

Bills for 592 Dragstrip Road Fire Claim

Date	Contractor name	inv	Amount
9/28/2010	Michael Weeks	735	1000
10/5/2010	Michael Weeks	142	3260
10/5/2010	Johnston county ins	448715	220
10/12/2010	Michael Weeks	143	4775
10/14/2010	Michael Weeks	146	3700
10/22/2010	L&M Contacting	2021	33136.1
10/25/2010	Neuse Indoor Lumb	393	5917.29
10/26/2010	Michael Weeks	150	4150
11/1/2010	Michael Weeks	154	3470
11/7/2010	Robco		52000
11/5/2010	L&M Contacting	2001	33136.1
10/24/2013	RST	1221	22800
9/2/2013	Emergency Reconstruction		3037.28
10/19/2013	CK SUPPLY		73.45
11/16/2013	CK SUPPLY		1163.22
10/8/2013	Neuse Indoor Lumber		187.51
1/12/2012	LOWES		208.71
11/24/2010	LOWES		176.86
11/5/2013	L&M Contacting		28750
11/15/2010	Neuse Indoor Lumber		360.88
11/5/2013	Neuse Indoor Lumber		3478.53
9/3/2013	Michael Weeks	128	260
10/7/2010	LOWES		4479.36
8/25/2013	Michael Weeks	126	240
8/1/2013	Michael Weeks	114	5000
2/9/2011	CLIFTON OVERHE	4295	237
8/1/2010	RST	1050	435
8/1/2013	RST	1052	486
3/12/2011	ALLIED WASTE		4021.54
9/28/2013	Emergency Reconsi	735	1000
4/2/2013	Cobbs		1033.9
3/1/2013	Hobbs flooring		2985.26
	lambert		4537
4/1/2013	clean burn oil heater		4000
3/12/2012	johnston county tax		1779.76
			235495.8

Williams-Crocker and Associates

Appraisals and Land Research

P O Box 2305, 106 S. Third Street, Smithfield, NC 27577

919-989-9111, fax 919-989-6464

March 17, 2009

Mr. Roger D. Williams
6275 NC 50 Highway
Suite 112
Benson, NC 27504

Dear Mr. Williams;

At your request, I have inspected the home located at 592 Drag Strip Road, Benson, NC. This home is located on a +/-2.98 acre parcel of land that is associated with parcels that you own that are a part of the overall lands known as the Dunn Benson Dragstrip.

Per your request, this property was inspected from the exterior only and

This home is located on the north side of Drag Strip Road across from the drag strip itself. The home is an unusual structure to say the least, and it is understood that there is a varied history of use as an automotive repair facility, restaurant, home and auto sales. Some of these uses occurred one at a time, and also occurred at the same time.

It is noted in the tax card records that the property is of 1959 year construction and contains +/-9,940 square feet of space. The structure is a block building that is a combination of one story and two story areas and has a metal roof on wood framing. The building contains access to both sides through roll up doors and there is an area that appears to be office area to the front and the second floor area appears to be an apartment space.

As noted, the building was viewed from the exterior only. In consideration that you are interested in a "ballpark" value for the building, no interior inspection was completed and

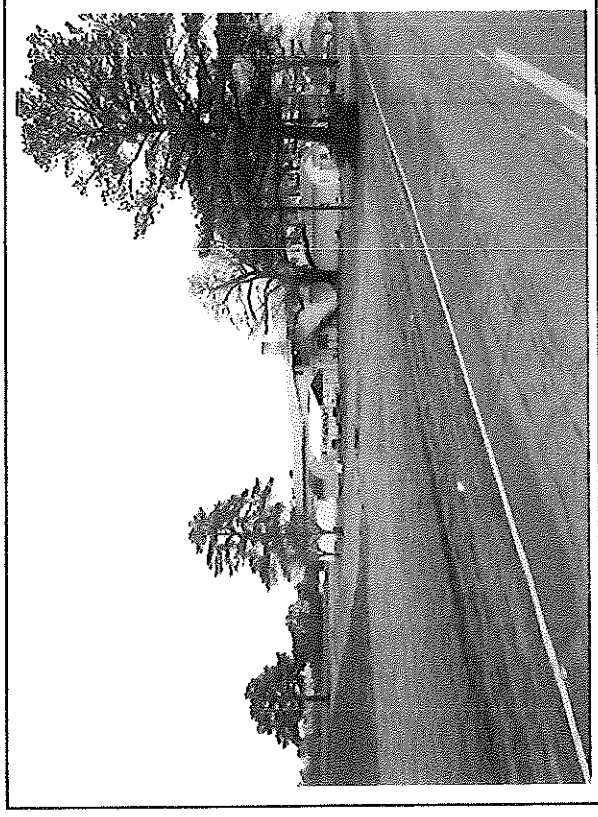
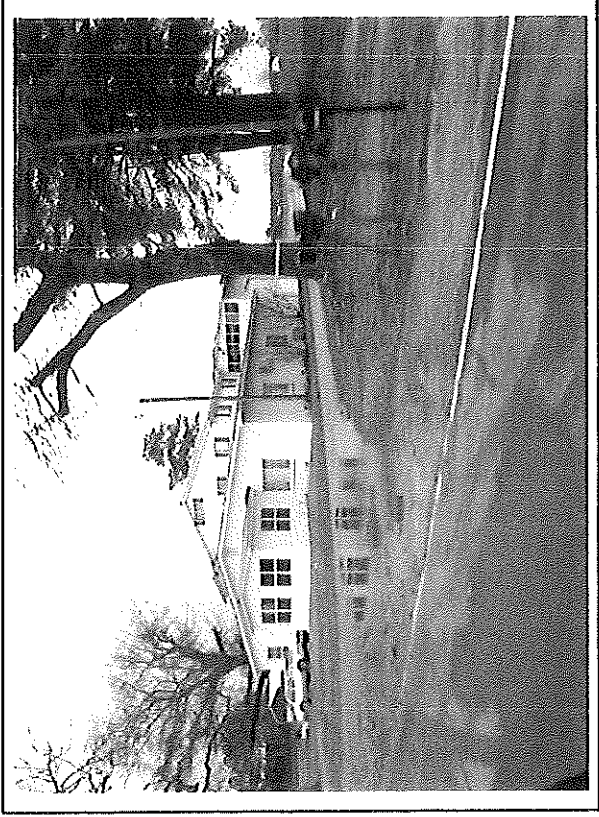
the analysis is performed under the hypothetical condition that the interior condition is fair to average and that the structure is habitable. It was noted that the land is zoned for residential use and that any commercial use is a grand fathered use for the land.

In consideration of the appraisal assignment, this is considered to be a restricted use report and is based on a minimal scope of work. The required elements that are noted in the Uniform Standards of Professional Appraisal Practice are addressed in this letter.

The opinion of value offered is an opinion of current market value for a fee simple interest in the homes and associated land. The date of inspection was February 13, 2009. This is the effective date of valuation. The opinion of value offered is for a fee simple interest in the land and building.

The land is located on Dragstrip Road in the southern Johnston County area that is associated with the communities of Benson and the unincorporated Meadow community. This area is rural in nature and there are a scattering of homes, however the predominant use is farmlands. The property is located with good access to the towns of Benson to the northwest and to Dunn to the southwest. The area is zoned AR Agricultural and Residential and is under the jurisdiction of Johnston County. The building is served electricity, telephone service and public water. Waste disposal is by private septic systems. The lands are not noted to be within a FEMA defied flood zone. The highest and best use of the lands, both as if vacant and as improved are for residential/commercial use.

The following photographs are of the building and a view along Dragstrip Road:





The building, as previously noted, is of block construction on a concrete slab foundation and is of varying heights. The building per county records was constructed in 1959 and thus has an age of +/-50 years. This appears to be reasonable upon exterior view. The appearance of the structure indicates that the construction took place in phases. There is a single story area to the front that is believed to have been the restaurant area at one time. An area to the left side of the building is accessed by roll up doors and appears to be a repair shop in design. An area to the right side is also accessed by roll up doors and is much taller in height and appears able to support interior repair of taller vehicle types and equipment. There is an area to the "center" of the structure that is two stories in height and the upper portion is believed to be an apartment and the lower area use is unknown. There is an exterior stairway access to this portion of the structure.

In consideration of the land and improvements, the following scope of work is considered:

The Uniform Standards of Professional Appraisal Practice imposes the responsibility on the Appraiser to determine the extent of research, the type of data, and complexity of report appropriate to the current appraisal problem.

For this current appraisal problem, the assignment involved one parcel of +/-2.98 acres per plat and a +/-9,940 square foot commercial/residential building.

In consideration of the subject, research has been conducted concerning a variety of topics. These include, but are not limited to, the site itself, the type and quality of the improvements, the highest and best use of the land and the highest and best use of the improved condition, the immediate neighborhood and the overall area and similar factors.

The ownership interest in the property is noted. The property is comprised of a variety of areas, and has potential for lease, however, the property is considered under a fee simple ownership.

In consideration of the subject specifically, the property was inspected from the exterior only and is assumed to be in a habitable condition.

For purposes of offering an opinion of value for the property, the three traditional approaches to value are considered. The cost approach has been assessed through use of Marshall and Swift Cost Services and consideration of this appraisers experience in local costs of construction. Land values were considered based on comparable sales in the area of parcels that were sold for similar use. The sales comparison approach is assessed with the use of sales of similar type properties in the local marketing area. Any differences were noted and analyzed and adjustments made as needed. The income generating capabilities of the subject are considered and the potential income streams of the building are noted and the resultant net income of the property is capitalized into an opinion of value. As is applicable to the subject, the above approaches are developed and presented in this report, and if not applicable, this is likewise noted. The strengths and weakness of

the three approaches to value are considered and a final opinion of value of the property is offered.

In the course of the project, various persons were interviewed that are a part of the local real estate market. These included real estate agents, developers, general contractors and governmental officials. In addition, data and information garnered during the performance of prior assignments is considered and utilized as applicable.

The ad valorem value of the subject parcel is \$150,700 and this results in a tax liability of \$1,175.46 for Johnston County at the 2008 ad valorem rates.

The lands are identified as being tax parcel ID 01F12050L. These lands are all a portion of an assemblage of parcels, and ownership interests of a large number of persons. The deeds are dated from 11/2006 through 04/2008 and the grantors number in the +/-50 range and the grantee of all deeds is Roger D. Williams.

These deeds are included in the addendum of this report and are summarized by book and page as: 3534/702, 3492/195, 3488/572, 3457/529, 3339/393, 3339/688, 3339/683 & 3228/52. All deeds reference +/-8 separate parcels and prior reference in all is file CvS92-129.

There are no known transactions that have impacted the property since purchase. It is this appraisers understanding that there are no listings, agreements or contracts in place affecting the property at the time of inspection.

The intended use of this analysis is for business decision making purposes and potential divestment of the asset. The intended user of this report is Mr. Roger Williams.

In considering the subject property and the valuation thereof, the following approaches to value are considered:

THE APPRAISAL PROCESS

Under normal and usual conditions, one or more of the following approaches to value, which are explained herein below, usually values real estate.

THE COST APPROACH

Under this method, estimating the replacement cost new of the buildings and other improvements, based upon today's labor and material prices and present construction techniques, derives value. From this total, a subtraction is made for accrued depreciation. The land value is found by the Sales Comparison Approach and is then added to derive a summation of value. In deriving at the cost of the improvements, the total square feet contained within the outer walls of the structure would be multiplied by the cost per square foot applicable to this type of structure. The square foot method rather than the cubic foot method is used because the builders in this area quote the former more readily.

THE SALES COMPARISON APPROACH

Under this approach, an estimate of value is derived by comparing the property under appraisal with other like properties of similar size, quality and location that sold in recent times. It is also referred to as that approach in an appraisal analysis, which is based on the proposition that an informed buyer would pay no more for a property than the cost to him of acquiring an existing property with the same utility.

THE INCOME APPROACH

This approach is employed with respect to income producing properties. Under this approach, it is the process of converting a stream of series of income payments into a lump-sum capital value. It is applied to the valuation of real estate on the premise that value is present worth is obtained by discounting, which is the form of capitalization applied to calculate the present worth of a future income stream.

For purposes of this analysis, the cost approach to value is the only approach that is considered applicable for the subject. This involves consideration of sales of vacant

lands in the local area and the depreciated contributory value of the improvements in place.

COST APPROACH TO VALUE

OPINION OF LAND VALUE

The following sales are selected for application to the subject properties. These sales are offered in summary form and any applicable adjustments are considered on a per sale basis. The primary consideration was for residential lands that are in the +/-2.0 to 3.0 acre range and are located in a rural environment. The following sales are considered most applicable.

Sale 1

Faith and Ronald Dean to CHMK Builders, Inc.

This parcel is located on Ivey Road +/-4 miles north and is a 2.57 acre lot that sold in October of 2008 for a price of \$55,000. The deed is recorded in Book 3612 Page 866 of the Johnston County Registry. The land is slightly smaller than the subject, however this is not considered an adjustable item. The location is superior in terms of access to the Town of Benson and to I-40 and I-95. Adjustment of -10% is considered. No other adjustments are considered applicable and this results in an adjusted value of \$49,500.

Sale 2

Samuel Adams Lee and Donna P. Lee to John Jacob Lee and Carrie L. Lee

This parcel of land is located +/-3 miles southeast on Holly Grove Church Road and is a +/-2.10 acre lot that sold in October of 2008 for a price of \$42,500. The deed is recorded in Book 3617 Page 345 of the Johnston County Registry. The land is smaller than the subject and an adjustment of +15% is considered applicable. No adjustments are considered for location or other items. Net adjustment of +15% results in a value of \$48,875.

Sale 3

Shelton and Frances Hinnant to Franklin And Darlene Hobson

This parcel of land is located +/-4 miles southeast on Lee-Jackson Road and is a +/-2.68 acre parcel that sold in January of 2008 for a price of \$32,500. The deed is recorded in Book 3478 Page 328 of the Johnston County Registry. The land is considered comparable in location and size, however the shape of the land is a longer and more narrow shape and an adjustment of +20% is considered applicable. No other adjustments are considered and this results in an adjusted value of \$39,000.

These sales represent values of \$49,500, \$48,875 and \$39,000. The mean value of the sales is \$45,792 and the mid range value is \$44,250. No sale is considered more applicable than another and the value represented by the mid range and mean values, \$45,000, is considered for application to the subject property.

Opinion of value, 2.98 acres

\$45,000

OPINION OF VALUE OF THE IMPROVMENTS

The subject property, as previously mentioned, is improved by a +/-9,940 total square foot building that is commercial and residential in nature. The building is of block construction on concrete slab foundation. The roof framing is wood and roof covering is metal. The roof appears to be of fairly recent installation. The building was constructed in 1959 per county records and this appears to be reasonable.

The interior of the building is unknown, however it is assumed that the commercial areas, which account for +/- 80% of the building, are basic in finish with block walls and some interior partitioning. The office and apartment areas are assumed to be a bit more finished in nature with some tile and carpet floor coverings and dry wall walls in place. The building is understood to have at one time housed a restaurant/cafeteria that was associated with the drag strip and it is assumed that the building contains four to five restrooms.

The appearance of the building gives the impression that there may have been an initial construction with two or three additions over the years. The style of construction appears to have remained fairly consistent through the process.

With limited data available for the analysis of an effective age of the property, it is considered that the building has an actual age of 50 years, and that the effective age is 30 years with a remaining life of 20 years. This results in a depreciation of 60%.

In consideration of the application of the Marshall and Swift Cost data to the subject, and with an understanding that there is service repair type area present, a former restaurant area, an apartment area, and storage area, and with no knowledge of the breakdown of the space, for purposes of this analysis, the category of Service and Repair Garages is selected.

For this category, the building is considered as a Class C, Quality G building. The basic description is a steel or concrete frame with masonry bearing walls. The interior finish noted finished offices, finished walls and some partitioning. The level of utilities is good electric and plumbing and good restrooms. The HVAC is noted as being by space heaters and no central HVAC. Adjustment is offered for partial cooling.

Per Marshall and Swift Cost Services, the base cost is \$64.74 per square foot. This is adjusted by +\$3.75 (one half of the per foot cost) for Air Conditioning. This is an adjusted cost of \$68.49.

Adjustments are typically offered for story height multipliers and for area/perimeter multipliers. In this instance, with the varied heights of the building and the shape of the structure, these multipliers are not considered. Regional multiplier is 1.06 and the local Raleigh market multiplier is .93 and this results in an adjusted cost of 67.51 per square foot.

This amount, applied to the 9,940 square feet of the subject results in a replacement cost of \$671,049. Depreciation of 60%, or \$402,629 is assessed resulting in a contributory value of \$268,420.

One item that is difficult to assess is the provision of the building meeting the building codes so that the facility could be considered in an operating condition. Under NC building code enforcement, the code that was in effect at the time of construction is the code that would be used. The exception to this is the ADA, Americans with Disabilities Act with items that offer greater accessibility to the building for persons in wheelchairs and such. With no specific cost being identifiable, an adjustment of -5.0% is made for this potential cost. This results in a value of 254,999 rounded to \$255,000.

Opinion of Value, Building	\$255,000
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SUMMARY OF THE COST APPROACH

Opinion of Land Value	\$ 45,000
Opinion of Building Value	\$255,000
Opinion of Value, Cost Approach	\$300,000

RECONCILIATION

With the cost approach being the only applicable approach to value, the final opinion of value for the subject is that of the cost approach. Thus, the opinion of value of the subject, as of the effective date of analysis, February 13, 2009 is \$300,000.

If you have any questions or comments, please feel free to contact me.

Sincerely,



Marc P. Jones
State Certified General Real Estate Appraiser A4726

ADDENDUM

CERTIFICATION

The Appraiser certifies that, to the best of my knowledge and belief:

That the statements of fact contained in this report are true and correct.

The reported analyses, opinions, and conclusions are limited only by the reported assumptions and limiting conditions and are my personal, impartial and unbiased professional analyses, opinions and conclusions.

I have no present or prospective interest in the property that is the subject of this report and no personal interest with respect to the parties involved with this assignment.

I have no bias with respect to the property that is the subject of this report or to the parties involved with this assignment.

My engagement in this assignment was not contingent upon developing or reporting predetermined results.

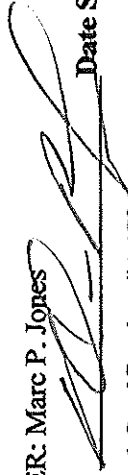
My compensation for completing this assignment is not contingent upon the development or reporting of a predetermined value or the direction in value that favors the cause of the client, the amount of the value opinion, the attainment of a stipulated result, or the occurrence of a subsequent event directly related to the intended use of this appraisal.

My analyses, opinions and conclusions were developed, and this report has been prepared, in conformity with the Uniform Standards of Professional Appraisal Practice.

I have made a personal inspection of the property that is the subject of this report.

No one has provided significant real property assistance to the person signing this certification.

APPRAISER: Marc P. Jones

Signature: 

Date Signed: 3 - 17, 2009

State-General Certification #A4726

State of North Carolina

Expiration Date of License: 06/30/2009

CONTINGENT AND LIMITING CONDITIONS

The certification of the Appraiser appearing in the appraisal report is subject to the following conditions and to such other specific and limiting conditions as are set forth by the Appraiser in this report.

1. The Appraiser assumes no responsibility for matters of a legal nature affecting the property appraised or the title thereto, nor does the Appraiser render any opinion as to the title, which is assumed to be good and marketable. The property is appraised as though under responsible ownership.

2. Any sketch in the report may show approximate dimensions and is included to assist the reader in visualizing the property. The Appraiser has made no survey of the property.

3. The Appraiser is not required to give testimony or appear in court because of having made the appraisal with reference to the property in question, unless arrangements have been previously made.

4. Any distribution of the valuation in the report between the land and improvements applies only under the existing program of utilization. The separate valuations for land and building must not be used in conjunction with any other appraisal and are invalid if so used.

5. The Appraiser assumes that there are no hidden or unapparent conditions of the property, subsoil or structures which would render it more or less valuable. The Appraiser assumes no responsibility for such conditions, or for engineering which might be required to discover such factors.

6. Information, estimates and opinions furnished to the Appraiser, and contained in the report, were obtained from sources considered reliable and believed to be true and correct. However, no responsibility for accuracy of such items furnished the Appraiser can be assumed by another Appraiser.

7. Disclosure of the contents of the appraisal report is governed by the Bylaws and Regulations of the professional appraisal organizations with which the Appraiser is affiliated.

8. Neither all, nor any part of the content of the report or copy thereof (including conclusions as to the property value, the identity of the Appraiser, professional designations, reference to any professional appraisal organizations, or the firm with which the Appraiser is connected, shall be used for any purposes by anyone but the client specified in the report, the borrower if appraisal fee paid by same, the mortgagee or its successors and assigns, mortgage insurers, consultants, professional appraisal organizations, any state or federally approved financial institution, any department, agency or instrumentality of the United States or any state or the District of Columbia, without the previous written consent of the Appraiser; nor shall it be conveyed by anyone to the public through advertising, public relations, news, sales or other media, without the written consent and the approval of the Appraiser.

9. On all appraisals, subject to satisfactory completion, repairs or alterations, the appraisal report and value conclusions are contingent upon completion of the improvements in a workmanlike manner.

DISCLAIMER

1 inch = 200 feet
(The scale is only accurate when printed landscape on a letter size sheet with page scaling set to none.)



Date 17-Mar-09

Information is valid only at state plane coordinates (NAD83)

Sale Date...: Apr 01 2008

Township, . . . ; Banner

ETU..... N/A

City Limits, N/A

Soft Type, . . . Goa

File District: Meadow

Flood Panel: 3720154600 U

Census Tract: 414



PLAT 72-218

Parcel 1 (271A) 5197

Parcel 2 (796A) 1453

Parcel 3 (6.07A) 5646

Parcel 4 (10.19A) 9571

Parcel 5 (8.59A) 3378

Johnston County Appraisal Card

CD	DESD	104N	WD	USG	64	UNIT	PRICE	8	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
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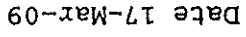
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* * * * *
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Scale 1 inch = 200 feet

(The scale is only accurate when printed landscape on a letter size sheet with page scaling set to none.)

Date 17-Mar-09

SERVICE (REPAIR) GARAGES (528)

CLASS	TYPE	EXTERIOR WALLS	INTERIOR FINISH	LIGHTING, PLUMBING AND MECHANICAL	HEAT	Sq. M.	Cu. Ft.	Sq. Ft.	COST
A-B	Average	Brick, reinforced concrete, good	Some plaster and glazed surfaces, offices, masonry partitions	*Good level of lighting, adequate plumbing	Space heaters	\$727.11	\$4.83	\$67.55	
	Excellent	Steel or concrete frame, brick, decorative block or concrete panels	Some good offices and supply rooms, good fleet-municipal type	Good electrical, lighting and service outlets, good restrooms	Forced air	989.75	6.57	91.95	
	Good	Steel, concrete or glulam frame, masonry curtain or bearing walls	Finished office, painted walls, some partitions	Adequate lighting and service outlets, adequate restrooms	Space heaters	696.86	4.62	64.74	
	Average	Masonry bearing walls with plaster, light trusses	Unfinished, small finished office area, some supply area	Adequate lighting and service outlets, small restroom	Space heaters	504.40	3.35	46.86	
C	Low cost	Light masonry bearing walls, light rafters	Unfinished, small partitioned office area, concrete floor	Minimum electrical and plumbing	Space heaters	366.94	2.44	34.09	
	Good	Wood frame, good siding, brick veneer or stucco and fenestration	Partially finished, finished office area, some partitions	Adequate lighting and service outlets, adequate restrooms	Space heaters	617.85	4.10	57.40	
	Average	Light wood frame, siding or stucco	Unfinished, small finished office area, some supply area	Adequate lighting and service outlets, small restroom	Space heaters	452.63	3.00	42.05	
	Low cost	Cheap frame, stucco or siding	Unfinished, small office area, concrete floor	Minimum lighting and plumbing	Space heaters	333.36	2.21	30.97	
D POLE	Average	Pole frame, metal siding, lined and insulated	Small finished office area, some supply area	Adequate lighting and service outlets, small restroom	Space heaters	389.23	2.58	36.16	
	Low cost	Pole frame and truss, metal siding	Small partitioned office area, concrete floor, utility type	Minimum lighting and plumbing	Space heaters	284.82	1.89	26.46	
	Good	Sandwich panels or metal with interior finish	Partially finished, finished office area, some partitions	Adequate lighting and service outlets, adequate restrooms	Space heaters	585.78	3.89	64.42	
	Average	Single wall with some interior finish	Unfinished, small finished office area, some supply area	Adequate lighting and service outlets, small restroom	Space heaters	423.66	2.81	39.35	
S	Low cost	Light, pre-engineered, utility-type building	Unfinished, small office area, concrete floor	Minimum lighting and plumbing	Space heaters	308.07	2.04	28.62	
	1,12								
	1,92								

*For elevator costs, see bottom of Page 34.

SERVICE GARAGE SHEDS (526)

SPRINKLERS - Sprinkler systems are not included. Costs should be added from Page 36.

C	Good	Open front, block or low-cost brick, good roof	Unfinished, concrete floor, shop area and cabinets	Good lighting and outlets, adequate plumbing	Space heaters	\$314.62	\$2.09	\$29.22	
	Average	Open front, tilt-up, block, steel or wood truss, average cover	Unfinished, concrete or asphalt floor, some cabinets, work area	Adequate electrical and water service and outlets	None	223.14	1.48	20.73	
	Low cost	End walls only, concrete block, shed or flat roof	Unfinished, concrete or asphalt floor	Adequate electrical and water service and outlets	None	168.67	1.12	16.67	
	Good	Open front, good metal siding on pole frame	Unfinished, concrete floor, shop area and cabinets	Good lighting and outlets, adequate plumbing	Space heaters	249.83	1.66	23.21	
D POLE	Good	Open front, metal or board on light pole frame	Unfinished, concrete or asphalt floor, some cabinets, work area	Adequate electrical and water service and outlets	None	176.96	1.17	16.44	
	Average	End walls only, low-cost siding on wood pole frame	Unfinished, concrete or asphalt floor	Adequate electrical and water service and outlets	None	135.95	.90	12.63	
	Low cost	Open front, good metal and steel frame	Unfinished, concrete floor, shop area and cabinets	Good lighting and outlets, adequate plumbing	Space heaters	271.16	1.80	26.19	
	Average	Open front, enameled siding on light frame	Unfinished, concrete or asphalt floor, some cabinets, work area	Adequate electrical and water service and outlets	None	193.32	1.28	17.96	
S	Low cost	End walls only, low-cost siding on steel frame	Unfinished, concrete or asphalt floor	Adequate electrical and water service and outlets	None	148.44	.99	13.79	
	Good	Open front, good metal and steel frame	Unfinished, concrete floor, shop area and cabinets	Good lighting and outlets, adequate plumbing	Space heaters	271.16	1.80	26.19	
	Average	Open front, enameled siding on light frame	Unfinished, concrete or asphalt floor, some cabinets, work area	Adequate electrical and water service and outlets	None	193.32	1.28	17.96	
	Low cost	End walls only, low-cost siding on steel frame	Unfinished, concrete or asphalt floor	Adequate electrical and water service and outlets	None	148.44	.99	13.79	

NOTE: Use total length of walled sides as the perimeter in the floor area-perimeter table.

Automotive and truck hoist costs can be found in Section 64, Page 3.

GARAGES, INDUSTRIALS, LOFTS AND WAREHOUSES

REFINEMENTS

On this page and the next are means of making adjustments to the base costs given in this section. The component parts which are not defined, such as the roof or foundation, are considered to be commensurate with the general quality of the building. If further refinements are required or the construction is unusual, either price entirely or adjust the base costs by the Segregated Cost System. Section 44. Special items which should be added to the total cost may be added from the Unit-In-Place cost sections.

HEATING AND COOLING

HEATING ONLY

SQUARE FOOT COSTS

SQUARE METER COSTS

Mild Moderate Extreme

Climate Climate Climate

Electric, baseboard or cable

radiant panel

Electric wall heaters (incl FWA)

Forced-air furnace

Hot water, baseboard/convector

Space heaters, with fan

radiant floor or ceiling

Steam (incl boiler)

(without boiler)

Wall or floor furnaces

Package A.C. (short ductwork)

Warm and cool air (zoned)

Hot and chilled water (zoned)

Heat-pump system

add for gnd. loop heat source

Individual thru-wall heat pumps

Small individual heat pumps cost \$1,350 per ton of rated capacity.

VENTILATION ONLY

SPRINKLERS

or smoke removal system

Ventilation (blowers and ducts)

SPRINKLERS

WET SYSTEMS

DRY SYSTEMS

Sq. Ft.

Sq. M.

under 10,000 (929)

10,000 to 100,000

over 100,000 (9,290)

1.63 - 2.68

2.38 - 3.99

3.99 - 5.67

5.67 - 7.39

7.39 - 9.09

9.09 - 10.79

These costs are averages of the total cost of the entire heating or cooling installation, including its pro-rated share of the contractor's overhead and profit and the architect's fees. If the heating found in the building being appraised is different from that indicated for the base being used, take the difference between the costs of the two and add to or subtract from the base square foot cost. If a cubic foot cost is used, use one-fourteenth (1/14) the difference shown to adjust the base cubic foot cost. All of the heating costs included in the base costs are those listed under "Moderate Climate." For specific system costs not found below, see Section 44 or 53. For laminar flow clean rooms, see Section 44.

Cooling costs in industrial buildings are dependent on the summer heat load, types of walls and roof, type of manufacturing, number of partitions, and traffic in and out. In general, the following figures will serve as a guide for picking the proper cost of separate cooling. For cold-storage refrigeration, see Page 24 or Section 58 for greater detail.

COOLING ONLY

Evaporative coolers

TYPE

SQUARE METER COSTS

SQUARE FOOT COSTS

Mild Moderate Extreme

Climate Climate Climate

Central refrigeration with ducts and zone controls

Package refriger. (short ductwork)

Central evaporative (with ducts)

Package refrigeration

Evaporative coolers

Lump sum cost per elevator plus the cost per stop or landing, including the ground level. Use the cost per stop for basement and mezzanine stops. See Section 58 for more detailed costs, for glass observation elevators and for personnel lift costs.

ELEVATORS

TYPE

COST RANGE

\$ 35,650 - \$ 58,050

4-story and over

add cost per stop

Freight, base cost, 2- to 3-story

4-story and over

add cost per stop, manual doors

power doors

Escalators, each stairway

Vertical wheelchair lifts, each

CALCULATOR METHOD

GARAGES, INDUSTRIALS, LOFTS AND WAREHOUSES FLOOR AREA - PERIMETER MULTIPLIERS

AVERAGE FLOOR AREA	Sq. Ft.	FT.	M.	AVERAGE PERIMETER
93	1,000	1,112	100	274
139	1,500	1,182	100	274
166	2,000	1,147	100	274
232	2,500	1,095	100	274
279	3,000	1,083	100	274
372	4,000	1,077	100	274
465	5,000	1,073	100	274
557	6,000	1,070	100	274
743	8,000	1,068	100	274
929	10,000	1,068	100	274
1,116	12,000	1,068	100	274
1,301	14,000	1,068	100	274
1,486	16,000	1,068	100	274
1,672	18,000	1,068	100	274
1,858	20,000	1,068	100	274
2,323	25,000	1,068	100	274
2,787	30,000	1,068	100	274
3,252	35,000	1,068	100	274
4,181	45,000	1,068	100	274
4,645	50,000	1,068	100	274

AVERAGE FLOOR AREA	Sq. Ft.	FT.	M.	AVERAGE PERIMETER
305	1,000	1,040	914	731
335	1,200	1,032	914	731
366	1,300	1,026	914	731
427	1,400	1,021	914	731
457	1,500	1,019	914	731
488	1,600	1,019	914	731
518	1,700	1,019	914	731
549	1,800	1,019	914	731
579	1,900	1,019	914	731
610	2,000	1,019	914	731
640	2,100	1,019	914	731
671	2,200	1,019	914	731
702	2,300	1,019	914	731
733	2,400	1,019	914	731
764	2,500	1,019	914	731
795	2,600	1,019	914	731
826	2,700	1,019	914	731
857	2,800	1,019	914	731
888	2,900	1,019	914	731
919	3,000	1,019	914	731
950	3,100	1,019	914	731
981	3,200	1,019	914	731
1,012	3,300	1,019	914	731
1,043	3,400	1,019	914	731
1,074	3,500	1,019	914	731
1,105	3,600	1,019	914	731
1,136	3,700	1,019	914	731
1,167	3,800	1,019	914	731
1,198	3,900	1,019	914	731
1,229	4,000	1,019	914	731
1,260	4,100	1,019	914	731
1,291	4,200	1,019	914	731
1,322	4,300	1,019	914	731
1,353	4,400	1,019	914	731
1,384	4,500	1,019	914	731
1,415	4,600	1,019	914	731
1,446	4,700	1,019	914	731
1,477	4,800	1,019	914	731
1,508	4,900	1,019	914	731
1,539	5,000	1,019	914	731

CALCULATOR METHOD

GARAGES, INDUSTRIALS, LOFTS AND WAREHOUSES

AVERAGE	FLOOR AREA	Sq. Ft.	M.	AVERAGE PERIMETER	FLOOR AREA	Sq. Ft.	M.	AVERAGE PERIMETER
610	2000	849	.845	1219	1524	1676	1829	1981
671	2200	.852	.847	1372	1676	1829	1981	2133
731	2400	.855	.848	1524	1829	2000	2133	2286
792	2600	.857	.853	1676	2000	2133	2286	2438
914	3000	.863	.863	1829	2133	2286	2438	2691
1067	3500	.871	.871	2000	2286	2438	2691	2944
1219	4000	.880	.876	2133	2438	2691	2944	3197
1372	4500	.888	.883	2286	2691	2944	3197	3450
1524	5000	.896	.888	2438	2944	3197	3450	3703
1676	5500	.903	.896	2691	3197	3450	3703	3956
1829	6000	.910	.903	2944	3450	3703	3956	4209
1981	6500	.917	.910	3197	3703	3956	4209	4462
2133	7000	.924	.917	3450	3956	4209	4462	4715
2286	7500	.931	.924	3703	4209	4462	4715	4968
2438	8000	.938	.931	3956	4462	4715	4968	5221
2691	8500	.945	.938	4209	4715	4968	5221	5474
2944	9000	.952	.945	4462	4968	5221	5474	5727
3197	9500	.959	.952	4715	5221	5474	5727	5980
3450	10000	.966	.959	4968	5474	5727	5980	6233
3703	10500	.973	.966	5221	5727	5980	6233	6486
3956	11000	.980	.973	5474	5980	6233	6486	6739
4209	11500	.987	.980	5727	6233	6486	6739	6992
4462	12000	.994	.987	5980	6486	6739	6992	7245
4715	12500	1.001	.994	6233	6739	6992	7245	7498
4968	13000	1.008	.999	6486	6992	7245	7498	7751
5221	13500	1.015	1.006	6739	7245	7498	7751	8004
5474	14000	1.022	1.013	6992	7498	7751	8004	8257
5727	14500	1.029	1.020	7245	7751	8004	8257	8510
5980	15000	1.036	1.027	7498	8004	8257	8510	8763
6233	15500	1.043	1.034	7751	8257	8510	8763	9016
6486	16000	1.050	1.041	8004	8510	8763	9016	9269
6739	16500	1.057	1.048	8257	8763	9016	9269	9522
6992	17000	1.064	1.055	8510	9016	9269	9522	9775
7245	17500	1.071	1.062	8763	9269	9522	9775	10028
7498	18000	1.078	1.069	9016	9522	9775	10028	10281
7751	18500	1.085	1.076	9269	9775	10028	10281	10534
8004	19000	1.092	1.083	9522	10028	10281	10534	10787
8257	19500	1.099	1.090	9775	10281	10534	10787	11040
8510	20000	1.106	1.097	10028	10534	10787	11040	11293
8763	20500	1.113	1.104	10281	10787	11040	11293	11546
9016	21000	1.120	1.111	10534	11040	11293	11546	11799
9269	21500	1.127	1.118	10787	11293	11546	11799	12052
9522	22000	1.134	1.125	11040	11546	11799	12052	12305
9775	22500	1.141	1.132	11293	11799	12052	12305	12558
10028	23000	1.148	1.139	11546	12052	12305	12558	12811
10281	23500	1.155	1.146	11799	12305	12558	12811	13064
10534	24000	1.162	1.153	12052	12558	12811	13064	13317
10787	24500	1.169	1.160	12305	12811	13064	13317	13570
11040	25000	1.176	1.167	12558	13064	13317	13570	13823
11293	25500	1.183	1.174	12811	13317	13570	13823	14076
11546	26000	1.190	1.181	13064	13570	13823	14076	14329
11799	26500	1.197	1.188	13317	13823	14076	14329	14582
12052	27000	1.204	1.195	13570	14076	14329	14582	14835
12305	27500	1.211	1.202	13823	14329	14582	14835	15088
12558	28000	1.218	1.209	14076	14582	14835	15088	15341
12811	28500	1.225	1.216	14329	14835	15088	15341	15594
13064	29000	1.232	1.223	14582	15088	15341	15594	15847
13317	29500	1.239	1.230	14835	15341	15594	15847	16100
13570	30000	1.246	1.237	15088	15594	15847	16100	16353
13823	30500	1.253	1.244	15341	15847	16100	16353	16606
14076	31000	1.260	1.251	15594	16100	16353	16606	16859
14329	31500	1.267	1.258	15847	16353	16606	16859	17112
14582	32000	1.274	1.265	16100	16606	16859	17112	17365
14835	32500	1.281	1.272	16353	16859	17112	17365	17618
15088	33000	1.288	1.279	16606	17112	17365	17618	17871
15341	33500	1.295	1.286	16859	17365	17618	17871	18124
15594	34000	1.302	1.293	17112	17618	17871	18124	18377
15847	34500	1.309	1.300	17365	17871	18124	18377	18630
16100	35000	1.316	1.307	17618	18124	18377	18630	18883
16353	35500	1.323	1.314	17871	18377	18630	18883	19136
16606	36000	1.330	1.321	18124	18630	18883	19136	19389
16859	36500	1.337	1.328	18377	18883	19136	19389	19642
17112	37000	1.344	1.335	18630	19136	19389	19642	19895
17365	37500	1.351	1.342	18883	19389	19642	19895	20148
17618	38000	1.358	1.349	19136	19642	19895	20148	20401
17871	38500	1.365	1.356	19389	19895	20148	20401	20654
18124	39000	1.372	1.363	19642	20148	20401	20654	20907
18377	39500	1.379	1.370	19895	20401	20654	20907	21160
18630	40000	1.386	1.377	20148	20654	20907	21160	21413
18883	40500	1.393	1.384	20401	20907	21160	21413	21666
19136	41000	1.400	1.391	20654	21160	21413	21666	21919
19389	41500	1.407	1.398	20907	21413	21666	21919	22172
19642	42000	1.414	1.405	21160	21666	21919	22172	22425
19895	42500	1.421	1.412	21413	21919	22172	22425	22678
20148	43000	1.428	1.419	21666	22172	22425	22678	22931
20401	43500	1.435	1.426	21919	22425	22678	22931	23184
20654	44000	1.442	1.433	22172	22678	22931	23184	23437
20907	44500	1.449	1.440	22425	22931	23184	23437	23690
21160	45000	1.456	1.447	22678	23184	23437	23690	23943
21413	45500	1.463	1.454	22931	23437	23690	23943	24196
21666	46000	1.470	1.461	23184	23690	23943	24196	24449
21919	46500	1.477	1.468	23437	23943	24196	24449	24702
22172	47000	1.484	1.475	23690	24196	24449	24702	24955
22425	47500	1.491	1.482	23943	24449	24702	24955	25208
22678	48000	1.498	1.489	24196	24702	24955	25208	25461
22931	48500	1.505	1.496	24449	24955	25208	25461	25714
23184	49000	1.512	1.503	24702	25208	25461	25714	25967
23437	49500	1.519	1.510	24955	25461	25714	25967	26220
23690	50000	1.526	1.517	25208	25714	25967	26220	26473
23943	50500	1.533	1.524	25461	25967	26220	26473	26726
24196	51000	1.540	1.531	25714	26220	26473	26726	26979
24449	51500	1.547	1.538	25967	26473	26726	26979	27232
24702	52000	1.554	1.545	26220	26726	26979	27232	27485
24955	52500	1.561	1.552	26473	26979	27232	27485	27738
25208	53000	1.568	1.559	26726	27232	27485	27738	27991
25461	53500	1.575	1.566	26979	27485	27738	27991	28244
25714	54000	1.582	1.573	27232	27738	27991	28244	28497
25967	54500	1.589	1.580	27485	27991	28244	28497	28750
26220	55000	1.596	1.587	27738	28244	28497	28750	29003
26473	55500	1.603	1.594	27991	28497	28750	29003	29256
26726	56000	1.610	1.601	28244	28750	29003	29256	29509
26979	56500	1.617	1.608	28497	29003	29256	29509	29762
27232	57000	1.624	1.615	28750	29256	29509	29762	30015
27485	57500	1.631	1.622	29003	29509	29762	30015	30268
27738	58000	1.638	1.629	29256	29762	29915	30268	30521
27991	58500	1.645	1.636	29509	29915	30015	30521	30774
28244	59000	1.652	1.643	29762	30015	30268	30774	31027
28497	59500	1.659	1.650	29915	30268	30521	31027	31280
28750	60000	1.666	1.657	30015	30521	30774	31280	31533
28991	60500	1.673	1.664	30268	30774	31027	31533	31786
29256	61000	1.680	1.671	30521	31027	31280	31786	32039
29509	61500	1.687	1.678	30774	31280	31533	32039	32292
29762	62000	1.694	1.685	31027	31533	31786	32292	32545
29915	62500	1.701	1.692	31280	31786	32039	32545	32798
30015	63000	1.708	1.699	31533	32039	32292	32798	33051
30268	63500	1.715	1.706	31786	32292	32545	33051	33304
30521	64000	1.722	1.713	32039	32545	32798	33304	33557
30774	64500	1.729	1.720	32292	32798	33051	33557	33810
31027	65000	1.736	1.727	32545	33051	33304	33810	34063
31280	65500	1.743	1.734	32798	33304	33557	34063</	

