00	1,360.00
Vanity with top, laminated plastic					
24" wide	EA	2.000	960.00	200.00	1,160.00
30" wide	EA	2.000	1,070.00	200.00	1,270.00
36" wide	EA	2.667	1,240.00	270.00	1,510.00
48" wide	EA	3.200	1,380.00	330.00	1,710.00
Cabinet hardware					
Handles					
Minimum	EA	0.133	3.30	13.75	17.05
Average	EA	0.160	4.40	16.25	20.65
Maximum	EA	0.200	8.80	20.50	29.30
Pulls/knobs					
Minimum	EA	0.080	2.20	8.18	10.38
Average	EA	0.089	3.30	9.08	12.38
Maximum	EA	0.107	6.60	11.00	17.60
12360.01 COUNTERTOPS					
COUNTERTOPS					
Stainless steel, countertop, with backsplash	SF	0.200	290.00	20.50	310.50
Acid-proof, kemrock surface	SF	0.133	120.00	13.75	133.75
Stone countertop, installed complete					
Minimum	SF				77.00
Average	SF				99.00
Maximum	SF				130.00
Add for backsplash	SF				150.00
Add for cutouts	EA				330.00

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	Unit	Man-Hrs	Material	Labor	Total
13341.90 PRE-ENGINEERED BUILDINGS					
PRE-ENGINEERED BUILDINGS					
Pre-engineered metal building, 40'x100'					
14' eave height	SF	0.032	11.75	7.07	18.82
16' eave height	SF	0.037	13.50	8.16	21.66

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	Unit	Man-Hrs	Material	Labor	Total
14410.01 PERSONNEL LIFTS					
PERSONNEL LIFTS					
Electrically operated, 1 or 2 person lift					
With attached foot platforms					
3 stops	EA				13,750.00
Residential stair climber, per story	EA	6.667	6,380.00	690.00	7,070.00

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	Unit	Man-Hrs	Material	Labor	Total
21111.60 HYDRANTS					
HYDRANTS					
Wall hydrant					
8" thick	EA	1.333	400.00	150.00	550.00
12" thick	EA	1.600	470.00	180.00	650.00

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22052.36 VALVES

	Unit	Man-Hrs	Material	Labor	Total
VALVES					
Gate valve, 125 lb, bronze, soldered					
1/2"	EA	0.200	43.75	22.50	66.25
3/4"	EA	0.200	52.00	22.50	74.50
Threaded					
1/4", 125 lb	EA	0.320	37.50	35.75	73.25
1/2"					
125 lb	EA	0.320	35.75	35.75	71.50
150 lb	EA	0.320	48.00	35.75	83.75
300 lb	EA	0.320	90.00	35.75	125.75
3/4"					
125 lb	EA	0.320	42.00	35.75	77.75
150 lb	EA	0.320	57.00	35.75	92.75
300 lb	EA	0.320	110.00	35.75	145.75
Check valve, bronze, soldered, 125 lb					
1/2"	EA	0.200	65.00	22.50	87.50
3/4"	EA	0.200	81.00	22.50	103.50
Threaded					
1/2"					
125 lb	EA	0.267	76.00	30.00	106.00
150 lb	EA	0.267	70.00	30.00	100.00
200 lb	EA	0.267	73.00	30.00	103.00
3/4"					
125 lb	EA	0.320	56.00	35.75	91.75
150 lb	EA	0.320	88.00	35.75	123.75
200 lb	EA	0.320	97.00	35.75	132.75
Vertical check valve, bronze, 125 lb, threaded					
1/2"	EA	0.320	86.00	35.75	121.75
3/4"	EA	0.364	130.00	40.75	170.75
Globe valve, bronze, soldered, 125 lb					
1/2"	EA	0.229	96.00	25.50	121.50
3/4"	EA	0.250	120.00	28.00	148.00
Threaded					
1/2"					
125 lb	EA	0.267	77.00	30.00	107.00
150 lb	EA	0.267	100.00	30.00	130.00
300 lb	EA	0.267	190.00	30.00	220.00
3/4"					
125 lb	EA	0.320	110.00	35.75	145.75
150 lb	EA	0.320	120.00	35.75	155.75
300 lb	EA	0.320	230.00	35.75	265.75
Ball valve, bronze, 250 lb, threaded					
1/2"	EA	0.320	20.50	35.75	56.25
3/4"	EA	0.320	30.50	35.75	66.25
Angle valve, bronze, 150 lb, threaded					
1/2"	EA	0.286	100.00	32.00	132.00
3/4"	EA	0.320	140.00	35.75	175.75
Balancing valve, meter connections, circuit setter					
1/2"	EA	0.320	99.00	35.75	134.75
3/4"	EA	0.364	100.00	40.75	140.75
Balancing valve, straight type					
1/2"	EA	0.320	48.25	35.75	84.00
3/4"	EA	0.320	59.00	35.75	94.75
Angle type					
1/2"	EA	0.320	65.00	35.75	100.75
3/4"	EA	0.320	91.00	35.75	126.75
Square head cock, 125 lb, bronze body					
1/2"	EA	0.267	21.25	30.00	51.25
3/4"	EA	0.320	25.50	35.75	61.25
Radiator temp control valve, with control and sensor					
1/2" valve	EA	0.500	150.00	56.00	206.00
Pressure relief valve, 1/2", bronze					
Low pressure	EA	0.320	34.00	35.75	69.75

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	Unit	Man-Hrs	Material	Labor	Total
22052.36 VALVES (Cont.)					
Pressure relief valve, 1/2", bronze					
High pressure	EA	0.320	39.50	35.75	75.25
Pressure and temperature relief valve					
Bronze, 3/4"	EA	0.320	180.00	35.75	215.75
Cast iron, 3/4"					
High pressure	EA	0.320	88.00	35.75	123.75
Temperature relief	EA	0.320	120.00	35.75	155.75
Pressure & temp relief valve	EA	0.320	140.00	35.75	175.75
Pressure reducing valve, bronze, threaded, 250 lb					
1/2"	EA	0.500	200.00	56.00	256.00
3/4"	EA	0.500	200.00	56.00	256.00
Solar water temperature regulating valve					
3/4"	EA	0.667	770.00	75.00	845.00
Tempering valve, threaded					
3/4"	EA	0.267	470.00	30.00	500.00
Thermostatic mixing valve, threaded					
1/2"	EA	0.286	130.00	32.00	162.00
3/4"	EA	0.320	130.00	35.75	165.75
Sweat connection					
1/2"	EA	0.286	110.00	32.00	142.00
3/4"	EA	0.320	140.00	35.75	175.75
Mixing valve, sweat connection					
1/2"	EA	0.286	79.00	32.00	111.00
3/4"	EA	0.320	79.00	35.75	114.75
Liquid level gauge, aluminum body					
3/4"	EA	0.320	400.00	35.75	435.75
125 psi, PVC body					
3/4"	EA	0.320	470.00	35.75	505.75
150 psi, CRS body					
3/4"	EA	0.320	380.00	35.75	415.75
175 psi, bronze body, 1/2"	EA	0.286	760.00	32.00	792.00
22062.91 PIPE HANGERS, LIGHT					
PIPE HANGERS, LIGHT					
A band, black iron					
1/2"	EA	0.057	1.03	6.40	7.43
1"	EA	0.059	1.11	6.64	7.75
1-1/4"	EA	0.062	1.23	6.89	8.12
1-1/2"	EA	0.067	1.28	7.47	8.75
2"	EA	0.073	1.36	8.15	9.51
2-1/2"	EA	0.080	2.03	8.96	10.99
3"	EA	0.089	2.48	9.96	12.44
4"	EA	0.100	3.26	11.25	14.51
Copper					
1/2"	EA	0.057	1.67	6.40	8.07
3/4"	EA	0.059	1.94	6.64	8.58
1"	EA	0.059	1.94	6.64	8.58
1-1/4"	EA	0.062	2.09	6.89	8.98
1-1/2"	EA	0.067	2.24	7.47	9.71
2"	EA	0.073	2.37	8.15	10.52
2-1/2"	EA	0.080	4.79	8.96	13.75
3"	EA	0.089	4.99	9.96	14.95
4"	EA	0.100	5.51	11.25	16.76
2 hole clips, galvanized					
3/4"	EA	0.053	0.27	5.97	6.24
1"	EA	0.055	0.33	6.18	6.51
1-1/4"	EA	0.057	0.43	6.40	6.83
1-1/2"	EA	0.059	0.53	6.64	7.17
2"	EA	0.062	0.70	6.89	7.59
2-1/2"	EA	0.064	1.25	7.17	8.42
3"	EA	0.067	1.66	7.47	9.13
4"	EA	0.073	3.56	8.15	11.71

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	Unit	Man-Hrs	Material	Labor	Total
22062.91 PIPE HANGERS, LIGHT (Cont.)					
Perforated strap					
3/4"					
Galvanized, 20 ga.	LF	0.040	0.44	4.48	4.92
Copper, 22 ga.	LF	0.040	2.20	4.48	6.68
J-Hooks					
1/2"	EA	0.036	0.87	4.07	4.94
3/4"	EA	0.036	0.93	4.07	5.00
1"	EA	0.038	0.95	4.27	5.22
1-1/4"	EA	0.039	1.00	4.37	5.37
1-1/2"	EA	0.040	1.02	4.48	5.50
2"	EA	0.040	1.07	4.48	5.55
3"	EA	0.042	1.23	4.72	5.95
4"	EA	0.042	1.33	4.72	6.05
PVC coated hangers, galvanized, 28 ga.					
1-1/2" x 12"	EA	0.053	1.86	5.97	7.83
2" x 12"	EA	0.057	2.04	6.40	8.44
3" x 12"	EA	0.062	2.28	6.89	9.17
4" x 12"	EA	0.067	2.53	7.47	10.00
Copper, 30 ga.					
1-1/2" x 12"	EA	0.053	2.28	5.97	8.25
2" x 12"	EA	0.057	2.71	6.40	9.11
3" x 12"	EA	0.062	3.01	6.89	9.90
4" x 12"	EA	0.067	3.30	7.47	10.77
Wire hook hangers					
Black wire, 1/2" x					
4"	EA	0.040	0.44	4.48	4.92
6"	EA	0.042	0.50	4.72	5.22
Copper wire hooks					
1/2" x					
4"	EA	0.040	0.58	4.48	5.06
6"	EA	0.042	0.66	4.72	5.38
22064.81 VIBRATION CONTROL					
VIBRATION CONTROL					
Vibration isolator, in-line, stainless connector					
1/2"	EA	0.444	100.00	49.75	149.75
3/4"	EA	0.471	120.00	53.00	173.00
1"	EA	0.500	120.00	56.00	176.00
1-1/4"	EA	0.533	170.00	60.00	230.00
1-1/2"	EA	0.571	190.00	64.00	254.00
2"	EA	0.615	230.00	69.00	299.00
2-1/2"	EA	0.667	340.00	75.00	415.00
3"	EA	0.727	400.00	82.00	482.00
4"	EA	0.800	510.00	90.00	600.00
22069.31 SPECIALTIES					
SPECIALTIES					
Wall penetration					
Concrete wall, 6" thick					
2" dia.	EA	0.267		21.25	21.25
4" dia.	EA	0.400		32.00	32.00
12" thick					
2" dia.	EA	0.364		29.00	29.00
4" dia.	EA	0.571		45.75	45.75
22111.61 COPPER PIPE					
COPPER PIPE					
Type K copper					
1/4"	LF	0.024	2.12	2.63	4.75
3/8"	LF	0.024	3.25	2.63	5.88
1/2"	LF	0.025	3.77	2.80	6.57
3/4"	LF	0.027	7.03	2.98	10.01
1"	LF	0.029	9.20	3.20	12.40
3-1/2"	LF	0.043	61.00	4.84	65.84
DWV, copper					
1-1/4"	LF	0.033	10.25	3.73	13.98
1-1/2"	LF	0.036	13.00	4.07	17.07

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	Unit	Man-Hrs	Material	Labor	Total
22111.61 COPPER PIPE (Cont.)					
DWV, copper					
2"	LF	0.040	17.00	4.48	21.48
3"	LF	0.044	29.00	4.98	33.98
4"	LF	0.050	50.00	5.60	55.60
6"	LF	0.057	200.00	6.40	206.40
Refrigeration tubing, copper, sealed					
1/8"	LF	0.032	0.93	3.58	4.51
3/16"	LF	0.033	1.08	3.73	4.81
1/4"	LF	0.035	1.30	3.89	5.19
Type L copper					
1/4"	LF	0.024	1.67	2.63	4.30
3/8"	LF	0.024	2.56	2.63	5.19
1/2"	LF	0.025	2.98	2.80	5.78
3/4"	LF	0.027	4.76	2.98	7.74
1"	LF	0.029	7.16	3.20	10.36
Type M copper					
3/8"	LF	0.024	1.81	2.63	4.44
1/2"	LF	0.025	2.10	2.80	4.90
3/4"	LF	0.027	3.43	2.98	6.41
1"	LF	0.029	5.57	3.20	8.77
1-1/2"	LF	0.033	11.00	3.73	14.73
3-1/2"	LF	0.043	46.50	4.84	51.34
Type K tube, coil, material only					
1/4" x 60'	EA				150.00
1/2" x 60'	EA				310.00
1/2" x 100'	EA				510.00
3/4" x 60'	EA				570.00
3/4" x 100'	EA				950.00
1" x 60'	EA				740.00
1" x 100'	EA				1,240.00
Type L tube, coil					
1/4" x 60'	EA				120.00
3/8" x 60'	EA				190.00
1/2" x 60'	EA				250.00
1/2" x 100'	EA				420.00
3/4" x 60'	EA				400.00
3/4" x 100'	EA				670.00
1" x 60'	EA				580.00
1" x 100'	EA				970.00
22111.62 COPPER FITTINGS					
COPPER FITTINGS					
Coupling, with stop					
1/4"	EA	0.267	0.95	30.00	30.95
3/8"	EA	0.320	1.24	35.75	36.99
1/2"	EA	0.348	0.99	39.00	39.99
5/8"	EA	0.400	2.87	44.75	47.62
3/4"	EA	0.444	1.97	49.75	51.72
1"	EA	0.471	4.06	53.00	57.06
Reducing coupling					
1/4" x 1/8"	EA	0.320	2.54	35.75	38.29
3/8" x 1/4"	EA	0.348	2.79	39.00	41.79
1/2" x					
3/8"	EA	0.400	2.10	44.75	46.85
1/4"	EA	0.400	2.54	44.75	47.29
1/8"	EA	0.400	2.80	44.75	47.55
3/4" x					
3/8"	EA	0.444	4.50	49.75	54.25
1/2"	EA	0.444	3.56	49.75	53.31
1" x					
3/8"	EA	0.500	8.08	56.00	64.08
1" x 1/2"	EA	0.500	7.82	56.00	63.82
1" x 3/4"	EA	0.500	6.59	56.00	62.59

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22111.62 COPPER FITTINGS (Cont.)

	Unit	Man-Hrs	Material	Labor	Total
Coupling, with stop					
Slip coupling					
1/4"	EA	0.267	0.78	30.00	30.78
1/2"	EA	0.320	1.31	35.75	37.06
3/4"	EA	0.400	2.74	44.75	47.49
1"	EA	0.444	5.82	49.75	55.57
Coupling with drain					
1/2"	EA	0.400	10.00	44.75	54.75
3/4"	EA	0.444	14.75	49.75	64.50
1"	EA	0.500	18.25	56.00	74.25
Reducer					
3/8" x 1/4"	EA	0.320	2.85	35.75	38.60
1/2" x 3/8"	EA	0.320	2.29	35.75	38.04
3/4" x					
1/4"	EA	0.364	4.65	40.75	45.40
3/8"	EA	0.364	4.86	40.75	45.61
1/2"	EA	0.364	5.06	40.75	45.81
1" x					
1/2"	EA	0.400	6.99	44.75	51.74
3/4"	EA	0.400	5.36	44.75	50.11
Female adapters					
1/4"	EA	0.320	5.92	35.75	41.67
3/8"	EA	0.364	6.06	40.75	46.81
1/2"	EA	0.400	2.88	44.75	47.63
3/4"	EA	0.444	3.95	49.75	53.70
1"	EA	0.444	9.16	49.75	58.91
Increasing female adapters					
1/8" x					
3/8"	EA	0.320	7.27	35.75	43.02
1/2"	EA	0.320	6.78	35.75	42.53
1/4" x 1/2"	EA	0.348	7.10	39.00	46.10
3/8" x 1/2"	EA	0.364	7.62	40.75	48.37
1/2" x					
3/4"	EA	0.400	8.08	44.75	52.83
1"	EA	0.400	16.25	44.75	61.00
3/4" x					
1"	EA	0.444	17.25	49.75	67.00
1-1/4"	EA	0.444	29.25	49.75	79.00
1" x					
1-1/4"	EA	0.444	31.00	49.75	80.75
1-1/2"	EA	0.444	34.00	49.75	83.75
Reducing female adapters					
3/8" x 1/4"	EA	0.364	6.55	40.75	47.30
1/2" x					
1/4"	EA	0.400	5.63	44.75	50.38
3/8"	EA	0.400	5.63	44.75	50.38
3/4" x 1/2"	EA	0.444	7.86	49.75	57.61
1" x					
1/2"	EA	0.444	14.75	49.75	64.50
3/4"	EA	0.444	11.75	49.75	61.50
Female fitting adapters					
1/2"	EA	0.400	10.00	44.75	54.75
3/4"	EA	0.400	13.00	44.75	57.75
3/4" x 1/2"	EA	0.421	15.50	47.25	62.75
1"	EA	0.444	17.25	49.75	67.00
Male adapters					
1/4"	EA	0.364	11.25	40.75	52.00
3/8"	EA	0.364	5.63	40.75	46.38
Increasing male adapters					
3/8" x 1/2"	EA	0.364	7.68	40.75	48.43
1/2" x					
3/4"	EA	0.400	6.66	44.75	51.41
1"	EA	0.400	15.00	44.75	59.75

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22111.62 COPPER FITTINGS (Cont.)

	Unit	Man-Hrs	Material	Labor	Total
Increasing male adapters					
3/4" x					
1"	EA	0.421	14.75	47.25	62.00
1-1/4"	EA	0.421	18.75	47.25	66.00
1" x 1-1/4"	EA	0.444	18.75	49.75	68.50
Reducing male adapters					
1/2" x					
1/4"	EA	0.400	8.30	44.75	53.05
3/8"	EA	0.400	6.89	44.75	51.64
3/4" x 1/2"	EA	0.421	7.86	47.25	55.11
1" x					
1/2"	EA	0.444	21.50	49.75	71.25
3/4"	EA	0.444	17.25	49.75	67.00
Fitting x male adapters					
1/2"	EA	0.400	11.25	44.75	56.00
3/4"	EA	0.421	14.50	47.25	61.75
1"	EA	0.444	14.75	49.75	64.50
90 ells					
1/8"	EA	0.320	2.12	35.75	37.87
1/4"	EA	0.320	3.37	35.75	39.12
3/8"	EA	0.364	3.20	40.75	43.95
1/2"	EA	0.400	1.06	44.75	45.81
3/4"	EA	0.421	2.40	47.25	49.65
1"	EA	0.444	5.90	49.75	55.65
Reducing 90 ell					
3/8" x 1/4"	EA	0.364	5.49	40.75	46.24
1/2" x					
1/4"	EA	0.400	7.86	44.75	52.61
3/8"	EA	0.400	7.86	44.75	52.61
3/4" x 1/2"	EA	0.421	6.90	47.25	54.15
1" x					
1/2"	EA	0.444	12.00	49.75	61.75
3/4"	EA	0.444	11.25	49.75	61.00
Street ells, copper					
1/4"	EA	0.320	5.69	35.75	41.44
3/8"	EA	0.364	3.92	40.75	44.67
1/2"	EA	0.400	1.58	44.75	46.33
3/4"	EA	0.421	3.33	47.25	50.58
1"	EA	0.444	8.62	49.75	58.37
Female, 90 ell					
1/2"	EA	0.400	1.07	44.75	45.82
3/4"	EA	0.421	2.42	47.25	49.67
1"	EA	0.444	5.96	49.75	55.71
Female increasing, 90 ell					
3/8" x 1/2"	EA	0.364	12.00	40.75	52.75
1/2" x					
3/4"	EA	0.400	8.33	44.75	53.08
1"	EA	0.400	17.00	44.75	61.75
3/4" x 1"	EA	0.421	15.25	47.25	62.50
1" x 1-1/4"	EA	0.444	39.00	49.75	88.75
Female reducing, 90 ell					
1/2" x 3/8"	EA	0.400	13.25	44.75	58.00
3/4" x 1/2"	EA	0.421	14.75	47.25	62.00
1" x					
1/2"	EA	0.444	20.75	49.75	70.50
3/4"	EA	0.444	22.25	49.75	72.00
Male, 90 ell					
1/4"	EA	0.320	10.25	35.75	46.00
3/8"	EA	0.364	11.00	40.75	51.75
1/2"	EA	0.400	5.66	44.75	50.41
3/4"	EA	0.421	12.75	47.25	60.00
1"	EA	0.444	14.75	49.75	64.50

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22111.62 COPPER FITTINGS (Cont.)

	Unit	Man-Hrs	Material	Labor	Total
Coupling, with stop					
Male, increasing 90 ell					
1/2" x					
3/4"	EA	0.400	20.25	44.75	65.00
1"	EA	0.400	39.75	44.75	84.50
3/4" x 1"	EA	0.421	38.00	47.25	85.25
1" x 1-1/4"	EA	0.444	35.00	49.75	84.75
Male, reducing 90 ell					
1/2" x 3/8"	EA	0.400	11.50	44.75	56.25
3/4" x 1/2"	EA	0.421	20.25	47.25	67.50
1" x					
1/2"	EA	0.444	38.00	49.75	87.75
3/4"	EA	0.444	36.25	49.75	86.00
Drop ear ells					
1/2"	EA	0.400	7.30	44.75	52.05
Female drop ear ells					
1/2"	EA	0.400	7.30	44.75	52.05
1/2" x 3/8"	EA	0.400	12.75	44.75	57.50
3/4"	EA	0.421	21.25	47.25	68.50
Female flanged sink ell					
1/2"	EA	0.400	13.25	44.75	58.00
45 ells					
1/4"	EA	0.320	6.09	35.75	41.84
3/8"	EA	0.364	4.94	40.75	45.69
45 street ell					
1/4"	EA	0.320	6.89	35.75	42.64
3/8"	EA	0.364	7.45	40.75	48.20
1/2"	EA	0.400	2.21	44.75	46.96
3/4"	EA	0.421	3.33	47.25	50.58
1"	EA	0.444	8.79	49.75	58.54
Tee					
1/8"	EA	0.320	5.17	35.75	40.92
1/4"	EA	0.320	5.45	35.75	41.20
3/8"	EA	0.364	4.17	40.75	44.92
Caps					
1/4"	EA	0.320	0.94	35.75	36.69
3/8"	EA	0.364	1.50	40.75	42.25
Test caps					
1/2"	EA	0.400	0.88	44.75	45.63
3/4"	EA	0.421	0.99	47.25	48.24
1"	EA	0.444	1.77	49.75	51.52
Flush bushing					
1/4" x 1/8"	EA	0.320	1.79	35.75	37.54
1/2" x					
1/4"	EA	0.400	2.43	44.75	47.18
3/8"	EA	0.400	2.15	44.75	46.90
3/4" x					
3/8"	EA	0.421	4.51	47.25	51.76
1/2"	EA	0.421	3.99	47.25	51.24
1" x					
1/2"	EA	0.444	6.88	49.75	56.63
3/4"	EA	0.444	6.11	49.75	55.86
Female flush bushing					
1/2" x					
1/2" x 1/8"	EA	0.400	5.43	44.75	50.18
1/4"	EA	0.400	5.71	44.75	50.46
Union					
1/4"	EA	0.320	33.75	35.75	69.50
3/8"	EA	0.364	46.50	40.75	87.25
Female					
1/2"	EA	0.400	16.25	44.75	61.00
3/4"	EA	0.421	16.25	47.25	63.50
Male					
1/2"	EA	0.400	17.50	44.75	62.25
3/4"	EA	0.421	23.25	47.25	70.50

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22111.62 COPPER FITTINGS (Cont.)

	Unit	Man-Hrs	Material	Labor	Total
Male					
1"	EA	0.444	51.00	49.75	100.75
45 degree wye					
1/2"	EA	0.400	21.75	44.75	66.50
3/4"	EA	0.421	31.25	47.25	78.50
1"	EA	0.444	42.00	49.75	91.75
1" x 3/4" x 3/4"	EA	0.444	58.00	49.75	107.75
Twin ells					
1" x 3/4" x 3/4"	EA	0.444	15.25	49.75	65.00
1" x 1" x 1"	EA	0.444	15.25	49.75	65.00
90 union ells, male					
1/2"	EA	0.400	23.50	44.75	68.25
3/4"	EA	0.421	39.00	47.25	86.25
1"	EA	0.444	58.00	49.75	107.75
DWV fittings, coupling with stop					
1-1/4"	EA	0.471	5.31	53.00	58.31
1-1/2"	EA	0.500	6.61	56.00	62.61
1-1/2" x 1-1/4"	EA	0.500	10.75	56.00	66.75
2"	EA	0.533	9.15	60.00	69.15
2" x 1-1/4"	EA	0.533	12.50	60.00	72.50
2" x 1-1/2"	EA	0.533	12.25	60.00	72.25
3"	EA	0.667	17.75	75.00	92.75
3" x 1-1/2"	EA	0.667	42.25	75.00	117.25
3" x 2"	EA	0.667	40.50	75.00	115.50
4"	EA	0.800	56.00	90.00	146.00
Slip coupling					
1-1/2"	EA	0.500	10.25	56.00	66.25
2"	EA	0.533	12.25	60.00	72.25
3"	EA	0.667	22.25	75.00	97.25
90 ells					
1-1/2"	EA	0.500	18.75	56.00	74.75
1-1/2" x 1-1/4"	EA	0.500	52.00	56.00	108.00
2"	EA	0.533	34.25	60.00	94.25
2" x 1-1/2"	EA	0.533	69.00	60.00	129.00
3"	EA	0.667	91.00	75.00	166.00
4"	EA	0.800	300.00	90.00	390.00
Street, 90 elbows					
1-1/2"	EA	0.500	16.00	56.00	72.00
2"	EA	0.533	35.00	60.00	95.00
3"	EA	0.667	89.00	75.00	164.00
4"	EA	0.800	220.00	90.00	310.00
Female, 90 elbows					
1-1/2"	EA	0.500	15.75	56.00	71.75
2"	EA	0.533	30.50	60.00	90.50
Male, 90 elbows					
1-1/2"	EA	0.500	28.00	56.00	84.00
2"	EA	0.533	57.00	60.00	117.00
90 with side inlet					
3" x 3" x 1"	EA	0.667	130.00	75.00	205.00
3" x 3" x 1-1/2"	EA	0.667	130.00	75.00	205.00
3" x 3" x 2"	EA	0.667	130.00	75.00	205.00
45 ells					
1-1/4"	EA	0.471	10.50	53.00	63.50
1-1/2"	EA	0.500	8.61	56.00	64.61
2"	EA	0.533	19.75	60.00	79.75
3"	EA	0.667	42.00	75.00	117.00
4"	EA	0.800	190.00	90.00	280.00
Street, 45 ell					
1-1/2"	EA	0.500	13.75	56.00	69.75
2"	EA	0.533	24.75	60.00	84.75
3"	EA	0.667	71.00	75.00	146.00
60 ell					
1-1/2"	EA	0.500	21.50	56.00	77.50
2"	EA	0.533	40.00	60.00	100.00

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22111.62 COPPER FITTINGS (Cont.)

	Unit	Man-Hrs	Material	Labor	Total
60 ell					
3"	EA	0.667	89.00	75.00	164.00
22-1/2 ell					
1-1/2"	EA	0.500	26.25	56.00	82.25
2"	EA	0.533	33.75	60.00	93.75
3"	EA	0.667	59.00	75.00	134.00
11-1/4 ell					
1-1/2"	EA	0.500	29.00	56.00	85.00
2"	EA	0.533	41.00	60.00	101.00
3"	EA	0.667	82.00	75.00	157.00
Wye					
1-1/4"	EA	0.471	44.25	53.00	97.25
1-1/2"	EA	0.500	48.25	56.00	104.25
2"	EA	0.533	63.00	60.00	123.00
2" x 1-1/2" x 1-1/2"	EA	0.533	70.00	60.00	130.00
2" x 1-1/2" x 2"	EA	0.533	77.00	60.00	137.00
2" x 1-1/2" x 2-1/2"	EA	0.533	77.00	60.00	137.00
3"	EA	0.667	150.00	75.00	225.00
3" x 3" x 1-1/2"	EA	0.667	140.00	75.00	215.00
3" x 3" x 2"	EA	0.667	140.00	75.00	215.00
4"	EA	0.800	310.00	90.00	400.00
4" x 4" x 2"	EA	0.800	220.00	90.00	310.00
4" x 4" x 3"	EA	0.800	220.00	90.00	310.00
Sanitary tee					
1-1/4"	EA	0.471	22.50	53.00	75.50
1-1/2"	EA	0.500	27.75	56.00	83.75
2"	EA	0.533	32.50	60.00	92.50
2" x 1-1/2" x 1-1/2"	EA	0.533	52.00	60.00	112.00
2" x 1-1/2" x 2"	EA	0.533	53.00	60.00	113.00
2" x 2" x 1-1/2"	EA	0.533	30.75	60.00	90.75
3"	EA	0.667	120.00	75.00	195.00
3" x 3" x 1-1/2"	EA	0.667	93.00	75.00	168.00
3" x 3" x 2"	EA	0.667	93.00	75.00	168.00
4"	EA	0.800	310.00	90.00	400.00
4" x 4" x 3"	EA	0.800	250.00	90.00	340.00
Female sanitary tee					
1-1/2"	EA	0.500	54.00	56.00	110.00
Long turn tee					
1-1/2"	EA	0.500	54.00	56.00	110.00
2"	EA	0.533	120.00	60.00	180.00
3" x 1-1/2"	EA	0.667	150.00	75.00	225.00
Double wye					
1-1/2"	EA	0.500	79.00	56.00	135.00
2"	EA	0.533	140.00	60.00	200.00
2" x 2" x 1-1/2" x 1-1/2"	EA	0.533	110.00	60.00	170.00
3"	EA	0.667	230.00	75.00	305.00
3" x 3" x 1-1/2" x 1-1/2"	EA	0.667	230.00	75.00	305.00
3" x 3" x 2" x 2"	EA	0.667	230.00	75.00	305.00
4" x 4" x 1-1/2" x 1-1/2"	EA	0.800	240.00	90.00	330.00
Double sanitary tee					
1-1/2"	EA	0.500	41.00	56.00	97.00
2"	EA	0.533	94.00	60.00	154.00
2" x 2" x 1-1/2"	EA	0.533	84.00	60.00	144.00
3"	EA	0.667	110.00	75.00	185.00
3" x 3" x 1-1/2" x 1-1/2"	EA	0.667	140.00	75.00	215.00
3" x 3" x 2" x 2"	EA	0.667	120.00	75.00	195.00
4" x 4" x 1-1/2" x 1-1/2"	EA	0.800	250.00	90.00	340.00
Long					
2" x 1-1/2"	EA	0.533	140.00	60.00	200.00
Twin elbow					
1-1/2"	EA	0.500	71.00	56.00	127.00
2"	EA	0.533	110.00	60.00	170.00
2" x 1-1/2" x 1-1/2"	EA	0.533	99.00	60.00	159.00

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22111.62 COPPER FITTINGS (Cont.)

	Unit	Man-Hrs	Material	Labor	Total
DWV fittings, coupling with stop					
Spigot adapter, manoff					
1-1/2" x 2"	EA	0.500	47.00	56.00	103.00
1-1/2" x 3"	EA	0.500	57.00	56.00	113.00
2"	EA	0.533	23.25	60.00	83.25
2" x 3"	EA	0.533	55.00	60.00	115.00
2" x 4"	EA	0.533	78.00	60.00	138.00
3"	EA	0.667	80.00	75.00	155.00
3" x 4"	EA	0.667	150.00	75.00	225.00
4"	EA	0.800	120.00	90.00	210.00
No-hub adapters					
1-1/2" x 2"	EA	0.500	28.50	56.00	84.50
2"	EA	0.533	26.75	60.00	86.75
2" x 3"	EA	0.533	62.00	60.00	122.00
3"	EA	0.667	54.00	75.00	129.00
3" x 4"	EA	0.667	110.00	75.00	185.00
4"	EA	0.800	120.00	90.00	210.00
Fitting reducers					
1-1/2" x 1-1/4"	EA	0.500	10.00	56.00	66.00
2" x 1-1/2"	EA	0.533	15.75	60.00	75.75
3" x 1-1/2"	EA	0.667	44.25	75.00	119.25
3" x 2"	EA	0.667	39.50	75.00	114.50
Slip joint (Desanco)					
1-1/4"	EA	0.471	17.00	53.00	70.00
1-1/2"	EA	0.500	17.50	56.00	73.50
1-1/2" x 1-1/4"	EA	0.500	18.25	56.00	74.25
Street x slip joint (Desanco)					
1-1/2"	EA	0.500	21.75	56.00	77.75
1-1/2" x 1-1/4"	EA	0.500	23.25	56.00	79.25
Flush bushing					
1-1/2" x 1-1/4"	EA	0.500	12.50	56.00	68.50
2" x 1-1/2"	EA	0.533	21.50	60.00	81.50
3" x 1-1/2"	EA	0.667	38.50	75.00	113.50
3" x 2"	EA	0.667	38.50	75.00	113.50
Male hex trap bushing					
1-1/4" x 1-1/2"	EA	0.471	18.25	53.00	71.25
1-1/2"	EA	0.500	13.50	56.00	69.50
1-1/2" x 2"	EA	0.500	20.25	56.00	76.25
2"	EA	0.533	15.75	60.00	75.75
Round trap bushing					
1-1/2"	EA	0.500	15.50	56.00	71.50
2"	EA	0.533	16.50	60.00	76.50
Female adapter					
1-1/4"	EA	0.471	16.25	53.00	69.25
1-1/2"	EA	0.500	25.50	56.00	81.50
1-1/2" x 2"	EA	0.500	65.00	56.00	121.00
2"	EA	0.533	34.50	60.00	94.50
2" x 1-1/2"	EA	0.533	56.00	60.00	116.00
3"	EA	0.667	140.00	75.00	215.00
Fitting x female adapter					
1-1/2"	EA	0.500	34.25	56.00	90.25
2"	EA	0.533	45.50	60.00	105.50
Male adapters					
1-1/4"	EA	0.471	14.25	53.00	67.25
1-1/4" x 1-1/2"	EA	0.471	33.00	53.00	86.00
1-1/2"	EA	0.500	16.25	56.00	72.25
1-1/2" x 2"	EA	0.500	62.00	56.00	118.00
2"	EA	0.533	27.50	60.00	87.50
2" x 1-1/2"	EA	0.533	64.00	60.00	124.00
3"	EA	0.667	140.00	75.00	215.00
Male x slip joint adapters					
1-1/2" x 1-1/4"	EA	0.500	26.00	56.00	82.00
Dandy cleanout					
1-1/2"	EA	0.500	45.75	56.00	101.75
2"	EA	0.533	54.00	60.00	114.00

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	Unit	Man-Hrs	Material	Labor	Total
22111.62 COPPER FITTINGS (Cont.)					
Dandy cleanout					
3"	EA	0.667	190.00	75.00	265.00
End cleanout, flush pattern					
1-1/2" x 1"	EA	0.500	27.75	56.00	83.75
2" x 1-1/2"	EA	0.533	33.50	60.00	93.50
3" x 2-1/2"	EA	0.667	71.00	75.00	146.00
Copper caps					
1-1/2"	EA	0.500	9.47	56.00	65.47
2"	EA	0.533	17.50	60.00	77.50
Closet flanges					
3"	EA	0.667	41.50	75.00	116.50
4"	EA	0.800	73.00	90.00	163.00
Drum traps, with cleanout					
1-1/2" x 3" x 6"	EA	0.500	160.00	56.00	216.00
P-trap, swivel, with cleanout					
1-1/2"	EA	0.500	98.00	56.00	154.00
P-trap, solder union					
1-1/2"	EA	0.500	41.00	56.00	97.00
2"	EA	0.533	72.00	60.00	132.00
With cleanout					
1-1/2"	EA	0.500	45.00	56.00	101.00
2"	EA	0.533	80.00	60.00	140.00
2" x 1-1/2"	EA	0.533	80.00	60.00	140.00
Swivel joint, with cleanout					
1-1/2" x 1-1/4"	EA	0.500	57.00	56.00	113.00
1-1/2"	EA	0.500	74.00	56.00	130.00
2" x 1-1/2"	EA	0.533	90.00	60.00	150.00
Estabrook TY, with inlets					
3", with 1-1/2" inlet	EA	0.667	140.00	75.00	215.00
Fine thread adapters					
1/2"	EA	0.400	3.67	44.75	48.42
1/2" x 1/2" IPS	EA	0.400	4.13	44.75	48.88
1/2" x 3/4" IPS	EA	0.400	6.76	44.75	51.51
1/2" x male	EA	0.400	2.55	44.75	47.30
1/2" x female	EA	0.400	5.21	44.75	49.96
Copper pipe fittings					
1/2"					
90 deg ell	EA	0.178	1.62	20.00	21.62
45 deg ell	EA	0.178	2.04	20.00	22.04
Tee	EA	0.229	2.71	25.50	28.21
Cap	EA	0.089	1.10	9.96	11.06
Coupling	EA	0.178	1.18	20.00	21.18
Union	EA	0.200	8.21	22.50	30.71
3/4"					
90 deg ell	EA	0.200	3.54	22.50	26.04
45 deg ell	EA	0.200	4.13	22.50	26.63
Tee	EA	0.267	5.92	30.00	35.92
Cap	EA	0.094	2.15	10.50	12.65
Coupling	EA	0.200	2.40	22.50	24.90
Union	EA	0.229	12.00	25.50	37.50
1"					
90 deg ell	EA	0.267	8.21	30.00	38.21
45 deg ell	EA	0.267	10.75	30.00	40.75
Tee	EA	0.320	13.50	35.75	49.25
Cap	EA	0.133	4.00	15.00	19.00
Coupling	EA	0.267	5.92	30.00	35.92
Union	EA	0.267	15.75	30.00	45.75
22111.64 BRASS I.P.S. FITTINGS					
BRASS I.P.S. FITTINGS					
Fittings, iron pipe size, 45 deg ell					
1/8"	EA	0.320	5.11	35.75	40.86
1/4"	EA	0.320	4.64	35.75	40.39
3/8"	EA	0.364	5.12	40.75	45.87
1/2"	EA	0.400	5.91	44.75	50.66

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22111.64 BRASS I.P.S. FITTINGS (Cont.)

	Unit	Man-Hrs	Material	Labor	Total
Fittings, iron pipe size, 45 deg ell					
3/4"	EA	0.421	9.29	47.25	56.54
1"	EA	0.444	15.50	49.75	65.25
90 deg ell					
1/8"	EA	0.320	5.25	35.75	41.00
1/4"	EA	0.320	5.34	35.75	41.09
3/8"	EA	0.364	5.34	40.75	46.09
1/2"	EA	0.400	5.34	44.75	50.09
3/4"	EA	0.421	11.25	47.25	58.50
1"	EA	0.444	17.25	49.75	67.00
90 deg ell, reducing					
1/4" x 1/8"	EA	0.320	19.50	35.75	55.25
3/8" x 1/8"	EA	0.364	19.50	40.75	60.25
3/8" x 1/4"	EA	0.364	21.50	40.75	62.25
1/2" x 1/4"	EA	0.400	17.50	44.75	62.25
1/2" x 3/8"	EA	0.400	16.00	44.75	60.75
3/4" x 1/2"	EA	0.421	21.75	47.25	69.00
1" x 3/8"	EA	0.444	110.00	49.75	159.75
1" x 1/2"	EA	0.444	38.25	49.75	88.00
1" x 3/4"	EA	0.444	38.25	49.75	88.00
Street ell, 45 deg					
1/2"	EA	0.400	9.90	44.75	54.65
3/4"	EA	0.421	14.00	47.25	61.25
90 deg					
1/8"	EA	0.320	7.97	35.75	43.72
1/4"	EA	0.320	7.97	35.75	43.72
3/8"	EA	0.364	7.97	40.75	48.72
1/2"	EA	0.400	7.97	44.75	52.72
3/4"	EA	0.421	14.00	47.25	61.25
1"	EA	0.444	23.25	49.75	73.00
Tee, 1/8"	EA	0.320	7.28	35.75	43.03
1/4"	EA	0.320	7.28	35.75	43.03
3/8"	EA	0.364	7.28	40.75	48.03
1/2"	EA	0.400	7.28	44.75	52.03
3/4"	EA	0.421	13.25	47.25	60.50
1"	EA	0.444	23.50	49.75	73.25
Tee, reducing, 3/8" x					
1/4"	EA	0.364	22.50	40.75	63.25
1/2"	EA	0.364	11.00	40.75	51.75
1/2" x					
1/4"	EA	0.400	11.00	44.75	55.75
3/8"	EA	0.400	11.00	44.75	55.75
3/4"	EA	0.400	15.00	44.75	59.75
3/4" x					
1/4"	EA	0.421	17.25	47.25	64.50
1/2"	EA	0.421	17.25	47.25	64.50
1"	EA	0.421	31.00	47.25	78.25
1" x					
1/2"	EA	0.444	58.00	49.75	107.75
3/4"	EA	0.444	58.00	49.75	107.75
Tee, reducing					
1/2" x 3/8" x 1/2"	EA	0.400	11.50	44.75	56.25
3/4" x 1/2" x 1/2"	EA	0.421	11.50	47.25	58.75
3/4" x 1/2" x 3/4"	EA	0.421	13.00	47.25	60.25
1" x 1/2" x 1/2"	EA	0.444	56.00	49.75	105.75
1" x 1/2" x 3/4"	EA	0.444	56.00	49.75	105.75
1" x 3/4" x 1/2"	EA	0.444	53.00	49.75	102.75
1" x 3/4" x 3/4"	EA	0.444	21.50	49.75	71.25
Union					
1/8"	EA	0.320	21.00	35.75	56.75
1/4"	EA	0.320	21.00	35.75	56.75
3/8"	EA	0.364	21.00	40.75	61.75
1/2"	EA	0.400	21.00	44.75	65.75
3/4"	EA	0.421	30.25	47.25	77.50

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22111.64 BRASS I.P.S. FITTINGS (Cont.)

	Unit	Man-Hrs	Material	Labor	Total
Union					
1"	EA	0.444	40.00	49.75	89.75
Brass face bushing					
3/8" x 1/4"	EA	0.364	12.50	40.75	53.25
1/2" x 3/8"	EA	0.400	12.50	44.75	57.25
3/4" x 1/2"	EA	0.421	15.75	47.25	63.00
1" x 3/4"	EA	0.444	34.25	49.75	84.00
Hex bushing, 1/4" x 1/8"	EA	0.320	4.40	35.75	40.15
1/2" x					
1/4"	EA	0.400	4.40	44.75	49.15
3/8"	EA	0.400	4.40	44.75	49.15
5/8" x					
1/8"	EA	0.400	8.14	44.75	52.89
1/4"	EA	0.400	8.14	44.75	52.89
3/4" x					
1/8"	EA	0.421	7.22	47.25	54.47
1/4"	EA	0.421	7.22	47.25	54.47
3/8"	EA	0.421	5.91	47.25	53.16
1/2"	EA	0.421	5.91	47.25	53.16
1" x					
1/4"	EA	0.444	11.25	49.75	61.00
3/8"	EA	0.444	11.25	49.75	61.00
1/2"	EA	0.444	9.21	49.75	58.96
3/4"	EA	0.444	9.21	49.75	58.96
Caps					
1/8"	EA	0.320	4.73	35.75	40.48
1/4"	EA	0.320	5.24	35.75	40.99
3/8"	EA	0.364	5.50	40.75	46.25
1/2"	EA	0.400	5.02	44.75	49.77
3/4"	EA	0.421	7.90	47.25	55.15
1"	EA	0.444	14.25	49.75	64.00
Couplings					
1/8"	EA	0.320	7.17	35.75	42.92
1/4"	EA	0.320	7.17	35.75	42.92
3/8"	EA	0.364	7.17	40.75	47.92
1/2"	EA	0.400	6.29	44.75	51.04
3/4"	EA	0.421	9.01	47.25	56.26
1"	EA	0.444	12.75	49.75	62.50
Couplings, reducing, 1/4" x 1/8"	EA	0.320	18.00	35.75	53.75
3/8" x					
1/8"	EA	0.364	23.50	40.75	64.25
1/4"	EA	0.364	7.69	40.75	48.44
1/2" x					
1/8"	EA	0.400	25.00	44.75	69.75
1/4"	EA	0.400	6.72	44.75	51.47
3/8"	EA	0.400	6.72	44.75	51.47
3/4" x					
1/4"	EA	0.421	11.25	47.25	58.50
3/8"	EA	0.421	10.00	47.25	57.25
1/2"	EA	0.421	9.98	47.25	57.23
1" x					
1/2"	EA	0.421	16.50	47.25	63.75
3/4"	EA	0.421	16.50	47.25	63.75
Square head plug, solid					
1/8"	EA	0.320	6.08	35.75	41.83
1/4"	EA	0.320	6.08	35.75	41.83
3/8"	EA	0.364	6.08	40.75	46.83
1/2"	EA	0.400	6.30	44.75	51.05
3/4"	EA	0.421	7.23	47.25	54.48
Cored					
1/2"	EA	0.400	3.77	44.75	48.52
3/4"	EA	0.421	4.32	47.25	51.57
1"	EA	0.444	16.00	49.75	65.75

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22111.64 BRASS I.P.S. FITTINGS (Cont.)

	Unit	Man-Hrs	Material	Labor	Total
Square head plug, solid					
Countersunk					
1/2"	EA	0.400	9.68	44.75	54.43
3/4"	EA	0.421	15.50	47.25	62.75
Locknut					
3/4"	EA	0.421	7.11	47.25	54.36
1"	EA	0.444	8.87	49.75	58.62
Close standard red nipple, 1/8"	EA	0.320	2.31	35.75	38.06
1/8" x					
1-1/2"	EA	0.320	1.43	35.75	37.18
2"	EA	0.320	1.56	35.75	37.31
2-1/2"	EA	0.320	1.81	35.75	37.56
3"	EA	0.320	1.91	35.75	37.66
3-1/2"	EA	0.320	2.11	35.75	37.86
4"	EA	0.320	2.38	35.75	38.13
4-1/2"	EA	0.320	2.42	35.75	38.17
5"	EA	0.320	2.81	35.75	38.56
5-1/2"	EA	0.320	3.02	35.75	38.77
6"	EA	0.320	3.31	35.75	39.06
1/4" x close	EA	0.320	3.63	35.75	39.38
1/4" x					
1-1/2"	EA	0.320	6.30	35.75	42.05
2"	EA	0.320	6.68	35.75	42.43
2-1/2"	EA	0.320	6.98	35.75	42.73
3"	EA	0.320	7.32	35.75	43.07
3-1/2"	EA	0.320	8.17	35.75	43.92
4"	EA	0.320	8.50	35.75	44.25
4-1/2"	EA	0.320	9.07	35.75	44.82
5"	EA	0.320	9.35	35.75	45.10
5-1/2"	EA	0.320	10.25	35.75	46.00
6"	EA	0.320	10.50	35.75	46.25
3/8" x close	EA	0.364	4.26	40.75	45.01
3/8" x					
1-1/2"	EA	0.364	4.98	40.75	45.73
2"	EA	0.364	5.48	40.75	46.23
2-1/2"	EA	0.364	6.60	40.75	47.35
3"	EA	0.364	8.04	40.75	48.79
3-1/2"	EA	0.364	8.79	40.75	49.54
4"	EA	0.364	11.25	40.75	52.00
4-1/2"	EA	0.364	11.50	40.75	52.25
5"	EA	0.364	12.25	40.75	53.00
5-1/2"	EA	0.364	13.25	40.75	54.00
6"	EA	0.364	14.75	40.75	55.50
1/2" x close	EA	0.400	5.61	44.75	50.36
1/2" x					
1-1/2"	EA	0.400	6.99	44.75	51.74
2"	EA	0.400	8.51	44.75	53.26
2-1/2"	EA	0.400	12.50	44.75	57.25
3"	EA	0.400	11.00	44.75	55.75
3-1/2"	EA	0.400	12.25	44.75	57.00
4"	EA	0.400	12.75	44.75	57.50
4-1/2"	EA	0.400	13.75	44.75	58.50
5"	EA	0.400	14.25	44.75	59.00
5-1/2"	EA	0.400	17.25	44.75	62.00
6"	EA	0.400	16.00	44.75	60.75
7-1/2"	EA	0.400	48.50	44.75	93.25
8"	EA	0.400	48.50	44.75	93.25
3/4" x close	EA	0.421	17.25	47.25	64.50
3/4" x					
1-1/2"	EA	0.421	10.50	47.25	57.75
2"	EA	0.421	11.00	47.25	58.25
2-1/2"	EA	0.421	12.25	47.25	59.50
3"	EA	0.421	13.25	47.25	60.50
3-1/2"	EA	0.421	14.50	47.25	61.75

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	Unit	Man-Hrs	Material	Labor	Total
22111.64 BRASS I.P.S. FITTINGS (Cont.)					
Close standard red nipple, 1/8"					
4"	EA	0.421	15.50	47.25	62.75
4-1/2"	EA	0.421	16.50	47.25	63.75
5"	EA	0.421	17.25	47.25	64.50
5-1/2"	EA	0.421	19.50	47.25	66.75
6"	EA	0.421	20.25	47.25	67.50
1" x close	EA	0.444	17.50	49.75	67.25
1" x					
2"	EA	0.444	20.00	49.75	69.75
2-1/2"	EA	0.444	20.25	49.75	70.00
3"	EA	0.444	21.00	49.75	70.75
3-1/2"	EA	0.444	20.00	49.75	69.75
4"	EA	0.444	21.50	49.75	71.25
4-1/2"	EA	0.444	30.00	49.75	79.75
5"	EA	0.444	30.25	49.75	80.00
5-1/2"	EA	0.444	30.25	49.75	80.00
6"	EA	0.444	32.00	49.75	81.75
22111.65 BRASS FITTINGS					
BRASS FITTINGS					
Compression fittings, union					
3/8"	EA	0.133	2.85	15.00	17.85
1/2"	EA	0.133	6.16	15.00	21.16
5/8"	EA	0.133	7.84	15.00	22.84
Union elbow					
3/8"	EA	0.133	9.14	15.00	24.14
1/2"	EA	0.133	15.25	15.00	30.25
5/8"	EA	0.133	20.50	15.00	35.50
Union tee					
3/8"	EA	0.133	8.57	15.00	23.57
1/2"	EA	0.133	12.50	15.00	27.50
5/8"	EA	0.133	17.25	15.00	32.25
Male connector					
3/8"	EA	0.133	5.76	15.00	20.76
1/2"	EA	0.133	6.82	15.00	21.82
5/8"	EA	0.133	3.56	15.00	18.56
Female connector					
3/8"	EA	0.133	4.86	15.00	19.86
1/2"	EA	0.133	6.58	15.00	21.58
5/8"	EA	0.133	7.18	15.00	22.18
Brass flare fittings, union					
3/8"	EA	0.129	3.70	14.50	18.20
1/2"	EA	0.129	5.11	14.50	19.61
5/8"	EA	0.129	6.58	14.50	21.08
90 deg elbow union					
3/8"	EA	0.129	7.95	14.50	22.45
1/2"	EA	0.129	11.75	14.50	26.25
5/8"	EA	0.129	20.50	14.50	35.00
Three way tee					
3/8"	EA	0.216	7.94	24.25	32.19
1/2"	EA	0.216	8.21	24.25	32.46
5/8"	EA	0.216	11.00	24.25	35.25
Cross					
3/8"	EA	0.286	12.25	32.00	44.25
1/2"	EA	0.286	24.75	32.00	56.75
5/8"	EA	0.286	30.00	32.00	62.00
Male connector, half union					
3/8"	EA	0.129	2.83	14.50	17.33
1/2"	EA	0.129	4.95	14.50	19.45
5/8"	EA	0.129	7.66	14.50	22.16
Female connector, half union					
3/8"	EA	0.129	3.88	14.50	18.38
1/2"	EA	0.129	3.60	14.50	18.10
5/8"	EA	0.129	6.91	14.50	21.41

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22111.65 BRASS FITTINGS (Cont.)

	Unit	Man-Hrs	Material	Labor	Total
Brass flare fittings, union					
Long forged nut					
3/8"	EA	0.129	1.85	14.50	16.35
1/2"	EA	0.129	2.69	14.50	17.19
5/8"	EA	0.129	9.30	14.50	23.80
Short forged nut					
3/8"	EA	0.129	1.50	14.50	16.00
1/2"	EA	0.129	2.04	14.50	16.54
5/8"	EA	0.129	2.49	14.50	16.99
Nut, material only					
1/8"	EA				0.34
1/4"	EA				0.34
5/16"	EA				0.42
3/8"	EA				0.50
1/2"	EA				0.73
5/8"	EA				1.57
Sleeve					
1/8"	EA	0.160	0.26	18.00	18.26
1/4"	EA	0.160	0.41	18.00	18.41
5/16"	EA	0.160	0.24	18.00	18.24
3/8"	EA	0.160	0.35	18.00	18.35
1/2"	EA	0.160	0.42	18.00	18.42
5/8"	EA	0.160	0.61	18.00	18.61
Tee					
1/4"	EA	0.229	5.00	25.50	30.50
5/16"	EA	0.229	5.95	25.50	31.45
Male tee					
5/16" x 1/8"	EA	0.229	7.95	25.50	33.45
Female union					
1/8" x 1/8"	EA	0.200	2.02	22.50	24.52
1/4" x 3/8"	EA	0.200	3.69	22.50	26.19
3/8" x 1/4"	EA	0.200	3.40	22.50	25.90
3/8" x 1/2"	EA	0.200	3.85	22.50	26.35
5/8" x 1/2"	EA	0.229	6.01	25.50	31.51
Male union, 1/4"					
1/4" x 1/4"	EA	0.200	2.00	22.50	24.50
3/8"	EA	0.200	2.65	22.50	25.15
1/2"	EA	0.200	3.98	22.50	26.48
5/16" x					
1/8"	EA	0.200	2.17	22.50	24.67
1/4"	EA	0.200	2.47	22.50	24.97
3/8"	EA	0.200	3.59	22.50	26.09
3/8" x					
1/8"	EA	0.200	2.07	22.50	24.57
1/4"	EA	0.200	2.41	22.50	24.91
1/2"	EA	0.200	3.36	22.50	25.86
5/8" x					
3/8"	EA	0.229	4.80	25.50	30.30
1/2"	EA	0.229	4.14	25.50	29.64
Female elbow, 1/4" x 1/4"	EA	0.229	4.62	25.50	30.12
5/16" x					
1/8"	EA	0.229	4.97	25.50	30.47
1/4"	EA	0.229	7.27	25.50	32.77
3/8" x					
3/8"	EA	0.229	4.01	25.50	29.51
1/2"	EA	0.229	3.36	25.50	28.86
Male elbow, 1/8" x 1/8"	EA	0.229	4.50	25.50	30.00
3/16" x 1/4"	EA	0.229	4.11	25.50	29.61
1/4" x					
1/8"	EA	0.229	2.54	25.50	28.04
1/4"	EA	0.229	3.03	25.50	28.53
3/8"	EA	0.229	2.58	25.50	28.08
5/16" x					
1/8"	EA	0.229	2.66	25.50	28.16
1/4"	EA	0.229	2.96	25.50	28.46

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	Unit	Man-Hrs	Material	Labor	Total
22111.65 BRASS FITTINGS (Cont.)					
Male elbow, 1/8" x 1/8"					
3/8"	EA	0.229	5.10	25.50	30.60
3/8" x					
1/8"	EA	0.229	2.55	25.50	28.05
1/4"	EA	0.229	3.52	25.50	29.02
3/8"	EA	0.229	2.66	25.50	28.16
1/2"	EA	0.229	3.55	25.50	29.05
1/2" x					
1/4"	EA	0.267	5.59	30.00	35.59
3/8"	EA	0.267	5.19	30.00	35.19
1/2"	EA	0.267	4.31	30.00	34.31
5/8" x					
3/8"	EA	0.267	5.62	30.00	35.62
1/2"	EA	0.267	5.94	30.00	35.94
3/4"	EA	0.267	12.25	30.00	42.25
Union					
1/8"	EA	0.229	2.56	25.50	28.06
3/16"	EA	0.229	2.86	25.50	28.36
1/4"	EA	0.229	2.18	25.50	27.68
5/16"	EA	0.229	2.36	25.50	27.86
3/8"	EA	0.229	2.80	25.50	28.30
Reducing union					
3/8" x 1/4"	EA	0.267	3.21	30.00	33.21
5/8" x					
3/8"	EA	0.267	5.44	30.00	35.44
1/2"	EA	0.267	5.57	30.00	35.57
22111.67 CHROME PLATED FITTINGS					
CHROME PLATED FITTINGS					
Fittings					
90 ell					
3/8"	EA	0.200	22.00	22.50	44.50
1/2"	EA	0.200	28.50	22.50	51.00
45 ell					
3/8"	EA	0.200	28.50	22.50	51.00
1/2"	EA	0.200	37.50	22.50	60.00
Tee					
3/8"	EA	0.267	30.75	30.00	60.75
1/2"	EA	0.267	36.50	30.00	66.50
Coupling					
3/8"	EA	0.200	21.50	22.50	44.00
1/2"	EA	0.200	21.50	22.50	44.00
Union					
3/8"	EA	0.200	35.50	22.50	58.00
1/2"	EA	0.200	36.75	22.50	59.25
Tee					
1/2" x 3/8" x 3/8"	EA	0.267	40.50	30.00	70.50
1/2" x 3/8" x 1/2"	EA	0.267	41.25	30.00	71.25
22111.68 PVC/CPVC PIPE					
PVC/CPVC PIPE					
PVC schedule 40					
1/2" pipe	LF	0.033	0.63	3.73	4.36
3/4" pipe	LF	0.036	0.86	4.07	4.93
1" pipe	LF	0.040	1.10	4.48	5.58
1-1/4" pipe	LF	0.044	1.41	4.98	6.39
1-1/2" pipe	LF	0.050	2.11	5.60	7.71
2" pipe	LF	0.057	2.68	6.40	9.08
2-1/2" pipe	LF	0.067	4.33	7.47	11.80
3" pipe	LF	0.080	5.51	8.96	14.47
4" pipe	LF	0.100	7.87	11.25	19.12
Fittings, 1/2"					
90 deg ell	EA	0.100	0.58	11.25	11.83
45 deg ell	EA	0.100	0.79	11.25	12.04
Tee	EA	0.114	0.59	12.75	13.34
Reducing insert	EA	0.133	0.60	15.00	15.60

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22111.68 PVC/CPVC PIPE (Cont.)

	Unit	Man-Hrs	Material	Labor	Total
Fittings, 1/2"					
Threaded	EA	0.100	1.42	11.25	12.67
Male adapter	EA	0.133	0.56	15.00	15.56
Female adapter	EA	0.100	0.60	11.25	11.85
Coupling	EA	0.100	0.44	11.25	11.69
Union	EA	0.160	4.73	18.00	22.73
Cap	EA	0.133	0.55	15.00	15.55
Flange	EA	0.160	10.00	18.00	28.00
3/4"					
90 deg elbow	EA	0.133	0.56	15.00	15.56
45 deg elbow	EA	0.133	1.34	15.00	16.34
Tee	EA	0.160	0.77	18.00	18.77
Reducing insert	EA	0.114	0.56	12.75	13.31
Threaded	EA	0.133	0.85	15.00	15.85
1"					
90 deg elbow	EA	0.160	0.99	18.00	18.99
45 deg elbow	EA	0.160	1.45	18.00	19.45
Tee	EA	0.178	1.32	20.00	21.32
Reducing insert	EA	0.160	0.99	18.00	18.99
Threaded	EA	0.178	1.32	20.00	21.32
Male adapter	EA	0.200	0.92	22.50	23.42
Female adapter	EA	0.200	0.79	22.50	23.29
Coupling	EA	0.200	0.72	22.50	23.22
Union	EA	0.267	7.11	30.00	37.11
Cap	EA	0.160	0.79	18.00	18.79
Flange	EA	0.267	10.00	30.00	40.00
1-1/4"					
90 deg elbow	EA	0.229	1.71	25.50	27.21
45 deg elbow	EA	0.229	2.03	25.50	27.53
Tee	EA	0.267	1.98	30.00	31.98
Reducing insert	EA	0.267	1.18	30.00	31.18
Threaded	EA	0.267	1.98	30.00	31.98
Female adapter	EA	0.267	1.25	30.00	31.25
Coupling	EA	0.267	1.05	30.00	31.05
Union	EA	0.320	16.25	35.75	52.00
Cap	EA	0.267	1.12	30.00	31.12
Flange	EA	0.320	10.25	35.75	46.00
1-1/2"					
90 deg elbow	EA	0.229	1.91	25.50	27.41
45 deg elbow	EA	0.229	2.82	25.50	28.32
Tee	EA	0.267	2.64	30.00	32.64
Reducing insert	EA	0.267	1.32	30.00	31.32
Threaded	EA	0.267	2.37	30.00	32.37
Male adapter	EA	0.267	1.58	30.00	31.58
Female adapter	EA	0.267	1.58	30.00	31.58
Coupling	EA	0.267	1.18	30.00	31.18
Union	EA	0.400	22.25	44.75	67.00
Cap	EA	0.267	1.25	30.00	31.25
Flange	EA	0.400	17.25	44.75	62.00
2"					
90 deg elbow	EA	0.267	3.03	30.00	33.03
45 deg elbow	EA	0.267	3.82	30.00	33.82
Tee	EA	0.320	4.02	35.75	39.77
Reducing insert	EA	0.320	2.56	35.75	38.31
Threaded	EA	0.320	3.41	35.75	39.16
Male adapter	EA	0.320	2.11	35.75	37.86
Female adapter	EA	0.320	2.17	35.75	37.92
Coupling	EA	0.320	1.76	35.75	37.51
Union	EA	0.500	30.50	56.00	86.50
Cap	EA	0.320	1.65	35.75	37.40
Flange	EA	0.500	18.25	56.00	74.25
2-1/2"					
90 deg elbow	EA	0.500	9.14	56.00	65.14
45 deg elbow	EA	0.500	13.25	56.00	69.25

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22111.68 PVC/CPVC PIPE (Cont.)

	Unit	Man-Hrs	Material	Labor	Total
2-1/2"					
Tee	EA	0.533	11.75	60.00	71.75
Reducing insert	EA	0.533	3.68	60.00	63.68
Threaded	EA	0.533	5.26	60.00	65.26
Male adapter	EA	0.533	6.12	60.00	66.12
Female adapter	EA	0.533	5.06	60.00	65.06
Coupling	EA	0.533	3.65	60.00	63.65
Union	EA	0.667	40.75	75.00	115.75
Cap	EA	0.500	4.88	56.00	60.88
Flange	EA	0.667	24.50	75.00	99.50
3"					
90 deg elbow	EA	0.667	9.88	75.00	84.88
45 deg elbow	EA	0.667	12.75	75.00	87.75
Tee	EA	0.727	15.75	82.00	97.75
Reducing insert	EA	0.667	4.73	75.00	79.73
Threaded	EA	0.667	6.12	75.00	81.12
Male adapter	EA	0.667	7.51	75.00	82.51
Female adapter	EA	0.667	6.05	75.00	81.05
Coupling	EA	0.667	5.59	75.00	80.59
Union	EA	0.800	42.75	90.00	132.75
Cap	EA	0.667	4.88	75.00	79.88
Flange	EA	0.800	22.50	90.00	112.50
4"					
90 deg elbow	EA	0.800	17.75	90.00	107.75
45 deg elbow	EA	0.800	23.00	90.00	113.00
Tee	EA	0.889	26.25	100.00	126.25
Reducing insert	EA	0.800	10.75	90.00	100.75
Threaded	EA	0.800	13.75	90.00	103.75
Male adapter	EA	0.800	9.54	90.00	99.54
Female adapter	EA	0.800	10.25	90.00	100.25
Coupling	EA	0.800	8.15	90.00	98.15
Union	EA	1.000	52.00	110.00	162.00
Cap	EA	0.800	11.00	90.00	101.00
Flange	EA	1.000	30.25	110.00	140.25
PVC schedule 80 pipe					
1-1/2" pipe	LF	0.050	2.80	5.60	8.40
2" pipe	LF	0.057	3.78	6.40	10.18
3" pipe	LF	0.080	7.80	8.96	16.76
4" pipe	LF	0.100	10.25	11.25	21.50
Fittings, 1-1/2"					
90 deg elbow	EA	0.267	6.69	30.00	36.69
45 deg elbow	EA	0.267	14.75	30.00	44.75
Tee	EA	0.400	23.00	44.75	67.75
Reducing insert	EA	0.267	4.24	30.00	34.24
Threaded	EA	0.267	5.06	30.00	35.06
Male adapter	EA	0.267	8.06	30.00	38.06
Female adapter	EA	0.267	8.71	30.00	38.71
Coupling	EA	0.267	9.30	30.00	39.30
Union	EA	0.400	16.75	44.75	61.50
Cap	EA	0.267	4.74	30.00	34.74
Flange	EA	0.400	11.00	44.75	55.75
2"					
90 deg elbow	EA	0.320	8.10	35.75	43.85
45 deg elbow	EA	0.320	19.00	35.75	54.75
Tee	EA	0.500	28.75	56.00	84.75
Reducing insert	EA	0.320	6.03	35.75	41.78
Threaded	EA	0.320	6.09	35.75	41.84
Male adapter	EA	0.320	11.00	35.75	46.75
Female adapter	EA	0.320	15.25	35.75	51.00
2-1/2"					
90 deg elbow	EA	0.500	19.00	56.00	75.00
45 deg elbow	EA	0.500	40.00	56.00	96.00
Tee	EA	0.667	31.25	75.00	106.25
Reducing insert	EA	0.500	10.50	56.00	66.50

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	Unit	Man-Hrs	Material	Labor	Total
22111.68 PVC/CPVC PIPE (Cont.)					
2-1/2"					
Threaded	EA	0.500	13.00	56.00	69.00
Male adapter	EA	0.500	13.25	56.00	69.25
Female adapter	EA	0.500	24.00	56.00	80.00
Coupling	EA	0.500	13.00	56.00	69.00
Union	EA	0.667	36.00	75.00	111.00
Cap	EA	0.500	15.25	56.00	71.25
Flange	EA	0.667	19.25	75.00	94.25
3"					
90 deg elbow	EA	0.667	17.00	75.00	92.00
45 deg elbow	EA	0.667	48.75	75.00	123.75
Tee	EA	0.800	39.25	90.00	129.25
Reducing insert	EA	0.667	16.75	75.00	91.75
Threaded	EA	0.667	24.25	75.00	99.25
Male adapter	EA	0.667	14.75	75.00	89.75
Female adapter	EA	0.667	27.00	75.00	102.00
Coupling	EA	0.667	14.75	75.00	89.75
Union	EA	0.800	46.00	90.00	136.00
Cap	EA	0.667	19.25	75.00	94.25
Flange	EA	0.800	22.00	90.00	112.00
4"					
90 deg elbow	EA	0.800	43.50	90.00	133.50
45 deg elbow	EA	0.800	88.00	90.00	178.00
Tee	EA	1.000	45.25	110.00	155.25
Reducing insert	EA	0.800	23.00	90.00	113.00
Threaded	EA	0.800	37.25	90.00	127.25
Male adapter	EA	0.800	26.00	90.00	116.00
Coupling	EA	0.800	18.50	90.00	108.50
Union	EA	1.000	43.50	110.00	153.50
Cap	EA	0.800	23.50	90.00	113.50
Flange	EA	1.000	30.00	110.00	140.00
CPVC schedule 40					
1/2" pipe	LF	0.033	1.13	3.73	4.86
3/4" pipe	LF	0.036	1.52	4.07	5.59
1" pipe	LF	0.040	2.21	4.48	6.69
1-1/4" pipe	LF	0.044	2.90	4.98	7.88
1-1/2" pipe	LF	0.050	3.51	5.60	9.11
2" pipe	LF	0.057	4.67	6.40	11.07
Fittings, CPVC, schedule 80					
1/2", 90 deg ell	EA	0.080	3.44	8.96	12.40
Tee	EA	0.133	10.50	15.00	25.50
3/4", 90 deg ell	EA	0.080	4.48	8.96	13.44
Tee	EA	0.133	5.74	15.00	20.74
1", 90 deg ell	EA	0.089	7.09	9.96	17.05
Tee	EA	0.145	8.30	16.25	24.55
1-1/4", 90 deg ell	EA	0.089	13.00	9.96	22.96
Tee	EA	0.145	15.50	16.25	31.75
1-1/2", 90 deg ell	EA	0.160	14.25	18.00	32.25
Tee	EA	0.200	17.50	22.50	40.00
2", 90 deg ell	EA	0.160	15.50	18.00	33.50
Tee	EA	0.200	19.75	22.50	42.25
22111.69 STEEL PIPE					
STEEL PIPE					
Black steel, extra heavy pipe, threaded					
1/2" pipe	LF	0.032	2.81	3.58	6.39
3/4" pipe	LF	0.032	3.64	3.58	7.22
Fittings, malleable iron, threaded, 1/2" pipe					
90 deg ell	EA	0.267	3.37	30.00	33.37
45 deg ell	EA	0.267	4.56	30.00	34.56
Tee	EA	0.400	3.66	44.75	48.41
Reducing tee	EA	0.400	8.22	44.75	52.97
Cap	EA	0.160	2.85	18.00	20.85
Coupling	EA	0.320	3.81	35.75	39.56
Union	EA	0.267	16.00	30.00	46.00

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	Unit	Man-Hrs	Material	Labor	Total
22111.69 STEEL PIPE (Cont.)					
Fittings, malleable iron, threaded, 1/2" pipe					
Nipple, 4" long	EA	0.267	3.00	30.00	33.00
3/4" pipe					
90 deg ell	EA	0.267	3.95	30.00	33.95
45 deg ell	EA	0.400	6.26	44.75	51.01
Tee	EA	0.400	5.31	44.75	50.06
Reducing tee	EA	0.267	9.18	30.00	39.18
Cap	EA	0.160	3.81	18.00	21.81
Coupling	EA	0.267	4.50	30.00	34.50
Union	EA	0.267	18.00	30.00	48.00
Nipple, 4" long	EA	0.267	3.47	30.00	33.47
Cast iron fittings					
1/2" pipe					
90 deg. ell	EA	0.267	5.08	30.00	35.08
45 deg. ell	EA	0.267	10.25	30.00	40.25
Tee	EA	0.400	6.70	44.75	51.45
Reducing tee	EA	0.400	12.75	44.75	57.50
3/4" pipe					
90 deg. ell	EA	0.267	5.43	30.00	35.43
45 deg. ell	EA	0.267	6.70	30.00	36.70
Tee	EA	0.400	8.39	44.75	53.14
Reducing tee	EA	0.400	10.75	44.75	55.50
22111.70 GALVANIZED STEEL PIPE					
GALVANIZED STEEL PIPE					
Galvanized pipe					
1/2" pipe	LF	0.080	4.97	8.96	13.93
3/4" pipe	LF	0.100	6.47	11.25	17.72
90 degree ell, 150 lb malleable iron, galvanized					
1/2"	EA	0.160	2.22	18.00	20.22
3/4"	EA	0.200	2.95	22.50	25.45
45 degree ell, 150 lb m.i., galv.					
1/2"	EA	0.160	10.25	18.00	28.25
3/4"	EA	0.200	4.82	22.50	27.32
Tees, straight, 150 lb m.i., galv.					
1/2"	EA	0.200	2.95	22.50	25.45
3/4"	EA	0.229	4.92	25.50	30.42
Tees, reducing, out, 150 lb m.i., galv.					
1/2"	EA	0.200	5.10	22.50	27.60
3/4"	EA	0.229	5.91	25.50	31.41
Couplings, straight, 150 lb m.i., galv.					
1/2"	EA	0.160	2.73	18.00	20.73
3/4"	EA	0.178	3.27	20.00	23.27
Couplings, reducing, 150 lb m.i., galv					
1/2"	EA	0.160	3.18	18.00	21.18
3/4"	EA	0.178	3.55	20.00	23.55
Caps, 150 lb m.i., galv.					
1/2"	EA	0.080	2.27	8.96	11.23
3/4"	EA	0.084	3.00	9.44	12.44
Unions, 150 lb m.i., galv.					
1/2"	EA	0.200	12.75	22.50	35.25
3/4"	EA	0.229	14.25	25.50	39.75
Nipples, galvanized steel, 4" long					
1/2"	EA	0.100	3.27	11.25	14.52
3/4"	EA	0.107	4.36	12.00	16.36
90 degree reducing ell, 150 lb m.i., galv.					
3/4" x 1/2"	EA	0.160	3.55	18.00	21.55
1" x 3/4"	EA	0.178	4.82	20.00	24.82
Square head plug (C.I.)					
1/2"	EA	0.089	2.25	9.96	12.21
3/4"	EA	0.100	5.00	11.25	16.25

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	Unit	Man-Hrs	Material	Labor	Total
22111.91 BACKFLOW PREVENTERS					
BACKFLOW PREVENTERS					
Backflow preventer, flanged, cast iron, with valves					
3" pipe	EA	4.000	4,030.00	450.00	4,480.00
4" pipe	EA	4.444	4,700.00	500.00	5,200.00
Threaded					
3/4" pipe	EA	0.500	640.00	56.00	696.00
2" pipe	EA	0.800	1,120.00	90.00	1,210.00
22111.96 VACUUM BREAKERS					
VACUUM BREAKERS					
Vacuum breaker, atmospheric, threaded connection					
3/4"	EA	0.320	55.00	35.75	90.75
Anti-siphon, brass					
3/4"	EA	0.320	60.00	35.75	95.75
22120.04 STORAGE TANKS					
STORAGE TANKS					
Hot water storage tank, cement lined					
10 gallon	EA	2.667	540.00	300.00	840.00
70 gallon	EA	4.000	1,700.00	450.00	2,150.00
22131.60 C.I. PIPE, ABOVE GROUND					
C.I. PIPE, ABOVE GROUND					
No hub pipe					
1-1/2" pipe	LF	0.057	12.25	6.40	18.65
2" pipe	LF	0.067	10.75	7.47	18.22
3" pipe	LF	0.080	15.00	8.96	23.96
4" pipe	LF	0.133	19.50	15.00	34.50
No hub fittings, 1-1/2" pipe					
1/4 bend	EA	0.267	13.50	30.00	43.50
1/8 bend	EA	0.267	11.50	30.00	41.50
Sanitary tee	EA	0.400	19.00	44.75	63.75
Sanitary cross	EA	0.400	25.50	44.75	70.25
Plug	EA				7.51
Coupling	EA				27.00
Wye	EA	0.400	23.50	44.75	68.25
Tapped tee	EA	0.267	25.00	30.00	55.00
P-trap	EA	0.267	21.25	30.00	51.25
Tapped cross	EA	0.267	28.25	30.00	58.25
2" pipe					
1/4 bend	EA	0.320	17.00	35.75	52.75
1/8 bend	EA	0.320	13.75	35.75	49.50
Sanitary tee	EA	0.533	23.25	60.00	83.25
Sanitary cross	EA	0.533	39.25	60.00	99.25
Plug	EA				8.14
Coupling	EA				25.75
Wye	EA	0.667	21.75	75.00	96.75
Double wye	EA	0.667	33.75	75.00	108.75
2x1-1/2" wye & 1/8 bend	EA	0.500	40.75	56.00	96.75
Double wye & 1/8 bend	EA	0.667	33.75	75.00	108.75
Test tee less 2" plug	EA	0.320	21.00	35.75	56.75
Tapped tee					
2"x2"	EA	0.320	30.00	35.75	65.75
2"x1-1/2"	EA	0.320	28.25	35.75	64.00
P-trap					
2"x2"	EA	0.320	27.25	35.75	63.00
Tapped cross					
2"x1-1/2"	EA	0.320	38.50	35.75	74.25
3" pipe					
1/4 bend	EA	0.400	23.25	44.75	68.00
1/8 bend	EA	0.400	19.50	44.75	64.25
Sanitary tee	EA	0.500	28.50	56.00	84.50
3"x2" sanitary tee	EA	0.500	25.75	56.00	81.75
3"x1-1/2" sanitary tee	EA	0.500	27.00	56.00	83.00
Sanitary cross	EA	0.667	61.00	75.00	136.00
3x2" sanitary cross	EA	0.667	54.00	75.00	129.00

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	Unit	Man-Hrs	Material	Labor	Total
22131.60 C.I. PIPE, ABOVE GROUND (Cont.)					
3" pipe					
Plug	EA				12.00
Coupling	EA				29.50
Wye	EA	0.667	31.00	75.00	106.00
3x2" wye	EA	0.667	23.25	75.00	98.25
Double wye	EA	0.667	62.00	75.00	137.00
3x2" double wye	EA	0.667	53.00	75.00	128.00
3x2" wye & 1/8 bend	EA	0.571	29.25	64.00	93.25
3x1-1/2" wye & 1/8 bend	EA	0.571	29.25	64.00	93.25
Double wye & 1/8 bend	EA	0.667	62.00	75.00	137.00
3x2" double wye & 1/8 bend	EA	0.667	53.00	75.00	128.00
3x2" reducer	EA	0.364	11.75	40.75	52.50
Test tee, less 3" plug	EA	0.400	32.50	44.75	77.25
Plug	EA				12.00
3x3" tapped tee	EA	0.400	74.00	44.75	118.75
3x2" tapped tee	EA	0.400	40.25	44.75	85.00
3x1-1/2" tapped tee	EA	0.400	34.25	44.75	79.00
P-trap	EA	0.400	54.00	44.75	98.75
3x2" tapped cross	EA	0.400	50.00	44.75	94.75
3x1-1/2" tapped cross	EA	0.400	47.50	44.75	92.25
Closet flange, 3-1/2" deep	EA	0.200	34.50	22.50	57.00
4" pipe					
1/4 bend	EA	0.400	33.75	44.75	78.50
1/8 bend	EA	0.400	24.75	44.75	69.50
Sanitary tee	EA	0.667	44.00	75.00	119.00
4x3" sanitary tee	EA	0.667	40.50	75.00	115.50
4x2" sanitary tee	EA	0.667	33.75	75.00	108.75
Sanitary cross	EA	0.800	110.00	90.00	200.00
4x3" sanitary cross	EA	0.800	93.00	90.00	183.00
4x2" sanitary cross	EA	0.800	77.00	90.00	167.00
Plug	EA				18.75
Coupling	EA				28.75
Wye	EA	0.667	51.00	75.00	126.00
4x3" wye	EA	0.667	44.00	75.00	119.00
4x2" wye	EA	0.667	32.50	75.00	107.50
Double wye	EA	0.800	130.00	90.00	220.00
4x3" double wye	EA	0.800	79.00	90.00	169.00
4x2" double wye	EA	0.800	70.00	90.00	160.00
Wye & 1/8 bend	EA	0.667	69.00	75.00	144.00
4x3" wye & 1/8 bend	EA	0.667	50.00	75.00	125.00
4x2" wye & 1/8 bend	EA	0.667	39.00	75.00	114.00
Double wye & 1/8 bend	EA	0.800	180.00	90.00	270.00
4x3" double wye & 1/8 bend	EA	0.800	120.00	90.00	210.00
4x2" double wye & 1/8 bend	EA	0.800	110.00	90.00	200.00
4x3" reducer	EA	0.400	18.25	44.75	63.00
4x2" reducer	EA	0.400	18.25	44.75	63.00
Test tee, less 4" plug	EA	0.400	55.00	44.75	99.75
Plug	EA				18.75
4x2" tapped tee	EA	0.400	40.25	44.75	85.00
4x1-1/2" tapped tee	EA	0.400	35.50	44.75	80.25
P-trap	EA	0.400	94.00	44.75	138.75
4x2" tapped cross	EA	0.400	72.00	44.75	116.75
4x1-1/2" tapped cross	EA	0.400	56.00	44.75	100.75
Closet flange					
3" deep	EA	0.400	37.50	44.75	82.25
8" deep	EA	0.400	97.00	44.75	141.75
22131.61 C.I. PIPE, BELOW GROUND					
C.I. PIPE, BELOW GROUND					
No hub pipe					
1-1/2" pipe	LF	0.040	13.00	4.48	17.48
2" pipe	LF	0.044	13.25	4.98	18.23
3" pipe	LF	0.050	18.25	5.60	23.85
4" pipe	LF	0.067	23.75	7.47	31.22

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22131.61 C.I. PIPE, BELOW GROUND (Cont.)

	Unit	Man-Hrs	Material	Labor	Total
No hub pipe					
Fittings, 1-1/2"					
1/4 bend	EA	0.229	15.50	25.50	41.00
1/8 bend	EA	0.229	13.00	25.50	38.50
Plug	EA				8.14
Wye	EA	0.320	21.75	35.75	57.50
Wye & 1/8 bend	EA	0.229	23.25	25.50	48.75
P-trap	EA	0.229	25.50	25.50	51.00
2"					
1/4 bend	EA	0.267	17.00	30.00	47.00
1/8 bend	EA	0.267	14.50	30.00	44.50
Plug	EA				8.14
Double wye	EA	0.500	33.75	56.00	89.75
Wye & 1/8 bend	EA	0.400	23.50	44.75	68.25
Double wye & 1/8 bend	EA	0.500	58.00	56.00	114.00
P-trap	EA	0.267	24.75	30.00	54.75
3"					
1/4 bend	EA	0.320	23.25	35.75	59.00
1/8 bend	EA	0.320	19.50	35.75	55.25
Plug	EA				12.00
Wye	EA	0.500	31.00	56.00	87.00
3x2" wye	EA	0.500	23.25	56.00	79.25
Wye & 1/8 bend	EA	0.500	37.50	56.00	93.50
Double wye & 1/8 bend	EA	0.500	89.00	56.00	145.00
3x2" double wye & 1/8 bend	EA	0.500	68.00	56.00	124.00
3x2" reducer	EA	0.320	11.75	35.75	47.50
P-trap	EA	0.320	54.00	35.75	89.75
4"					
1/4 bend	EA	0.320	33.75	35.75	69.50
1/8 bend	EA	0.320	24.75	35.75	60.50
Plug	EA				18.75
Wye	EA	0.500	51.00	56.00	107.00
4x3" wye	EA	0.500	44.00	56.00	100.00
4x2" wye	EA	0.500	32.50	56.00	88.50
Double wye	EA	0.667	130.00	75.00	205.00
4x3" double wye	EA	0.667	79.00	75.00	154.00
4x2" double wye	EA	0.667	70.00	75.00	145.00
Wye & 1/8 bend	EA	0.500	69.00	56.00	125.00
4x3" wye & 1/8 bend	EA	0.500	50.00	56.00	106.00
4x2" wye & 1/8 bend	EA	0.500	39.00	56.00	95.00
Double wye & 1/8 bend	EA	0.667	180.00	75.00	255.00
4x3" double wye & 1/8 bend	EA	0.667	120.00	75.00	195.00
4x2" double wye & 1/8 bend	EA	0.667	110.00	75.00	185.00
4x3" reducer	EA	0.320	18.25	35.75	54.00
4x2" reducer	EA	0.320	18.25	35.75	54.00

22131.63 ABS DWV PIPE

ABS DWV PIPE					
Schedule 40 ABS					
1-1/2" pipe	LF	0.040	1.81	4.48	6.29
2" pipe	LF	0.044	2.42	4.98	7.40
3" pipe	LF	0.057	4.97	6.40	11.37
4" pipe	LF	0.080	7.04	8.96	16.00
Fittings					
1/8 bend					
1-1/2"	EA	0.160	2.30	18.00	20.30
2"	EA	0.200	3.39	22.50	25.89
3"	EA	0.267	8.14	30.00	38.14
4"	EA	0.320	14.50	35.75	50.25
Tee, sanitary					
1-1/2"	EA	0.267	3.33	30.00	33.33
2"	EA	0.320	5.14	35.75	40.89
3"	EA	0.400	14.00	44.75	58.75
4"	EA	0.500	25.75	56.00	81.75

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22131.63 ABS DWV PIPE (Cont.)

	Unit	Man-Hrs	Material	Labor	Total
Fittings					
Tee, sanitary reducing					
2 x 1-1/2 x 1-1/2	EA	0.320	4.73	35.75	40.48
2 x 1-1/2 x 2	EA	0.333	4.87	37.25	42.12
2 x 2 x 1-1/2	EA	0.364	4.52	40.75	45.27
3 x 3 x 1-1/2	EA	0.400	8.20	44.75	52.95
3 x 3 x 2	EA	0.444	10.25	49.75	60.00
4 x 4 x 1-1/2	EA	0.500	25.50	56.00	81.50
4 x 4 x 2	EA	0.571	23.75	64.00	87.75
4 x 4 x 3	EA	0.615	20.75	69.00	89.75
Wye					
1-1/2"	EA	0.229	4.87	25.50	30.37
2"	EA	0.320	6.81	35.75	42.56
3"	EA	0.400	15.50	44.75	60.25
4"	EA	0.500	33.50	56.00	89.50
Reducer					
2 x 1-1/2	EA	0.200	3.27	22.50	25.77
3 x 1-1/2	EA	0.267	8.42	30.00	38.42
3 x 2	EA	0.267	7.17	30.00	37.17
4 x 2	EA	0.320	14.50	35.75	50.25
4 x 3	EA	0.320	14.75	35.75	50.50
P-trap					
1-1/2"	EA	0.267	7.59	30.00	37.59
2"	EA	0.296	10.25	33.25	43.50
3"	EA	0.348	39.25	39.00	78.25
4"	EA	0.400	80.00	44.75	124.75
Double sanitary tee					
1-1/2"	EA	0.320	7.37	35.75	43.12
2"	EA	0.400	10.75	44.75	55.50
3"	EA	0.500	29.25	56.00	85.25
4"	EA	0.667	47.00	75.00	122.00
Long sweep, 1/4 bend					
1-1/2"	EA	0.160	3.83	18.00	21.83
2"	EA	0.200	4.87	22.50	27.37
3"	EA	0.267	11.75	30.00	41.75
4"	EA	0.400	21.75	44.75	66.50
Wye, standard					
1-1/2"	EA	0.267	4.92	30.00	34.92
2"	EA	0.320	6.81	35.75	42.56
3"	EA	0.400	15.75	44.75	60.50
4"	EA	0.500	33.50	56.00	89.50
Wye, reducing					
2 x 1-1/2 x 1-1/2	EA	0.267	9.12	30.00	39.12
2 x 2 x 1-1/2	EA	0.320	8.70	35.75	44.45
4 x 4 x 2	EA	0.500	18.50	56.00	74.50
4 x 4 x 3	EA	0.533	25.50	60.00	85.50
Double wye					
1-1/2"	EA	0.320	11.25	35.75	47.00
2"	EA	0.400	13.25	44.75	58.00
3"	EA	0.500	34.00	56.00	90.00
4"	EA	0.667	69.00	75.00	144.00
2 x 2 x 1-1/2 x 1-1/2	EA	0.400	13.25	44.75	58.00
3 x 3 x 2 x 2	EA	0.500	28.00	56.00	84.00
4 x 4 x 3 x 3	EA	0.667	65.00	75.00	140.00
Combination wye and 1/8 bend					
1-1/2"	EA	0.267	7.79	30.00	37.79
2"	EA	0.320	9.39	35.75	45.14
3"	EA	0.400	20.25	44.75	65.00
4"	EA	0.500	41.25	56.00	97.25
2 x 2 x 1-1/2	EA	0.320	15.75	35.75	51.50
3 x 3 x 1-1/2	EA	0.400	19.25	44.75	64.00
3 x 3 x 2	EA	0.400	13.50	44.75	58.25
4 x 4 x 2	EA	0.500	26.75	56.00	82.75
4 x 4 x 3	EA	0.500	32.75	56.00	88.75

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	Unit	Man-Hrs	Material	Labor	Total
22131.67 DRAINS, ROOF & FLOOR					
DRAINS, ROOF & FLOOR					
Floor drain, cast iron, with cast iron top					
2"	EA	0.667	220.00	75.00	295.00
3"	EA	0.667	230.00	75.00	305.00
4"	EA	0.667	480.00	75.00	555.00
Roof drain, cast iron					
2"	EA	0.667	280.00	75.00	355.00
3"	EA	0.667	290.00	75.00	365.00
4"	EA	0.667	370.00	75.00	445.00
22131.68 TRAPS					
TRAPS					
Bucket trap, threaded					
3/4"	EA	0.500	230.00	56.00	286.00
Inverted bucket steam trap, threaded					
3/4"	EA	0.500	280.00	56.00	336.00
With stainless interior					
1/2"	EA	0.500	170.00	56.00	226.00
3/4"	EA	0.500	200.00	56.00	256.00
Brass interior					
3/4"	EA	0.500	310.00	56.00	366.00
Cast steel body, threaded, high temperature					
3/4"	EA	0.500	800.00	56.00	856.00
Float trap, 15 psi					
3/4"	EA	0.500	200.00	56.00	256.00
Float and thermostatic trap, 15 psi					
3/4"	EA	0.500	210.00	56.00	266.00
Steam trap, cast iron body, threaded, 125 psi					
3/4"	EA	0.500	250.00	56.00	306.00
Thermostatic trap, low pressure, angle type, 25 psi					
1/2"	EA	0.500	77.00	56.00	133.00
3/4"	EA	0.500	130.00	56.00	186.00
Cast iron body, threaded, 125 psi					
3/4"	EA	0.500	170.00	56.00	226.00
22131.92 CLEANOUTS					
CLEANOUTS					
Cleanout, wall					
2"	EA	0.533	240.00	60.00	300.00
3"	EA	0.533	340.00	60.00	400.00
4"	EA	0.667	340.00	75.00	415.00
Floor					
2"	EA	0.667	220.00	75.00	295.00
3"	EA	0.667	290.00	75.00	365.00
4"	EA	0.800	300.00	90.00	390.00
22330.01 DOMESTIC WATER HEATERS					
DOMESTIC WATER HEATERS					
Water heater, electric					
6 gal	EA	1.333	450.00	150.00	600.00
10 gal	EA	1.333	460.00	150.00	610.00
15 gal	EA	1.333	450.00	150.00	600.00
20 gal	EA	1.600	630.00	180.00	810.00
30 gal	EA	1.600	820.00	180.00	1,000.00
40 gal	EA	1.600	890.00	180.00	1,070.00
52 gal	EA	2.000	1,200.00	220.00	1,420.00
Oil fired					
20 gal	EA	4.000	1,430.00	450.00	1,880.00
50 gal	EA	5.714	2,230.00	640.00	2,870.00
22421.36 WATER CLOSETS					
WATER CLOSETS					
Water closet flush tank, floor mounted					
Minimum	EA	2.000	320.00	220.00	540.00
Average	EA	2.667	630.00	300.00	930.00
Maximum	EA	4.000	960.00	450.00	1,410.00

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	Unit	Man-Hrs	Material	Labor	Total
22421.36 WATER CLOSETS (Cont.)					
Water closet flush tank, floor mounted					
Handicapped					
Minimum	EA	2.667	540.00	300.00	840.00
Average	EA	4.000	970.00	450.00	1,420.00
Maximum	EA	8.000	1,850.00	900.00	2,750.00
For trim and rough-in					
Minimum	EA	2.000	250.00	220.00	470.00
Average	EA	2.667	300.00	300.00	600.00
Maximum	EA	4.000	400.00	450.00	850.00
22421.62 LAVATORIES					
LAVATORIES					
Lavatory, countertop, porcelain enamel on cast iron					
Minimum	EA	1.600	230.00	180.00	410.00
Average	EA	2.000	350.00	220.00	570.00
Maximum	EA	2.667	630.00	300.00	930.00
Wall hung, china					
Minimum	EA	1.600	320.00	180.00	500.00
Average	EA	2.000	370.00	220.00	590.00
Maximum	EA	2.667	930.00	300.00	1,230.00
Handicapped					
Minimum	EA	2.000	520.00	220.00	740.00
Average	EA	2.667	600.00	300.00	900.00
Maximum	EA	4.000	1,000.00	450.00	1,450.00
Lavatory shutoff and drainline guards/covers	EA	0.400	140.00	44.75	184.75
For trim and rough-in					
Minimum	EA	2.000	270.00	220.00	490.00
Average	EA	2.667	450.00	300.00	750.00
Maximum	EA	4.000	560.00	450.00	1,010.00
22421.64 SINKS					
SINKS					
Service sink, 24"x29"					
Minimum	EA	2.000	770.00	220.00	990.00
Average	EA	2.667	960.00	300.00	1,260.00
Maximum	EA	4.000	1,410.00	450.00	1,860.00
Kitchen sink, single, stainless steel, single bowl					
Minimum	EA	1.600	340.00	180.00	520.00
Average	EA	2.000	390.00	220.00	610.00
Maximum	EA	2.667	710.00	300.00	1,010.00
Double bowl					
Minimum	EA	2.000	390.00	220.00	610.00
Average	EA	2.667	430.00	300.00	730.00
Maximum	EA	4.000	750.00	450.00	1,200.00
Porcelain enamel, cast iron, single bowl					
Minimum	EA	1.600	260.00	180.00	440.00
Average	EA	2.000	350.00	220.00	570.00
Maximum	EA	2.667	540.00	300.00	840.00
Double bowl					
Minimum	EA	2.000	370.00	220.00	590.00
Average	EA	2.667	510.00	300.00	810.00
Maximum	EA	4.000	730.00	450.00	1,180.00
Mop sink, 24"x36"x10"					
Minimum	EA	1.600	590.00	180.00	770.00
Average	EA	2.000	710.00	220.00	930.00
Maximum	EA	2.667	950.00	300.00	1,250.00
Washing machine box					
Minimum	EA	2.000	53.00	220.00	273.00
Average	EA	2.667	77.00	300.00	377.00
Maximum	EA	4.000	93.00	450.00	543.00
For trim and rough-in					
Minimum	EA	2.667	350.00	300.00	650.00
Average	EA	4.000	530.00	450.00	980.00
Maximum	EA	5.333	680.00	600.00	1,280.00

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	Unit	Man-Hrs	Material	Labor	Total
22421.90 BATHS					
BATHS					
Bathtub, 5' long					
Minimum	EA	2.667	640.00	300.00	940.00
Average	EA	4.000	1,400.00	450.00	1,850.00
Maximum	EA	8.000	3,190.00	900.00	4,090.00
6' long					
Minimum	EA	2.667	720.00	300.00	1,020.00
Average	EA	4.000	1,460.00	450.00	1,910.00
Maximum	EA	8.000	4,140.00	900.00	5,040.00
Square tub, whirlpool, 4'x4'					
Minimum	EA	4.000	2,200.00	450.00	2,650.00
Average	EA	8.000	3,110.00	900.00	4,010.00
Maximum	EA	10.000	9,500.00	1,120.00	10,620.00
5'x5'					
Minimum	EA	4.000	2,200.00	450.00	2,650.00
Average	EA	8.000	3,110.00	900.00	4,010.00
Maximum	EA	10.000	9,680.00	1,120.00	10,800.00
6'x6'					
Minimum	EA	4.000	2,680.00	450.00	3,130.00
Average	EA	8.000	3,910.00	900.00	4,810.00
Maximum	EA	10.000	11,220.00	1,120.00	12,340.00
For trim and rough-in					
Minimum	EA	2.667	230.00	300.00	530.00
Average	EA	4.000	330.00	450.00	780.00
Maximum	EA	8.000	950.00	900.00	1,850.00
22422.30 SHOWERS					
SHOWERS					
Shower, fiberglass, 36"x34"x84"					
Minimum	EA	5.714	690.00	640.00	1,330.00
Average	EA	8.000	970.00	900.00	1,870.00
Maximum	EA	8.000	1,400.00	900.00	2,300.00
Steel, 1 piece, 36"x36"					
Minimum	EA	5.714	640.00	640.00	1,280.00
Average	EA	8.000	970.00	900.00	1,870.00
Maximum	EA	8.000	1,140.00	900.00	2,040.00
Receptor, molded stone, 36"x36"					
Minimum	EA	2.667	270.00	300.00	570.00
Average	EA	4.000	450.00	450.00	900.00
Maximum	EA	6.667	690.00	750.00	1,440.00
For trim and rough-in					
Minimum	EA	3.636	270.00	410.00	680.00
Average	EA	4.444	450.00	500.00	950.00
Maximum	EA	8.000	560.00	900.00	1,460.00
22422.60 DISPOSALS & ACCESSORIES					
DISPOSALS & ACCESSORIES					
Disposal, continuous feed					
Minimum	EA	1.600	83.00	180.00	263.00
Average	EA	2.000	230.00	220.00	450.00
Maximum	EA	2.667	440.00	300.00	740.00
Batch feed, 1/2 hp					
Minimum	EA	1.600	320.00	180.00	500.00
Average	EA	2.000	640.00	220.00	860.00
Maximum	EA	2.667	1,090.00	300.00	1,390.00
Hot water dispenser					
Minimum	EA	1.600	230.00	180.00	410.00
Average	EA	2.000	370.00	220.00	590.00
Maximum	EA	2.667	580.00	300.00	880.00
Epoxy finish faucet	EA	1.600	330.00	180.00	510.00
Lock stop assembly	EA	1.000	70.00	110.00	180.00
Mounting gasket	EA	0.667	8.13	75.00	83.13
Tailpipe gasket	EA	0.667	1.19	75.00	76.19
Stopper assembly	EA	0.800	27.75	90.00	117.75
Switch assembly, on/off	EA	1.333	31.75	150.00	181.75

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	Unit	Man-Hrs	Material	Labor	Total
22422.60 DISPOSALS & ACCESSORIES (Cont.)					
Batch feed, 1/2 hp					
Tailpipe gasket washer	EA	0.400	1.27	44.75	46.02
Stop gasket	EA	0.444	2.79	49.75	52.54
Tailpipe flange	EA	0.400	0.31	44.75	45.06
Tailpipe	EA	0.500	3.62	56.00	59.62
22423.90 FAUCETS					
FAUCETS					
Kitchen					
Minimum	EA	1.333	95.00	150.00	245.00
Average	EA	1.600	270.00	180.00	450.00
Maximum	EA	2.000	330.00	220.00	550.00
Bath					
Minimum	EA	1.333	95.00	150.00	245.00
Average	EA	1.600	280.00	180.00	460.00
Maximum	EA	2.000	430.00	220.00	650.00
Lavatory, domestic					
Minimum	EA	1.333	100.00	150.00	250.00
Average	EA	1.600	320.00	180.00	500.00
Maximum	EA	2.000	530.00	220.00	750.00
Washroom					
Minimum	EA	1.333	130.00	150.00	280.00
Average	EA	1.600	320.00	180.00	500.00
Maximum	EA	2.000	580.00	220.00	800.00
Handicapped					
Minimum	EA	1.600	140.00	180.00	320.00
Average	EA	2.000	420.00	220.00	640.00
Maximum	EA	2.667	650.00	300.00	950.00
Shower					
Minimum	EA	1.333	130.00	150.00	280.00
Average	EA	1.600	370.00	180.00	550.00
Maximum	EA	2.000	2,780.00	220.00	3,000.00
For trim and rough-in					
Minimum	EA	1.600	89.00	180.00	269.00
Average	EA	2.000	140.00	220.00	360.00
Maximum	EA	4.000	230.00	450.00	680.00
22423.98 HOSE BIBBS					
HOSE BIBBS					
Hose bibb					
1/2"	EA	0.267	10.50	30.00	40.50
3/4"	EA	0.267	11.00	30.00	41.00

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	Unit	Man-Hrs	Material	Labor	Total
23071.31 DUCTWORK INSULATION					
DUCTWORK INSULATION					
Fiberglass duct insulation, plain blanket					
1-1/2" thick	SF	0.010	0.50	1.12	1.62
2" thick	SF	0.013	0.66	1.49	2.15
With vapor barrier					
1-1/2" thick	SF	0.010	0.58	1.12	1.70
2" thick	SF	0.013	0.73	1.49	2.22
Rigid with vapor barrier					
2" thick	SF	0.027	3.17	2.98	6.15
23211.37 STRAINERS					
STRAINERS					
Strainer, Y pattern, 125 psi, cast iron body, threaded					
3/4"	EA	0.286	19.25	32.00	51.25
250 psi, brass body, threaded					
3/4"	EA	0.320	36.00	35.75	71.75
Cast iron body, threaded					
3/4"	EA	0.320	29.50	35.75	65.25
23311.30 METAL DUCTWORK					
METAL DUCTWORK					
Rectangular duct					
Galvanized steel					
Minimum	LB	0.073	0.92	8.15	9.07
Average	LB	0.089	1.15	9.96	11.11
Maximum	LB	0.133	1.77	15.00	16.77
Aluminum					
Minimum	LB	0.160	2.40	18.00	20.40
Average	LB	0.200	3.21	22.50	25.71
Maximum	LB	0.267	3.98	30.00	33.98
Fittings					
Minimum	EA	0.267	9.91	30.00	39.91
Average	EA	0.400	14.75	44.75	59.50
Maximum	EA	0.800	21.75	90.00	111.75
23331.30 DAMPERS					
DAMPERS					
Horizontal parallel aluminum backdraft damper					
12" x 12"	EA	0.200	58.00	22.50	80.50
16" x 16"	EA	0.229	60.00	25.50	85.50
23334.60 FLEXIBLE DUCTWORK					
FLEXIBLE DUCTWORK					
Flexible duct, 1.25" fiberglass					
5" dia.	LF	0.040	3.47	4.48	7.95
6" dia.	LF	0.044	3.87	4.98	8.85
7" dia.	LF	0.047	4.77	5.27	10.04
8" dia.	LF	0.050	5.00	5.60	10.60
10" dia.	LF	0.057	6.66	6.40	13.06
12" dia.	LF	0.062	7.28	6.89	14.17
Flexible duct connector, 3" wide fabric	LF	0.133	2.43	15.00	17.43
23340.01 EXHAUST FANS					
EXHAUST FANS					
Belt drive roof exhaust fans					
640 cfm, 2618 fpm	EA	1.000	1,480.00	110.00	1,590.00
940 cfm, 2604 fpm	EA	1.000	1,920.00	110.00	2,030.00
23371.31 DIFFUSERS					
DIFFUSERS					
Ceiling diffusers, round, baked enamel finish					
6" dia.	EA	0.267	40.25	30.00	70.25
8" dia.	EA	0.333	48.50	37.25	85.75
10" dia.	EA	0.333	54.00	37.25	91.25
12" dia.	EA	0.333	69.00	37.25	106.25
Rectangular					
6x6"	EA	0.267	43.00	30.00	73.00

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	Unit	Man-Hrs	Material	Labor	Total
23371.31 DIFFUSERS (Cont.)					
Rectangular					
9x9"	EA	0.400	52.00	44.75	96.75
12x12"	EA	0.400	76.00	44.75	120.75
15x15"	EA	0.400	95.00	44.75	139.75
18x18"	EA	0.400	120.00	44.75	164.75
23371.34 REGISTERS AND GRILLES					
REGISTERS AND GRILLES					
Lay in flush mounted, perforated face, return					
6x6/24x24	EA	0.320	62.00	35.75	97.75
8x8/24x24	EA	0.320	62.00	35.75	97.75
9x9/24x24	EA	0.320	67.00	35.75	102.75
10x10/24x24	EA	0.320	72.00	35.75	107.75
12x12/24x24	EA	0.320	72.00	35.75	107.75
Rectangular, ceiling return, single deflection					
10x10	EA	0.400	32.25	44.75	77.00
12x12	EA	0.400	37.50	44.75	82.25
14x14	EA	0.400	45.75	44.75	90.50
16x8	EA	0.400	37.50	44.75	82.25
16x16	EA	0.400	37.50	44.75	82.25
Wall, return air register					
12x12	EA	0.200	53.00	22.50	75.50
16x16	EA	0.200	79.00	22.50	101.50
18x18	EA	0.200	93.00	22.50	115.50
Ceiling, return air grille					
6x6	EA	0.267	31.00	30.00	61.00
8x8	EA	0.320	38.50	35.75	74.25
10x10	EA	0.320	47.75	35.75	83.50
Ceiling, exhaust grille, aluminum egg crate					
6x6	EA	0.267	21.25	30.00	51.25
8x8	EA	0.320	21.25	35.75	57.00
10x10	EA	0.320	23.50	35.75	59.25
12x12	EA	0.400	29.00	44.75	73.75
23522.30 BOILERS					
BOILERS					
Cast iron, gas fired, hot water					
115 mbh	EA	20.000	3,150.00	2,930.00	6,080.00
175 mbh	EA	21.818	3,750.00	3,190.00	6,940.00
235 mbh	EA	24.000	4,800.00	3,510.00	8,310.00
Steam					
115 mbh	EA	20.000	3,810.00	2,930.00	6,740.00
175 mbh	EA	21.818	4,590.00	3,190.00	7,780.00
235 mbh	EA	24.000	5,450.00	3,510.00	8,960.00
Electric, hot water					
115 mbh	EA	12.000	5,630.00	1,760.00	7,390.00
175 mbh	EA	12.000	6,230.00	1,760.00	7,990.00
235 mbh	EA	12.000	7,110.00	1,760.00	8,870.00
Steam					
115 mbh	EA	12.000	7,110.00	1,760.00	8,870.00
175 mbh	EA	12.000	8,700.00	1,760.00	10,460.00
235 mbh	EA	12.000	9,500.00	1,760.00	11,260.00
Oil fired, hot water					
115 mbh	EA	16.000	4,150.00	2,340.00	6,490.00
175 mbh	EA	18.462	5,270.00	2,700.00	7,970.00
235 mbh	EA	21.818	7,280.00	3,190.00	10,470.00
Steam					
115 mbh	EA	16.000	4,150.00	2,340.00	6,490.00
175 mbh	EA	18.462	5,270.00	2,700.00	7,970.00
235 mbh	EA	21.818	6,720.00	3,190.00	9,910.00
23541.30 FURNACES					
FURNACES					
Electric, hot air					
40 mbh	EA	4.000	1,220.00	450.00	1,670.00
60 mbh	EA	4.211	1,320.00	470.00	1,790.00
80 mbh	EA	4.444	1,430.00	500.00	1,930.00

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	Unit	Man-Hrs	Material	Labor	Total
23541.30 FURNACES (Cont.)					
Electric, hot air					
100 mbh	EA	4.706	1,610.00	530.00	2,140.00
125 mbh	EA	4.848	1,970.00	540.00	2,510.00
Gas fired hot air					
40 mbh	EA	4.000	1,120.00	450.00	1,570.00
60 mbh	EA	4.211	1,200.00	470.00	1,670.00
80 mbh	EA	4.444	1,380.00	500.00	1,880.00
100 mbh	EA	4.706	1,440.00	530.00	1,970.00
125 mbh	EA	4.848	1,580.00	540.00	2,120.00
Oil fired hot air					
40 mbh	EA	4.000	1,500.00	450.00	1,950.00
60 mbh	EA	4.211	2,490.00	470.00	2,960.00
80 mbh	EA	4.444	2,510.00	500.00	3,010.00
100 mbh	EA	4.706	2,550.00	530.00	3,080.00
125 mbh	EA	4.848	2,640.00	540.00	3,180.00
23630.01 CONDENSING UNITS					
CONDENSING UNITS					
Air cooled condenser, single circuit					
3 ton	EA	1.333	1,990.00	150.00	2,140.00
5 ton	EA	1.333	3,000.00	150.00	3,150.00
With low ambient dampers					
3 ton	EA	2.000	2,180.00	220.00	2,400.00
5 ton	EA	2.000	3,430.00	220.00	3,650.00
23740.01 AIR HANDLING UNITS					
AIR HANDLING UNITS					
Air handling unit, medium pressure, single zone					
1500 cfm	EA	5.000	4,840.00	560.00	5,400.00
3000 cfm	EA	8.889	6,360.00	1,000.00	7,360.00
Rooftop air handling units					
4950 cfm	EA	8.889	13,910.00	1,000.00	14,910.00
7370 cfm	EA	11.429	17,640.00	1,280.00	18,920.00
23811.32 ROOFTOP UNITS					
ROOFTOP UNITS					
Packaged, single zone rooftop unit, with roof curb					
2 ton	EA	8.000	4,950.00	900.00	5,850.00
3 ton	EA	8.000	5,200.00	900.00	6,100.00
4 ton	EA	10.000	5,680.00	1,120.00	6,800.00
23823.60 RADIATION UNITS					
RADIATION UNITS					
Baseboard radiation unit					
1.7 mbh/lf	LF	0.320	90.00	35.75	125.75
2.1 mbh/lf	LF	0.400	120.00	44.75	164.75
23823.90 UNIT HEATERS					
UNIT HEATERS					
Steam unit heater, horizontal					
12,500 btuh, 200 cfm	EA	1.333	680.00	150.00	830.00
17,000 btuh, 300 cfm	EA	1.333	900.00	150.00	1,050.00
23833.30 ELECTRIC HEATING					
ELECTRIC HEATING					
Baseboard heater					
2', 375w	EA	1.000	53.00	100.00	153.00
3', 500w	EA	1.000	62.00	100.00	162.00
4', 750w	EA	1.143	69.00	120.00	189.00
5', 935w	EA	1.333	98.00	140.00	238.00
6', 1125w	EA	1.600	120.00	170.00	290.00
7', 1310w	EA	1.818	130.00	190.00	320.00
8', 1500w	EA	2.000	150.00	210.00	360.00
9', 1680w	EA	2.222	160.00	230.00	390.00
10', 1875w	EA	2.286	220.00	240.00	460.00
Unit heater, wall mounted					
750w	EA	1.600	210.00	170.00	380.00
1500w	EA	1.667	280.00	170.00	450.00

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23833.30 ELECTRIC HEATING (Cont.)

	Unit	Man-Hrs	Material	Labor	Total
Unit heater, wall mounted					
Thermostat					
Integral	EA	0.500	47.25	52.00	99.25
Line voltage	EA	0.500	48.50	52.00	100.50
Electric heater connection	EA	0.250	2.07	26.00	28.07
Fittings					
Inside corner	EA	0.400	30.50	41.75	72.25
Outside corner	EA	0.400	33.25	41.75	75.00
Receptacle section	EA	0.400	34.75	41.75	76.50
Blank section	EA	0.400	43.00	41.75	84.75
Radiant ceiling heater panels					
500w	EA	1.000	490.00	100.00	590.00
750w	EA	1.000	540.00	100.00	640.00
Unit heater thermostat	EA	0.533	76.00	56.00	132.00
Mounting bracket	EA	0.727	78.00	76.00	154.00
Relay	EA	0.615	99.00	64.00	163.00

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	Unit	Man-Hrs	Material	Labor	Total
26051.34 COPPER CONDUCTORS					
COPPER CONDUCTORS					
Copper conductors, type THW, solid					
#14	LF	0.004	0.20	0.41	0.61
#12	LF	0.005	0.31	0.52	0.83
#10	LF	0.006	0.48	0.62	1.10
THHN-THWN, solid					
#14	LF	0.004	0.20	0.41	0.61
#12	LF	0.005	0.31	0.52	0.83
#10	LF	0.006	0.48	0.62	1.10
Stranded					
#14	LF	0.004	0.20	0.41	0.61
#12	LF	0.005	0.31	0.52	0.83
#10	LF	0.006	0.48	0.62	1.10
#8	LF	0.008	0.83	0.83	1.66
#6	LF	0.009	1.30	0.93	2.23
#4	LF	0.010	2.06	1.04	3.10
#2	LF	0.012	2.88	1.25	4.13
#1	LF	0.014	3.64	1.46	5.10
1/0	LF	0.016	4.48	1.66	6.14
2/0	LF	0.020	5.54	2.08	7.62
3/0	LF	0.025	6.95	2.60	9.55
4/0	LF	0.028	8.70	2.92	11.62
Bare stranded wire					
#8	LF	0.008	0.72	0.83	1.55
#6	LF	0.010	1.20	1.04	2.24
#4	LF	0.010	1.87	1.04	2.91
#2	LF	0.011	2.99	1.14	4.13
#1	LF	0.014	3.75	1.46	5.21
Type BX solid armored cable					
#14/2	LF	0.025	1.37	2.60	3.97
#14/3	LF	0.028	2.17	2.92	5.09
#14/4	LF	0.031	3.04	3.20	6.24
#12/2	LF	0.028	1.41	2.92	4.33
#12/3	LF	0.031	2.26	3.20	5.46
#12/4	LF	0.035	3.14	3.62	6.76
#10/2	LF	0.031	2.62	3.20	5.82
#10/3	LF	0.035	3.75	3.62	7.37
#10/4	LF	0.040	5.83	4.16	9.99
Steel type, metal clad cable, solid, with ground					
#14/2	LF	0.018	1.13	1.87	3.00
#14/3	LF	0.020	1.74	2.08	3.82
#14/4	LF	0.023	2.34	2.38	4.72
#12/2	LF	0.020	1.17	2.08	3.25
#12/3	LF	0.025	1.93	2.60	4.53
#12/4	LF	0.030	2.60	3.14	5.74
#10/2	LF	0.023	2.41	2.38	4.79
#10/3	LF	0.028	3.36	2.92	6.28
#10/4	LF	0.033	5.22	3.47	8.69
26051.35 SHEATHED CABLE					
SHEATHED CABLE					
Non-metallic sheathed cable					
Type NM cable with ground					
#14/2	LF	0.015	0.45	1.55	2.00
#12/2	LF	0.016	0.63	1.66	2.29
#10/2	LF	0.018	0.99	1.85	2.84
#8/2	LF	0.020	1.62	2.08	3.70
#6/2	LF	0.025	2.56	2.60	5.16
#14/3	LF	0.026	0.56	2.68	3.24
#12/3	LF	0.027	0.90	2.77	3.67
#10/3	LF	0.027	1.42	2.82	4.24
#8/3	LF	0.028	2.38	2.87	5.25
#6/3	LF	0.028	3.85	2.92	6.77
#4/3	LF	0.032	7.98	3.33	11.31
#2/3	LF	0.035	12.00	3.62	15.62

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	Unit	Man-Hrs	Material	Labor	Total
26051.35 SHEATHED CABLE (Cont.)					
Non-metallic sheathed cable					
Type UF cable with ground					
#14/2	LF	0.016	0.52	1.66	2.18
#12/2	LF	0.019	0.78	1.98	2.76
#14/3	LF	0.020	0.73	2.08	2.81
#12/3	LF	0.022	1.11	2.28	3.39
Type SFU cable, 3 conductor					
#8	LF	0.028	2.24	2.92	5.16
#6	LF	0.031	3.91	3.20	7.11
Type SER cable, 4 conductor					
#6	LF	0.036	5.60	3.78	9.38
#4	LF	0.039	7.84	4.06	11.90
Flexible cord, type STO cord					
#18/2	LF	0.004	0.86	0.41	1.27
#18/3	LF	0.005	1.01	0.52	1.53
#18/4	LF	0.006	1.40	0.62	2.02
#16/2	LF	0.004	0.99	0.41	1.40
#16/3	LF	0.004	0.83	0.46	1.29
#16/4	LF	0.005	1.17	0.52	1.69
#14/2	LF	0.005	1.56	0.52	2.08
#14/3	LF	0.006	1.42	0.64	2.06
#14/4	LF	0.007	1.75	0.72	2.47
#12/2	LF	0.006	1.97	0.62	2.59
#12/3	LF	0.007	1.48	0.69	2.17
#12/4	LF	0.008	2.15	0.83	2.98
#10/2	LF	0.007	2.45	0.72	3.17
#10/3	LF	0.008	2.35	0.83	3.18
#10/4	LF	0.009	3.63	0.93	4.56
26051.37 ALUMINUM CONDUCTORS					
ALUMINUM CONDUCTORS					
Type XHHW, stranded aluminum, 600v					
#8	LF	0.005	0.57	0.52	1.09
#6	LF	0.006	0.60	0.62	1.22
#4	LF	0.008	0.74	0.83	1.57
#2	LF	0.009	1.02	0.93	1.95
1/0	LF	0.011	1.61	1.14	2.75
2/0	LF	0.012	2.09	1.25	3.34
3/0	LF	0.014	2.61	1.46	4.07
4/0	LF	0.015	2.91	1.55	4.46
Type SEU cable					
#8/3	LF	0.025	2.67	2.60	5.27
#6/3	LF	0.028	2.67	2.92	5.59
#4/3	LF	0.035	3.44	3.62	7.06
#2/3	LF	0.038	4.58	3.96	8.54
#1/3	LF	0.040	6.21	4.16	10.37
1/0-3	LF	0.042	6.98	4.38	11.36
2/0-3	LF	0.044	8.02	4.62	12.64
3/0-3	LF	0.052	11.25	5.37	16.62
4/0-3	LF	0.057	11.25	5.95	17.20
Type SER cable with ground					
#8/3	LF	0.028	2.91	2.92	5.83
#6/3	LF	0.035	3.29	3.62	6.91
26052.34 CONTROL CABLE					
CONTROL CABLE					
Control cable, 600v, #14 THWN, PVC jacket					
2 wire	LF	0.008	0.65	0.83	1.48
4 wire	LF	0.010	1.10	1.04	2.14
26052.61 GROUNDING					
GROUNDING					
Ground rods, copper clad, 1/2" x					
6'	EA	0.667	22.75	69.00	91.75
8'	EA	0.727	31.25	76.00	107.25

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	Unit	Man-Hrs	Material	Labor	Total
26052.61 GROUNDING (Cont.)					
Ground rods, copper clad, 1/2" x					
5/8" x					
6'	EA	0.727	29.75	76.00	105.75
8'	EA	1.000	38.50	100.00	138.50
Ground rod clamp					
5/8"	EA	0.123	12.75	12.75	25.50
Ground rod couplings					
1/2"	EA	0.100	20.50	10.50	31.00
5/8"	EA	0.100	28.75	10.50	39.25
Ground rod, driving stud					
1/2"	EA	0.100	13.00	10.50	23.50
5/8"	EA	0.100	15.50	10.50	26.00
Ground rod clamps, #8-2 to					
1" pipe	EA	0.200	14.75	20.75	35.50
2" pipe	EA	0.250	18.50	26.00	44.50
26052.92 CONDUIT SPECIALTIES					
CONDUIT SPECIALTIES					
Rod beam clamp, 1/2"	EA	0.050	9.72	5.20	14.92
Hanger rod					
3/8"	LF	0.040	2.35	4.16	6.51
1/2"	LF	0.050	5.88	5.20	11.08
All thread rod					
1/4"	LF	0.030	0.76	3.14	3.90
3/8"	LF	0.040	0.86	4.16	5.02
1/2"	LF	0.050	1.61	5.20	6.81
5/8"	LF	0.080	2.83	8.33	11.16
Hanger channel, 1-1/2"					
No holes	EA	0.030	6.47	3.14	9.61
Holes	EA	0.030	8.00	3.14	11.14
Channel strap					
1/2"	EA	0.050	2.01	5.20	7.21
3/4"	EA	0.050	2.71	5.20	7.91
Conduit penetrations, roof and wall, 8" thick					
1/2"	EA	0.615		64.00	64.00
3/4"	EA	0.615		64.00	64.00
1"	EA	0.800		83.00	83.00
Threaded rod couplings					
1/4"	EA	0.050	2.59	5.20	7.79
3/8"	EA	0.050	2.74	5.20	7.94
1/2"	EA	0.050	3.09	5.20	8.29
5/8"	EA	0.050	4.75	5.20	9.95
3/4"	EA	0.050	5.20	5.20	10.40
Hex nuts, 1/4"	EA	0.050	0.21	5.20	5.41
3/8"	EA	0.050	0.32	5.20	5.52
1/2"	EA	0.050	0.69	5.20	5.89
5/8"	EA	0.050	1.50	5.20	6.70
3/4"	EA	0.050	1.98	5.20	7.18
Square nuts					
1/4"	EA	0.050	0.18	5.20	5.38
3/8"	EA	0.050	0.36	5.20	5.56
1/2"	EA	0.050	0.61	5.20	5.81
5/8"	EA	0.050	0.81	5.20	6.01
3/4"	EA	0.050	1.43	5.20	6.63
Flat washers, material only					
1/4"	EA				0.21
3/8"	EA				0.29
1/2"	EA				0.40
5/8"	EA				0.81
3/4"	EA				1.14
Lockwashers					
1/4"	EA				0.13
3/8"	EA				0.22
1/2"	EA				0.28

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	Unit	Man-Hrs	Material	Labor	Total
26052.92 CONDUIT SPECIALTIES (Cont.)					
Lockwashers					
5/8"	EA				0.48
3/4"	EA				0.81
26053.34 SURFACE MOUNTED RACEWAY					
SURFACE MOUNTED RACEWAY					
Single Raceway					
3/4" x 17/32" Conduit	LF	0.040	2.78	4.16	6.94
Mounting Strap	EA	0.053	0.75	5.55	6.30
Connector	EA	0.053	1.00	5.55	6.55
Elbow					
45 degree	EA	0.050	12.75	5.20	17.95
90 degree	EA	0.050	4.05	5.20	9.25
internal	EA	0.050	5.09	5.20	10.29
external	EA	0.050	4.71	5.20	9.91
Switch	EA	0.400	33.00	41.75	74.75
Utility Box	EA	0.400	22.25	41.75	64.00
Receptacle	EA	0.400	39.00	41.75	80.75
3/4" x 21/32" Conduit	LF	0.040	3.17	4.16	7.33
Mounting Strap	EA	0.053	1.17	5.55	6.72
Connector	EA	0.053	1.20	5.55	6.75
Elbow					
45 degree	EA	0.050	9.41	5.20	14.61
90 degree	EA	0.050	3.49	5.20	8.69
internal	EA	0.050	4.73	5.20	9.93
external	EA	0.050	4.73	5.20	9.93
Switch	EA	0.400	26.75	41.75	68.50
Utility Box	EA	0.400	18.00	41.75	59.75
Receptacle	EA	0.400	31.50	41.75	73.25
26053.38 BOXES					
BOXES					
Round cast box, type SEH					
1/2"	EA	0.348	41.25	36.25	77.50
3/4"	EA	0.421	41.25	43.75	85.00
SEHC					
1/2"	EA	0.348	49.25	36.25	85.50
3/4"	EA	0.421	49.25	43.75	93.00
SEHL					
1/2"	EA	0.348	51.00	36.25	87.25
3/4"	EA	0.444	49.25	46.25	95.50
SEHT					
1/2"	EA	0.421	54.00	43.75	97.75
3/4"	EA	0.500	54.00	52.00	106.00
SEHX					
1/2"	EA	0.500	59.00	52.00	111.00
3/4"	EA	0.615	59.00	64.00	123.00
Blank cover	EA	0.145	9.98	15.25	25.23
1/2", hub cover	EA	0.145	9.54	15.25	24.79
Cover with gasket	EA	0.178	10.50	18.50	29.00
Rectangle, type FS boxes					
1/2"	EA	0.348	21.50	36.25	57.75
3/4"	EA	0.400	22.50	41.75	64.25
1"	EA	0.500	24.50	52.00	76.50
FSA					
1/2"	EA	0.348	38.00	36.25	74.25
3/4"	EA	0.400	35.50	41.75	77.25
FSC					
1/2"	EA	0.348	23.75	36.25	60.00
3/4"	EA	0.421	26.00	43.75	69.75
1"	EA	0.500	32.25	52.00	84.25
FSL					
1/2"	EA	0.348	38.00	36.25	74.25
3/4"	EA	0.400	37.75	41.75	79.50

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26053.38 BOXES (Cont.)

	Unit	Man-Hrs	Material	Labor	Total
Rectangle, type FS boxes					
FSR					
1/2"	EA	0.348	39.50	36.25	75.75
3/4"	EA	0.400	40.00	41.75	81.75
FSS					
1/2"	EA	0.348	23.75	36.25	60.00
3/4"	EA	0.400	26.00	41.75	67.75
FSLA					
1/2"	EA	0.348	16.25	36.25	52.50
3/4"	EA	0.400	18.25	41.75	60.00
FSCA					
1/2"	EA	0.348	47.75	36.25	84.00
3/4"	EA	0.400	46.00	41.75	87.75
FSCC					
1/2"	EA	0.400	29.00	41.75	70.75
3/4"	EA	0.500	43.25	52.00	95.25
FSCT					
1/2"	EA	0.400	29.00	41.75	70.75
3/4"	EA	0.500	36.00	52.00	88.00
1"	EA	0.571	29.50	60.00	89.50
FST					
1/2"	EA	0.500	42.50	52.00	94.50
3/4"	EA	0.571	42.50	60.00	102.50
FSX					
1/2"	EA	0.615	48.50	64.00	112.50
3/4"	EA	0.727	44.75	76.00	120.75
FSCD boxes					
1/2"	EA	0.615	40.50	64.00	104.50
3/4"	EA	0.727	42.50	76.00	118.50
Rectangle, type FS, 2 gang boxes					
1/2"	EA	0.348	45.25	36.25	81.50
3/4"	EA	0.400	46.75	41.75	88.50
1"	EA	0.500	49.25	52.00	101.25
FSC, 2 gang boxes					
1/2"	EA	0.348	48.00	36.25	84.25
3/4"	EA	0.400	53.00	41.75	94.75
1"	EA	0.500	65.00	52.00	117.00
FSS, 2 gang boxes					
3/4"	EA	0.400	50.00	41.75	91.75
FS, tandem boxes					
1/2"	EA	0.400	50.00	41.75	91.75
3/4"	EA	0.444	51.00	46.25	97.25
FSC, tandem boxes					
1/2"	EA	0.400	68.00	41.75	109.75
3/4"	EA	0.444	72.00	46.25	118.25
FS, three gang boxes					
3/4"	EA	0.444	74.00	46.25	120.25
1"	EA	0.500	81.00	52.00	133.00
FSS, three gang boxes, 3/4"	EA	0.500	95.00	52.00	147.00
Weatherproof cast aluminum boxes, 1 gang, 3 outlets					
1/2"	EA	0.400	11.25	41.75	53.00
3/4"	EA	0.500	12.25	52.00	64.25
2 gang, 3 outlets					
1/2"	EA	0.500	21.50	52.00	73.50
3/4"	EA	0.533	23.00	56.00	79.00
1 gang, 4 outlets					
1/2"	EA	0.615	19.50	64.00	83.50
3/4"	EA	0.727	21.50	76.00	97.50
2 gang, 4 outlets					
1/2"	EA	0.615	20.50	64.00	84.50
3/4"	EA	0.727	22.75	76.00	98.75
1 gang, 5 outlets					
1/2"	EA	0.727	16.25	76.00	92.25
3/4"	EA	0.800	19.25	83.00	102.25

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	Unit	Man-Hrs	Material	Labor	Total
26053.38 BOXES (Cont.)					
Weatherproof cast aluminum boxes, 1 gang, 3 outlets					
2 gang, 5 outlets					
1/2"	EA	0.727	29.25	76.00	105.25
3/4"	EA	0.800	35.50	83.00	118.50
2 gang, 6 outlets					
1/2"	EA	0.851	33.25	89.00	122.25
3/4"	EA	0.899	35.50	94.00	129.50
2 gang, 7 outlets					
1/2"	EA	1.000	35.25	100.00	135.25
3/4"	EA	1.096	44.00	110.00	154.00
Weatherproof and type FS box covers, blank, 1 gang	EA	0.145	5.12	15.25	20.37
Tumbler switch, 1 gang	EA	0.145	10.50	15.25	25.75
1 gang, single recept	EA	0.145	6.63	15.25	21.88
Duplex recept	EA	0.145	8.45	15.25	23.70
Despard	EA	0.145	8.48	15.25	23.73
Red pilot light	EA	0.145	40.00	15.25	55.25
SW and					
Single recept	EA	0.200	17.75	20.75	38.50
Duplex recept	EA	0.200	14.50	20.75	35.25
2 gang					
Blank	EA	0.182	5.32	19.00	24.32
Tumbler switch	EA	0.182	7.00	19.00	26.00
Single recept	EA	0.182	7.00	19.00	26.00
Duplex recept	EA	0.182	7.00	19.00	26.00
3 gang					
Blank	EA	0.200	12.25	20.75	33.00
Tumbler switch	EA	0.200	15.25	20.75	36.00
4 gang					
Tumbler switch	EA	0.250	19.25	26.00	45.25
Box covers					
Surface	EA	0.200	27.00	20.75	47.75
Sealing	EA	0.200	29.25	20.75	50.00
Dome	EA	0.200	40.50	20.75	61.25
1/2" nipple	EA	0.200	52.00	20.75	72.75
3/4" nipple	EA	0.200	53.00	20.75	73.75
26053.39 PULL AND JUNCTION BOXES					
PULL AND JUNCTION BOXES					
4"					
Octagon box	EA	0.114	5.67	12.00	17.67
Box extension	EA	0.059	9.55	6.17	15.72
Plaster ring	EA	0.059	5.24	6.17	11.41
Cover blank	EA	0.059	2.31	6.17	8.48
Square box	EA	0.114	8.16	12.00	20.16
Box extension	EA	0.059	8.00	6.17	14.17
Plaster ring	EA	0.059	4.38	6.17	10.55
Cover blank	EA	0.059	2.24	6.17	8.41
Switch and device boxes					
2 gang	EA	0.114	24.75	12.00	36.75
3 gang	EA	0.114	43.50	12.00	55.50
4 gang	EA	0.160	58.00	16.75	74.75
Device covers					
2 gang	EA	0.059	19.75	6.17	25.92
3 gang	EA	0.059	20.25	6.17	26.42
4 gang	EA	0.059	27.50	6.17	33.67
Handy box	EA	0.114	6.08	12.00	18.08
Extension	EA	0.059	5.73	6.17	11.90
Switch cover	EA	0.059	3.04	6.17	9.21
Switch box with knockout	EA	0.145	9.14	15.25	24.39
Weatherproof cover, spring type	EA	0.080	17.00	8.33	25.33
Cover plate, dryer receptacle 1 gang plastic	EA	0.100	2.59	10.50	13.09
For 4" receptacle, 2 gang	EA	0.100	4.63	10.50	15.13

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	Unit	Man-Hrs	Material	Labor	Total
26053.39 PULL AND JUNCTION BOXES (Cont.)					
Duplex receptacle cover plate, plastic	EA	0.059	1.14	6.17	7.31
4", vertical bracket box, 1-1/2" with					
RMX clamps	EA	0.145	11.75	15.25	27.00
BX clamps	EA	0.145	12.75	15.25	28.00
4", octagon device cover					
1 switch	EA	0.059	6.91	6.17	13.08
1 duplex recept	EA	0.059	6.91	6.17	13.08
4", octagon swivel hanger box, 1/2" hub	EA	0.059	18.50	6.17	24.67
3/4" hub	EA	0.059	21.00	6.17	27.17
4" octagon adjustable bar hangers					
18-1/2"	EA	0.050	8.58	5.20	13.78
26-1/2"	EA	0.050	9.37	5.20	14.57
With clip					
18-1/2"	EA	0.050	6.35	5.20	11.55
26-1/2"	EA	0.050	7.12	5.20	12.32
4", square face bracket boxes, 1-1/2"					
RMX	EA	0.145	14.00	15.25	29.25
BX	EA	0.145	15.25	15.25	30.50
4" square to round plaster rings	EA	0.059	4.67	6.17	10.84
2 gang device plaster rings	EA	0.059	4.82	6.17	10.99
Surface covers					
1 gang switch	EA	0.059	4.21	6.17	10.38
2 gang switch	EA	0.059	4.31	6.17	10.48
1 single recept	EA	0.059	6.35	6.17	12.52
1 20a twist lock recept	EA	0.059	7.93	6.17	14.10
1 30a twist lock recept	EA	0.059	10.25	6.17	16.42
1 duplex recept	EA	0.059	3.93	6.17	10.10
2 duplex recept	EA	0.059	3.93	6.17	10.10
Switch and duplex recept	EA	0.059	6.56	6.17	12.73
4" plastic round boxes, ground straps					
Box only	EA	0.145	2.99	15.25	18.24
Box w/clamps	EA	0.200	3.48	20.75	24.23
Box w/16" bar	EA	0.229	7.39	23.75	31.14
Box w/24" bar	EA	0.250	7.37	26.00	33.37
4" plastic round box covers					
Blank cover	EA	0.059	1.95	6.17	8.12
Plaster ring	EA	0.059	3.19	6.17	9.36
4" plastic square boxes					
Box only	EA	0.145	2.31	15.25	17.56
Box w/clamps	EA	0.200	2.86	20.75	23.61
Box w/hanger	EA	0.250	3.52	26.00	29.52
Box w/nails and clamp	EA	0.250	5.04	26.00	31.04
4" plastic square box covers					
Blank cover	EA	0.059	1.90	6.17	8.07
1 gang ring	EA	0.059	2.31	6.17	8.48
2 gang ring	EA	0.059	3.24	6.17	9.41
Round ring	EA	0.059	2.57	6.17	8.74
26053.41 ALUMINUM CONDUIT					
ALUMINUM CONDUIT					
Aluminum conduit					
1/2"	LF	0.030	2.80	3.14	5.94
3/4"	LF	0.040	3.59	4.16	7.75
1"	LF	0.050	5.03	5.20	10.23
90 deg. elbow					
1/2"	EA	0.190	21.50	19.75	41.25
3/4"	EA	0.250	29.25	26.00	55.25
1"	EA	0.308	40.75	32.00	72.75
Coupling					
1/2"	EA	0.050	4.40	5.20	9.60
3/4"	EA	0.059	6.66	6.17	12.83
1"	EA	0.080	8.79	8.33	17.12

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26053.42 EMT CONDUIT

	Unit	Man-Hrs	Material	Labor	Total
EMT CONDUIT					
EMT conduit					
1/2"	LF	0.030	0.76	3.14	3.90
3/4"	LF	0.040	1.40	4.16	5.56
1"	LF	0.050	2.33	5.20	7.53
90 deg. elbow					
1/2"	EA	0.089	6.12	9.25	15.37
3/4"	EA	0.100	6.72	10.50	17.22
1"	EA	0.107	10.25	11.00	21.25
Connector, steel compression					
1/2"	EA	0.089	1.87	9.25	11.12
3/4"	EA	0.089	3.58	9.25	12.83
1"	EA	0.089	5.39	9.25	14.64
Coupling, steel, compression					
1/2"	EA	0.059	3.18	6.17	9.35
3/4"	EA	0.059	4.33	6.17	10.50
1"	EA	0.059	6.55	6.17	12.72
1 hole strap, steel					
1/2"	EA	0.040	0.21	4.16	4.37
3/4"	EA	0.040	0.26	4.16	4.42
1"	EA	0.040	0.40	4.16	4.56
Connector, steel set screw					
1/2"	EA	0.070	1.68	7.24	8.92
3/4"	EA	0.070	2.69	7.24	9.93
1"	EA	0.070	4.65	7.24	11.89
Insulated throat					
1/2"	EA	0.070	1.89	7.24	9.13
3/4"	EA	0.070	3.08	7.24	10.32
1"	EA	0.070	5.08	7.24	12.32
Connector, die cast set screw					
1/2"	EA	0.059	1.15	6.17	7.32
3/4"	EA	0.059	1.96	6.17	8.13
1"	EA	0.059	3.69	6.17	9.86
Insulated throat					
1/2"	EA	0.059	2.45	6.17	8.62
3/4"	EA	0.059	3.96	6.17	10.13
1"	EA	0.059	6.90	6.17	13.07
Coupling, steel set screw					
1/2"	EA	0.040	2.58	4.16	6.74
3/4"	EA	0.040	3.88	4.16	8.04
1"	EA	0.040	6.29	4.16	10.45
Diecast set screw					
1/2"	EA	0.040	1.06	4.16	5.22
3/4"	EA	0.040	1.71	4.16	5.87
1"	EA	0.040	2.83	4.16	6.99
1 hole malleable straps					
1/2"	EA	0.040	0.49	4.16	4.65
3/4"	EA	0.040	0.67	4.16	4.83
1"	EA	0.040	1.11	4.16	5.27
EMT to rigid compression coupling					
1/2"	EA	0.100	5.72	10.50	16.22
3/4"	EA	0.100	8.16	10.50	18.66
1"	EA	0.150	12.50	15.50	28.00
Set screw couplings					
1/2"	EA	0.100	1.50	10.50	12.00
3/4"	EA	0.100	2.26	10.50	12.76
1"	EA	0.145	3.78	15.25	19.03
Set screw offset connectors					
1/2"	EA	0.100	3.35	10.50	13.85
3/4"	EA	0.100	4.51	10.50	15.01
1"	EA	0.145	8.17	15.25	23.42
Compression offset connectors					
1/2"	EA	0.100	5.53	10.50	16.03
3/4"	EA	0.100	7.01	10.50	17.51
1"	EA	0.145	10.25	15.25	25.50

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	Unit	Man-Hrs	Material	Labor	Total
26053.42 EMT CONDUIT (Cont.)					
EMT conduit					
Type LB set screw condulets					
1/2"	EA	0.229	15.75	23.75	39.50
3/4"	EA	0.296	19.25	30.75	50.00
1"	EA	0.381	29.25	39.75	69.00
Type T set screw condulets					
1/2"	EA	0.296	16.75	30.75	47.50
3/4"	EA	0.400	21.00	41.75	62.75
1"	EA	0.444	30.25	46.25	76.50
Type C set screw condulets					
1/2"	EA	0.250	14.00	26.00	40.00
3/4"	EA	0.296	17.50	30.75	48.25
1"	EA	0.381	26.25	39.75	66.00
Type LL set screw condulets					
1/2"	EA	0.250	14.00	26.00	40.00
3/4"	EA	0.296	17.25	30.75	48.00
1"	EA	0.381	26.00	39.75	65.75
Type LR set screw condulets					
1/2"	EA	0.250	14.00	26.00	40.00
3/4"	EA	0.296	17.25	30.75	48.00
1"	EA	0.381	26.00	39.75	65.75
Type LB compression condulets					
1/2"	EA	0.296	31.50	30.75	62.25
3/4"	EA	0.500	46.75	52.00	98.75
1"	EA	0.500	60.00	52.00	112.00
Type T compression condulets					
1/2"	EA	0.400	42.25	41.75	84.00
3/4"	EA	0.444	56.00	46.25	102.25
1"	EA	0.615	86.00	64.00	150.00
Condulet covers					
1/2"	EA	0.123	2.29	12.75	15.04
3/4"	EA	0.123	2.78	12.75	15.53
1"	EA	0.123	3.79	12.75	16.54
Clamp type entrance caps					
1/2"	EA	0.250	12.25	26.00	38.25
3/4"	EA	0.296	14.50	30.75	45.25
1"	EA	0.400	17.00	41.75	58.75
Slip fitter type entrance caps					
1/2"	EA	0.250	8.96	26.00	34.96
3/4"	EA	0.296	10.75	30.75	41.50
1"	EA	0.400	13.00	41.75	54.75
26053.43 FLEXIBLE CONDUIT					
FLEXIBLE CONDUIT					
Flexible conduit, steel					
3/8"	LF	0.030	0.96	3.14	4.10
1/2	LF	0.030	1.09	3.14	4.23
3/4"	LF	0.040	1.50	4.16	5.66
1"	LF	0.040	2.85	4.16	7.01
Flexible conduit, liquid tight					
3/8"	LF	0.030	2.14	3.14	5.28
1/2"	LF	0.030	2.42	3.14	5.56
3/4"	LF	0.040	3.30	4.16	7.46
1"	LF	0.040	4.98	4.16	9.14
Connector, straight					
3/8"	EA	0.080	3.62	8.33	11.95
1/2"	EA	0.080	3.87	8.33	12.20
3/4"	EA	0.089	4.93	9.25	14.18
1"	EA	0.100	8.79	10.50	19.29
Straight insulated throat connectors					
3/8"	EA	0.123	4.94	12.75	17.69
1/2"	EA	0.123	4.94	12.75	17.69
3/4"	EA	0.145	7.23	15.25	22.48

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	Unit	Man-Hrs	Material	Labor	Total
26053.43 FLEXIBLE CONDUIT (Cont.)					
Straight insulated throat connectors					
1"	EA	0.145	11.25	15.25	26.50
90 deg connectors					
3/8"	EA	0.148	6.90	15.50	22.40
1/2"	EA	0.148	6.90	15.50	22.40
3/4"	EA	0.170	11.00	17.75	28.75
1"	EA	0.182	21.25	19.00	40.25
90 degree insulated throat connectors					
3/8"	EA	0.145	8.53	15.25	23.78
1/2"	EA	0.145	8.53	15.25	23.78
3/4"	EA	0.170	12.75	17.75	30.50
1"	EA	0.178	24.50	18.50	43.00
Flexible aluminum conduit					
3/8"	LF	0.030	0.56	3.14	3.70
1/2"	LF	0.030	0.67	3.14	3.81
3/4"	LF	0.040	0.92	4.16	5.08
1"	LF	0.040	1.74	4.16	5.90
Connector, straight					
3/8"	EA	0.100	1.72	10.50	12.22
1/2"	EA	0.100	2.40	10.50	12.90
3/4"	EA	0.107	2.62	11.00	13.62
1"	EA	0.123	9.61	12.75	22.36
Straight insulated throat connectors					
3/8"	EA	0.089	1.68	9.25	10.93
1/2"	EA	0.089	3.38	9.25	12.63
3/4"	EA	0.089	3.59	9.25	12.84
1"	EA	0.100	8.74	10.50	19.24
90 deg connectors					
3/8"	EA	0.145	2.76	15.25	18.01
1/2"	EA	0.145	4.66	15.25	19.91
3/4"	EA	0.145	7.32	15.25	22.57
1"	EA	0.170	12.75	17.75	30.50
90 deg insulated throat connectors					
3/8"	EA	0.145	3.42	15.25	18.67
1/2"	EA	0.145	5.18	15.25	20.43
3/4"	EA	0.145	8.64	15.25	23.89
1"	EA	0.170	14.25	17.75	32.00
26053.44 GALVANIZED CONDUIT					
GALVANIZED CONDUIT					
Galvanized rigid steel conduit					
1/2"	LF	0.040	3.89	4.16	8.05
3/4"	LF	0.050	4.30	5.20	9.50
1"	LF	0.059	6.21	6.17	12.38
1-1/4"	LF	0.080	8.59	8.33	16.92
1-1/2"	LF	0.089	10.00	9.25	19.25
2"	LF	0.100	12.75	10.50	23.25
90 degree ell					
1/2"	EA	0.250	10.25	26.00	36.25
3/4"	EA	0.308	10.75	32.00	42.75
1"	EA	0.381	16.50	39.75	56.25
1-1/4"	EA	0.444	22.75	46.25	69.00
1-1/2"	EA	0.500	28.00	52.00	80.00
2"	EA	0.533	40.75	56.00	96.75
Couplings, with set screws					
1/2"	EA	0.050	5.17	5.20	10.37
3/4"	EA	0.059	6.82	6.17	12.99
1"	EA	0.080	11.00	8.33	19.33
1-1/4"	EA	0.100	18.50	10.50	29.00
1-1/2"	EA	0.123	24.00	12.75	36.75
2"	EA	0.145	54.00	15.25	69.25
Split couplings					
1/2"	EA	0.190	4.40	19.75	24.15
3/4"	EA	0.250	5.72	26.00	31.72
1"	EA	0.276	8.03	28.75	36.78

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26053.44 GALVANIZED CONDUIT (Cont.)

	Unit	Man-Hrs	Material	Labor	Total
Split couplings					
1-1/4"	EA	0.308	15.75	32.00	47.75
1-1/2"	EA	0.381	20.50	39.75	60.25
2"	EA	0.571	47.25	60.00	107.25
Erickson couplings					
1/2"	EA	0.444	6.29	46.25	52.54
3/4"	EA	0.500	7.69	52.00	59.69
1"	EA	0.615	13.50	64.00	77.50
1-1/4"	EA	0.889	24.25	93.00	117.25
1-1/2"	EA	1.000	31.50	100.00	131.50
2"	EA	1.333	61.00	140.00	201.00
Seal fittings					
1/2"	EA	0.667	24.00	69.00	93.00
3/4"	EA	0.800	26.25	83.00	109.25
1"	EA	1.000	33.50	100.00	133.50
1-1/4"	EA	1.143	34.75	120.00	154.75
1-1/2"	EA	1.333	61.00	140.00	201.00
2"	EA	1.600	66.00	170.00	236.00
Entrance fitting (weatherhead), threaded					
1/2"	EA	0.444	11.00	46.25	57.25
3/4"	EA	0.500	13.50	52.00	65.50
1"	EA	0.571	17.50	60.00	77.50
1-1/4"	EA	0.727	22.50	76.00	98.50
1-1/2"	EA	0.800	40.00	83.00	123.00
2"	EA	0.889	61.00	93.00	154.00
Locknuts					
1/2"	EA	0.050	0.28	5.20	5.48
3/4"	EA	0.050	0.36	5.20	5.56
1"	EA	0.050	0.57	5.20	5.77
1-1/4"	EA	0.050	0.78	5.20	5.98
1-1/2"	EA	0.059	1.29	6.17	7.46
2"	EA	0.059	1.86	6.17	8.03
Plastic conduit bushings					
1/2"	EA	0.123	0.49	12.75	13.24
3/4"	EA	0.145	0.74	15.25	15.99
1"	EA	0.190	1.05	19.75	20.80
1-1/4"	EA	0.222	1.38	23.25	24.63
1-1/2"	EA	0.250	1.87	26.00	27.87
2"	EA	0.308	4.25	32.00	36.25
Conduit bushings, steel					
1/2"	EA	0.123	0.68	12.75	13.43
3/4"	EA	0.145	0.86	15.25	16.11
1"	EA	0.190	1.31	19.75	21.06
1-1/4"	EA	0.222	1.87	23.25	25.12
1-1/2"	EA	0.250	2.67	26.00	28.67
2"	EA	0.308	5.43	32.00	37.43
Pipe cap					
1/2"	EA	0.050	0.63	5.20	5.83
3/4"	EA	0.050	0.69	5.20	5.89
1"	EA	0.050	1.10	5.20	6.30
1-1/4"	EA	0.080	1.90	8.33	10.23
1-1/2"	EA	0.080	2.95	8.33	11.28
2"	EA	0.080	3.32	8.33	11.65
Threaded couplings					
1/2"	EA	0.050	2.37	5.20	7.57
3/4"	EA	0.059	2.91	6.17	9.08
1"	EA	0.080	4.32	8.33	12.65
1-1/4"	EA	0.089	5.40	9.25	14.65
1-1/2"	EA	0.100	6.63	10.50	17.13
2"	EA	0.107	9.02	11.00	20.02
Threadless couplings					
1/2"	EA	0.100	9.65	10.50	20.15
3/4"	EA	0.123	10.00	12.75	22.75
1"	EA	0.145	13.00	15.25	28.25

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26053.44 GALVANIZED CONDUIT (Cont.)

	Unit	Man-Hrs	Material	Labor	Total
Threadless couplings					
1-1/4"	EA	0.190	15.25	19.75	35.00
1-1/2"	EA	0.250	18.00	26.00	44.00
2"	EA	0.308	26.50	32.00	58.50
Threadless connectors					
1/2"	EA	0.100	4.59	10.50	15.09
3/4"	EA	0.123	7.35	12.75	20.10
1"	EA	0.145	11.50	15.25	26.75
1-1/4"	EA	0.190	19.75	19.75	39.50
1-1/2"	EA	0.250	30.00	26.00	56.00
2"	EA	0.308	58.00	32.00	90.00
Setscrew connectors					
1/2"	EA	0.080	3.35	8.33	11.68
3/4"	EA	0.089	4.65	9.25	13.90
1"	EA	0.100	7.25	10.50	17.75
1-1/4"	EA	0.123	12.75	12.75	25.50
1-1/2"	EA	0.145	18.50	15.25	33.75
2"	EA	0.190	36.75	19.75	56.50
Clamp type entrance caps					
1/2"	EA	0.308	13.50	32.00	45.50
3/4"	EA	0.381	16.00	39.75	55.75
1"	EA	0.444	22.25	46.25	68.50
1-1/4"	EA	0.500	26.00	52.00	78.00
1-1/2"	EA	0.615	47.00	64.00	111.00
2"	EA	0.727	57.00	76.00	133.00
LB condulets					
1/2"	EA	0.308	16.00	32.00	48.00
3/4"	EA	0.381	19.50	39.75	59.25
1"	EA	0.444	29.25	46.25	75.50
1-1/4"	EA	0.500	50.00	52.00	102.00
1-1/2"	EA	0.615	66.00	64.00	130.00
2"	EA	0.727	110.00	76.00	186.00
T condulets					
1/2"	EA	0.381	20.25	39.75	60.00
3/4"	EA	0.444	24.25	46.25	70.50
1"	EA	0.500	36.50	52.00	88.50
1-1/4"	EA	0.571	53.00	60.00	113.00
1-1/2"	EA	0.615	71.00	64.00	135.00
2"	EA	0.727	110.00	76.00	186.00
X condulets					
1/2"	EA	0.444	29.75	46.25	76.00
3/4"	EA	0.500	32.25	52.00	84.25
1"	EA	0.571	53.00	60.00	113.00
1-1/4"	EA	0.615	69.00	64.00	133.00
1-1/2"	EA	0.667	89.00	69.00	158.00
2"	EA	0.879	180.00	92.00	272.00
Blank steel condulet covers					
1/2"	EA	0.100	4.59	10.50	15.09
3/4"	EA	0.100	5.68	10.50	16.18
1"	EA	0.100	7.73	10.50	18.23
1-1/4"	EA	0.123	9.47	12.75	22.22
1-1/2"	EA	0.123	9.94	12.75	22.69
2"	EA	0.123	16.75	12.75	29.50
Solid condulet gaskets					
1/2"	EA	0.050	3.78	5.20	8.98
3/4"	EA	0.050	4.09	5.20	9.29
1"	EA	0.050	4.73	5.20	9.93
1-1/4"	EA	0.080	5.88	8.33	14.21
1-1/2"	EA	0.080	6.19	8.33	14.52
2"	EA	0.080	6.94	8.33	15.27
One-hole malleable straps					
1/2"	EA	0.040	0.60	4.16	4.76
3/4"	EA	0.040	0.83	4.16	4.99
1"	EA	0.040	1.20	4.16	5.36

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	Unit	Man-Hrs	Material	Labor	Total
26053.44 GALVANIZED CONDUIT (Cont.)					
One-hole malleable straps					
1-1/4"	EA	0.050	2.40	5.20	7.60
1-1/2"	EA	0.050	2.76	5.20	7.96
2"	EA	0.050	5.41	5.20	10.61
One-hole steel straps					
1/2"	EA	0.040	0.15	4.16	4.31
3/4"	EA	0.040	0.22	4.16	4.38
1"	EA	0.040	0.38	4.16	4.54
1-1/4"	EA	0.050	0.54	5.20	5.74
1-1/2"	EA	0.050	0.73	5.20	5.93
2"	EA	0.050	0.95	5.20	6.15
Grounding locknuts					
1/2"	EA	0.080	3.64	8.33	11.97
3/4"	EA	0.080	4.59	8.33	12.92
1"	EA	0.080	6.64	8.33	14.97
1-1/4"	EA	0.089	7.12	9.25	16.37
1-1/2"	EA	0.089	7.43	9.25	16.68
2"	EA	0.089	11.00	9.25	20.25
Insulated grounding metal bushings					
1/2"	EA	0.190	2.58	19.75	22.33
3/4"	EA	0.222	3.81	23.25	27.06
1"	EA	0.250	5.44	26.00	31.44
1-1/4"	EA	0.308	8.67	32.00	40.67
1-1/2"	EA	0.381	10.75	39.75	50.50
2"	EA	0.444	15.75	46.25	62.00
26053.45 PLASTIC COATED CONDUIT					
PLASTIC COATED CONDUIT					
Rigid steel conduit, plastic coated					
1/2"	LF	0.050	10.50	5.20	15.70
3/4"	LF	0.059	12.25	6.17	18.42
1"	LF	0.080	15.75	8.33	24.08
1-1/4"	LF	0.100	20.00	10.50	30.50
1-1/2"	LF	0.123	24.25	12.75	37.00
2"	LF	0.145	31.50	15.25	46.75
90 degree elbows					
1/2"	EA	0.308	42.25	32.00	74.25
3/4"	EA	0.381	43.75	39.75	83.50
1"	EA	0.444	50.00	46.25	96.25
1-1/4"	EA	0.500	62.00	52.00	114.00
1-1/2"	EA	0.615	76.00	64.00	140.00
2"	EA	0.800	110.00	83.00	193.00
Couplings					
1/2"	EA	0.059	12.00	6.17	18.17
3/4"	EA	0.080	12.50	8.33	20.83
1"	EA	0.089	16.75	9.25	26.00
1-1/4"	EA	0.107	19.50	11.00	30.50
1-1/2"	EA	0.123	27.25	12.75	40.00
2"	EA	0.145	34.00	15.25	49.25
1 hole conduit straps					
3/4"	EA	0.050	18.50	5.20	23.70
1"	EA	0.050	19.25	5.20	24.45
1-1/4"	EA	0.059	28.00	6.17	34.17
1-1/2"	EA	0.059	29.75	6.17	35.92
2"	EA	0.059	43.25	6.17	49.42
26053.46 PLASTIC CONDUIT					
PLASTIC CONDUIT					
PVC conduit, schedule 40					
1/2"	LF	0.030	1.01	3.14	4.15
3/4"	LF	0.030	1.25	3.14	4.39
1"	LF	0.040	1.81	4.16	5.97
1-1/4"	LF	0.040	2.51	4.16	6.67
1-1/2"	LF	0.050	3.00	5.20	8.20

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	Unit	Man-Hrs	Material	Labor	Total
26053.46 PLASTIC CONDUIT (Cont.)					
PVC conduit, schedule 40					
2"	LF	0.050	3.58	5.20	8.78
Couplings					
1/2"	EA	0.050	0.62	5.20	5.82
3/4"	EA	0.050	0.74	5.20	5.94
1"	EA	0.050	1.16	5.20	6.36
1-1/4"	EA	0.059	1.53	6.17	7.70
1-1/2"	EA	0.059	2.12	6.17	8.29
2"	EA	0.059	2.78	6.17	8.95
90 degree elbows					
1/2"	EA	0.100	2.40	10.50	12.90
3/4"	EA	0.123	2.62	12.75	15.37
1"	EA	0.123	4.15	12.75	16.90
1-1/4"	EA	0.145	5.78	15.25	21.03
1-1/2"	EA	0.190	7.85	19.75	27.60
2"	EA	0.222	11.00	23.25	34.25
Terminal adapters					
1/2"	EA	0.100	0.90	10.50	11.40
3/4"	EA	0.100	1.47	10.50	11.97
1"	EA	0.100	1.83	10.50	12.33
1-1/4"	EA	0.160	2.30	16.75	19.05
1-1/2"	EA	0.160	2.94	16.75	19.69
2"	EA	0.160	4.06	16.75	20.81
LB conduit body					
1/2"	EA	0.190	7.86	19.75	27.61
3/4"	EA	0.190	10.25	19.75	30.00
1	EA	0.190	11.25	19.75	31.00
1-1/4"	EA	0.308	17.00	32.00	49.00
1-1/2"	EA	0.308	20.50	32.00	52.50
2"	EA	0.308	36.00	32.00	68.00
PVC cement					
1 pint	EA				20.50
1 quart	EA				31.75
26053.47 STEEL CONDUIT					
STEEL CONDUIT					
Intermediate metal conduit (IMC)					
1/2"	LF	0.030	3.15	3.14	6.29
3/4"	LF	0.040	3.87	4.16	8.03
1"	LF	0.050	5.86	5.20	11.06
1-1/4"	LF	0.059	7.50	6.17	13.67
1-1/2"	LF	0.080	9.39	8.33	17.72
2"	LF	0.089	12.25	9.25	21.50
90 degree ell					
1/2"	EA	0.250	24.25	26.00	50.25
3/4"	EA	0.308	25.25	32.00	57.25
1"	EA	0.381	38.75	39.75	78.50
1-1/4"	EA	0.444	54.00	46.25	100.25
1-1/2"	EA	0.500	66.00	52.00	118.00
2"	EA	0.571	95.00	60.00	155.00
Couplings					
1/2"	EA	0.050	5.91	5.20	11.11
3/4"	EA	0.059	7.26	6.17	13.43
1"	EA	0.080	10.75	8.33	19.08
1-1/4"	EA	0.089	13.50	9.25	22.75
1-1/2"	EA	0.100	17.00	10.50	27.50
2"	EA	0.107	22.50	11.00	33.50
26241.60 PANELBOARDS					
PANELBOARDS					
Indoor load center, 1 phase 240v main lug only					
30a - 2 spaces	EA	2.000	41.75	210.00	251.75
100a - 8 spaces	EA	2.424	130.00	250.00	380.00
150a - 16 spaces	EA	2.963	350.00	310.00	660.00
200a - 24 spaces	EA	3.478	720.00	360.00	1,080.00
200a - 42 spaces	EA	4.000	740.00	420.00	1,160.00

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	Unit	Man-Hrs	Material	Labor	Total
26241.60 PANELBOARDS (Cont.)					
Indoor load center, 1 phase 240v main lug only					
Main circuit breaker					
100a - 8 spaces	EA	2.424	420.00	250.00	670.00
100a - 16 spaces	EA	2.759	460.00	290.00	750.00
150a - 16 spaces	EA	2.963	750.00	310.00	1,060.00
150a - 24 spaces	EA	3.200	890.00	330.00	1,220.00
200a - 24 spaces	EA	3.478	830.00	360.00	1,190.00
200a - 42 spaces	EA	3.636	1,190.00	380.00	1,570.00
120/208v, flush, 3 ph., 4 wire, main only					
100a					
12 circuits	EA	5.096	1,320.00	530.00	1,850.00
20 circuits	EA	6.299	1,820.00	660.00	2,480.00
30 circuits	EA	7.018	2,710.00	730.00	3,440.00
225a					
30 circuits	EA	7.767	2,760.00	810.00	3,570.00
42 circuits	EA	9.524	3,490.00	990.00	4,480.00
26250.03 BUS DUCT					
BUS DUCT					
Bus duct, 100a, plug-in					
10', 600v	EA	2.759	850.00	290.00	1,140.00
With ground	EA	4.211	1,130.00	440.00	1,570.00
Circuit breakers, with enclosure					
1 pole					
15a-60a	EA	1.000	540.00	100.00	640.00
70a-100a	EA	1.250	620.00	130.00	750.00
2 pole					
15a-60a	EA	1.100	760.00	110.00	870.00
70a-100a	EA	1.301	910.00	140.00	1,050.00
Circuit breaker, adapter cubicle					
225a	EA	1.509	8,280.00	160.00	8,440.00
400a	EA	1.600	9,770.00	170.00	9,940.00
Fusible switches, 240v, 3 phase					
30a	EA	1.000	800.00	100.00	900.00
60a	EA	1.250	980.00	130.00	1,110.00
100a	EA	1.509	1,310.00	160.00	1,470.00
200a	EA	2.105	2,290.00	220.00	2,510.00
26271.30 METERING					
METERING					
Outdoor wp meter sockets, 1 gang, 240v, 1 phase					
Includes sealing ring, 100a	EA	1.509	76.00	160.00	236.00
150a	EA	1.778	90.00	190.00	280.00
200a	EA	2.000	110.00	210.00	320.00
Die cast hubs, 1-1/4"	EA	0.320	10.50	33.25	43.75
1-1/2"	EA	0.320	12.00	33.25	45.25
2"	EA	0.320	14.50	33.25	47.75
26272.68 RECEPTACLES					
RECEPTACLES					
Contractor grade duplex receptacles, 15a 120v					
Duplex	EA	0.200	2.35	20.75	23.10
125 volt, 20a, duplex, standard grade	EA	0.200	17.50	20.75	38.25
Ground fault interrupter type	EA	0.296	57.00	30.75	87.75
250 volt, 20a, 2 pole, single, grounding type	EA	0.200	29.25	20.75	50.00
120/208v, 4 pole, single receptacle, twist lock					
20a	EA	0.348	34.75	36.25	71.00
50a	EA	0.348	66.00	36.25	102.25
125/250v, 3 pole, flush receptacle					
30a	EA	0.296	35.25	30.75	66.00
50a	EA	0.296	43.50	30.75	74.25
60a	EA	0.348	110.00	36.25	146.25
Dryer receptacle, 250v, 30a/50a, 3 wire	EA	0.296	26.25	30.75	57.00
Clock receptacle, 2 pole, grounding type	EA	0.200	17.50	20.75	38.25
125v, 20a single recept. grounding type					
Standard grade	EA	0.200	19.00	20.75	39.75

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	Unit	Man-Hrs	Material	Labor	Total
26272.68 RECEPTACLES (Cont.)					
Contractor grade duplex receptacles, 15a 120v					
125/250v, 3 pole, 3 wire surface recepts					
30a	EA	0.296	29.75	30.75	60.50
50a	EA	0.296	33.00	30.75	63.75
60a	EA	0.348	73.00	36.25	109.25
Cord set, 3 wire, 6' cord					
30a	EA	0.296	26.50	30.75	57.25
50a	EA	0.296	37.50	30.75	68.25
125/250v, 3 pole, 3 wire cap					
30a	EA	0.400	26.25	41.75	68.00
50a	EA	0.400	47.75	41.75	89.50
60a	EA	0.444	61.00	46.25	107.25
26281.30 FUSES					
FUSES					
Fuse, one-time, 250v					
30a	EA	0.050	4.23	5.20	9.43
60a	EA	0.050	7.16	5.20	12.36
100a	EA	0.050	30.00	5.20	35.20
26281.61 CIRCUIT BREAKERS					
CIRCUIT BREAKERS					
Load center circuit breakers, 240v					
1 pole, 10-60a	EA	0.250	32.50	26.00	58.50
2 pole					
10-60a	EA	0.400	66.00	41.75	107.75
70-100a	EA	0.667	200.00	69.00	269.00
110-150a	EA	0.727	420.00	76.00	496.00
Load center, GFI breakers, 240v					
1 pole, 15-30a	EA	0.296	250.00	30.75	280.75
Tandem breakers, 240v					
1 pole, 15-30a	EA	0.400	54.00	41.75	95.75
2 pole, 15-30a	EA	0.533	98.00	56.00	154.00
26281.64 SWITCHES					
SWITCHES					
Photoelectric switches					
1000 watt					
105-135v	EA	0.727	56.00	76.00	132.00
Dimmer switch and switch plate					
600w	EA	0.308	52.00	32.00	84.00
Time clocks with skip, 40a, 120v					
SPST	EA	0.748	220.00	78.00	298.00
Contractor grade wall switch 15a, 120v					
Single pole	EA	0.160	3.83	16.75	20.58
Three way	EA	0.200	6.99	20.75	27.74
Four way	EA	0.267	23.50	27.75	51.25
Specification grade toggle switches, 20a, 120-277v					
Single pole	EA	0.200	8.42	20.75	29.17
Double pole	EA	0.296	20.25	30.75	51.00
3 way	EA	0.250	22.00	26.00	48.00
4 way	EA	0.296	66.00	30.75	96.75
Combination switch and pilot light, single pole	EA	0.296	20.75	30.75	51.50
3 way	EA	0.348	25.75	36.25	62.00
Combination switch and receptacle, single pole	EA	0.296	29.75	30.75	60.50
3 way	EA	0.296	36.50	30.75	67.25
Switch plates, plastic ivory					
1 gang	EA	0.080	0.92	8.33	9.25
2 gang	EA	0.100	2.16	10.50	12.66
3 gang	EA	0.119	3.38	12.50	15.88
4 gang	EA	0.145	8.66	15.25	23.91
5 gang	EA	0.160	9.07	16.75	25.82
6 gang	EA	0.182	10.75	19.00	29.75
Stainless steel					
1 gang	EA	0.080	7.80	8.33	16.13
2 gang	EA	0.100	10.75	10.50	21.25

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	Unit	Man-Hrs	Material	Labor	Total
26281.64 SWITCHES (Cont.)					
Stainless steel					
3 gang	EA	0.123	16.75	12.75	29.50
4 gang	EA	0.145	28.50	15.25	43.75
5 gang	EA	0.160	33.50	16.75	50.25
6 gang	EA	0.182	41.50	19.00	60.50
Brass					
1 gang	EA	0.080	14.50	8.33	22.83
2 gang	EA	0.100	31.25	10.50	41.75
3 gang	EA	0.123	48.25	12.75	61.00
4 gang	EA	0.145	56.00	15.25	71.25
5 gang	EA	0.160	69.00	16.75	85.75
6 gang	EA	0.182	83.00	19.00	102.00
26411.30 LIGHTNING PROTECTION					
LIGHTNING PROTECTION					
Lightning protection					
Copper point, nickel plated, 12'					
1/2" dia.	EA	1.000	69.00	100.00	169.00
5/8" dia.	EA	1.000	78.00	100.00	178.00
26511.01 INTERIOR LIGHTING					
INTERIOR LIGHTING					
Recessed fluorescent fixtures, 2'x2'					
2 lamp	EA	0.727	110.00	76.00	186.00
4 lamp	EA	0.727	150.00	76.00	226.00
Surface mounted incandescent fixtures					
40w	EA	0.667	170.00	69.00	239.00
75w	EA	0.667	170.00	69.00	239.00
100w	EA	0.667	190.00	69.00	259.00
150w	EA	0.667	250.00	69.00	319.00
Pendant, LED, minimum	EA	0.667	110.00	69.00	179.00
Average	EA	0.800	160.00	83.00	243.00
Maximum	EA	1.000	280.00	100.00	380.00
Pendant					
40w	EA	0.800	140.00	83.00	223.00
75w	EA	0.800	150.00	83.00	233.00
100w	EA	0.800	170.00	83.00	253.00
150w	EA	0.800	190.00	83.00	273.00
Contractor grade recessed down lights					
100 watt housing only	EA	1.000	110.00	100.00	210.00
150 watt housing only	EA	1.000	160.00	100.00	260.00
100 watt trim	EA	0.500	92.00	52.00	144.00
150 watt trim	EA	0.500	140.00	52.00	192.00
Recessed incandescent fixtures					
40w	EA	1.509	230.00	160.00	390.00
75w	EA	1.509	250.00	160.00	410.00
100w	EA	1.509	270.00	160.00	430.00
150w	EA	1.509	280.00	160.00	440.00
Down lights, fluorescent, minimum	EA	0.667	27.50	69.00	96.50
Average	EA	0.800	38.50	83.00	121.50
Maximum	EA	1.000	66.00	100.00	166.00
LED Down lights, minimum	EA	0.667	44.00	69.00	113.00
Average	EA	0.800	83.00	83.00	166.00
Maximum	EA	1.000	160.00	100.00	260.00
For vandal resistant, add to material $400					
Light track single circuit					
2'	EA	0.500	67.00	52.00	119.00
4'	EA	0.500	79.00	52.00	131.00
8'	EA	1.000	110.00	100.00	210.00
12'	EA	1.509	150.00	160.00	310.00
Fittings and accessories					
Dead end	EA	0.145	26.50	15.25	41.75
Starter kit	EA	0.250	35.50	26.00	61.50
Conduit feed	EA	0.145	34.50	15.25	49.75
Straight connector	EA	0.145	30.50	15.25	45.75
Center feed	EA	0.145	48.75	15.25	64.00

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	Unit	Man-Hrs	Material	Labor	Total
26511.01 INTERIOR LIGHTING (Cont.)					
Fittings and accessories					
L-connector	EA	0.145	34.50	15.25	49.75
T-connector	EA	0.145	46.25	15.25	61.50
X-connector	EA	0.200	56.00	20.75	76.75
Cord and plug	EA	0.100	56.00	10.50	66.50
Rigid corner	EA	0.145	74.00	15.25	89.25
Flex connector	EA	0.145	58.00	15.25	73.25
2 way connector	EA	0.200	160.00	20.75	180.75
Spacer clip	EA	0.050	2.49	5.20	7.69
Grid box	EA	0.145	14.00	15.25	29.25
T-bar clip	EA	0.050	3.72	5.20	8.92
Utility hook	EA	0.145	10.75	15.25	26.00
Fixtures, square					
R-20	EA	0.145	68.00	15.25	83.25
R-30	EA	0.145	110.00	15.25	125.25
40w flood	EA	0.145	170.00	15.25	185.25
40w spot	EA	0.145	170.00	15.25	185.25
100w flood	EA	0.145	200.00	15.25	215.25
100w spot	EA	0.145	150.00	15.25	165.25
Mini spot	EA	0.145	65.00	15.25	80.25
Mini flood	EA	0.145	150.00	15.25	165.25
Quartz, 500w	EA	0.145	380.00	15.25	395.25
R-20 sphere	EA	0.145	110.00	15.25	125.25
R-30 sphere	EA	0.145	60.00	15.25	75.25
R-20 cylinder	EA	0.145	81.00	15.25	96.25
R-30 cylinder	EA	0.145	93.00	15.25	108.25
R-40 cylinder	EA	0.145	95.00	15.25	110.25
R-30 wall wash	EA	0.145	150.00	15.25	165.25
R-40 wall wash	EA	0.145	180.00	15.25	195.25
26514.01 INDUSTRIAL LIGHTING					
INDUSTRIAL LIGHTING					
Surface mounted fluorescent, wrap around lens					
1 lamp	EA	0.800	140.00	83.00	223.00
2 lamps	EA	0.889	190.00	93.00	283.00
Wall mounted fluorescent					
2-20w lamps	EA	0.500	140.00	52.00	192.00
2-30w lamps	EA	0.500	160.00	52.00	212.00
2-40w lamps	EA	0.667	160.00	69.00	229.00
Strip fluorescent					
4'					
1 lamp	EA	0.667	69.00	69.00	138.00
2 lamps	EA	0.667	84.00	69.00	153.00
8'					
1 lamp	EA	0.727	100.00	76.00	176.00
2 lamps	EA	0.889	150.00	93.00	243.00
Compact fluorescent					
2-7w	EA	1.000	49.00	100.00	149.00
2-13w	EA	1.333	56.00	140.00	196.00

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	Unit	Man-Hrs	Material	Labor	Total
27510.02 SIGNALING SYSTEMS					
SIGNALING SYSTEMS					
Contractor grade doorbell chime kit					
Chime	EA	1.000	61.00	100.00	161.00
Doorbutton	EA	0.320	8.44	33.25	41.69
Transformer	EA	0.500	27.00	52.00	79.00

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	Unit	Man-Hrs	Material	Labor	Total
31110.01 CLEAR WOODED AREAS					
CLEAR WOODED AREAS					
Clear wooded area					
Light density	ACRE	60.000		8,780.00	8,780.00
Medium density	ACRE	80.000		11,700.00	11,700.00
Heavy density	ACRE	96.000		14,040.00	14,040.00
31130.05 TREE CUTTING & CLEARING					
TREE CUTTING & CLEARING					
Cut trees and clear out stumps					
9" to 12" dia.	EA	4.800		700.00	700.00
To 24" dia.	EA	6.000		880.00	880.00
24" dia. and up	EA	8.000		1,170.00	1,170.00
Loading and trucking					
For machine load, per load, round trip					
1 mile	EA	0.960		140.00	140.00
3 mile	EA	1.091		160.00	160.00
5 mile	EA	1.200		180.00	180.00
10 mile	EA	1.600		230.00	230.00
20 mile	EA	2.400		350.00	350.00
Hand loaded, round trip					
1 mile	EA	2.000		340.00	340.00
3 mile	EA	2.286		390.00	390.00
5 mile	EA	2.667		450.00	450.00
10 mile	EA	3.200		540.00	540.00
20 mile	EA	4.000		680.00	680.00
31231.31 BASE COURSE					
BASE COURSE					
Base course, crushed stone					
3" thick	SY	0.004	4.01	0.97	4.98
4" thick	SY	0.004	5.35	1.05	6.40
6" thick	SY	0.005	8.04	1.14	9.18
Base course, bank run gravel					
4" deep	SY	0.004	4.88	1.02	5.90
6" deep	SY	0.005	7.33	1.11	8.44
Prepare and roll sub-base					
Minimum	SY	0.004		0.97	0.97
Average	SY	0.005		1.21	1.21
Maximum	SY	0.007		1.62	1.62
31231.32 BORROW					
BORROW					
Borrow fill, FOB at pit					
Sand, haul to site, round trip					
10 mile	CY	0.080	36.25	19.50	55.75
20 mile	CY	0.133	36.25	32.50	68.75
30 mile	CY	0.200	36.25	48.75	85.00
Place borrow fill and compact					
Less than 1 in 4 slope	CY	0.040	46.00	9.73	55.73
Greater than 1 in 4 slope	CY	0.053	46.00	13.00	59.00
31231.37 GRAVEL AND STONE					
GRAVEL AND STONE					
FOB at plant, material only					
No. 21 crusher run stone	CY				49.50
No. 26 crusher run stone	CY				49.50
No. 57 stone	CY				49.50
No. 67 gravel	CY				49.50
No. 68 stone	CY				49.50
No. 78 stone	CY				49.50
No. 78 gravel, (pea gravel)	CY				49.50
No. 357 or B-3 stone	CY				49.50
Structural & foundation backfill					
No. 21 crusher run stone	TON				36.75
No. 26 crusher run stone	TON				36.75
No. 57 stone	TON				36.75

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	Unit	Man-Hrs	Material	Labor	Total
31231.37 GRAVEL AND STONE (Cont.)					
Structural & foundation backfill					
No. 67 gravel	TON				36.75
No. 68 stone	TON				36.75
No. 78 stone	TON				36.75
No. 78 gravel (pea gravel)	TON				36.75
No. 357 or B-3 stone	TON				36.75
31231.63 BULK EXCAVATION					
BULK EXCAVATION					
Excavation, by small dozer					
Large areas	CY	0.016		2.72	2.72
Small areas	CY	0.027		4.53	4.53
Trim banks	CY	0.040		6.80	6.80
Hydraulic excavator					
1 c.y. capacity					
Light material	CY	0.040		5.85	5.85
Medium material	CY	0.048		7.02	7.02
Wet material	CY	0.060		8.77	8.77
Blasted rock	CY	0.069		10.00	10.00
1-1/2 c.y. capacity					
Light material	CY	0.010		2.43	2.43
Medium material	CY	0.013		3.24	3.24
Wet material	CY	0.016		3.89	3.89
Wheel mounted front-end loader					
7/8 c.y. capacity					
Light material	CY	0.020		4.86	4.86
Medium material	CY	0.023		5.56	5.56
Wet material	CY	0.027		6.48	6.48
Blasted rock	CY	0.032		7.78	7.78
1-1/2 c.y. capacity					
Light material	CY	0.011		2.78	2.78
Medium material	CY	0.012		2.99	2.99
Wet material	CY	0.013		3.24	3.24
Blasted rock	CY	0.015		3.53	3.53
2-1/2 c.y. capacity					
Light material	CY	0.009		2.28	2.28
Medium material	CY	0.010		2.43	2.43
Wet material	CY	0.011		2.59	2.59
Blasted rock	CY	0.011		2.78	2.78
Track mounted front-end loader					
1-1/2 c.y. capacity					
Light material	CY	0.013		3.24	3.24
Medium material	CY	0.015		3.53	3.53
Wet material	CY	0.016		3.89	3.89
Blasted rock	CY	0.018		4.32	4.32
2-3/4 c.y. capacity					
Light material	CY	0.008		1.94	1.94
Medium material	CY	0.009		2.16	2.16
Wet material	CY	0.010		2.43	2.43
Blasted rock	CY	0.011		2.78	2.78
31231.64 BUILDING EXCAVATION					
BUILDING EXCAVATION					
Structural excavation, unclassified earth					
3/8 c.y. backhoe	CY	0.107		26.00	26.00
3/4 c.y. backhoe	CY	0.080		19.50	19.50
1 c.y. backhoe	CY	0.067		16.25	16.25
Foundation backfill and compaction by machine	CY	0.160		39.00	39.00
31231.65 HAND EXCAVATION					
HAND EXCAVATION					
Excavation					
To 2' deep					
Normal soil	CY	0.889		71.00	71.00
Sand and gravel	CY	0.800		64.00	64.00
Medium clay	CY	1.000		80.00	80.00

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	Unit	Man-Hrs	Material	Labor	Total
31231.65 HAND EXCAVATION (Cont.)					
To 2' deep					
Heavy clay	CY	1.143		92.00	92.00
Loose rock	CY	1.333		110.00	110.00
To 6' deep					
Normal soil	CY	1.143		92.00	92.00
Sand and gravel	CY	1.000		80.00	80.00
Medium clay	CY	1.333		110.00	110.00
Heavy clay	CY	1.600		130.00	130.00
Loose rock	CY	2.000		160.00	160.00
Backfilling foundation without compaction, 6" lifts	CY	0.500		40.00	40.00
Compaction of backfill around structures or in trench					
By hand with air tamper	CY	0.571		45.75	45.75
By hand with vibrating plate tamper	CY	0.533		42.75	42.75
1 ton roller	CY	0.400		68.00	68.00
Miscellaneous hand labor					
Trim slopes, sides of excavation	SF	0.001		0.10	0.10
Trim bottom of excavation	SF	0.002		0.12	0.12
Excavation around obstructions and services	CY	2.667		210.00	210.00
31231.67 UTILITY EXCAVATION					
UTILITY EXCAVATION					
Trencher, sandy clay, 8" wide trench					
18" deep	LF	0.018		3.02	3.02
24" deep	LF	0.020		3.40	3.40
36" deep	LF	0.023		3.89	3.89
Trench backfill, 95% compaction					
Tamp by hand	CY	0.500		40.00	40.00
Vibratory compaction	CY	0.400		32.00	32.00
Trench backfilling, with borrow sand, place & compact	CY	0.400	38.50	32.00	70.50
31231.68 ROADWAY EXCAVATION					
ROADWAY EXCAVATION					
Roadway excavation					
1/4 mile haul	CY	0.016		3.89	3.89
2 mile haul	CY	0.027		6.48	6.48
5 mile haul	CY	0.040		9.73	9.73
Spread base course	CY	0.020		4.86	4.86
Roll and compact	CY	0.027		6.48	6.48
31231.69 HAULING MATERIAL					
HAULING MATERIAL					
Haul material by 10 c.y. dump truck, round trip distance					
1 mile	CY	0.044		7.56	7.56
2 mile	CY	0.053		9.07	9.07
5 mile	CY	0.073		12.25	12.25
10 mile	CY	0.080		13.50	13.50
20 mile	CY	0.089		15.25	15.25
30 mile	CY	0.107		18.25	18.25
31233.36 TRENCHING					
TRENCHING					
Trenching and continuous footing excavation					
By gradall					
1 c.y. capacity					
Light soil	CY	0.023		5.56	5.56
Medium soil	CY	0.025		5.98	5.98
Heavy/wet soil	CY	0.027		6.48	6.48
Loose rock	CY	0.029		7.07	7.07
Blasted rock	CY	0.031		7.48	7.48
By hydraulic excavator					
1/2 c.y. capacity					
Light soil	CY	0.027		6.48	6.48
Medium soil	CY	0.029		7.07	7.07
Heavy/wet soil	CY	0.032		7.78	7.78
Loose rock	CY	0.036		8.65	8.65
Blasted rock	CY	0.040		9.73	9.73

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	Unit	Man-Hrs	Material	Labor	Total
31233.36 TRENCHING (Cont.)					
By hydraulic excavator					
1 c.y. capacity					
Light soil	CY	0.019		4.57	4.57
Medium soil	CY	0.020		4.86	4.86
Heavy/wet soil	CY	0.021		5.19	5.19
Loose rock	CY	0.023		5.56	5.56
Blasted rock	CY	0.025		5.98	5.98
1-1/2 c.y. capacity					
Light soil	CY	0.017		4.09	4.09
Medium soil	CY	0.018		4.32	4.32
Heavy/wet soil	CY	0.019		4.57	4.57
Loose rock	CY	0.020		4.86	4.86
Blasted rock	CY	0.021		5.19	5.19
2 c.y. capacity					
Light soil	CY	0.016		3.89	3.89
Medium soil	CY	0.017		4.09	4.09
Heavy/wet soil	CY	0.018		4.32	4.32
Loose rock	CY	0.019		4.57	4.57
Blasted rock	CY	0.020		4.86	4.86
Hand excavation					
Bulk, wheeled 100'					
Normal soil	CY	0.889		71.00	71.00
Sand or gravel	CY	0.800		64.00	64.00
Medium clay	CY	1.143		92.00	92.00
Heavy clay	CY	1.600		130.00	130.00
Loose rock	CY	2.000		160.00	160.00
Trenches, up to 2' deep					
Normal soil	CY	1.000		80.00	80.00
Sand or gravel	CY	0.889		71.00	71.00
Medium clay	CY	1.333		110.00	110.00
Heavy clay	CY	2.000		160.00	160.00
Loose rock	CY	2.667		210.00	210.00
Trenches, to 6' deep					
Normal soil	CY	1.143		92.00	92.00
Sand or gravel	CY	1.000		80.00	80.00
Medium clay	CY	1.600		130.00	130.00
Heavy clay	CY	2.667		210.00	210.00
Loose rock	CY	4.000		320.00	320.00
Backfill trenches					
With compaction					
By hand	CY	0.667		53.00	53.00
By 60 hp tracked dozer	CY	0.020		3.40	3.40
31311.60 SOIL TREATMENT					
SOIL TREATMENT					
Soil treatment, termite control pretreatment					
Under slabs	SF	0.004	0.77	0.35	1.12
By walls	SF	0.005	0.77	0.42	1.19
31320.05 SOIL STABILIZATION					
SOIL STABILIZATION					
Straw bale secured with rebar	LF	0.027	9.15	2.13	11.28
Filter barrier, 18" high filter fabric	LF	0.080	2.21	6.40	8.61
Sediment fence, 36" fabric with 6" mesh	LF	0.100	5.24	8.00	13.24
Soil stabilization with tar paper, burlap, straw and stakes	SF	0.001	0.44	0.09	0.53
31370.01 RIPRAP					
RIPRAP					
Riprap					
Crushed stone blanket, max size 2-1/2"	TON	0.533	44.25	100.00	144.25
Stone, quarry run, 300 lb. stones	TON	0.492	55.00	95.00	150.00
400 lb. stones	TON	0.457	58.00	88.00	146.00
500 lb. stones	TON	0.427	60.00	82.00	142.00
750 lb. stones	TON	0.400	62.00	77.00	139.00
Dry concrete riprap in bags 3" thick, 80 lb. per bag	BAG	0.027	7.45	5.13	12.58

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	Unit	Man-Hrs	Material	Labor	Total
31621.65 STEEL PILES					
STEEL PILES					
H-section piles					
8x8					
36 lb/ft					
30' long	LF	0.080	32.75	17.75	50.50
40' long	LF	0.064	32.75	14.25	47.00
Tapered friction piles, fluted casing, up to 50'					
With 4000 psi concrete no reinforcing					
12" dia.	LF	0.048	25.75	10.50	36.25
14" dia.	LF	0.049	29.75	11.00	40.75
31621.66 STEEL PIPE PILES					
STEEL PIPE PILES					
Concrete filled, 3000# concrete, up to 40'					
8" dia.	LF	0.069	32.50	15.25	47.75
10" dia.	LF	0.071	41.75	15.75	57.50
12" dia.	LF	0.074	48.25	16.25	64.50
Pipe piles, non-filled					
8" dia.	LF	0.053	26.75	11.75	38.50
10" dia.	LF	0.055	33.75	12.00	45.75
12" dia.	LF	0.056	41.25	12.50	53.75
Splice					
8" dia.	EA	1.600	120.00	130.00	250.00
10" dia.	EA	1.600	130.00	130.00	260.00
12" dia.	EA	2.000	140.00	160.00	300.00
Standard point					
8" dia.	EA	1.600	150.00	130.00	280.00
10" dia.	EA	1.600	190.00	130.00	320.00
12" dia.	EA	2.000	210.00	160.00	370.00
Heavy duty point					
8" dia.	EA	2.000	260.00	160.00	420.00
10" dia.	EA	2.000	360.00	160.00	520.00
12" dia.	EA	2.667	390.00	210.00	600.00
31621.90 WOOD AND TIMBER PILES					
WOOD AND TIMBER PILES					
Treated wood piles, 12" butt, 8" tip					
25' long	LF	0.096	18.00	21.25	39.25
30' long	LF	0.080	19.25	17.75	37.00
35' long	LF	0.069	19.25	15.25	34.50
40' long	LF	0.060	19.25	13.25	32.50
31631.35 PRESTRESSED PILING					
PRESTRESSED PILING					
Prestressed concrete piling, less than 60' long					
10" sq.	LF	0.040	23.00	8.84	31.84
12" sq.	LF	0.042	32.00	9.22	41.22
Straight cylinder, less than 60' long					
12" dia.	LF	0.044	29.75	9.64	39.39
14" dia.	LF	0.045	40.25	9.86	50.11

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	Unit	Man-Hrs	Material	Labor	Total
32121.60 ASPHALT SURFACES					
ASPHALT SURFACES					
Asphalt wearing surface, flexible pavement					
1" thick	SY	0.016	5.07	3.53	8.60
1-1/2" thick	SY	0.019	7.61	4.24	11.85
Binder course					
1-1/2" thick	SY	0.018	7.42	3.92	11.34
2" thick	SY	0.022	9.90	4.82	14.72
Bituminous sidewalk, no base					
2" thick	SY	0.028	10.75	4.12	14.87
3" thick	SY	0.030	16.25	4.38	20.63
32131.30 CONCRETE PAVING					
CONCRETE PAVING					
Concrete paving, reinforced, 5000 psi concrete					
6" thick	SY	0.150	38.00	33.25	71.25
7" thick	SY	0.160	44.25	35.25	79.50
8" thick	SY	0.171	51.00	38.00	89.00
32131.31 SIDEWALKS, CONCRETE					
SIDEWALKS, CONCRETE					
Walks, with wire mesh, base not incl.					
4" thick	SF	0.027	2.89	2.13	5.02
5" thick	SF	0.032	3.90	2.56	6.46
6" thick	SF	0.040	4.80	3.20	8.00
32141.60 PAVERS, MASONRY					
PAVERS, MASONRY					
Brick walk laid on sand, sand joints					
Laid flat (4.5 per sf)	SF	0.089	4.73	8.67	13.40
Laid on edge (7.2 per sf)	SF	0.133	7.56	13.00	20.56
Precast concrete patio blocks					
2" thick					
Natural	SF	0.027	3.48	2.60	6.08
Colors	SF	0.027	4.86	2.60	7.46
Exposed aggregates, local aggregate					
Natural	SF	0.027	10.50	2.60	13.10
Colors	SF	0.027	10.50	2.60	13.10
Granite or limestone aggregate	SF	0.027	11.00	2.60	13.60
White tumblestone aggregate	SF	0.027	7.86	2.60	10.46
Stone pavers, set in mortar					
Bluestone					
1" thick					
Irregular	SF	0.200	7.99	19.50	27.49
Snapped rectangular	SF	0.160	12.25	15.50	27.75
1-1/2" thick, random rectangular	SF	0.200	14.00	19.50	33.50
2" thick, random rectangular	SF	0.229	16.50	22.25	38.75
Slate					
Natural cleft					
Irregular, 3/4" thick	SF	0.229	10.00	22.25	32.25
Random rectangular					
1-1/4" thick	SF	0.200	21.75	19.50	41.25
1-1/2" thick	SF	0.222	24.50	21.75	46.25
Granite blocks					
3" thick, 3" to 6" wide					
4" to 12" long	SF	0.267	14.25	26.00	40.25
6" to 15" long	SF	0.229	9.30	22.25	31.55
32311.30 CHAIN LINK FENCE					
CHAIN LINK FENCE					
Chain link fence, 9 ga., galvanized, with posts 10' o.c.					
4' high	LF	0.057	8.52	4.57	13.09
5' high	LF	0.073	11.50	5.82	17.32
6' high	LF	0.100	13.00	8.00	21.00
Corner or gate post, 3" post					
4' high	EA	0.267	99.00	21.25	120.25
5' high	EA	0.296	110.00	23.75	133.75
6' high	EA	0.348	120.00	27.75	147.75

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	Unit	Man-Hrs	Material	Labor	Total
32311.30 CHAIN LINK FENCE (Cont.)					
Chain link fence, 9 ga., galvanized, with posts 10' o.c.					
Gate with gate posts, galvanized, 3' wide					
4' high	EA	2.000	140.00	160.00	300.00
5' high	EA	2.667	180.00	210.00	390.00
6' high	EA	2.667	220.00	210.00	430.00
Fabric, galvanized chain link, 2" mesh, 9 ga.					
4' high	LF	0.027	5.56	2.13	7.69
5' high	LF	0.032	6.81	2.56	9.37
6' high	LF	0.040	9.52	3.20	12.72
Line post, no rail fitting, galvanized, 2-1/2" dia.					
4' high	EA	0.229	32.25	18.25	50.50
5' high	EA	0.250	35.00	20.00	55.00
6' high	EA	0.267	38.50	21.25	59.75
Vinyl coated, 9 ga., with posts 10' o.c.					
4' high	LF	0.057	13.75	4.57	18.32
5' high	LF	0.073	16.50	5.82	22.32
6' high	LF	0.100	19.75	8.00	27.75
Gate, with posts, 3' wide					
4' high	EA	2.000	160.00	160.00	320.00
5' high	EA	2.667	190.00	210.00	400.00
6' high	EA	2.667	220.00	210.00	430.00
Fabric, vinyl, chain link, 2" mesh, 9 ga.					
4' high	LF	0.027	5.21	2.13	7.34
5' high	LF	0.032	6.37	2.56	8.93
6' high	LF	0.040	8.91	3.20	12.11
Swing gates, galvanized, 4' high					
Single gate					
3' wide	EA	2.000	210.00	160.00	370.00
4' wide	EA	2.000	230.00	160.00	390.00
6' high					
Single gate					
3' wide	EA	2.667	280.00	210.00	490.00
4' wide	EA	2.667	300.00	210.00	510.00
32319.01 SHRUB & TREE MAINTENANCE					
SHRUB & TREE MAINTENANCE					
Moving shrubs on site					
3' high	EA	0.800		64.00	64.00
4' high	EA	0.889		71.00	71.00
Moving trees on site					
6' high	EA	0.533		78.00	78.00
8' high	EA	0.600		88.00	88.00
10' high	EA	0.800		120.00	120.00
Palm trees					
10' high	EA	0.800		120.00	120.00
40' high	EA	4.800		700.00	700.00
32319.02 FERTILIZING					
FERTILIZING					
Fertilizing (23#/1000 sf)					
By square yard	SY	0.002	0.04	0.21	0.25
By acre	ACRE	10.000	210.00	1,070.00	1,280.00
Liming (70#/1000 sf)					
By square yard	SY	0.003	0.05	0.28	0.33
By acre	ACRE	13.333	220.00	1,430.00	1,650.00
32319.03 WEED CONTROL					
WEED CONTROL					
Weed control, bromicil, 15 lb./acre, wettable powder	ACRE	4.000	330.00	320.00	650.00
Vegetation control, by application of plant killer	SY	0.003	0.02	0.25	0.27
Weed killer, lawns and fields	SY	0.002	0.27	0.12	0.39
32840.04 LAWN IRRIGATION					
LAWN IRRIGATION					
Residential system, complete					
Minimum	ACRE				24,060.00
Maximum	ACRE				45,790.00

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	Unit	Man-Hrs	Material	Labor	Total
32911.91 TOPSOIL					
TOPSOIL					
Spread topsoil, with equipment					
Minimum	CY	0.080		19.50	19.50
Maximum	CY	0.100		24.25	24.25
By hand					
Minimum	CY	0.800		64.00	64.00
Maximum	CY	1.000		80.00	80.00
Area prep. seeding (grade, rake and clean)					
Square yard	SY	0.006		0.51	0.51
By acre	ACRE	32.000		2,560.00	2,560.00
Remove topsoil and stockpile on site					
4" deep	CY	0.067		16.25	16.25
6" deep	CY	0.062		15.00	15.00
Spreading topsoil from stock pile					
By loader	CY	0.073		17.75	17.75
By hand	CY	0.800		190.00	190.00
Top dress by hand	SY	0.008		1.94	1.94
Place imported top soil					
By loader					
4" deep	SY	0.008		1.94	1.94
6" deep	SY	0.009		2.16	2.16
By hand					
4" deep	SY	0.089		7.11	7.11
6" deep	SY	0.100		8.00	8.00
Plant bed preparation, 18" deep					
With backhoe/loader	SY	0.020		4.86	4.86
By hand	SY	0.133		10.75	10.75
32921.90 SEEDING					
SEEDING					
Mechanical seeding, 175 lb/acre					
By square yard	SY	0.002	0.25	0.17	0.42
By acre	ACRE	8.000	980.00	860.00	1,840.00
450 lb/acre					
By square yard	SY	0.002	0.62	0.21	0.83
By acre	ACRE	10.000	2,430.00	1,070.00	3,500.00
Synthetic turf, not including base					
Minimum	SF				1.45
Average	SF				2.40
Maximum	SF				4.23
Seeding by hand, 10 lb per 100 SY					
By square yard	SY	0.003	0.69	0.21	0.90
By acre	ACRE	13.333	2,710.00	1,070.00	3,780.00
Reseed disturbed areas	SF	0.004	0.06	0.32	0.38
32932.30 PLANTS					
PLANTS					
Euonymus coloratus, 18" (Purple Wintercreeper)	EA	0.133	3.65	10.75	14.40
Hedera Helix, 2-1/4" pot (English ivy)	EA	0.133	1.52	10.75	12.27
Liriope muscari, 2" clumps	EA	0.080	6.37	6.40	12.77
Santolina, 12"	EA	0.080	7.30	6.40	13.70
Vinca major or minor, 3" pot	EA	0.080	1.19	6.40	7.59
Cortaderia argentia, 2 gallon (Pampas Grass)	EA	0.080	23.00	6.40	29.40
Ophiopogan japonicus, 1 quart (4" pot)	EA	0.080	6.37	6.40	12.77
Ajuga reptans, 2-3/4" pot (carpet bugle)	EA	0.080	1.19	6.40	7.59
Pachysandra terminalis, 2-3/4" pot (Japanese Spurge)	EA	0.080	1.61	6.40	8.01
32933.30 SHRUBS					
SHRUBS					
Juniperus conferia litoralis, 18"-24" (Shore Juniper)	EA	0.320	51.00	25.50	76.50
Horizontalis plumosa, 18"-24" (Andorra Juniper)	EA	0.320	54.00	25.50	79.50
Sabina tamar-iscfolia-tamarix juniper, 18"-24"	EA	0.320	54.00	25.50	79.50
Chin San Jose, 18"-24" (San Jose Juniper)	EA	0.320	54.00	25.50	79.50
Sargenti, 18"-24" (Sargent's Juniper)	EA	0.320	51.00	25.50	76.50
Nandina domestica, 18"-24" (Heavenly Bamboo)	EA	0.320	34.25	25.50	59.75
Raphiolepis Indica Springtime, 18"-24"	EA	0.320	36.75	25.50	62.25

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	Unit	Man-Hrs	Material	Labor	Total
32933.30 SHRUBS (Cont.)					
Osmanthus Heterophyllus Gulftide, 18"-24"	EA	0.320	39.25	25.50	64.75
Ilex Cornuta Burfordi Nana, 18"-24"	EA	0.320	44.75	25.50	70.25
Glabra, 18"-24" (Inkberry Holly)	EA	0.320	42.25	25.50	67.75
Azalea, Indica types, 18"-24"	EA	0.320	47.50	25.50	73.00
Kurume types, 18"-24"	EA	0.320	53.00	25.50	78.50
Berberis Julianae, 18"-24" (Wintergreen Barberry)	EA	0.320	31.25	25.50	56.75
Pieris Japonica Japanese, 18"-24"	EA	0.320	31.25	25.50	56.75
Ilex Cornuta Rotunda, 18"-24"	EA	0.320	37.00	25.50	62.50
Juniperus Horiz. Plumosa, 24"-30"	EA	0.400	34.00	32.00	66.00
Rhodopendrow Hybrids, 24"-30"	EA	0.400	91.00	32.00	123.00
Aucuba Japonica Varigata, 24"-30"	EA	0.400	31.00	32.00	63.00
Ilex Crenata Willow Leaf, 24"-30"	EA	0.400	34.00	32.00	66.00
Cleyera Japonica, 30"-36"	EA	0.500	39.75	40.00	79.75
Pittosporum Tobira, 30"-36"	EA	0.500	46.50	40.00	86.50
Prumus Laurocerasus, 30"-36"	EA	0.500	86.00	40.00	126.00
Ilex Cornuta Burfordi, 30"-36" (Burford Holly)	EA	0.500	45.50	40.00	85.50
Abelia Grandiflora, 24"-36" (Yew Podocarpus)	EA	0.400	31.25	32.00	63.25
Podocarpos Macrophylla, 24"-36"	EA	0.400	51.00	32.00	83.00
Pyracantha Coccinea Lalandi, 3'-4' (Firethorn)	EA	0.500	29.00	40.00	69.00
Photinia Frazieri, 3'-4' (Red Photinia)	EA	0.500	46.25	40.00	86.25
Forsythia Suspensa, 3'-4' (Weeping Forsythia)	EA	0.500	29.00	40.00	69.00
Camellia Japonica, 3'-4' (Common Camellia)	EA	0.500	51.00	40.00	91.00
Juniperus Chin Torulosa, 3'-4' (Hollywood Juniper)	EA	0.500	54.00	40.00	94.00
Cupressocyparis Leylandii, 3'-4'	EA	0.500	45.75	40.00	85.75
Ilex Opaca Fosteri, 5'-6' (Foster's Holly)	EA	0.667	180.00	53.00	233.00
Opaca, 5'-6' (American Holly)	EA	0.667	270.00	53.00	323.00
Nyrica Cerifera, 4'-5' (Southern Wax Myrtles)	EA	0.571	58.00	45.75	103.75
Ligustrum Japonicum, 4'-5' (Japanese Privet)	EA	0.571	45.50	45.75	91.25
32934.30 TREES					
TREES					
Cornus Florida, 5'-6' (White flowering Dogwood)	EA	0.667	120.00	53.00	173.00
Prunus Serrulata Kwanzan, 6'-8' (Kwanzan Cherry)	EA	0.800	130.00	64.00	194.00
Caroliniana, 6'-8' (Carolina Cherry Laurel)	EA	0.800	160.00	64.00	224.00
Cercis Canadensis, 6'-8' (Eastern Redbud)	EA	0.800	110.00	64.00	174.00
Koelreuteria Paniculata, 8'-10' (Goldenrain Tree)	EA	1.000	190.00	80.00	270.00
Acer Platanoides, 1-3/4"-2" (11'-13')	EA	1.333	250.00	110.00	360.00
Rubrum, 1-3/4"-2" (11'-13') (Red Maple)	EA	1.333	190.00	110.00	300.00
Saccharum, 1-3/4"-2" (Sugar Maple)	EA	1.333	340.00	110.00	450.00
Prunus Cerasifera "Thundercloud", 6'-8'	EA	0.800	130.00	64.00	194.00
Yeodensis, 6'-8' (Yoshino Cherry)	EA	0.800	140.00	64.00	204.00
Lagerstroemia Indica, 8'-10' (Crapemyrtle)	EA	1.000	220.00	80.00	300.00
Crataegus Phaenopyrum, 8'-10'	EA	1.000	340.00	80.00	420.00
Quercus Borealis, 1-3/4"-2" (Northern Red Oak)	EA	1.333	200.00	110.00	310.00
Quercus Acutissima, 1-3/4"-2" (8'-10')	EA	1.333	190.00	110.00	300.00
Saliz Babylonica, 1-3/4"-2" (Weeping Willow)	EA	1.333	94.00	110.00	204.00
Malus, 2"-2-1/2" (8'-10') (Flowering Crabapple)	EA	1.333	200.00	110.00	310.00
Pyrus Calleryana Bradford, 2"-2-1/2"	EA	1.333	240.00	110.00	350.00
Quercus Palustris, 2"-2-1/2" (12'-14') (Pin Oak)	EA	1.333	270.00	110.00	380.00
Phellos, 2-1/2"-3" (Willow Oak)	EA	1.600	290.00	130.00	420.00
Nigra, 2"-2-1/2" (Water Oak)	EA	1.333	250.00	110.00	360.00
Magnolia Soulangeana, 4'-5' (Saucer Magnolia)	EA	0.667	150.00	53.00	203.00
Grandiflora, 6'-8' (Southern Magnolia)	EA	0.800	200.00	64.00	264.00
Cedrus Deodara, 10'-12' (Deodare Cedar)	EA	1.333	330.00	110.00	440.00
Gingko Biloba, 10'-12' (2"-2-1/2")	EA	1.333	310.00	110.00	420.00
Pinus Thunbergi, 5'-6' (Japanese Black Pine)	EA	0.667	120.00	53.00	173.00
Strobus, 6'-8' (White Pine)	EA	0.800	140.00	64.00	204.00
Taeda, 6'-8' (Loblolly Pine)	EA	0.800	120.00	64.00	184.00
Quercus Virginiana, 2"-2-1/2" (Live Oak)	EA	1.600	290.00	130.00	420.00
32940.02 LANDSCAPE ACCESSORIES					
LANDSCAPE ACCESSORIES					
Steel edging, 3/16" x 4"	LF	0.010	5.33	0.80	6.13
Landscaping stepping stones, 15"x15", white	EA	0.040	8.01	3.20	11.21
Wood chip mulch	CY	0.533	51.00	42.75	93.75
2" thick	SY	0.016	3.12	1.28	4.40

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	Unit	Man-Hrs	Material	Labor	Total
32940.02 LANDSCAPE ACCESSORIES (Cont.)					
Wood chip mulch					
4" thick	SY	0.023	5.88	1.83	7.71
6" thick	SY	0.029	8.80	2.32	11.12
Gravel mulch, 3/4" stone	CY	0.800	40.25	64.00	104.25
White marble chips, 1" deep	SF	0.008	0.88	0.64	1.52
Peat moss					
2" thick	SY	0.018	5.47	1.42	6.89
4" thick	SY	0.027	10.50	2.13	12.63
6" thick	SY	0.033	16.00	2.66	18.66
Landscaping timbers, treated lumber					
4" x 4"	LF	0.027	4.48	2.13	6.61
6" x 6"	LF	0.029	10.50	2.28	12.78
8" x 8"	LF	0.033	12.75	2.66	15.41

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	Unit	Man-Hrs	Material	Labor	Total
33110.04 DUCTILE IRON PIPE					
DUCTILE IRON PIPE					
Ductile iron pipe, cement lined, slip-on joints					
4"	LF	0.067	21.25	9.75	31.00
6"	LF	0.071	24.50	10.25	34.75
8"	LF	0.075	32.00	11.00	43.00
Mechanical joint pipe					
4"	LF	0.092	49.00	13.50	62.50
6"	LF	0.100	58.00	14.50	72.50
8"	LF	0.109	77.00	16.00	93.00
Fittings, mechanical joint					
90 degree elbow					
4"	EA	0.533	230.00	42.75	272.75
6"	EA	0.615	370.00	49.25	419.25
8"	EA	0.800	530.00	64.00	594.00
45 degree elbow					
4"	EA	0.533	240.00	42.75	282.75
6"	EA	0.615	330.00	49.25	379.25
8"	EA	0.800	470.00	64.00	534.00
33110.06 PLASTIC PIPE					
PLASTIC PIPE					
PVC, class 150 pipe					
4" dia.	LF	0.060	8.30	8.77	17.07
6" dia.	LF	0.065	15.75	9.48	25.23
8" dia.	LF	0.069	25.00	10.00	35.00
Schedule 40 pipe					
1-1/2" dia.	LF	0.047	2.43	3.76	6.19
2" dia.	LF	0.050	3.08	4.00	7.08
2-1/2" dia.	LF	0.053	4.98	4.27	9.25
3" dia.	LF	0.057	6.34	4.57	10.91
4" dia.	LF	0.067	9.06	5.33	14.39
6" dia.	LF	0.080	16.25	6.40	22.65
90 degree elbows					
1"	EA	0.133	1.40	10.75	12.15
1-1/2"	EA	0.133	2.68	10.75	13.43
2"	EA	0.145	4.19	11.75	15.94
2-1/2"	EA	0.160	12.75	12.75	25.50
3"	EA	0.178	15.25	14.25	29.50
4"	EA	0.200	24.50	16.00	40.50
6"	EA	0.267	78.00	21.25	99.25
45 degree elbows					
1"	EA	0.133	2.15	10.75	12.90
1-1/2"	EA	0.133	3.76	10.75	14.51
2"	EA	0.145	4.89	11.75	16.64
2-1/2"	EA	0.160	12.75	12.75	25.50
3"	EA	0.178	19.75	14.25	34.00
4"	EA	0.200	32.00	16.00	48.00
6"	EA	0.267	79.00	21.25	100.25
Tees					
1"	EA	0.160	2.32	12.75	15.07
1-1/2"	EA	0.160	4.46	12.75	17.21
2"	EA	0.178	6.44	14.25	20.69
2-1/2"	EA	0.200	21.25	16.00	37.25
3"	EA	0.229	28.00	18.25	46.25
4"	EA	0.267	45.50	21.25	66.75
6"	EA	0.320	150.00	25.50	175.50
Couplings					
1"	EA	0.133	1.42	10.75	12.17
1-1/2"	EA	0.133	2.04	10.75	12.79
2"	EA	0.145	3.14	11.75	14.89
2-1/2"	EA	0.160	6.90	12.75	19.65
3"	EA	0.178	10.75	14.25	25.00
4"	EA	0.200	14.00	16.00	30.00
6"	EA	0.267	44.50	21.25	65.75

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	Unit	Man-Hrs	Material	Labor	Total
33110.06 PLASTIC PIPE (Cont.)					
PVC, class 150 pipe					
Drainage pipe					
ABS					
1-1/4" dia.	LF	0.047	2.03	3.76	5.79
1-1/2" dia.	LF	0.047	2.46	3.76	6.22
2" dia.	LF	0.050	3.14	4.00	7.14
2-1/2" dia.	LF	0.053	4.47	4.27	8.74
3" dia.	LF	0.057	5.26	4.57	9.83
4" dia.	LF	0.067	7.17	5.33	12.50
6" dia.	LF	0.080	12.00	6.40	18.40
90 degree elbows					
1-1/4"	EA	0.133	3.38	10.75	14.13
1-1/2"	EA	0.133	4.22	10.75	14.97
2"	EA	0.145	5.09	11.75	16.84
2-1/2"	EA	0.160	12.25	12.75	25.00
3"	EA	0.178	12.50	14.25	26.75
4"	EA	0.200	22.25	16.00	38.25
6"	EA	0.267	48.75	21.25	70.00
45 degree elbows					
1-1/4"	EA	0.133	5.50	10.75	16.25
1-1/2"	EA	0.133	6.99	10.75	17.74
2"	EA	0.145	8.66	11.75	20.41
2-1/2"	EA	0.160	16.25	12.75	29.00
3"	EA	0.178	17.25	14.25	31.50
4"	EA	0.200	32.75	16.00	48.75
6"	EA	0.267	76.00	21.25	97.25
33211.30 WELLS					
WELLS					
Domestic water, drilled and cased					
4" dia.	LF	0.480	32.00	110.00	142.00
6" dia.	LF	0.533	35.25	120.00	155.25
33310.03 VITRIFIED CLAY PIPE					
VITRIFIED CLAY PIPE					
Vitrified clay pipe, extra strength					
6" dia.	LF	0.109	7.16	16.00	23.16
8" dia.	LF	0.114	8.59	16.75	25.34
10" dia.	LF	0.120	13.25	17.50	30.75
33310.04 SANITARY SEWERS					
SANITARY SEWERS					
Clay					
6" pipe	LF	0.080	9.41	11.75	21.16
PVC					
4" pipe	LF	0.060	4.05	8.77	12.82
6" pipe	LF	0.063	8.11	9.23	17.34
33360.01 DRAINAGE FIELDS					
DRAINAGE FIELDS					
Perforated PVC pipe, for drain field					
4" pipe	LF	0.053	2.70	7.80	10.50
6" pipe	LF	0.057	5.08	8.35	13.43
33360.05 SEPTIC TANKS					
SEPTIC TANKS					
Septic tank, precast concrete					
1000 gals	EA	4.000	1,230.00	590.00	1,820.00
2000 gals	EA	6.000	3,320.00	880.00	4,200.00
Leaching pit, precast concrete, 72" diameter					
3' deep	EA	3.000	940.00	440.00	1,380.00
6' deep	EA	3.429	1,660.00	500.00	2,160.00
8' deep	EA	4.000	2,110.00	590.00	2,700.00

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	Unit	Man-Hrs	Material	Labor	Total
33391.33 MANHOLES					
MANHOLES					
Precast sections, 48" dia.					
Base section	EA	2.000	450.00	290.00	740.00
1'0" riser	EA	1.600	130.00	230.00	360.00
1'4" riser	EA	1.714	160.00	250.00	410.00
2'8" riser	EA	1.846	230.00	270.00	500.00
4'0" riser	EA	2.000	430.00	290.00	720.00
2'8" cone top	EA	2.400	280.00	350.00	630.00
Precast manholes, 48" dia.					
4' deep	EA	4.800	920.00	700.00	1,620.00
6' deep	EA	6.000	1,410.00	880.00	2,290.00
7' deep	EA	6.857	1,610.00	1,000.00	2,610.00
8' deep	EA	8.000	1,810.00	1,170.00	2,980.00
10' deep	EA	9.600	2,030.00	1,400.00	3,430.00
Cast-in-place, 48" dia., with frame and cover					
5' deep	EA	12.000	780.00	1,760.00	2,540.00
6' deep	EA	13.714	1,030.00	2,010.00	3,040.00
8' deep	EA	16.000	1,510.00	2,340.00	3,850.00
10' deep	EA	19.200	1,760.00	2,810.00	4,570.00
Brick manholes, 48" dia. with cover, 8" thick					
4' deep	EA	8.000	830.00	780.00	1,610.00
6' deep	EA	8.889	1,050.00	870.00	1,920.00
8' deep	EA	10.000	1,340.00	980.00	2,320.00
10' deep	EA	11.429	1,670.00	1,110.00	2,780.00
Frames and covers, 24" diameter					
300 lb	EA	0.800	470.00	64.00	534.00
400 lb	EA	0.889	500.00	71.00	571.00
Steps for manholes					
7" x 9"	EA	0.160	20.00	12.75	32.75
8" x 9"	EA	0.178	25.25	14.25	39.50
33461.90 UNDERDRAIN					
UNDERDRAIN					
Drain tile, clay					
6" pipe	LF	0.053	5.71	7.80	13.51
8" pipe	LF	0.056	9.12	8.16	17.28
Porous concrete, standard strength					
6" pipe	LF	0.053	8.88	7.80	16.68
8" pipe	LF	0.056	9.60	8.16	17.76
Corrugated metal pipe, perforated type					
6" pipe	LF	0.060	8.62	8.77	17.39
8" pipe	LF	0.063	10.25	9.23	19.48
Perforated clay pipe					
6" pipe	LF	0.069	6.88	10.00	16.88
8" pipe	LF	0.071	8.01	10.25	18.26
Drain tile, concrete					
6" pipe	LF	0.053	4.70	7.80	12.50
8" pipe	LF	0.056	7.30	8.16	15.46
Perforated rigid PVC underdrain pipe					
4" pipe	LF	0.040	2.42	5.85	8.27
6" pipe	LF	0.048	4.64	7.02	11.66
8" pipe	LF	0.053	7.09	7.80	14.89
Underslab drainage, crushed stone					
3" thick	SF	0.008	0.36	1.17	1.53
4" thick	SF	0.009	0.49	1.35	1.84
6" thick	SF	0.010	0.75	1.46	2.21
Plastic filter fabric for drain lines	SF	0.008	0.55	0.64	1.19
33560.01 STORAGE TANKS					
STORAGE TANKS					
Oil storage tank, underground, single wall, no excv.					
Steel					
500 gals	EA	3.000	5,260.00	440.00	5,700.00
1,000 gals	EA	4.000	7,150.00	590.00	7,740.00

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	Unit	Man-Hrs	Material	Labor	Total
33560.01 STORAGE TANKS (Cont.)					
Oil storage tank, underground, single wall, no excv.					
Fiberglass, double wall					
550 gals	EA	4.000	14,870.00	590.00	15,460.00
1,000 gals	EA	4.000	19,120.00	590.00	19,710.00
Above ground					
Steel, single wall					
275 gals	EA	2.400	2,990.00	350.00	3,340.00
500 gals	EA	4.000	7,480.00	590.00	8,070.00
1,000 gals	EA	4.800	10,200.00	700.00	10,900.00
Fill cap	EA	0.800	180.00	90.00	270.00
Vent cap	EA	0.800	180.00	90.00	270.00
Level indicator	EA	0.800	280.00	90.00	370.00
33711.60 UTILITY POLES & FITTINGS					
UTILITY POLES & FITTINGS					
Wood pole, creosoted					
25'	EA	2.353	460.00	250.00	710.00
30'	EA	2.963	550.00	310.00	860.00
Treated, wood preservative, 6"x6"					
8'	EA	0.500	82.00	52.00	134.00
10'	EA	0.800	120.00	83.00	203.00
12'	EA	0.889	130.00	93.00	223.00
14'	EA	1.333	160.00	140.00	300.00
16'	EA	1.600	190.00	170.00	360.00
18'	EA	2.000	220.00	210.00	430.00
20'	EA	2.000	280.00	210.00	490.00
Aluminum, brushed, no base					
8'	EA	2.000	720.00	210.00	930.00
10'	EA	2.667	830.00	280.00	1,110.00
15'	EA	2.759	930.00	290.00	1,220.00
20'	EA	3.200	1,130.00	330.00	1,460.00
25'	EA	3.810	1,500.00	400.00	1,900.00
Steel, no base					
10'	EA	2.500	1,030.00	260.00	1,290.00
15'	EA	2.963	1,130.00	310.00	1,440.00
20'	EA	3.810	1,510.00	400.00	1,910.00
25'	EA	4.520	1,700.00	470.00	2,170.00
Concrete, no base					
13'	EA	5.517	1,260.00	570.00	1,830.00
16'	EA	7.273	1,760.00	760.00	2,520.00
18'	EA	8.791	2,120.00	920.00	3,040.00
25'	EA	10.000	2,590.00	1,040.00	3,630.00

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Part Three

Square Foot Tables

The following Square Foot Tables list hundreds of actual projects for ten building types, each with associated building size, total square foot building cost and percentage of project costs for total mechanical and electrical components. This data provides an overview of construction costs by building type. These costs are for actual projects. The variations within similar building types may be due, among other factors, to size, location, quality and specified components, materials and processes. Depending upon all such factors, specific building costs can vary significantly and may not necessarily fall within the range of costs as presented. The data has been updated to reflect current construction costs.

BUILDING CATEGORY	PAGE
Commercial	293
Civic / Government	294
Educational	295
Hotel / Motel	296
Industrial	297
Medical	298
Office	299
Recreational	300
Religious	301
Residential	302

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BNiDATA
Construction Data You Can Trust

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SQUARE FOOT TABLES

PROJECT	DESCRIPTION	CITY	STATE	SIZE	$/SF	NOTES
Commercial						
Bank	School Credit Union Administration Building	Katy	TX	30,700	$306.18	New
	FineMark National Bank & Trust	Fort Myers	FL	20,039	$577.62	New
	Florida Shores Bank	Pompano Beach	FL	11,697	$735.16	New
	Mobiloil Credit Union	Vidor	TX	9,252	$515.57	New
	Beaumont Community Credit Union	Beaumont	TX	3,267	$584.49	New
Office	Allendale Town Center	Allendale	NJ	80,226	$53.96	Addition/Renovation
	Roanoke Electric Cooperative	Ahoskie	NC	52,752	$307.79	New
	Regional Aviation & Training Center	Currituck	NC	39,930	$390.44	New
	Transportation/Warehouse Facility	Monroe	GA	32,400	$271.04	New
	Collection System Operations Facility	Walnut Creek	CA	27,179	$535.45	New
	ULTA - (Shell Only)	Pensacola	FL	10,850	$138.54	Renovation
	Daycare Center	Clawson	MI	4,270	$219.38	Adaptive Reuse
	Campgrounds Office & Retail	Cincinnati	OH	2,300	$480.59	New
Parking	Palm Avenue Parking Garage	Sarasota	FL	287,040	$82.11	New
	Reynolds Street Parking Deck	Augusta	GA	214,000	$97.67	New
	Awty Int. School Parking Structure	Houston	TX	174,582	$86.47	New
Retail	SNG Center - Mixed-Use	Fargo	ND	143,860	$145.31	New
	Roof & Lifeway/Steinmart Renovation	Pensacola	FL	88,299	$51.04	Renovation
	No Frills Supermarket	Omaha	NE	61,000	$155.47	New
	West Oaks Mall Redevelopment	Houston	TX	49,800	$276.68	Renovation
	World of Decor	Deerfield Beach	FL	47,500	$211.17	New
	Sarasota Yacht Club	Sarasota	FL	41,332	$620.42	New
	Karschs Village Market	Barnhart	MO	35,384	$121.18	New
	Fresh Thyme Farmers Market	Fishers	IN	28,784	$265.71	New
	Nashville Hangar Inc.	Nashville	TN	28,702	$278.61	New
	Party Time Plus	Billings	MT	26,000	$141.36	New
	Marshalls - (Shell Only)	Pensacola	FL	25,990	$67.63	Renovation
	Ed Hicks Mercedes-Benz USA	Corpus Christi	TX	25,273	$369.71	New
	Montana Honda & Marine	Billings	MT	22,963	$160.66	Addition
	Fresh Market - (Shell Only)	Pensacola	FL	21,000	$116.27	Renovation
	Theatre Exchange Interior Fit Up	Manitoba	CA	19,344	$187.53	Renovation
	DSW Shoes Renovation	Pensacola	FL	18,000	$130.17	Renovation
	Dormans Lighting & Design	Lutherville	MD	15,220	$176.46	Addition
	The Groves Exterior Renovation	Farmington	MI	15,137	$99.76	Renovation
	Don Gibson Theatre	Shelby	NC	13,386	$525.97	Renovation
	Tri Ford Showroom Expansion	Highland	IL	12,881	$172.02	Addition/Renovation
	Fiat of LeHigh Valley	Easton	PA	11,905	$220.30	New
	Sicardi Art Gallery	Houston	TX	6,175	$346.53	New
	Childrens Mercy Hospital Gift Shop	Kansas City	MO	5,010	$436.75	Tenant Build-out
Restaurant	LaMar Cebicheria Peruana Restaurant	San Francisco	CA	11,000	$446.53	Tenant Build-out
	Ulele Restaurant	Tampa	FL	8,905	$1,082.27	Adaptive Reuse
	Youells Oyster House	Allentown	PA	6,107	$355.28	New
	Mellow Mushroom Highlands Shell	Louisville	KY	5,802	$144.01	New
	Mellow Mushroom Highlands TBO	Louisville	KY	5,802	$238.84	Tenant Build-out
	Mellow Mushroom Pizza	Wilder	KY	5,500	$341.61	New
	Liberty Microbrewery	Plymouth	MI	3,425	$245.77	Addition
	700 South Deli	Linthicum	MD	3,200	$302.84	Tenant Build-out
	New York Pizza Department (NYPD)	Tempe	AZ	2,338	$463.32	Tenant Build-out
	Airport Restaurant Build Out	Eglin Air Force Base	FL	2,320	$398.86	Tenant Build-out

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PROJECT	DESCRIPTION	CITY	STATE	SIZE	$/SF	NOTES
Civic/Government						
Civic Center	Lincoln Center	Fort Collins	CO	38,160	$305.48	Addition/Renovation
	Rockport City Services Building	Rockport	TX	20,062	$316.02	New
	Sinclair Park Community Centre	Manitoba	CA	17,007	$447.45	Addition/Renovation
	Mt. Olive City Hall Complex	Mount Olive	IL	14,360	$171.58	New
	Teaneck Municipal Complex	Teaneck	NJ	12,870	$328.81	Addition/Renovation
	Cobb Community Center Additions	Pensacola	FL	5,200	$457.62	Addition/Renovation
	Newtown Municipal Center	Newtown	OH	5,077	$238.12	Adaptive Reuse
	Nederland City Hall	Nederland	TX	4,983	$529.78	New
Correctional	County Sheriffs Office	Morgantown	WV	31,645	$419.86	New
	Nederland Public Safety Complex	Nederland	TX	21,189	$306.90	Adaptive Reuse
	Detention Center & Sheriffs Office	Spencer	IA	16,983	$595.18	New
	Ogle City Sheriff & Coroner Admin	Oregon	IL	15,377	$401.05	New
	Chautauqua City Jail & Sheriff	Sedan	KS	12,257	$422.96	New
Courthouse	Courthouse HVAC System Replacement	Gainesville	FL	101,000	$61.01	Renovation
	Courthouse Renovation & Restoration	Springfield	IL	47,720	$260.77	Renovation
Fire Department	College Station Fire Station #6	College Station	TX	25,133	$494.55	New
	Mt. Orab Fire Station	Village of Mt. Orab	OH	18,170	$255.18	New
	Richardson Fire Station No. 4	Richardson	TX	14,090	$580.66	New
	Willowfork Fire Station No. 2	Katy	TX	13,358	$426.80	New
	Joint Fire & Rescue Station	Newtown	OH	13,125	$275.11	Addition/Renovation
	Little Miami Fire & Rescue	Fairfax	OH	12,316	$326.68	New
	Fire Station No. 11	Fort Smith	AR	12,155	$494.84	New
	Pearisburg Fire Station	Pearisburg	VA	11,818	$318.49	New
	Ponderosa Fire Station No. 62	Spring	TX	11,163	$427.30	New
	El Dorado Hills Fire Station 84	El Dorado Hills	CA	10,869	$643.41	New
	Wayne Fire Department	Goshen	OH	10,000	$140.05	New
	Fire Station No. 40	Jacksonville	FL	9,703	$564.60	New
	Rosenberg Fire Station No. 3	Rosenberg	TX	8,479	$535.22	New
	Little Rock Fire Station No. 23	Little Rock	AR	8,291	$688.57	New
	Cleveland Volunteer Fire Station	Cleveland	MS	6,910	$481.34	New
Government	Council Center For Scouting	Fargo	ND	20,466	$288.69	New
	Camp Crook Ranger Station	Camp Crook	SD	4,880	$713.01	New
	Beaumont Municipal Tennis Center	Beaumont	TX	4,460	$521.72	Addition
	Florence Transit Hub	Florence	KY	3,115	$745.23	New
	Knox Area Rescue Ministries	Knoxville	TN	1,762	$981.46	New
	Entrance Station Lake Mead	Clark County	NV	480	$3,981.92	New
	Vehicle Charging Stations	Denton	TX	6 spaces	$10,216.45	New
Library	Dover Public Library	Dover	DE	46,424	$625.96	New
	Clinton-Macomb Public Library	Clinton Township	MI	24,723	$182.90	Adaptive Reuse
	Crozet Western Albemarle Library	Crozet	VA	23,199	$508.17	New
	Upper Tampa Bay Regional Library	Tampa	FL	13,630	$351.71	Addition/Renovation
	Palmetto Branch Library	Palmetto	GA	11,200	$701.90	New
	Regional Library Expansion	Valrico	FL	10,970	$431.15	Addition/Renovation
Miscellaneous	City of Pampa Animal Welfare	Pampa	TX	13,578	$408.45	New
	Royal Winnipeg Ballet Renovations	Manitoba	CA	13,237	$110.20	Renovation
	Senior Services - Kitchen Facility	Batavia	OH	6,000	$174.43	New
	Historical Site Locomotive Shelter	Bismarck	ND	2,100	$233.11	New
Office	Federal Building & Courthouse Modernization	Denver	CO	41,600	$505.48	Renovation
	Brazos County Tax Office	Bryan	TX	13,143	$434.91	New
	Illinois Water District Office	Lincoln	IL	8,974	$226.35	New
	Arkansas River Resource Center	Little Rock	AR	4,926	$831.04	New

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Educational						
Athletic Facility	Physical Activity/Sports Science	Morgantown	WV	117,344	$345.09	New
	Indoor Football Practice Facility	Clemson	SC	81,992	$266.28	New
	Jesuit College Locker Room Addition	Dallas	TX	41,673	$318.38	Addition
	Multi-Purpose Gymnasium	Jacksonville	FL	22,844	$422.48	New
College Classroom	New Mexico Tech Geology Building	Socorro	NM	86,813	$460.25	New
	CSU Concourse & Training Room	Fort Collins	CO	53,050	$214.98	Addition/Renovation
	Jack Williamson Liberal Arts Center	Portales	NM	52,480	$345.44	Renovation
	UNLV Literature & Law Building	Las Vegas	NV	44,830	$287.21	Renovation
	Southern State Community College	Mount Orab	OH	43,833	$276.33	New
	SERT Building Iowa Lakes College	Estherville	IA	42,940	$189.39	Adaptive Reuse
Elementary	Cibolo Valley Elementary School	Cibolo	TX	153,130	$374.08	New
	Hill Farm Elementary School	Bryant	AR	88,800	$447.48	New
	CREC International Magnet School	South Windsor	CT	63,923	$615.04	New
	Pineville Elementary School	Pineville	WV	51,650	$327.52	New
	Crownpoint Elementary School	Crownpoint	NM	48,592	$610.25	New
	Janney Elementary School Addition	Washington	DC	10,000	$901.96	Addition
High School	Hmong College Prep Academy	Saint Paul	MN	154,434	$128.07	Addition/Renovation
	HFC High School North Building	Flossmoor	IL	136,555	$313.49	Addition/Renovation
	Somerset High School	Von Ormy	TX	125,800	$272.27	New
	Takoma Education Campus	Washington	DC	119,000	$336.75	Renovation
	High School Addition & Renovation	Decatur	GA	83,816	$390.99	Addition/Renovation
	Palmer Catholic Academy	Ponte Vedra Beach	FL	34,209	$211.86	New
	Elmwood High School Addition	Elmwood Park	IL	31,630	$524.58	Addition/Renovation
	High School Fine Arts Building	Heber Springs	AR	30,505	$612.68	New
	Alamo Heights High School Fine Arts	San Antonio	TX	25,536	$492.36	Addition/Renovation
	St. Patrick Catholic School	Jacksonville	FL	23,227	$451.91	New
	Springdale School Alteration	Corbett	OR	13,680	$192.80	Renovation
	Goddard School Addition Renovation	Anderson Township	OH	12,489	$128.47	Addition/Renovation
	ISD Outdoor Education Center	Sabine Pass	TX	10,193	$488.23	New
	Indian Mountain School Student Center	Lakeville	CT	9,335	$468.71	Addition
	First Impressions Academy	Fayetteville	NC	7,752	$269.68	New
	High School South Campus Field	Cincinnati	OH	5,580	$361.69	New
Middle School	Timberline Middle School	Waukee	IA	187,375	$242.75	New
	Red Bank Middle School	Chattanooga	TN	158,637	$401.94	New
	Jaime Escalante Middle School	Pharr	TX	156,538	$300.96	New
	Conservatory Green ECE-8 School	Denver	CO	113,616	$268.40	New
	Midland School Addition	Floral	AR	30,150	$360.92	Addition
Laboratory/Research	Science & Technology Building	Fayetteville	NC	65,048	$761.44	New
	NSU/US Geological Survey	Davie	FL	24,000	$158.22	Tenant Build-out
	Northeast Technology Center	Pryor	OK	11,909	$474.63	New
	Environmental Education Center	Bushkill Township	PA	9,275	$822.91	New
	Research & Education Center	Homestead	FL	5,760	$1,038.46	New
Multi-Purpose	BGSU Student Rec Center	Bowling Green	OH	179,549	$99.74	Renovation
	Kennedy Center Theatre/Studio Arts	Clinton	NY	96,100	$503.72	New
	Classroom & Administration Building	Houston	TX	65,234	$325.62	New
	NM State U Pete Domenici Building	Las Cruces	NM	53,341	$410.43	Addition/Renovation
	Widener University Freedom Hall	Chester	PA	36,700	$485.84	New
	Alumni Hall, Lincoln Park	Midland	PA	29,027	$396.18	New
	GSU Piedmont North Dining Hall	Atlanta	GA	12,300	$556.25	Addition
	NAU Dining Hall Expansion Phase II	Flagstaff	AZ	10,096	$709.38	New
	Neighborhood Resource Center	Richmond	TX	6,935	$306.23	New
	Heber Springs Cafeteria Remodel	Heber Springs	AR	5,585	$345.09	Renovation

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PROJECT	DESCRIPTION	CITY	STATE	SIZE	$/SF	NOTES
Hotels						
Hotels	Omni Dallas Hotel	Dallas	TX	1,161,450	$626.82	New
	John Ascuagas Nugget Hotel/Casino	Sparks	NV	449,820	$213.84	Addition
	Le Centre On Fourth Embassy Suites	Louisville	KY	408,229	$169.23	Adaptive Reuse
	Minneapolis Marriott West	Minneapolis	MN	237,362	$244.27	New
	Sheraton Centre Park Hotel	Dallas	TX	231,031	$349.58	New
	AmeriSuites	Chicago	IL	191,600	$221.04	Addition/Renovation
	Hampton Inn & Suites Hotel	Chicago	IL	162,000	$241.38	New
	Sheraton Harbor Island Hotel Tower	San Diego	CA	144,126	$294.30	Addition
	Compri Hotel	Los Angeles	CA	110,150	$260.64	New
	Best Western Columbia Hotel	San Diego	CA	108,040	$201.63	New
	Spooky Nook Warehouse Hotel	Manheim	PA	92,726	$192.01	Adaptive Reuse
	The Atrium Motel	Norfolk	VA	75,889	$206.20	New
	Staybridge Hotel At Preston Ridge	Alpharetta	GA	74,607	$264.39	New
	Hampton Inn & Suites	Allentown	PA	71,686	$220.50	New
	Hampton Inn Hotel	Carol Stream	IL	71,000	$270.78	New
	The Inn On Lake Superior	Duluth	MN	65,345	$217.82	New
	The Lancaster Hotel	Houston	TX	64,310	$455.82	Renovation
	Fairfield Inn	Helena	MT	31,009	$212.86	New
	The Edison Hotel	Miami	FL	28,875	$176.46	Renovation
	Western Executive Inn	Billings	MT	21,984	$157.55	New
	Country Hearth Inn	Preston	MN	21,028	$184.99	New
	Lawrence Welk Resort Hotel	Escondido	CA	19,874	$211.00	Addition
	Hanalei Hotel Conference Center	San Diego	CA	8,587	$335.06	Addition
	Summit At Vail, Multi-Purpose Lodge	Vail	CO	6,000	$400.03	New

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SQUARE FOOT TABLES

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Industrial						
Manufacturing	Brentwood Industries Manufacturing	Reading	PA	205,000	$62.12	New
	Lee Steel Corporate Plant	Romulus	MI	200,625	$135.10	New
	Siemens Westinghouse Fuel Cell Facility	Munhall	PA	191,090	$147.12	New
	Manufacturing Plant & Headquarters	Lansing	MI	188,975	$142.64	Addition
	Concepts Direct	Longmont	CO	117,900	$173.97	New
	Nypro Inc.	Clinton	MA	102,475	$178.47	Addition
	SWF Industrial	Wrightsville	PA	76,218	$109.96	New
	Headquarters & Manufacturing Facility	Lower Nazareth Township	PA	62,980	$52.66	Renovation
	Aerzen USA (Office/Manufacturing)	Coatesville	PA	40,000	$268.73	New
	Lee Steel Corporate Expansion	Wyoming	MI	34,821	$114.17	New
	Prescott Aerospace	Prescott	AZ	31,400	$164.48	New
	Battery Innovation Center	Newberry	IN	30,080	$641.71	New
	American Steel	Billings	MT	25,957	$119.29	New
	Phillip S. Luttazi Town Garage	Dover	MA	21,913	$205.26	New
	ITT Flygt - Industrial Facility	Milford	OH	16,991	$194.64	New
	Broadmoor Golf Maintenance	Colorado Springs	CO	16,064	$352.84	New
	Cooper B-Line Expansion	Highland	IL	15,290	$249.29	Addition/Renovation
	Robberson Ford Collision Center	Bend	OR	15,089	$204.63	New
	Brown Industrial Building	Truckee	CA	13,345	$202.16	New
	CTC Vehicle Maintenance Shops	Killeen	TX	11,250	$191.15	New
	Storage & Shop Facility	Billings	MT	8,763	$131.91	New
	Central Plant with Equipment Bay	Mesa	AZ	8,500	$1,360.10	New
Office	Woodlands Business Center	Richmond	VA	48,000	$118.16	New
	Wiregrass Research Center	Headland	AL	9,740	$364.92	New
Office/Warehouse	American Superconductor	Devens	MA	354,000	$251.11	New
	Castcon Stone Inc.	Saxonburg	PA	47,000	$168.19	New
	Minnesota DNR Headquarters	Tower	MN	37,802	$249.08	New
	Office & Warehouse	Miami	FL	14,815	$204.06	New
	DOT Office & Maintenance Building	Hillsboro	OH	10,876	$359.97	New
Warehouse	Distribution Center	Windsor	CT	303,750	$51.20	New
	Zany Brainy Distribution Center	Bridgeport	NJ	250,000	$61.14	New
	Galderma - Warehouse	Fort Worth	TX	70,000	$131.72	New
	Manzana Products Warehouse	Sebastopol	CA	41,395	$98.10	New
	Tactical Equip Maintenance Facility	Fort Campbell	KY	35,290	$353.96	New
	Sonoma Wine Company Canopy	Graton	CA	26,000	$83.28	New
	Administration/Chemical Storage Building	Killeen	TX	23,837	$503.51	New
	DOT Truck Storage Building	Hillsboro	OH	18,400	$137.37	New
	F.I. Storage Facility	Kentwood	MI	13,125	$101.01	New
	50 Columbia Drive Warehouse	Pooler	GA	10,000	$126.78	New
	DOT Salt Storage Building	Hillsboro	OH	9,100	$138.50	New
	Organizational Storage Facility	Fort Campbell	KY	8,040	$210.14	New
	Dwan Maintenance Building	Bloomington	MN	7,240	$283.80	Addition/Renovation
	Maintenance/Storage Building	Batavia	OH	7,200	$122.07	New
	DOT Cold Storage Building	Hillsboro	OH	5,040	$147.67	New
	Job Corp Warehouse	Hartford	CT	3,800	$700.13	New
	DOT Materials Storage Building	Hillsboro	OH	1,920	$165.11	New
	Aerial Vehicle Storage	Fort Campbell	KY	1,800	$315.54	New
	Petro, Oil, Lubricant Storage	Fort Campbell	KY	640	$441.09	New
	Hazardous Waste Storage Building	Fort Campbell	KY	640	$471.40	New

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PROJECT	DESCRIPTION	CITY	STATE	SIZE	$/SF	NOTES
Medical						
Clinic	HealthCare Emergency/Trauma Center	Topeka	KS	115,000	$594.93	Addition
	Sadler Clinic (Shell Only)	Conroe	TX	61,599	$185.21	New
	Pinellas County Health Department	Largo	FL	54,965	$385.94	Retrofit
	Sanford Moorhead Clinic	Moorhead	MN	49,250	$378.21	New
	County Health Department	Port Charlotte	FL	47,564	$428.84	New
	Sadler Clinic	Conroe	TX	41,066	$175.46	Tenant Build-out
	PineMed Medical Plaza	The Woodlands	TX	30,398	$195.67	New
	Outpatient Specialty Clinic	Vancouver	WA	20,139	$486.84	New
	Ambulatory Surgery Center	Stroudsburg	PA	19,929	$522.52	Addition/Renovation
	Thundermist Health Center	West Warwick	RI	18,217	$301.27	Adaptive Reuse
	E Texas Community Health Services	Nacogdoches	TX	12,500	$142.67	Retrofit
	North Mobile Health Center	Mt. Vernon	AL	6,765	$425.63	New
Dental Office	Construct Dental Clinic Roseburg	Roseburg	OR	7,750	$740.64	New
	Kitchens Pediatric Dental Clinic	Little Rock	AR	6,068	$445.84	New
	Dental Office Shell & Parking	Olympia	WA	5,302	$252.97	New
	Evans Family Dental	Austin	TX	2,354	$310.03	Tenant Build-out
Hospital	Union Hospital Addition	Terre Haute	IN	492,348	$465.96	Addition
	Regional Medical Center	Lafayette	LA	410,273	$779.86	New
	Houston Medical Pavilion	Warner Robins	GA	180,000	$91.86	Adaptive Reuse
	Langley AFB Hospital Renovation	Langley Air Force Base	VA	160,000	$778.59	Renovation
	Cass Regional Medical Center	Harrisonville	MO	137,524	$547.47	New
	Texas Spine & Joint Hospital	Tyler	TX	115,789	$362.60	Addition/Renovation
	Oktibbeha County Hospital Expansion	Starkville	MS	87,116	$475.13	New
	Childrens Mercy Hospital	Independence	MO	54,682	$457.78	New
	Oktibbeha County Hospital Renovation	Starkville	MS	30,263	$237.15	Renovation
	El Rio Community Health Center	Tucson	AZ	26,998	$349.64	New
	Pondella Public Health Center	Fort Myers	FL	26,400	$435.51	Renovation
	Topeka Ear Nose & Throat	Topeka	KS	24,073	$451.54	New
	Rapha Primary Care	Fayetteville	NC	19,907	$193.85	Renovation
	UNM Hospitals North Valley Center	Albuquerque	NM	16,500	$456.55	New
	El Rio Community Health Center	Tucson	AZ	14,000	$396.95	New
	VA Medical Center Area G Renovation	Houston	TX	12,000	$483.01	Renovation
	Surgical Suite Expansion	Dobbs Ferry	NY	9,000	$551.31	Renovation
	Legacy Emergency Room	Allen	TX	8,432	$914.38	New
	Oral & Maxillofacial Surgery Center	Fayetteville	NC	2,214	$778.03	Renovation
Nursing Home/Rehab	Senior Living Community	Hoschton	GA	56,251	$202.76	New
	Retirement Community	Carlisle	PA	47,075	$228.32	Addition/Renovation
	Assisted Living & Memory Center	Dacula	GA	38,221	$235.84	New
	Homestead Village Nursing Care	Lancaster	PA	28,149	$154.42	Renovation
	Jewish Services For The Aging	Tucson	AZ	24,993	$287.47	New
	Short-Term Rehabilitation	Olathe	KS	13,800	$386.72	Addition
	St. Katharine Retirement Center	El Reno	OK	12,000	$457.05	New/Addition
Office	Orthopedic Hospital/Medical Office	Allentown	PA	79,807	$289.68	Renovation
	Tomball Medical Office Building	Tomball	TX	54,380	$196.97	New
	Olathe Health Education Center	Olathe	KS	50,258	$440.46	New
	Home & Hospice Care	Providence	RI	47,734	$277.84	Renovation
	NE Georgia Medical Plaza 400	Dawsonville	GA	26,997	$387.65	Adaptive Reuse
	VA Medical Center/Pharmacy	Waco	TX	19,171	$225.70	Renovation
	Cancer Specialists of North Florida	Jacksonville	FL	18,654	$411.72	New
	MJHS Hospice Residence	N.Y.C.	NY	12,500	$213.05	Renovation
	Medical Office Building	Pelham	NH	8,399	$383.41	New
	Podiatry Group	Marietta	GA	6,768	$77.97	Renovation
	Marietta Podiatry Group	Marietta	GA	4,400	$356.08	New

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SQUARE FOOT TABLES

PROJECT	DESCRIPTION	CITY	STATE	SIZE	$/SF	NOTES
		Office				
Office	Restaurant Support Center	Lenexa	KS	186,465	$376.99	New
	5000 NASA Boulevard	Fairmont	WY	132,000	$401.98	New
	Rockford Construction Office	Grand Rapids	MI	71,144	$160.62	Adaptive Reuse
	Woodlawn Office Bldg. (Shell Only)	Louisville	KY	60,000	$203.19	New
	Rosecrance Ware Center	Rockford	IL	44,800	$200.53	Adaptive Reuse
	Professional Center (Shell)	White Marsh	MD	43,025	$255.62	New
	Swan Skyline Office Plaza (Shell)	Tucson	AZ	37,200	$172.41	New
	Infinite Energy Phase IV	Gainesville	FL	36,500	$451.92	New
	Freedom Plaza Building	Cookeville	TN	28,488	$353.33	New
	Landmark Professional Building	Clayton	NC	27,231	$335.03	New
	FC Gulf Freeway Building (Shell)	Houston	TX	24,084	$381.40	New
	White Street Building (Shell Only)	Marietta	GA	23,809	$311.25	New
	Columbia Shores Office Condo	Vancouver	WA	22,574	$258.31	New
	Office & Design Studio	Chicago	IL	20,244	$181.36	Tenant Build-out
	Pinnacle III Office Tenant Finish	Leawood	KS	18,409	$86.34	Tenant Build-out
	Commerce Park (Shell)	Suwanee	GA	17,097	$177.07	New
	PCWA Business Center Interior	Auburn	CA	12,085	$89.82	Renovation
	Tenth Avenue Holdings Offices	N.Y.C.	NY	11,000	$126.06	Tenant Build-out
	Office Park - Building A (Shell)	Fort Collins	CO	10,000	$387.15	New
	Longshoremens Welfare Fund Building	Savannah	GA	8,160	$568.42	New
	Garry Street Office Building	Manitoba	CA	7,506	$226.80	Renovation
	Reserve Advisors	Milwaukee	WI	5,300	$72.71	Tenant Build-out
	510 Armory Street Office	Boston	MA	5,100	$139.22	Renovation
	Offices of Bonsall Shafferman	Bethlehem	PA	4,950	$102.97	Tenant Build-out
	FCT Capital Partners	Houston	TX	4,100	$120.47	Tenant Build-out
	Martin Rogers Associates Office	Wilkes-Barre	PA	4,000	$192.76	Addition/Renovation
	Cowan & Kohne Financial	Suwanee	GA	3,713	$181.51	Tenant Build-out
	212 Archer Street Office	Bel Air	MD	3,600	$256.77	New
	Utilities Analyses Inc.	Suwanee	GA	3,513	$168.38	Tenant Build-out
	Visual Lizard Interior Fit-Up	Manitoba	CA	2,430	$135.09	Tenant Build-out
	Richardson State Farm	Houston	TX	2,200	$163.34	Tenant Build-out
Mixed-Use	Office/Retail/Parking Mixed-Use	Jackson	MS	228,407	$370.62	New
	Korte & Luitjohan Office & Shop	Highland	IL	26,000	$178.09	New
Medical Office	Evanston Medical Office Building	Evanston	WY	9,157	$408.20	New
	Advanced Medical Group	Suwanee	GA	4,433	$173.33	Tenant Build-out
	Bothell Dental Office Build Out	Bothell	WA	2,203	$287.82	Tenant Build-out
Headquarters	CONSUL Energy Corporation Headquarters	Southpointe, Canonsburg	PA	317,500	$343.77	New
	Fairmont Supply Corporate Headquarters	Southpointe, Canonsburg	PA	75,255	$227.18	New
	Practice Velocity Corporate Headquarters	Machesney Park	IL	64,318	$142.75	Adaptive Reuse
	Enterprise Integration Headquarters	Jacksonville	FL	57,723	$88.81	Renovation
	Linear Technology	Cary	NC	20,000	$461.35	New
	PIPS Technology Inc.	Knoxville	TN	19,884	$366.72	New
	Lee Steel Corporate Offices	Novi	MI	15,781	$243.75	Renovation
	Weaver Cooke Headquarters	Goldsboro	NC	15,464	$438.59	New
	In Capital Holdings	Boca Raton	FL	13,000	$246.49	Tenant Build-out
	ACCION Regional Headquarters	Albuquerque	NM	7,580	$471.86	New
Civic Office	Miss Department of Environmental Quality	Jackson	MS	121,170	$137.46	Renovation
	County Central Office Complex	Pensacola	FL	74,630	$416.60	New
	State of WV Office Building	Fairmont	WV	70,442	$371.19	New
	JAX Chamber of Commerce Renovation	Jacksonville	FL	20,110	$306.46	Renovation

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PROJECT	DESCRIPTION	CITY	STATE	SIZE	$/SF	NOTES
Recreational						
Educational	The Pavilion at Ole Miss	Oxford	MS	235,301	$652.46	New
	University Laker Turf Building	Allendale	MI	137,662	$216.33	New
	CSU Recreation Center	Chico	CA	110,245	$673.18	New
	Intramural Recreation Penn State	State College	PA	59,303	$597.16	Addition/Renovation
	Center For Women's Athletics	Fayetteville	AR	39,183	$531.74	New
	Pickens Recreation Center	Pickens	SC	20,400	$265.45	New
	High School Concessions & Press Box	Loganville	GA	1,506	$682.00	New
Health Club	Brooklyn Yard Fitness Club (Shell)	Portland	OR	63,987	$167.12	New
	Title Boxing Club	Cedar Hill	TX	4,330	$103.59	Tenant Build-out
Recreational	Community Recreation Center	Williston	ND	223,787	$649.50	New
	Spirit Lake Casino & Resort	St. Michael	ND	112,277	$88.10	Renovation
	Phipps Tropical Forest	Pittsburgh	PA	80,000	$474.04	New
	Family Recreation Center	Colonie	NY	70,256	$346.46	New
	Youth Activity Center	Joplin	MO	62,056	$146.72	New
	New Holland Recreational Center	New Holland	PA	51,256	$191.31	Renovation
	Community College Recreation Center	Cedar Rapids	IA	43,500	$241.41	New
	Anderson Recreation Center	Anderson	SC	34,282	$541.30	New
	East Park Community Center	Nashville	TN	33,000	$434.20	New
	Church Family Life Center	Clemson	SC	31,509	$468.55	New/Renovation
	C.K. Ray Recreation Center	Conroe	TX	30,380	$221.14	Addition/Renovation
	St. Raphael Athletic & Wellness Center	Pawtucket	RI	30,268	$382.85	New
	The Forge For Families	Houston	TX	29,860	$360.97	New
	Christian Life Center	Birmingham	MI	26,966	$494.06	Addition
	Children's Sports Center	Woodbury	MN	26,219	$176.69	New
	Trinity River Audubon Center	Dallas	TX	20,791	$1,362.39	New
	Baptist Church Activity Center	Indianapolis	IN	16,636	$218.44	New
	Boys & Girls Club Syracuse	Syracuse	NY	12,107	$266.98	Addition
	Job Corp Recreational Building	Hartford	CT	11,300	$299.59	New
	Presbyterian Family Life Center	Strawberry Plains	TN	11,236	$243.43	New
	McDaniel Yacht Basin	North East	MD	7,620	$274.16	New
	Bicentennial Park	Cincinnati	OH	4,050	$1,284.29	New
	Bahosky Softball Complex	Bronx	NY	3,800	$694.53	New
Swimming Center	Resort & Indoor Waterpark	Cortland	NY	175,060	$388.02	New
	The Aquatic Center	Tunica	MS	45,008	$462.33	New
	Spirit Lake Phase 4	St. Michael	ND	26,630	$528.58	Addition/Renovation
	Family Aquatic Center	Beachwood	OH	7,500	$1,717.79	New
	Community Aquatic Park & Center	Billings	MT	6,730	$1,080.36	New
Theater	Cinema & IMAX Theatre	Lansing	MI	13,750	$326.57	New
	Academy Theater	N.Y.C.	NY	4,593	$331.78	Renovation
YMCA	David D. Hunting YMCA	Grand Rapids	MI	162,966	$297.60	New
	YMCA Recreational Center	Ann Arbor	MI	83,377	$405.07	New
	Floyd Co. YMCA & Aquatic Center	New Albany	IN	82,324	$493.21	New
	Wade Walker Park Family YMCA	Stone Mountain	GA	59,134	$514.78	New
	Alexandria YMCA	Alexandria	MN	55,150	$249.08	New
	Greater Nashua YMCA	Nashua	NH	49,980	$306.56	New
	Lancaster YMCA Harrisburg Ave.	Lancaster	PA	42,502	$521.35	New
	Greater Kingsport Family YMCA	Kingsport	TN	40,007	$372.39	New
	Eastside YMCA	Knoxville	TN	39,984	$370.00	New
	Highland County Family YMCA	Hillsboro	OH	33,228	$220.47	New
	Houston Texans YMCA	Houston	TX	31,628	$523.13	New
	Cypress Creek YMCA	Houston	TX	25,699	$220.65	Addition/Renovation

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PROJECT	DESCRIPTION	CITY	STATE	SIZE	$/SF	NOTES
Religious						
Church	First United Methodist Church	Orlando	FL	121,536	$411.81	New
	Beautiful Savior Lutheran Church	Plymouth	MN	69,700	$168.42	New
	Solid Rock Baptist Church	Berlin	NJ	58,359	$152.29	New
	North Side Baptist Church	Greenville	SC	48,087	$388.90	New
	St. Martha Catholic Church	Porter	TX	46,748	$768.40	New
	Gracepoint Gospel Fellowship Church	Ramapo	NY	46,595	$285.81	New
	Good Shepherd Methodist Church	Odessa	TX	41,003	$455.21	New
	Davisville Church Addition	Southampton	PA	36,090	$269.13	Addition
	Immaculate Catholic Church	Columbia	IL	34,000	$376.33	New
	Keystone Community Church	Ada	MI	29,775	$221.59	New
	Grace Church	Des Moines	IA	29,296	$300.64	New
	Good Shepherd Church	Naperville	IL	27,869	$297.80	Addition/Renovation
	River Hills Baptist Church	Corpus Christi	TX	27,404	$450.86	New
	Good Shepherd Catholic Church	Smithville	MO	24,810	$309.73	New
	Prince of Peace Catholic Church	Chesapeake	VA	24,740	$388.08	Addition/Renovation
	Sanctuary Addition Christian Church	Oklahoma City	OK	23,820	$232.62	Addition
	St. Sylvester Catholic Church	Gulf Breeze	FL	22,000	$609.95	New
	St. Peters Catholic Sanctuary	Fallbrook	CA	20,764	$672.08	New
	Notre Dame Catholic Church	Houston	TX	20,280	$620.01	New
	St Eugene Catholic Church	Oklahoma City	OK	20,000	$679.57	New
	Chapin Presbyterian Church	Chapin	SC	19,900	$495.50	New
	St. Michaels Catholic Church	Glen Allen	VA	19,770	$531.58	New
	Shrine of Holy Spirit	Branson	MO	19,200	$505.88	New
	Wildwood United Methodist Church	Magnolia	TX	19,000	$361.46	New
	Episcopal Church of the Nativity	Scottsdale	AZ	18,288	$180.78	Adaptive Reuse
	Hardin Church of Christ	Knoxville	TN	17,149	$181.73	New
	First United Methodist Church	Crossville	TN	15,816	$711.32	New
	Good Shepherd Episcopal Church	Silver Spring	MD	15,200	$424.43	Addition/Renovation
	Ascension Catholic Church	LaPlace	LA	15,057	$560.28	New
	St. Patrick Catholic Church	Jacksonville	FL	14,139	$400.47	New
	Our Lady of Guadalupe Catholic Church	Rosenberg	TX	12,910	$617.70	New
	St. Timothy's Episcopal Church	Creve Coeur	MO	12,682	$307.94	New/Renovation
	St. Paul Lutheran Church	Pomaria	SC	12,072	$504.19	New
	Covenant Baptist Church	Florida City	FL	10,725	$376.20	New
	First United Methodist Church	Katy	TX	10,503	$456.92	Addition/Renovation
	Lake Ann United Methodist Church	Lake Ann	MI	9,975	$315.72	New
	United Methodist Church	Odenton	MD	8,783	$493.33	New
	Kent R. Hance Chapel at Texas Tech	Lubbock	TX	6,530	$895.48	New
	Haven for Hope Chapel	San Antonio	TX	2,232	$672.62	New
Multi-Purpose	Baptist Church Multi-Purpose Bldg	Maryville	TN	41,656	$167.83	New
	Good Shepherd Parish Center	San Diego	CA	28,752	$231.47	New
	Christian Life Center	Kansas City	MO	26,320	$449.57	New
	Baptist Church Outreach Center	Fort Smith	AR	25,000	$394.74	New
	St Rafael Administration Building	San Diego	CA	24,276	$249.30	New
	Catholic Church Social Hall	Chula Vista	CA	23,596	$414.80	New
	United Methodist Church	West Chester	PA	11,935	$362.73	Addition/Renovation
	Student Ministry Center	Knoxville	TN	11,700	$449.39	New
	Catholic Pastoral Ministries Center	Spring	TX	10,135	$576.95	New
	Christian Renewal Center	Dickinson	TX	8,500	$317.19	New
	Holy Family St Lawrence Parish Center	Essex Junction	VT	7,900	$332.65	New
	Presbyterian Church Addition	Gap	PA	7,414	$381.85	Addition/Renovation
	New Hope Church Addition/Alteration	Saint Louis	MO	5,564	$292.38	Renovation

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SQUARE FOOT TABLES

PROJECT	DESCRIPTION	CITY	STATE	SIZE	$/SF	NOTES
Residential						
Apartment	Solace Apartments	Virginia Beach	VA	331,681	$148.00	New
	1221 Broadway Lofts	San Antonio	TX	205,137	$209.02	Adaptive Reuse
	Sustainable Fellwood Phase I	Savannah	GA	124,037	$195.54	New
	Kelly Cullen Community	San Francisco	CA	98,385	$810.22	Adaptive Reuse
	Bachelors Enlisted Quarters	Camp Williams	UT	76,253	$368.40	New
	Mockingbird Terrace Homes	Louisville	KY	71,110	$234.14	New
	Homeless Men's Residential	San Antonio	TX	67,908	$388.11	New
	Homeless Women's/Family Residence	San Antonio	TX	60,182	$373.99	New
	Magnolia Place	Lancaster	PA	39,714	$235.86	New
	Elkins First Ward Apartments	Elkins	WV	27,000	$169.31	Adaptive Reuse
	Young Burlington Apartments	Los Angeles	CA	24,399	$303.44	New
	The Lofts at 300 Bowman	Dickson City	PA	23,900	$126.48	Adaptive Reuse
	Peaceful Paths Emergency Svc Campus	Gainesville	FL	22,535	$217.13	New
	Wylie House - Ronald McDonald House	Kansas City	MO	21,885	$275.40	New
	Dogwood Manor Apartments	Oak Ridge	TN	19,975	$249.77	New
	Anderson Village Multi-Family	Austin	TX	12,500	$416.99	New
	Salvation Army Sally's House	Houston	TX	7,812	$363.89	Addition
	Stones River Apartment Complex	Murfreesboro	TN	7,548	$336.51	Addition
	Sunshine Park Apartments Renovation	Gainesville	FL	2,252	$178.36	Renovation
Assisted Living	Kenmore Apartments Senior Housing	Chicago	IL	90,528	$312.01	Renovation
	Country Meadows Retirement	Allentown	PA	53,237	$238.73	New
	Creekside Village Assisted Living	Harrisburg	PA	16,150	$207.48	New
	Landis Homes Retirement Community	Lititz	PA	14,255	$98.06	Renovation
Dormitory	NSU Graduate Student Housing	Davie	FL	203,500	$320.55	Renovation
	Rider University Student Housing	Lawrenceville	NJ	50,500	$344.79	New
	JWU Biscayne Commons Dormitory	Miami	FL	40,048	$378.20	New
	College Residence Dorm	Bloomfield	NJ	25,980	$465.70	Renovation
Single-Family Home	Island Residence	Grosse Ile	MI	19,237	$1,024.84	New
	MG Residence Restoration	Williamston	MI	9,768	$110.03	Renovation
	Concepcion House	Coral Gables	FL	6,067	$538.03	New
	Leal House	Miami	FL	5,935	$377.79	New/Renovation
	Monserrate Street Residence	Coral Gables	FL	5,885	$667.37	New
	Private Residence	Newburgh	IN	5,566	$536.03	New
	Private Residence	Austin	MN	5,489	$232.38	New
	Private Residence	Lake Wallenpaupack	PA	4,845	$485.57	New
	Island in the Grove	Boca Raton	FL	4,701	$552.28	New
	Private Residence	Benson	AZ	3,660	$279.44	New
	Fairhope Green Home	Fairhope	AL	3,610	$315.43	New
	PATH Concept House	Omaha	NE	3,490	$132.93	New
	Private Residence	La Jolla	CA	3,420	$542.48	New
	Solar House - Private Residence	Fly Creek	NY	3,304	$281.28	New
	Elliott Residence	Fort Collins	CO	3,300	$414.20	New
	Renfrew House	Manitoba	CA	3,206	$302.01	New
	Rosado I Hansen Residence	Tucson	AZ	3,175	$216.60	New
	306 W. Waldburg Residence	Savannah	GA	2,588	$266.64	New
	Nutter Green Home	Milford	OH	2,289	$255.17	New
	Guest House Residence	Ahwatuckee	AZ	1,913	$594.60	New
	Kiwi House	Baton Rouge	LA	1,515	$249.25	New
	Private Residence Renovation	Shavertown	PA	810	$258.29	Renovation

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Part Four

Metro Area Multipliers

The costs as presented in this book attempt to represent national averages. Costs, however, vary among regions, states and even between adjacent localities.

In order to more closely approximate the probable costs for specific locations throughout the U.S., this table of Metro Area Multipliers is provided. These adjustment factors can be used to modify costs obtained from this book to help account for regional variations of construction costs and to provide a more accurate estimate for specific areas. The factors are formulated by comparing costs in a specific area to the costs presented in this Costbook. An example of how to use these factors is shown below. Whenever local current costs are known, whether material prices or labor rates, they should be used when more accuracy is required.

Cost from Costbook Pages	X	Metro Area Multiplier	=	Adjusted Cost

For example, a project estimated to cost $1,000,000 using the Costbook pages can be adjusted to more closely approximate the cost in Los Angeles:

$1,000,000	X	1.20	=	$1,200,000

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METRO AREA MULTIPLIERS

State	Metropolitan Area	Multiplier
AK	ANCHORAGE	1.09
	FAIRBANKS	1.09
	JUNEAU	1.09
	KETCHIKAN	1.09
	KODIAK	1.09
	NOME	1.09
	OTHER	1.09
	SITKA	1.09
AL	ANNISTON	0.83
	AUBURN	0.83
	BIRMINGHAM	0.84
	DECATUR	0.84
	DOTHAN	0.81
	FLORENCE	0.84
	GADSDEN	0.83
	HUNTSVILLE	0.82
	MOBILE	0.83
	MONTGOMERY	0.83
	OPELIKA	0.83
	OTHER	0.83
	PRATTVILLE	0.83
	SELMA	0.83
	TUSCALOOSA	0.84
AR	BATESVILLE	0.80
	CONWAY	0.80
	EL DORADO	0.80
	FAYETTEVILLE	0.80
	FORT SMITH	0.80
	HOT SPRINGS	0.80
	JONESBORO	0.79
	LITTLE ROCK	0.82
	NORTH LITTLE ROCK	0.82
	OTHER	0.80
	PINE BLUFF	0.80
	ROGERS	0.78
	SPRINGDALE	0.80
	TEXARKANA	0.80

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METRO AREA MULTIPLIERS

State	Metropolitan Area	Multiplier
AZ	CASA GRANDE	0.83
	CLIFTON	0.83
	FLAGSTAFF	0.84
	LAKE HAVASU CITY	0.83
	MESA	0.85
	OTHER	0.83
	PHOENIX	0.85
	SIERRA VISTA	0.83
	TUCSON	0.82
	YUMA	0.81
CA	ANAHEIM	1.21
	BAKERSFIELD	1.20
	CHICO	1.17
	EUREKA	1.17
	FAIRFIELD	1.17
	FRESNO	1.21
	LODI	1.21
	LONG BEACH	1.20
	LOS ANGELES	1.20
	MERCED	1.21
	MODESTO	1.21
	NAPA	1.17
	OAKLAND	1.21
	ORANGE COUNTY	1.21
	OTHER	1.20
	PARADISE	1.17
	PORTERVILLE	1.07
	REDDING	1.17
	RIVERSIDE	1.20
	SACRAMENTO	1.17
	SALINAS	1.21
	SAN BERNARDINO	1.21
	SAN DIEGO	1.18
	SAN FRANCISCO	1.21
	SAN JOSE	1.21
	SAN LUIS OBISPO	1.20
	SANTA BARBARA	1.20
	SANTA CRUZ	1.21
	SANTA ROSA	1.17

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METRO AREA MULTIPLIERS

State	Metropolitan Area	Multiplier
CA	STOCKTON	1.21
	TULARE	1.07
	VALLEJO-FAIRFIELD-NAPA	1.17
	VENTURA	1.20
	VISALIA	1.07
	WATSONVILLE	1.21
	YOLO	1.17
	YUBA CITY	1.17
CO	BOULDER	0.91
	COLORADO SPRINGS	0.90
	DENVER	0.90
	DURANGO	0.90
	FORT COLLINS	0.88
	GRAND JUNCTION	0.88
	GREELEY	0.89
	LONGMONT	0.91
	LOVELAND	0.88
	OTHER	0.90
	PUEBLO	0.89
	STERLING	0.90
CT	BRIDGEPORT	1.11
	DANBURY	1.11
	HARTFORD	1.11
	MANCHESTER	1.11
	MERIDEN	1.10
	MIDDLETOWN	1.11
	NEW HAVEN	1.10
	NEW LONDON	1.10
	NORWALK	1.11
	NORWICH	1.10
	OTHER	1.10
	STAMFORD	1.11
	TORRINGTON	1.10
	WATERBURY	1.10
DC	WASHINGTON DC	1.00
DE	DOVER	1.08
	NEWARK	1.07
	OTHER	1.07
	WILMINGTON	1.07

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METRO AREA MULTIPLIERS

State	Metropolitan Area	Multiplier
FL	BLOUNTSTOWN	0.86
	BOCA RATON	0.86
	BOSTWICK	0.90
	BRADENTON	0.87
	CAPE CORAL	0.86
	CLEARWATER	0.86
	DAYTONA BEACH	0.85
	FORT LAUDERDALE	0.88
	FORT MYERS	0.86
	FORT PIERCE	0.86
	FORT WALTON BEACH	0.85
	GAINESVILLE	0.85
	JACKSONVILLE	0.87
	LAKELAND	0.84
	MELBOURNE	0.91
	MIAMI	0.87
	NAPLES	0.86
	OCALA	0.85
	ORLANDO	0.84
	OTHER	0.86
	PALM BAY	0.91
	PANAMA CITY	0.86
	PENSACOLA	0.84
	PORT ST. LUCIE	0.86
	PUNTA GORDA	0.86
	SARASOTA	0.86
	ST PETERSBURG	0.86
	TALLAHASSEE	0.84
	TAMPA	0.85
	TITUSVILLE	0.91
	WEST PALM BEACH	0.86
	WINTER HAVEN	0.84
GA	ALBANY	0.86
	ATHENS	0.84
	ATLANTA	0.84
	AUGUSTA	0.84
	COLUMBUS	0.82
	MACON	0.84
	MARIETTA	0.84

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METRO AREA MULTIPLIERS

State	Metropolitan Area	Multiplier
GA	OTHER	0.84
	ROME	0.84
	SAVANNAH	0.85
	VALDOSTA	0.84
HI	HILO	1.16
	HONOLULU	1.16
	MAUI	1.16
	OTHER	1.16
IA	BURLINGTON	0.93
	CEDAR FALLS	0.89
	CEDAR RAPIDS	0.92
	COUNCIL BLUFFS	0.93
	DAVENPORT	0.96
	DES MOINES	0.96
	DUBUQUE	0.94
	FT. DODGE	0.93
	IOWA CITY	0.93
	MARSHALLTOWN	0.93
	MASON CITY	0.93
	OTHER	0.93
	OTTUMWA	0.93
	SIOUX CITY	0.92
	WATERLOO	0.89
ID	BOISE CITY	0.87
	LEWISTON	0.88
	OTHER	0.88
	POCATELLO	0.89
	SALMON	0.88
	ST. ANTHONY	0.88
	ST. MARIES	0.88
	TWIN FALLS	0.88
IL	ALTON	1.05
	BLOOMINGTON	1.04
	CHAMPAIGN	1.02
	CHICAGO	1.19
	DE KALB	1.04
	DECATUR	1.00
	EAST ST. LOUIS	1.05
	FREEPORT	1.04
	HARRISBURG	1.02

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State	Metropolitan Area	Multiplier
IL	KANKAKEE	1.18
	MOLINE	1.04
	NORMAL	1.04
	OTHER	1.05
	PEKIN	1.01
	PEORIA	1.01
	ROCKFORD	1.04
	SPRINGFIELD	1.00
	URBANA	1.02
IN	BLOOMINGTON	0.94
	COLUMBUS	0.94
	ELKHART	1.00
	EVANSVILLE	0.95
	FORT WAYNE	0.94
	GARY	1.02
	GOSHEN	1.00
	INDIANAPOLIS	0.94
	KOKOMO	0.94
	LAFAYETTE	0.94
	MUNCIE	0.94
	NEW ALBANY	0.97
	OTHER	0.97
	SOUTH BEND	1.02
	TERRE HAUTE	0.95
KS	DODGE CITY	1.01
	HUTCHINSON	1.01
	KANSAS CITY	1.04
	LAWRENCE	1.02
	MANHATTAN	1.01
	OLATHE	1.01
	OTHER	1.01
	SALINA	1.01
	TOPEKA	1.00
	WICHITA	0.95
KY	BOWLING GREEN	0.92
	HOPKINSVILLE	0.92
	LEXINGTON	0.93
	LOUISVILLE	0.91
	MAYFIELD	0.92
	MAYSVILLE	0.92

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State	Metropolitan Area	Multiplier
KY	OTHER	0.92
	OWENSBORO	0.92
	PADUCAH	0.92
LA	ALEXANDRIA	0.84
	BATON ROUGE	0.85
	BOSSIER CITY	0.84
	HOUMA	0.85
	LAFAYETTE	0.84
	LAKE CHARLES	0.84
	MONROE	0.83
	NEW IBERIA	0.84
	NEW ORLEANS	0.85
	OTHER	0.84
	SHREVEPORT	0.85
MA	ATTLEBORO	1.17
	BARNSTABLE	1.17
	BOSTON	1.17
	BROCKTON	1.21
	FALL RIVER	1.17
	FITCHBURG	1.18
	FRAMINGHAM	1.17
	HAVERHILL	1.17
	LAWRENCE	1.17
	LEOMINSTER	1.18
	LOWELL	1.17
	NEW BEDFORD	1.17
	NORTHAMPTON	1.06
	OTHER	1.14
	PITTSFIELD	1.06
	SPRINGFIELD	1.06
	WORCESTER	1.18
	YARMOUTH	1.17
MD	ABERDEEN	0.89
	ANNAPOLIS	0.89
	BALTIMORE	0.91
	CUMBERLAND	0.87
	FREDERICK	0.89
	HAGERSTOWN	0.89
	LEXINGTON PARK	0.89
	OTHER	0.89

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State	Metropolitan Area	Multiplier
MD	ROCKVILLE	0.89
	SALISBURY	0.89
ME	AUBURN	0.84
	AUGUSTA	0.83
	BANGOR	0.82
	BIDDEFORD	0.83
	FARMINGTON	0.83
	LEWISTOWN	0.84
	OTHER	0.83
	PORTLAND	0.84
	SANFORD	0.83
MI	ANN ARBOR	1.03
	BATTLE CREEK	0.94
	BAY CITY	0.93
	BENTON HARBOR	0.95
	CHEBOYGAN	0.94
	DETROIT	1.02
	EAST LANSING	0.96
	FLINT	0.98
	GRAND RAPIDS	0.84
	HOLLAND	0.88
	JACKSON	0.97
	KALAMAZOO	0.94
	LANSING	0.96
	MARQUETTE	0.94
	MIDLAND	0.92
	MUSKEGON	0.87
	OTHER	0.94
	SAGINAW	0.92
MN	AUSTIN	1.07
	DULUTH	1.05
	GRAND FORKS	1.07
	GRAND RAPIDS	1.07
	MANKATO	1.07
	MINNEAPOLIS	1.09
	MOORHEAD	1.07
	OTHER	1.07
	ROCHESTER	1.05
	ST CLOUD	1.05
	ST PAUL	1.09

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State	Metropolitan Area	Multiplier
MO	COLUMBIA	1.00
	FARMINGTON	1.00
	JEFFERSON CITY	1.00
	JOPLIN	0.91
	KANSAS CITY	1.06
	OTHER	1.00
	POPLAR BLUFF	1.00
	SAINT JOSEPH	1.05
	SAINT LOUIS	1.02
	SPRINGFIELD	0.90
MS	BILOXI	0.82
	COLUMBUS	0.82
	GREENVILLE	0.82
	GULFPORT	0.82
	HATTIESBURG	0.83
	HELENA	0.84
	JACKSON	0.80
	MERIDIAN	0.82
	OTHER	0.82
	PASCAGOULA	0.84
	VICKSBURG	0.82
MT	BILLINGS	0.91
	BUTTE	0.92
	GLASGOW	0.92
	GREAT FALLS	0.92
	HAVRE	0.92
	HELENA	0.92
	KALISPELL	0.92
	MILES CITY	0.92
	MISSOULA	0.92
	OTHER	0.92
NC	ASHEVILLE	0.79
	CHAPEL HILL	0.78
	CHARLOTTE	0.79
	DURHAM	0.78
	FAYETTEVILLE	0.79
	GASTONIA	0.79
	GOLDSBORO	0.79
	GREENSBORO	0.78
	GREENVILLE	0.78

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METRO AREA MULTIPLIERS

State	Metropolitan Area	Multiplier
NC	HICKORY	0.79
	HIGH POINT	0.78
	JACKSONVILLE	0.79
	KANNAPOLIS	0.79
	LENOIR	0.80
	MORGANTON	0.80
	OTHER	0.79
	RALEIGH	0.79
	ROCKY MOUNT	0.78
	WILMINGTON	0.78
	WINSTON-SALEM	0.78
ND	BISMARCK	0.89
	DICKINSON	0.91
	FARGO	0.92
	GRAND FORKS	0.90
	JAMESTOWN	0.91
	MINOT	0.91
	OTHER	0.91
	WILLISTON	0.91
NE	BEATRICE	0.91
	CHADRON	0.91
	COLUMBUS	0.91
	GRAND ISLAND	0.91
	LINCOLN	0.89
	NORFOLK	0.91
	NORTH PLATTE	0.91
	OMAHA	0.93
	OTHER	0.91
	SCOTTSBLUFF	0.91
	VALENTINE	0.91
NH	BERLIN	0.89
	CLAREMONT	0.89
	CONCORD	0.89
	KEENE	0.89
	LACONIA	0.89
	MANCHESTER	0.89
	NASHUA	0.89
	OTHER	0.89
	PORTSMOUTH	0.90
	ROCHESTER	0.89

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METRO AREA MULTIPLIERS

State	Metropolitan Area	Multiplier
NJ	ATLANTIC CITY	1.20
	BERGEN	1.24
	BRIDGETON	1.19
	CAMDEN	1.21
	CAPE MAY	1.18
	FLANDERS	1.21
	HAMMONTON	1.20
	HUNTERDON	1.20
	JERSEY CITY	1.23
	LAKEWOOD	1.21
	MIDDLESEX	1.20
	MILLVILLE	1.19
	MONMOUTH	1.19
	NEW BRUNSWICK	1.21
	NEWARK	1.22
	OCEAN	1.18
	OTHER	1.21
	PASSAIC	1.23
	PATERSON	1.23
	SOMERSET	1.22
	TRENTON	1.20
	VINELAND	1.19
	WASHINGTON	1.21
	WILLINGBORO	1.21
NM	ALAMOGORDO	0.88
	ALBUQUERQUE	0.88
	CARLSBAD	0.88
	FARMINGTON	0.88
	GALLUP	0.88
	LAS CRUCES	0.87
	LAS VEGAS	0.88
	OTHER	0.88
	SANTA FE	0.88
NV	CARSON CITY	1.14
	ELY	1.14
	HAWTHORNE	1.14
	HENDERSON	1.15
	LAS VEGAS	1.15
	OTHER	1.14
	RENO	1.14

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State	Metropolitan Area	Multiplier
NV	SPARKS	1.14
	WINNEMUCCA	1.14
NY	ALBANY	1.06
	AMSTERDAM	1.06
	BINGHAMTON	1.06
	BUFFALO	1.04
	DUTCHESS COUNTY	1.18
	ELMIRA	1.04
	GLENS FALLS	1.08
	ITHACA	1.11
	JAMESTOWN	1.11
	KINGSTON	1.18
	LOCKPORT	0.97
	LONG ISLAND	1.27
	MALONE	1.11
	NASSAU	1.27
	NEW YORK CITY	1.38
	NEWBURGH	1.18
	NIAGARA FALLS	0.97
	OTHER	1.11
	ROCHESTER	1.04
	ROME	0.94
	SCHENECTADY	1.06
	SUFFOLK	1.27
	SYRACUSE	0.96
	TROY	1.06
	UTICA	0.94
	WATERTOWN	1.11
	WHITE PLAINS	1.11
OH	AKRON	0.97
	CANTON	0.94
	CINCINNATI	0.94
	CLEVELAND	0.99
	COLUMBUS	0.95
	DAYTON	0.93
	ELYRIA	0.99
	FINDLAY	0.95
	HAMILTON	0.95
	LIMA	0.93
	LORAIN	0.99

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State	Metropolitan Area	Multiplier
OH	MANSFIELD	0.95
	MARION	0.95
	MASSILLON	0.94
	MIDDLETOWN	0.95
	OTHER	0.95
	PORTSMOUTH	0.95
	SPRINGFIELD	0.94
	STEUBENVILLE	0.94
	TOLEDO	0.97
	WARREN	0.94
	YOUNGSTOWN	0.94
OK	BARTLESVILLE	0.87
	ENID	0.85
	LAWTON	0.86
	MUSKOGEE	0.87
	NORMAN	0.87
	OKLAHOMA CITY	0.87
	OTHER	0.87
	PONCA CITY	0.87
	TULSA	0.87
OR	ASHLAND	1.00
	BEND	1.05
	CORVALLIS	1.05
	EUGENE	1.05
	MEDFORD	1.00
	OTHER	1.05
	PENDLETON	1.05
	PORTLAND	1.08
	SALEM	1.06
	SPRINGFIELD	1.05
	THE DALLES	1.05
PA	ALLENTOWN	1.00
	ALTOONA	0.97
	BETHLEHEM	1.02
	CARLISLE	0.97
	EASTON	1.02
	ERIE	0.97
	HARRISBURG	0.98
	HAZLETON	0.99
	JOHNSTOWN	0.97

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METRO AREA MULTIPLIERS

State	Metropolitan Area	Multiplier
PA	LANCASTER	0.97
	LEBANON	0.97
	NEW CASTLE	1.00
	OTHER	1.00
	PHILADELPHIA	1.14
	PITTSBURGH	1.02
	READING	1.02
	SCRANTON	0.99
	SHARON	0.99
	STATE COLLEGE	0.98
	WILKES-BARRE	0.99
	WILLIAMSPORT	0.99
	YORK	0.97
PR	MAYAGUEZ	0.73
	OTHER	0.73
	PONCE	0.73
	SAN JUAN	0.73
RI	NEWPORT	1.07
	OTHER	1.07
	PAWTUCKET	1.07
	PROVIDENCE	1.07
	WARWICK	1.07
	WESTERLY	1.07
	WOONSOCKET	1.07
SC	AIKEN	0.90
	ANDERSON	0.78
	CHARLESTON	0.79
	COLUMBIA	0.78
	FLORENCE	0.80
	GREENVILLE	0.78
	MYRTLE BEACH	0.77
	NORTH CHARLESTON	0.79
	OTHER	0.81
	ROCK HILL	0.81
	SPARTANBURG	0.79
	SUMTER	0.78
SD	ABERDEEN	0.84
	BROOKINGS	0.84
	MITCHELL	0.84
	OTHER	0.84

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METRO AREA MULTIPLIERS

State	Metropolitan Area	Multiplier
SD	PIERRE	0.84
	RAPID CITY	0.84
	SIOUX FALLS	0.84
	WATERTOWN	0.84
TN	CHATTANOOGA	0.86
	CLARKSVILLE	0.86
	JACKSON	0.86
	JOHNSON CITY	0.84
	KNOXVILLE	0.87
	MEMPHIS	0.87
	NASHVILLE	0.85
	OTHER	0.86
TX	ABILENE	0.84
	AMARILLO	0.84
	ARLINGTON	0.82
	AUSTIN	0.86
	BEAUMONT	0.85
	BRAZORIA	0.84
	BROWNSVILLE	0.83
	BRYAN	0.87
	COLLEGE STATION	0.87
	CORPUS CHRISTI	0.84
	DALLAS	0.84
	DENISON	0.85
	EDINBURG	0.84
	EL PASO	0.83
	FORT WORTH	0.82
	GALVESTON	0.84
	HARLINGEN	0.83
	HOUSTON	0.86
	KILLEEN	0.81
	LAREDO	0.84
	LONGVIEW	0.84
	LUBBOCK	0.85
	MARSHALL	0.81
	MCALLEN	0.84
	MIDLAND	0.84
	MISSION	0.84
	ODESSA	0.84
	OTHER	0.84

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State	Metropolitan Area	Multiplier
TX	PORT ARTHUR	0.85
	SAN ANGELO	0.83
	SAN ANTONIO	0.88
	SAN BENITO	0.83
	SAN MARCOS	0.85
	SHERMAN	0.85
	TEMPLE	0.81
	TEXARKANA	0.83
	TEXAS CITY	0.84
	TYLER	0.82
	VICTORIA	0.84
	WACO	0.84
	WICHITA FALLS	0.85
UT	LOGAN	0.86
	OGDEN	0.86
	OREM	0.85
	OTHER	0.86
	PROVO	0.85
	SALT LAKE CITY	0.87
VA	ALEXANDRIA	0.85
	ARLINGTON	0.85
	CHARLOTTESVILLE	0.85
	LYNCHBURG	0.84
	NEWPORT NEWS	0.86
	NORFOLK	0.85
	OTHER	0.85
	PETERSBURG	0.85
	RICHMOND	0.85
	ROANOKE	0.84
	VIRGINIA BEACH	0.85
VT	BARRE	0.83
	BRATTLEBORO	0.83
	BURLINGTON	0.83
	NEWPORT	0.83
	OTHER	0.83
	RUTLAND	0.83
	SPRINGFIELD	0.83
	ST. ALBANS	0.83
	ST. JOHNSBURY	0.83

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State	Metropolitan Area	Multiplier
WA	BELLEVUE	1.15
	BELLINGHAM	1.09
	BREMERTON	1.11
	EVERETT	1.13
	KENNEWICK	0.97
	OLYMPIA	1.12
	OTHER	1.06
	PASCO	0.97
	RICHLAND	0.97
	SEATTLE	1.15
	SPOKANE	0.92
	TACOMA	1.14
	VANCOUVER	1.06
	YAKIMA	0.98
WI	APPLETON	1.03
	BELOIT	1.05
	EAU CLAIRE	1.03
	FOND DU LAC	1.05
	GREEN BAY	1.03
	JANESVILLE	1.05
	KENOSHA	1.06
	LA CROSSE	1.03
	MADISON	1.05
	MILWAUKEE	1.08
	NEENAH	1.03
	OSHKOSH	1.03
	OTHER	1.05
	RACINE	1.06
	SHEBOYGAN	1.03
	SUPERIOR	1.05
	WAUKESHA	1.08
	WAUSAU	1.03

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State	Metropolitan Area	Multiplier
WV	BECKLEY	0.97
	CHARLESTON	0.98
	CLARKSBURG	0.97
	HUNTINGTON	0.99
	MORGANTOWN	0.97
	OTHER	0.97
	PARKERSBURG	0.98
	WHEELING	0.94
WY	CASPER	0.86
	CHEYENNE	0.86
	LARAMIE	0.86
	OTHER	0.86
	ROCK SPRINGS	0.86
	SHERIDAN	0.86

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- A -

A-BAND HANGER 226
ABOVE GROUND TANK 290
ABRASIVE SURFACE TILE 203 - 204
ABS PIPE 248, 288
ACCESS STAIR 218
ACCESSORY REINFORCING 152
ACID-PROOF COUNTER 221
ACOUSTICAL BLOCK 161
  PANEL 204
  TILE 204
ACRYLIC CARPET 207
AD PLYWOOD 180
ADAPTER CUBICLE 272
  TERMINAL 271
ADHESIVE 168
ADHESIVE-BED TILE 203
ADJUSTABLE BAR HANGER 264
  SHELF 179
ADMIXTURE 154
AIR COMPRESSOR 143
  CONDENSER 256
  CONDITIONING 256
  ENTRAINING AGENT 154
  TOOL 143
ALL THREAD ROD 260
ALLOWANCES 141
ALUMINUM CONDUIT 264, 267
  DOOR 193
  DOWNSPOUT 189
  FLASHING 188
  GUTTER 189
  LOUVER 197
  POLE 290
  RAILING 167
  ROOF 187
  SHINGLE 185
  SIDING PANEL 186
  THRESHOLD 196
  WINDOW 193
AMBIENT DAMPER 256
ANCHOR 164
  BOLT 164
  BRICK 159
  DOVETAIL 159
  RAFTER 168
  SLOT 159
  WOOD 168
ANGLE STEEL 162
  VALVE 225
ANTI-SIPHON BREAKER 246
APRON 177
ARCHITECTURAL FEE 141
ASPHALT DAMPPROOFING 182
  EXPANSION JOINT 151
  ROOF 187
  SHINGLE 184
  SURFACE 282
ASPHALTIC PAINT 182
ATTIC INSULATION 184
AWNING WINDOW 195

- B -

BACK MOUNTED TILE 203
  SPLASH 179
BACKFILL 277, 279
  HAND 279
BACKFLOW PREVENTER 246
BACKHOE 144
BACKHOE/LOADER 144
BACK-UP BLOCK 161
  BRICK 160
BALANCING VALVE 225
BALL VALVE 225
BALUSTER 178
BANK RUN GRAVEL 277
BAR HANGER 264
  REINFORCING 158
BARE STRANDED WIRE 258
BARRICADE 145
BARRIER VAPOR 152, 184
BASE CABINET 180, 220
  COLONIAL 177
  COLUMN 168
  COURSE 277
  FLASHING 188
  GROUTING 156
  MANHOLE 289
  TERRAZZO 206
BASEBOARD HEATER 256
  RADIATION 256
BATCH DISPOSAL 252
BATH 252
  ACCESSORY 216
  FAUCET 253
BATHROOM LOCK 196
BATT INSULATION 183
BATTEN SIDING 186
BEAD MOLDING 178
  PARTING 178
  PLASTER 200, 202
  SASH 178
BEAM 164
  BOLSTER 152
  BOND 158, 162
  CHAIR 152
  CONCRETE 154
  FORMWORK 150
  FURRING 164, 199
  GRADE 155
  HANGER 168
  PLASTER 200
  REINFORCING 152 - 153
  SHEETROCK 201
BENTONITE MEMBRANE 182
BEVELED SIDING 186
BIBB HOSE 253
BI-FOLD DOOR 192
BINDER COURSE 282
BI-PASSING DOOR 192
BIRCH DOOR 190
  PANELING 180
  VENEER 180
BITUMINOUS DAMPPROOFING 182
  MEMBRANE 182
  SIDEWALK 282
BLACK IRON FITTING 244
  STEEL 244
BLIND 220
BLOCK CONCRETE 155, 160
  DAMPPROOFING 182
  DEMOLITION 148
  GLASS 162
  GRANITE 282
  GROUT 158
  REMOVAL 148
  SPLASH 156
  VENT 197
BLOCKING WOOD 169
BLOWN-IN INSULATION 184
BLUESTONE 282
BOARD INSULATION 182
  RAFTER 173
  RIDGE 172
  SIDING 186
  SUB-FLOORING 176
BOILER 255
BOLSTER SLAB 152
BOLT CARRIAGE 168
  WOOD 168
BOLTED STEEL 164
BOND BEAM 158, 162
BONDERIZED FLAGPOLE 216
BOOKKEEPER 142
BORING 147
BORROW 277
BOTTOM BEAM 150
  PLATE 174
BOUNDARIES 142
BOX DEVICE 263
  ELECTRIC 261
  JUNCTION 263
  PLASTIC 264
  WEATHERPROOF 263
BRACKET BOX 264
BRASS FITTING 235 - 237, 239 - 240
BREAKER CIRCUIT 272
  VACUUM 246
BRICK ANCHOR 159
  CHIMNEY 160
  MANHOLE 289
  MASONRY 160
  PAVER 282
BRIDGING 168
BRONZE RAILING 167
BROOM FINISH 155
BRUSH CUTTING 277
BUCKET TRAP 250
BUFF BRICK 160
BUILDING DEMOLITION 148
  EXCAVATION 278
  METAL 222
  PAPER 182
BUILT-IN OVEN 218
BUILT-UP ROOF 187
BULK EXCAVATION 278
BULKHEAD FORMWORK 151
BULLDOZER 144
BURLAP CONCRETE 156
  RUB 156
BUS DUCT 272
BUSHING BRASS 237
  CONDUIT 268
  FLUSH COPPER 231
BUTT HINGE 195
BX CABLE 258
  CLAMP 264

- C -

C CONDULET 266
CABINET BASE 180
  HARDWARE 221
  KITCHEN 220
CABLE BX 258
  CONTROL 259
  SER 259
  SEU 259
  THHN-THWN 258
CANT STRIP 173, 187
CAP BLACK IRON 245
  BRASS 237
  CONDUIT 268
  COPPER 231, 235
  ENTRANCE 266
  PILE 150, 155
  PILE REINFORCING 154
  PVC 242 - 244
  STEEL 245
CARPENTRY ROUGH 169
CARPET 207
  CLEAN 207
  PADDING 207
  TILE 207
CARRIAGE BOLT 168
CARRIER CHANNEL 204
CARVED DOOR 192
CASED BORING 147
CASEMENT WINDOW 194
CASEWORK 220
CASING 177
  BEAD 202
  RANCH 177
  TRIM 178

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CAST ALUMINUM BOX 262
BOX 261
IRON BOILER 255
IRON FITTING 245
IRON PIPE 246 - 247
IRON STRAINER 254
CAULKING 189
CAVITY WALL 158, 160
WALL ANCHOR 159
CDX 175
CEDAR CLOSET 180
DECKING 175
SHINGLE 185
SIDING 186 - 187
CEILING AND WALL 204
BLOCKING 169
DIFFUSER 254
FRAMING 169
FURRING 171, 199
GRILLE 255
HEATER 218
INSULATION 183
JOIST 169
LATH 199
REMOVAL 148
CEMENT KEENES 200
PLASTER 200
CENTER BULB 152
CERAMIC TILE 202
CHAIN LINK 147, 282
CHAIR RAIL 177
REINFORCING 152
CHAMFER STRIP 151
CHANNEL FURRING 164, 199
STRAP 260
CHECK VALVE 225
CHERRY VENEER 180
CHESTNUT VENEER 180
CHIMNEY BRICK 160
FLUE 163
MASONRY 163
CHROME PLATED FITTING 241
CIRCUIT BREAKER 272 - 273
CLAMP BEAM 260
GROUND ROD 260
ROD BEAM 260
TYPE CAP 269
CLAY BRICK FLOOR 205
PIPE 288 - 289
CLEANING MASONRY 158
CLEANOUT 250
CLEARING 277
TREE 277
CLEFT NATURAL 282
CLOCK RECEPTACLE 272
CLOSER 196
CLOSET CEDAR 180
DOOR 192
FLANGE 235
POLE 177
CLOTH FACED FIBERGLASS 204
CLOTHES DRYER 218
CMU 160
GROUT 158
COLONIAL BASE 177
MOLDING 178
COLOR GROUP TILE 203
COLUMN 164
BASE 168
CONCRETE 154
COVER 193
FORMWORK 150
FURRING 164
PIER 151
PLASTER 200
REINFORCING 153
SHEETROCK 201
TIMBER 174
WOOD 180
COMBINATION SWITCH 273
COMMERCIAL CARPET 207
COMMON BRICK 160
COMPACT BASE 279
BORROW 277
FLUORESCENT 275
COMPACTOR RESIDENTIAL 218
COMPRESSION COUPLING 265
FITTING 239, 265
COMPRESSOR 143
CONCEALED Z BAR 204
CONCRETE ACCESSORY 151
ADMIXTURE 154
BLOCK REMOVAL 148
CUTTING 148
FILLED PILE 281
FINISH 155
MANHOLE 289
MASONRY UNIT 160
PAVING 282
PILING 281
PLACEMENT 154
POLE 290
PUMP 154
RECEPTOR 216
REINFORCEMENT 152
SLEEPER 173
TESTING 142
WATERPROOFING 182
CONDENSING UNIT 256
CONDUCTIVE FLOOR 205 - 206
CONDUCTOR ALUMINUM 259
COPPER 258
STRANDED 258
CONDUIT ALUMINUM 264, 267
BODY 271
BUSHING 268
CAP 268
EMT 265
FLEXIBLE 266
GALVANIZED 267
LOCKNUT 268
PENETRATION 260
PLASTIC COATE 270
PVC 270
SPECIALTY 260
STEEL 266
CONDULET 266
COVER 266, 269
GASKET 269
LB 269
CONNECTOR COMPRESSION 265
DIE CAST 265
SET SCREW 265
CONSTRUCTION AID 142
CONTINUOUS DISPOSAL 252
FOOTING 155
HIGH CHAIR 152
CONTROL JOINT 160
COPING PRECAST 156
COPPER CONDUCTOR 258
DOWNSPOUT 188
FITTING 228
FLASHING 188
HANGER 226
PIPE 227
PIPE FITTING 235
WIRE HOOK 227
CORD ELECTRIC 259
SET 273
CORE DRILLING 156
CORED PLUG 237
CORING CONCRETE 156
CORK WALL COVERING 208
CORNER BEAD 200, 202
CABINET 220
GUARD 208
POST 282
CORNICE MOLDING 179
CORRUGATED DOWNSPOUT 188
METAL PIPE 289
PANEL 186
ROOF 187 - 188
COUNTER FLASHING 188
LAVATORY 251
COUNTERSUNK PLUG 238
COUNTERTOP 179, 221
COUNTER-TOP RANGE 218
COUPLING BLACK IRON 245
BRASS 237
COMPRESSION 265
COPPER 235
EMT 265
ERICKSON 268
NO-HUB 246
PLASTIC 287
PVC 242 - 244
SET SCREW 265
SPLIT 267
STEEL 245
THREADED 268
THREADLESS 268
WITH STOP 228
COURSE BINDER 282
COVE BASE 205
BASE TILE 203
MOLDING 177
COVER CONDULET 266, 269
CPVC FITTING 244
PIPE 241, 244
CRACK PATCH 200
CRANE 144
CRAWL SPACE INSULATION 183
CRAWLER CRANE 144
CREOSOTE 168
CREOSOTED POLE 290
CREW TRAILER 145
CROSS NO-HUB 246
CROWN MOLDING 177
CRUSHER RUN 277
CURB & GUTTER 147
FORMWORK 150
TERRAZZO 206
CURING CONCRETE 156
PAPER 156
CURTAIN WALL 193
CURVED CURB FORM 150
STAIR TERRAZZO 207
CUSTOM DOOR 192
CUT TREE 277
CUT-OUT COUNTERTOP 179
CYLINDER PILING 281

- D -

DAMPER 254
DAMPPROOFING 182
DANDY CLEANOUT 234
DARBY 155
DECK FRAMING 175
PAINT 210
DECKING WOOD 175
DESANCO FITTING COPPER 234
DEVICE COVER 263
DIECAST SET SCREW 265
DIFFUSER 254
DIMMER SWITCH 273
DISAPPEARING STAIR 218
DISH SOAP 203
DISHWASHER RESIDENTIAL 218
DISPENSER TISSUE 216
DISPOSAL KITCHEN 252
RESIDENTIAL 218
DIVIDER STRIP TERRAZZO 206
DOMESTIC WELL 288
DOOR ALUMINUM 193
CLOSER 196
FLUSH 192

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DOOR FRAME 190, 192
FRAME GROUT 158
HEADER 174
HOLDER 196
PAINT 208
REMOVAL 148
SHOWER 216
SLIDING GLASS 192
SOLID CORE 190
TRIM 196
DOUBLE HUNG WINDOW 194
WALLED TANK 290
WYE NO-HUB 248
DOUGLAS FIR 174
DOVETAIL ANCHOR SLOT 159
DOWEL REINFORCING 153
DOWNSPOUT 188
ALUMINUM 189
DOZER EXCAVATION 278
DRAIN 250
FIELD 288
TILE 289
DRAINAGE FIELD 288
PIPE 288
UNDERSLAB 289
DRAPERY TRACK 220
DRAWER BASE 220
DRILLED WELL 288
DRILLING ROCK 147
DRIVING STUD 260
DROP EAR ELL 231
DROPCLOTHS 208
DRUM TRAP 235
DRY STONE WALL 162
DRYER CLOTHES 218
RECEPTACLE 272
DRYWALL REMOVAL 148
DUCT BUS 272
INSULATION 254
DUCTILE IRON PIPE 287
DUCTWORK METAL 254
DUMBELL JOINT 152
DUMP TRUCK 143
DUMPSTER 148
DWV COPPER 227
FITTING COPPER 232
PIPE ABS 248

- E -

EDGE FORM 151
ELASTIC SHEET ROOF 187
ELASTOMERIC FLASHING 160
ELBOW ABS 288
CAST IRON 287
PLASTIC 287
PVC 242
ELECTRIC BOILER 255
FURNACE 255
HEATING 256
ELEVATED SLAB CONCRETE 154
SLAB REINFORCING 153
EMT CONDUIT 265
ENAMEL PAINT 208 - 209
END CLEANOUT 235
ENGINEERING FEE 141
ENTRANCE CAP 266, 269
FITTING 268
ENTRY LOCK 196
EQUIPMENT 143
MOBILIZATION 143
PAD 154
PAD FORMWORK 150
PAD REINFORCING 153
ERICKSON COUPLING 268
ESTABROOK TY 235
EXHAUST FAN 254
EXPANDED LATH 199
EXPANSION JOINT 151, 200
EXPOSED AGGREGATE 282
EXT. PAINTING MISC. 212
EXTENSION BOX 263
EXTERIOR DOOR 192
TILE 203

- F -

FABRIC CHAIN LINK 283
FACTORY FINISH FLOOR 205
FAN EXHAUST 254
FASCIA BOARD 173
PLASTER 200
FASTENER INSULATION 184
FAUCET 252 - 253
FEE PROFESSIONAL 141
FELT CONTROL JOINT 152
FEMALE ADAPTER COPPER 229, 234
ADAPTER PVC 242 - 244
CONNECTOR 239
DROP EAR ELL 231
FLANGED ELL 231
FLUSH BUSHING 231
FENCE 147, 282
PAINT 209
REUSE 147
FERTILIZING 283
FIBER CANT 173
FORM CONCRETE 150
PANEL 204
FIBERBOARD SHEATHING 176
FIBERGLASS INSULATION 183
PANEL 204
TANK 290
FIBROUS DAMPPROOFING 182
FIELD STAFF 141
FILL BORROW 277
CAP 290
FILLED BLOCK 155, 161
FILLER JOINT 160
PAINT 208
FILTER BARRIER 280
FINISH PLASTER 200
SHOTCRETE 156
FINISHING SHEETROCK 202
FINK TRUSS 176
FIR DECKING 175
FLOOR 205
SIDING 187
FIRE RETARDANT 169
RETARDENT ROOF 186
FITTING CPVC 244
NO-HUB 246, 248
PVC 243
REDUCER COPPER 234
FIXED WINDOW 193
FIXTURE PLUMBING 252
SQUARE 275
FLAGPOLE 216
FLANGE PVC 242 - 244
FLARE FITTING BRASS 239
FLASHING 187 - 188
MASONRY 160
FLAT APRON 177
CONDUIT CABLE 272
RIB 199
WASHER 260
FLEXIBLE CONDUIT 266 - 267
CORD 259
DUCTWORK 254
FLOAT 156
TRAP 250
FLOOR CLEANOUT 250
DRAIN 250
FINISH 155
FINISHING 205
GYM 205
INDUSTRIAL WOOD 205
FLOOR JOIST 170
MASONRY 205
SAFE 218
SHEATHING 175 - 176
TERRAZZO 206
TILE 202 - 203
FLUE LINER 163
FLUID APPLIED FLOOR 205
FLUORESCENT FIXTURE 274 - 275
FLUSH BUSHING COPPER 231
DOOR 190, 192
FLUTED STEEL CASING 281
FOAM POLYETHYLENE 151
FOAMGLASS CANT 187
FOIL BACKED INSULATION 183
FOLDING STAIR 218
FOOTING CONCRETE 155
EXCAVATION 279
FORMWORK 150
REINFORCING 153
FOREMAN 141
FORMICA 179
FOUNDATION BACKFILL 277 - 278
BLOCK 161
REINFORCING 153
VENT 158
FRAME COVER 289
DOOR 192
FRAMING ANCHOR 168
CEILING 169
DOOR 174
FLOOR 170
ROOF 171
TIMBER 174
WALL 173
WINDOW 174
FRICTION PILING 281
FRONT-END LOADER 278
FS BOX 261
FSA BOX 261
FSC BOX 261
FSCA BOX 262
FSCD BOX 262
FSL BOX 261
FSR BOX 262
FURNACE 255
FURRING CEILING 199
CHANNEL 164
STEEL 199
WOOD 171
FUSE 273
FUSIBLE SWITCH 272

- G -

GABLE LOUVER 197
TRUSS 177
GABLE-END RAFTER 171
GALVANIZED ACCESSORY 152
CONDUIT 267
DUCTWORK 254
MESH 153
RAILING 166
SHINGLE 185
STEEL PIPE 245
WALL TIE 159
GAS FURNACE 256
PIPING REMOVAL 147
GASKET CONDULET 269
GATE POST 282
SWING 283
VALVE 225
GENERATOR 143
GFI BREAKER 273
GIRDER 164
GLASS 196
BEAD 178
BLOCK 162
CLOTH TILE 204
GLASS DOOR 192

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FRAMING 193
GLAZED BRICK 160
FLOOR 205
WALL TILE 202
GLOBE VALVE 225
GRAB BAR 216
GRADALL 279
GRADE BEAM CONCRETE 155
BEAM FORMWORK 150
BEAM REINFORCING 153
GRANITE BLOCK 282
VENEER 163
GRASS CLOTH 208
GRAVEL 277
MULCH 286
ROOF 187
GRAY SPONGE 152
GRILLE VENTILATION 255
GROUND FAULT 273
ROD 259
SLAB 151
STRAP 264
GROUNDING 259
LOCKNUT 270
GROUT 156
BEAM 158
BLOCK 155, 158, 161
MASONRY 158
WALL 158
GRS CONDUIT 267
GRUBBING 277
GUARDRAIL REMOVAL 147
GUNITE 156
GUTTER 188 - 189
COPPER 189
REMOVAL 147
STEEL 189
GYM FLOOR 205
GYPSUM BOARD 201
LATH 199
PLASTER 200
SHEATHING 176

- H -

HALF ROUND GUTTER 189
ROUND MOLDING 178
HAND BUGGY 154
EXCAVATION 278, 280
LOADING 277
SEEDING 284
SPLIT SHAKE 185
SPREADING 284
HANDICAPPED PLUMBING 253
HANDLING AIR 256
RUBBISH 148
HANDY BOX 263
HANGER CHANNEL 260
JOIST 168
ROD 260
HARDBOARD DOOR 191
UNDERLAYMENT 176
HARDWARE CABINET 221
HARDWOOD TRIM 179
HAULING MATERIAL 279
RUBBISH 148
HEADER 174
CEILING 170
HEATER 143
ELECTRIC 218, 256
UNIT 256
WATER 250
HEAVY DUTY DOOR 190
DUTY TERRAZZO 206
TIMBER 174
HERRINGBONE FLOOR 205
HEX BUSHING 237
TRAP COPPER 234
HIGH CHAIR REINFORCING 152
HINGE 195
HIP RAFTER 172
HOLE CLIP 226
CONDUIT 260
PLASTER 200
HOLLOW BLOCK 160
COLUMN 180
CORE DOOR 191
METAL DOOR 190
METAL FRAME 190
HOOD RANGE 218
HORIZONTAL DAMPER 254
REINFORCING 154, 158
SIDING 187
WINDOW 194
HOSE BIBB 253
HOT WATER DISPENSER 252
WATER STORAGE TAN 246
H-SECTION PILE 281
HYDRANT 224
REMOVAL 147
HYDRAULIC EXCAVATOR 278 - 279

- I -

ICE MAKER 218
SHIELD 185
IMC CONDUIT 271
INCANDESCENT FIXTURE 274
INCREASING FEMALE ADA 229
MALE ADAPT 229
INDUSTRIAL WOOD FLOOR 205
INSULATED BLOCK 161
GLASS DOOR 193
SIDING 187
THROAT 265 - 266
INSULATION BLOWN-IN 184
DUCT 254
FASTENERS 184
MASONRY 184
SPRAYED 184
INTERIOR PAINTING 213
INTERMEDIATE CONDUIT 271
IRREGULAR STONE 282
IRRIGATION LAWN 283
ISOLATOR VIBRATION 227

- J -

JACK RAFTER 172
JALOUSIE WINDOW 193
JOB BUILT FORM 150
REQUIREMENTS 142
TRAILER 145
JOINT CLIP 200
EXPANSION 151
FILLER 160
REINFORCING 158
JOIST BRIDGING 168
FLOOR 170
HANGER 168
SISTER 170
JUMBO BRICK 160
JUNCTION BOX 263
JUTE PADDING 207

- K -

K COPPER 227
TUBE 228
KEENES CEMENT 200
KEYWAY FORM 151
KILN DRIED 169
KING POST TRUSS 177
KITCHEN CABINET 180, 220
FAUCET 253
SINK 251
KNOTTY PINE 180

- L -

L TUBE 228
LADDER REINFORCING 158
LAMINATED PLASTIC 179
RAILING 167
LANDING TERRAZZO 207
LANDSCAPE ACCESSORY 285
TIMBER 286
LATCHSET 195
LATEX PAINT 208 - 209
LATH EXPANDED 199
STUCCO 199
LATTICE MOLDING 178
LAUAN DOOR 191
VENEER 180
LAVATORY 251
LAWN IRRIGATION 283
LB CONDULET 266, 269
LEACHING PIT 288
LEAD COATED COPPER 189
LEVEL GAUGE 226
INDICATOR 290
LIFT SCISSOR 144
LIGHT GAGE FRAMING 165
STEEL 164
TRACK 274
LIGHTING 274
LIGHTNING PROTECTION 274
LIGHTWEIGHT BLOCK 161
LIMESTONE AGGREGATE 282
LIMING 283
LINE POST 283
LINER FLUE 163
LINTEL MASONRY 162
STEEL 162
LIQUID LEVEL GAUGE 226
LL CONDULET 266
LOAD BEARING STUD 198
CENTER BREAKER 273
CENTER INDOOR 271
LOADER 144
LOCKNUT BRASS 238
CONDUIT 268
GROUNDING 270
LOCKSET 195
LOCKWASHER 260
LONG FORGED NUT 240
SWEEP ABS 249
TURN TEE 233
LOOSE FILL INSULATION 184
LOT LINES 142
LOUVER DOOR 192
LR CONDULET 266

- M -

M TUBE 228
MAHOGANY VENEER 180
MAINTENANCE EQUIPMENT 218
MALE ADAPTER COPPER 229, 234
ADAPTER PVC 242 - 244
CONNECTOR 239
MALLEABLE IRON 244
STRAP 265, 269
MANHOFF ADAPTER COPPER 234
MANHOLE 289
MAPLE FLOOR 205
MARBLE CHIP 286
MASKING TAPE 208
MASONRY ACCESSORY 158
CHIMNEY 160, 163
CLEANING 158
CONTROL JOINT 160
DEMOLITION 148
FENCE 147
FLASHING 160
FLOOR 205
FURRING 171
MASONRY GLASS 162

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GROUT 158
INSULATION 184
PLASTER 182
REINFORCING 154
SLATE 163
STONE 162
WATERPROOFING 182
MAT CONCRETE 155
FORMWORK 150
REINFORCING 153
MECHANICAL FEE 141
JOINT PIPE 287
SEEDING 284
MEDICINE CABINET 216
MEMBRANE CURING 156
WATERPROOFING 182
MESH SLAB 153
TIE 160
WIRE 282
METAL BASE 200
BUILDING 222
CLAD CABLE 258
DOOR 190
DOOR FRAME 190
DUCTWORK 254
FENCE 282
FLASHING 187
FRAMING 164
LATH 199
LINTEL 162, 164
POLE 290
RAILING 166 - 167
SHINGLE 185
SIDING PANEL 186
STUD 165 - 166, 198
WINDOW REMOVAL 148
METALLIC COLOR TILE 203
METERING 272
MICROWAVE 218
MILL FRAMED STRUCTURE 174
MILLED WINDOW 195
MILLWORK 179
MINERAL FIBER PANEL 204
FIBER TILE 204
WOOL 184
WOOL INSULATION 183
MIRROR 216
PLATE 197
MISCELLANEOUS FORMWORK 151
MIXING VALVE 226
MOBILIZATION 143
MOLDING 177
MONOLITHIC TERRAZZO 206
MOP SINK 251
MORTISE LOCKSET 195
MOSAIC TILE 203
MOSS PEAT 286
MOUNTING BRACKET HEAT 257
MOVING SHRUB 283
TREE 283
MULCH 286

- N -

NAILER CEILING 170
NARROW STILE DOOR 193
NATURAL CLEFT SLATE 282
NEOPRENE FLASHING 187 - 188
MEMBRANE 182
ROOF 187
NIPPLE BLACK IRON 245
STEEL 245
NM CABLE 258
NO-HUB ADAPTER COPPER 234
PIPE 246 - 248
NON-DRILLING ANCHOR 164
NON-METALLIC GROUT 156
NON-SLIP TERRAZZO 206
NORMAN BRICK 160
NUT HEX 260
NYLON CARPET 207

- O -

OAK DOOR 192
FLOOR 205
VENEER 180
OFFICE TRAILER 145
OFFSET CONNECTOR 265
OGEE MOLDING 178
OIL FIRED BOILER 255
FURNACE 256
TANK 289
ONE-HOLE STRAP 269
ORGANIC BED TILE 203
ORNAMENTAL METAL 167
OVERHEAD 141
OVERSIZED BRICK 160

- P -

PACKAGED HEATER 256
PAD EQUIPMENT 150, 154
REINFORCING 153
PADDING CARPET 207
PAINT 208
ACOUSTICAL CEILING 213
ASPHALTIC 182
CEILING 214
CHAIN LINK 209
CONC BLOCK 209
DOOR 210
DOORS 208
FENCE 209
GUTTER 211
INTERIOR 213
LOUVRE 213
SHUTTER 213
TRIM 208, 212, 215
WALL 212, 215
WALLS 208
WINDOW 212
WINDOWS 208
PAINTING PREPARATION 208
SITEWORK 209
PALM TREE 283
PANEL ACOUSTICAL 204
SIDING 186
WORK 180
PANELBOARD 271
PANIC DEVICE 196
PAPER BACKED INSULATION 183
BACKED LATHE 199
BUILDING 182
CURING 156
PARALLEL DAMPER 254
PARGING 182
PARQUET FLOOR 205
PARTING BEAD 178
PARTITION REMOVAL 148
PATCH HOLE 200
PATIO BLOCK 282
PAVEMENT CUTTING 148
DEMOLITION 147
REMOVAL 147
PAVER GRANITE 282
MASONRY 282
STONE 282
PAVING CONCRETE 282
PEA GRAVEL 277
PEAT MOSS 286
PECAN VENEER 180
PEDESTRIAN BARRICADE 145
PEGBOARD 180
PENNSYLVANIA SLATE 185
PERFORATED CLAY PIPE 289
PVC PIPE 288
STRAP 227
PERLITE INSULATION 184
ROOF INSULATION 182
PERSONNEL LIFT 223
PEST CONTROL 217
PHOTOGRAPHS 142
PICKUP TRUCK 143
PICTURE WINDOW 194
PILASTER 151
PILE CAP CONCRETE 155
CAP FORMWORK 150
CAP REINFORCING 154
PINE DECKING 175
DOOR 192
RISER 180
SIDING 187
PIPE CAP 268
CLAY 288
COLUMN 164
COPPER 227
CPVC 244
FLASHING 187
GALVANIZED 245
HANGER 226
NO-HUB 246 - 247
PILE 281
PILE POINT 281
PVC 243
RAILING 166
REMOVAL 147
PLACEMENT SLAB 154
PLANT 284
BED PREPARATION 284
PLASTER 200
ACCESSORY 200
MASONRY 182
PATCH 200
RING 264
PLASTIC COATED CONDUIT 270
CONDUIT 270
CONDUIT BUSHING 268
FILTER FABRIC 289
PIPE 287
SHEET 182
SIDING 187
SKYLIGHT 195
SQUARE BOX 264
PLATE 174
GLASS 196
MIRROR 197
SHEAR 168
SWITCH 273
PLEXIGLASS 196
PLUG CAST IRON 245
CONDUIT 263
NO-HUB 248
PLYWOOD 175
FINISH 179
SHEATHING 176
SHELVING 179
SIDING 187
STRUCTURAL 176
UNDERLAYMENT 176
PNEUMATIC CONCRETE 156
TOOL 143
POLE CLOSET 177
UTILITY 290
POLYETHYLENE VAPOR BARRIER 184
POLYSTYRENE INSULATION 183 - 184
POLYURETHANE FLOOR 205
PORCELAIN SHINGLE 185
SINK 251
POROUS CONCRETE PIPE 289
FILL 152
PORTLAND CEMENT GROUT 156
CEMENT PLASTER 200
POSTS TREATED 175
POURED INSULATION 184
VERMICULITE 184

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PRECAST LINTEL 162
MANHOLE 289
SEPTIC TANK 288
SPECIALTY 156
TERRAZZO 206
PRE-ENGINEERED BUILDING 222
PREFINISHED SHELVING 179
PREMOLDED JOINT 151
PRESSURE REDUCING VALVE 226
TREATED 175
PRESTRESSED PILING 281
PRIMED DOOR 192
SIDING 186
PRIMER PAINT 209
PROFESSIONAL FEE 141
PROFIT 141
PROJECTING WINDOW 194
PT LUMBER 175
P-TRAP 235
ABS 249
NO-HUB 246, 248
PULL BOX 263
PUMP 143
PUMPED CONCRETE 154 - 155
PUTTYING 208
PVC CEMENT 271
CHAMFER STRIP 151
COATED HANGER 227
CONDUIT 270
FITTING 243
FOAM 152
PIPE 243, 287 - 289
ROOF 187
SEWER PIPE 288
WATERSTOP 152
PVC/CPVC PIPE 241

- Q -

QUARRY TILE 203
QUARTER ROUND 178

- R -

RACEWAY 261
RADIATION UNIT 256
RAFTER 171
ANCHOR 168
HIP 172
RAIL CHAIR 177
RAILING 166, 178
METAL 167
RANCH CASING 177
MOLDING 178
RANDOM WIDTH FLOOR 205
RANGE ELECTRIC 218
HOOD 218
RECEPTOR SHOWER 216, 252
RECESSED LIGHT FIXTURE 204
RECREATIONAL COURTS 219
RECTANGULAR BOX 262
WALL TIE 159
RED BRICK 160
LEAD PAINT 209
NIPPLE 238
REDUCER COPPER 229
NO-HUB 248
REDUCING COUPLING COP 228
ELL STEEL 245
FEMALE ADAPT 229
INSERT PVC 241, 243
MALE ADAPTER 230
TEE 245
REDWOOD SIDING 186 - 187
REFRACTORIES 163
REFRIGERATION TUBING 228
REFRIGERATOR 218
REGISTER 255
WALL 255
REINFORCING ACCESSORY 152
MASONRY 158, 161
RELIEF VALVE 225
REMOVE DRAINAGE PIPE 147
FENCING 147
GAS PIPING 147
SEPTIC TANK 149
SEWER PIPE 147
TOPSOIL 284
WATER PIPE 148
RESEED 284
RESET HYDRANT 147
RESIDENTIAL CARPET 207
DECK 181
EQUIPMENT 218
LOUVER 197
RESILIENT BASE 205
FLOOR 205
TILE FLOOR 206
RESTORATION 158
RETARDANT FIRE 169
RIB LATH 199
RIBBED BLOCK 161
SIDING 186
WATERSTOP 152
RIDGE BOARD 172
ROOF 188
RIGID STEEL CONDUIT 267
URETHANE INSULATION 182
RING SPLIT 168
TOOTHED 168
RIPRAP 280
RISER TERRAZZO 206
WOOD 180
ROADWAY EXCAVATION 279
ROCK DRILLING 147
ROCKWOOL INSULATION 184
ROD BEAM CLAMP 260
COUPLING 260
GROUND 259
HANGER 260
THREAD 260
TRAVERSE 220
ROLL ROOF 185, 188
ROLLING SCAFFOLD 142
ROOF ASPHALT 187
BUILT-UP 187
DRAIN 250
FRAMING 171
HIP 172
SHEATHING 176
SHINGLE 184
ROOFTOP AC / HEATER 256
ROSEWOOD VENEER 180
ROUGH-IN PLUMBING 252
ROUGH-SAWN SIDING 187
ROUND CAST BOX 261, 263
COLUMN 150
QUARTER 178
TRAP COPPER 234
RUBBISH REMOVAL 148
RUBBLE STONE 162

- S -

SALAMANDER 143
SALES TAX 141
SALT PRESERVATIVE 169
SAMPLE SOIL 147
SAND BED PAVER 282
BORROW 277
FINISH STUCCO 200
SANDING 208
SANITARY CROSS NO-HUB 246
PIPING REMOVAL 147
SEWER 288
T ABS 249
T COPPER 233
T NO-HUB 246
SASH BEAD 178
SAW CUTTING 148
SCAFFOLD ROLLING 142
SCAFFOLDING 142
SCHEDULE-40 PIPE 287
SCHEDULE-80 PIPE 288
SCISSOR LIFT 144
SCRATCH COAT 200
SCREED 155
SCREEN MOLDING 178
VENT 197
SEAL FITTING 268
SEDIMENT FENCE 280
SEEDING 284
SEH BOX 261
SEHC BOX 261
SEHL BOX 261
SEHX BOX 261
SELECT COMMON BRICK 160
SELF-DRILLING ANCHOR 164
SEPTIC TANK 288
TANK REMOVAL 149
SER CABLE 259
SERVICE SINK 251
SET RETARDER 154
SCREW 265
SCREW CONDULET 266
SCREW COUPLING 265
SEU CABLE 259
SFU CABLE 259
SHADES 220
SHAG CARPET 207
SHAKE ROOF 185
SHEAR PLATE 168
SHEATHING ROOF 176
WALL 176
SHEET FLASHING 188
FLOOR 205
GLASS 196
METAL ROOF 187
PLASTIC 182
SHEETROCK 201
FINISHING 202
SHELF 179
SHINGLE CEDAR 185
METAL 185
WOOD 185
SHOE MOLDING 178
SHORT FORGED NUT 240
SHOTCRETE 156
SHOWER 252
DOOR 216
FAUCET 253
STALL 216
SHRUB 284
MAINTENANCE 283
SIDE BEAM 150
SIDEWALK 282
REMOVAL 147
SIDING 186 - 187
STEEL 186
SIGN 145
SIGNALING SYSTEM 276
SILICONE DAMPPROOFING 182
SILL ANCHOR 168
MARBLE 162
SLATE 163
WINDOWWALL 193
SIMULATED PEG FLOOR 205
SINGLE-PLY ROOF 187
SINK 251
ELL 231
SISTER JOIST 170
RAFTER 173
SLAB BOLSTER 152
CONCRETE 154 - 155
FORMWORK 150
MESH 153
REINFORCING 153
SLATE 282
PANEL 163

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SHINGLE 185
SLEEPER 173
SLIDING GLASS DOOR 192
WINDOW 195
SLIP COUPLING COPPER 229, 232
FITTER 266
JOINT ADAPTER 234
JOINT COPPER 234
SLOT ANCHOR 159
SMOKESTACK MASONRY 163
SNAPPED PAVER 282
SOAP DISH 203, 216
DISPENSER 216
SOCIAL SECURITY 141
SOCKET METER 272
SOFFIT 173
TILE 203
SOFTENER WATER 218
SOIL BORING 147
STABILIZATION 280
TREATMENT 280
SOLAR SCREEN BLOCK 161
VALVE 226
SOLID ARMORED CABLE 258
BLOCK 161
CORE 191
DOOR 190
WALL 160
SOUND DEADENING BOARD 200
SPECIAL DOOR 192
SPIGOT ADAPTER COPPER 234
SPLASH BLOCK 156
SPLIT COUPLING 267
GROUND FACE 161
RIB PROFILE 161
RING 168
SPONGE NEOPRENE 151
RUBBER PADDING 207
SPRAYED INSULATION 184
SPREAD FOOTING 155
TOPSOIL 284
SPREADING TOPSOIL 284
SQUARE COLUMN 150
FACE BRACKET 264
FIXTURE 275
HEAD COCK 225
HEAD PLUG 237, 245
NUT 260
TUB 252
STAGING 142
STAINLESS COUNTER 221
FLASHING 188
GRAB BAR 216
RAILING 167
STAIR ACCESS 218
RAIL 166
TERRAZZO 206
TREAD 206
TREAD CERAMIC 203
STAIRWORK 180
STALL SHOWER 216
STANDING-SEAM ROOF 187
STARTER ROLLS 185
STEAM BOILER 255
CLEAN MASONRY 158
TRAP 250
STEEL ANGLE 162
CONDUIT 271
EDGING 285
GUTTER 189
LINTEL 164
PILE 281
PIPE 244 - 245
POLE 290
SHINGLE / SIDING PANEL 186
STRAP 270
STRUCTURAL 164
STEEL STUD 198
TANK 289
WELDING 164
STEP MANHOLE 289
STEPPING STONE 285
STONE 277
PAVER 282
STOOL MARBLE 162
MOLDING 178
SLATE 163
STOP MOLDING 178
STORAGE TANK 246, 289
STORM DOOR 193
WINDOW 194
STRAIGHT CURB FORM 150
STRAINER 254
STRANDED WIRE 258
STRAP CHANNEL 260
CONDUIT 270
MALLEABLE 265, 269
STEEL 265, 270
TIE 168
STRAW BALE 280
STREET ELL COPPER 230, 232
STRINGER TERRAZZO 207
STRIP CANT 173
CHAMFER 151
FLOORING 205
FLUORESCENT 275
SHINGLE 184
STRUCTURAL BACKFILL 277
EXCAVATION 278
PLYWOOD 176
STEEL 164
TUBE 164
WELDING 164
STUCCO 200
LATH 199
STUD CLIP 200
METAL 165, 198
REMOVAL 148
STUMP 277
STYROFOAM INSERT 161
SUB-BASE 277
SUB-FLOORING 175
SUBMERSIBLE PUMP 143
SUN SCREEN 156
SUPERINTENDENT 141
SURFACE COVER 264
MOUNTED CLOSE 196
SURVEYING 142
SUSPENDED CEILING 183
CEILING REM 148
SUSPENSION SYSTEM 204
SWING GATE 283
SWITCH BOX 263
DIMMER 273
FUSABLE 272
PLATE 273
SWIVEL HANGER BOX 264
JOINT 235
TRAP 235
SYNTHETIC TURF 284
SY-PINE DECKING 175
SIDING 187
TIMBER 174

- T -

T CONDULET 266, 269
T&G SIDING 186
TANDEM BOX 262
BREAKER 273
TAPERED FRICTION PILE 281
TAPPED T NO-HUB 246
TARPAULIN 142
TAX 141
T-BAR SYSTEM 204
TEAK VENEER 180
TEE ABS 248
BLACK IRON 245
BRASS 236, 239
COPPER 231, 235
PLASTIC 287
PVC 241, 243
STEEL 245
TEMPERED PEGBOARD 180
TEMPERING VALVE 226
TEMPORARY FACILITY 145
TERMINAL ADAPTERS 271
TERMITE CONTROL 217, 280
TERRAZZO 206
RECEPTOR 216
TEST CAP COPPER 231
PIT 147
T NO-HUB 246
TESTING 142
TEXTURE 1-11 187
THERMOSTAT 257
THERMOSTATIC VALVE 226
THHN-THWN CONDUCTOR 258
THIN-SET TERRAZZO 206
THREAD ROD 260
THREADED BOLT 168
COUPLING 268
ROD COUPLING 260
VALVE 225
THREADLESS COUPLING 268
THRESHOLD DOOR 196
MARBLE 162
THROAT INSULATED 265
THROUGH-WALL FLASHING 160
THWN CONDUCTOR 258
TIE MESH 160
STRAP 168
TILE ACOUSTICAL 204
BACKER 202
QUARRY 203
RESILIENT 206
TERRAZZO 206
TIMBER FRAMING 170, 174
LANDSCAPING 286
PILE 281
TIME CLOCK 273
TIMEKEEPER 142
TINTED GLASS 196
TISSUE DISPENSER 216
TOGGLE SWITCH 273
TOILET 250
TOOTHBRUSH HOLDER 216
TOOTHED RING 168
TOP PLATE 174
TOPDRESS SOIL 284
TOPSOIL 284
TOWEL BAR 216
BAR CERAMIC 203
TRACK LIGHTING 274
MOUNTED LOADER 278
TRAILER 145
TRAP 250
FLOAT 250
TRAVERSE ROD 220
TRAVERTINE FLOOR 206
TREAD WOOD 180
TREATED LUMBER 286
POLE 290
POST 175
TREE CUTTING 277
REMOVAL 277
SMALL 284
TYPE 285
TRELLIS PRECAST 156
TRENCHER 279
TRENCHING 279
TRIM ALUMINUM 188
CARPENTRY 177
CASING 177 - 179
PAINT 208, 212, 215

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TROWEL FINISH 200
FINISH STUCCO 200
TRUCK 143
CRANE 144
TRUSS REINFORCING 158
WOOD 176
TUB BATH 252
TUBE STRUCTURAL 164
TUMBLER HOLDER 216
SWITCH 263
TUMBLESTONE AGGREGATE 282
TURF 284
TWIN ELL COPPER 232
TWIST LOCK RECEPTACLE 272

- U -

UF CABLE 259
UNCASED BORING 147
UNDER SLAB SPRAYING 217
UNDERDRAIN 289
UNDERGROUND TANK 289
UNDERLAYMENT 176
UNDERSLAB DRAINAGE 289
UNEMPLOYMENT TAX 141
UNFACED INSULATION 183
UNGLAZED FLOOR 205
FLOOR TILE 202
WALL TILE 203
UNION BLACK IRON 245
BRASS 236
COPPER 231, 235
ELBOW BRASS 239
PVC 242 - 244
STEEL 245
UNIT HEATER 256
UNRATED DOOR 190
URETHANE INSULATION 182, 184
PADDING 207
UTILITY EXCAVATION 279
POLE 290

- V -

VACUUM BREAKER 246
CARPET 207
SYSTEM 218
VALLEY FLASHING 188
VALVE 225
VACUUM 218
VANITY BATH 221
VAPOR BARRIER 152, 182, 184, 254
VARNISH PAINT 209
VAULT 218
V-BEAM ROOF 188
VEGETATION CONTROL 283
VENEER 180
BRICK 160
GRANITE 163
VENETIAN BLIND 220
TERRAZZO 206
VENT CAP 290
FOUNDATION 158
MASONRY 197
VERMICULITE INSULATION 184
PLASTER 200
VERMONT SLATE 185
VERTICAL CHECK VALVE 225
GRAIN FLOOR 205
REINFORCING 154, 158, 161
VIBRATION CONTROL 227
VINYL COATED FENCE 283
FENCE 219
SHEET 205
SHEET FLOOR 205
SHEETROCK 201
SIDING 187
TILE 206
WALL COVERING 207
VITRIFIED CLAY PIPE 288

- W -

WAFERBOARD SHEATHING 176
WAINSCOT TERRAZZO 206
WALK 282
WALL BASE 205
BLOCKING 169
BRICK 160
CABINET 180, 220
CAVITY 158
CLEANOUT 250
CONCRETE 155
FABRIC 208
FINISH 156
FOOTING 150
FORMWORK 151
FRAMING 173
FURRING 164, 171
GRILLE 255
HEATER 218
HUNG SINK 251
HYDRANT 224
INSULATION 183
LATH 199
LOUVER 197
MASONRY REINFORCING 154
MOUNTED HEATER 256
PAINT 208
PENETRATION 227
PLASTER 200
REINFORCING 153
RETAINING 151
SHEATHING 176
SHEETROCK 201
STONE 162
TIE 159
TILE 202 - 203
WALNUT DOOR 192
VENEER 180
WARDROBE 221
WASHER FLAT 260
WASHING BRICK 158
MACHINE 218
MACHINE BOX 251
WASHROOM FAUCET 253
WATCHMAN 142
WATER CLOSET 250
PIPING REMOVAL 148
REDUCING ADMIXTURE 154
SHIELD 185
SOFTENER 218
VALVE 226
WATERPROOFING 182
WATERSTOP 152
WAX FLOOR 205
WEARING SURFACE 282
WEATHERHEAD 268
WEATHERPROOF BOX 262 - 263
COVER 263
WEATHERSTRIPPING 196
WEED CONTROL 283
WELDED RAILING 166
WELDING 164
WELL 288
WET BED TILE 202
WHEEL BARROW 280
WHITE CEDAR SHINGLE 185
WINDOW 193 - 195
FRAME 195
HEADER 174
PAINT 208
REMOVAL 148
SHADE 220
SILL 160
SILL CERAMIC 203
SILL MARBLE 162
STOOL MARBLE 162
TREATMENT 220
WINDOWWALL 193
WIRE HOOK HANGER 227
MESH 153, 282
MESH REMOVAL 147
STRANDED 258
WOOD ANCHOR 168
CANT 173, 187
CHIP MULCH 285
COLUMN 180
CUTTING 277
DECKING 175
DOOR REMOVAL 148
FENCE REMOVAL 147
FIBER PANEL 204
FLOORING 205
FRAME 192
HANDRAIL 167
INDUSTRIAL FLOOR 205
PILE 281
PLATE 174
POLE 290
RISER 180
SHAKE 185
SHELVING 179
SHINGLE 185
SIDING 186
SLEEPER 173
SOFFIT 173
STUD REMOVAL 148
TREATMENT 168
TRUSS 176
WALL 173
WINDOW 194
WINDOW REMOVAL 148
WOODWORK ARCHITECTURAL 180
WOOL CARPET 207
MINERAL 184
WYE ABS 249
NO-HUB 246

- X -

X CONDULET 269

- Z -

Z-TIE WALL 159

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