

# 2022

## ASSESSMENT METHODOLOGY

### RESIDENTIAL CONDOMINIUM - TOWNHOME

A summary of the methods used by the City of Edmonton in determining the value of residential townhome condominium properties in Edmonton for assessment purposes.

[edmonton.ca/assessment](https://edmonton.ca/assessment)

Edmonton



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## Scope

This guide explains how residential condominium properties are valued for assessment purposes. The guide is intended as a tool and compliments the assessor's judgment in the valuation process.

## Introduction

Property assessments in the City of Edmonton are prepared in accordance with the requirements of the *Municipal Government Act*, R.S.A. 2000, c. M-26 (hereinafter "MGA") and the *Matters Relating to Assessment and Taxation Regulation, 2018*, Alta Reg 203/17, (hereinafter "MRAT"). The MRAT regulation establishes the valuation standard to be used, defines the procedures to be applied, and proposes objectives for the quality to be achieved in the preparation of assessments. The legislation requires the municipality to prepare assessments that represent market value by application of the mass appraisal process. All assessments are expected to meet quality standards prescribed by the province in the MRAT regulation.

Property assessments represent:

- an estimate of the value;
- of the fee simple estate in the property;
- as the property existed on December 31, 2021;
- reflecting typical market conditions;
- as if the property had been sold on July 1, 2021;
- on the open market;
- from a willing seller to a willing buyer.

The assessment is a prediction of the value that would result when those specific, defined conditions are met.

The legislation requires the City of Edmonton to assess the fee simple estate.

"Fee simple interest [is] absolute ownership unencumbered by any other interest or estate... leased fee interest [is] the ownership interest held by the lessor, which includes the right to the contract rent specified in the lease plus the reversionary right when the lease expires... leasehold interest [is] the interest held by the lessee (the tenant or renter) through a lease conveying the rights of use and occupancy for a stated term under certain conditions."

*Appraisal Institute of Canada, The Appraisal of Real Estate Third Canadian Edition, Vancouver, Canada, 2010, page 6.4*

Both *market value* and *property*, along with additional terms are defined in the *MGA* and *MRAT* :

s.284(1)(r) "**property**" means

- (i) a parcel of land
- (ii) an improvement, or
- (iii) a parcel of land and the improvements to it

*MGA .s.284(1)(r)*

s.1(k) "**regulated property**" means

- (i) land in respect of which the valuation standard is agricultural use value,
- (ii) designated industrial property, or
- (iii) machinery and equipment

*MRAT s.1(k)*

s.9(1) the **valuation standard** for the land and improvements is market value unless subsection (2)... applies

*MRAT s.9(1)*

s.1(1)(n) "**market value**" means the amount that a property, as defined in section 284(1)(r), might be expected to realize if it is sold on the open market by a willing seller to a willing buyer

*MGA s.1(1)(n)*

s.5 An assessment of property based on **market value**

- (a) must be prepared using mass appraisal,
- (b) must be an estimate of the value of the fee simple estate in the property, and
- (c) must reflect typical market conditions for properties similar to that property

*MRAT s.5*

s.289(2) Each assessment must reflect

- (a) the characteristics and physical condition of the property on **December 31** of the year prior to the year in which a tax is imposed

*MGA s.289(2)(a)*

s.6 Any assessment prepared in accordance with the Act must be an estimate of the value of a property on **July 1** of the assessment year

*MRAT s.6*

s.1(g) "**mass appraisal**" means the process of preparing assessments for a group of properties using standard methods and common data and allowing for statistical testing

*MRAT s.1(g)*

## Mass Appraisal

Mass appraisal is the legislated methodology used by the City of Edmonton for valuing individual properties, and involves the following process:

- properties are stratified into groups of comparable properties
- common property characteristics are identified for the properties in each group
- a uniform valuation model is created for each property group

31(c) **“valuation model”** means the representation of the relationship between property characteristics and their value in the real estate marketplace using a mass appraisal process

*MRAT s.31(c)*

The following two quotations indicate how the International Association of Assessing Officers distinguishes between mass appraisal and single-property appraisal:

“... single-property appraisal is the valuation of a particular property as of a given date: mass appraisal is the valuation of many properties as of a given date, using standard procedures and statistical testing.”

“Also, mass appraisal requires standardized procedures across many properties. Thus, valuation models developed for mass appraisal purposes must represent supply and demand patterns for groups of properties rather than a single property.”

*Property Appraisal and Assessment Administration, pg. 88-89*

For both mass appraisal and single-property appraisal, the process consists of the following stages:

	Mass Appraisal	Single Appraisal
<b>Definition and Purpose</b>	Mass appraisal is used to determine the assessment base for property taxation in accordance with legislative requirements	The client specifies the nature of the value to be estimated, this includes: rights to be valued, effective date of valuation, and any limiting conditions.
<b>Data Collection</b>	Mass appraisal requires a database of property characteristics and market information.	The extent of data collection is specific to each assignment and depends on the nature of the client's requirements.
<b>Market Analysis</b>	Mass appraisal is predicated on highest and best use.	Market analysis includes the analysis of highest and best use
<b>Valuation Model</b>	Valuation procedures are predicated on groups of comparable properties.	Subject property is the focus of the valuation. The analysis of comparable properties is generally six or less
<b>Validation</b>	The testing of acceptable analysis and objective criteria	The reliability of the value estimate is more subjective. Acceptability can be judged by the depth of research and analysis of comparable sales

## Valuation Model

A valuation model creates an equation of variables, factors and coefficients that explains the relationship between estimated market value and property characteristics. An assessed value is then calculated by applying the appropriate valuation model to individual properties within a property type.

s31 (a) **“coefficient”** means a number that represents the quantified relationship of each variable to the assessed value of a property when derived through a mass appraisal process

(b) **“factor”** means a property characteristic that contributes to a value of a property;

(d) **“variable”** means a quantitative or qualitative representation of a property characteristic used in a valuation model

*MRAT, s.31 (a), (b) and (d)*

s.33 Information prescribed ... does not include coefficients

*MRAT, s.33(3)*

### Valuation Model

- variables are identified from property characteristics
- statistical analysis determines how variables affect market value
- factors and coefficients are determined
- the resulting valuation models are applied to property characteristics

## Property Groups

**Residential Condominiums Units** are individual units that are typically part of a larger building site or complex. Each unit is described on the condominium plan registered with the Land Titles Office, typically has its own certificate of title, and can be bought and sold separately. A residential condominium complex may include both living units and accessory units.

Assessment of condominium unit

290.1(1) Each unit and the share in the common property that is assigned to the unit must be assessed

(a) in the case of a bare land condominium, as if it is a parcel of land, or

(b) in any other case, as if it is a parcel of land and the improvements to it.

(2) In this section, “unit” and “share in the common property” have the meanings given to them in the Condominium Property Act. 1

*MGA s.290.1(1) and (2)*

## Approaches to Value

The approaches to determine market value are the direct comparison, income, and cost approaches.

<b>Direct Comparison Approach</b>	Typical market value (or some other characteristic) is determined by referencing comparable sales and other market data. It is often used when sufficient sales or market data is available. It may also be referred to as the Sales Comparison Approach.
<b>Income Approach</b>	This approach considers the typical actions of renters, buyers and sellers when purchasing income-producing properties. This approach estimates the typical market value of a property by determining the present value of the projected income stream. Often used to value rental or leased property.
<b>Cost Approach</b>	Typical market value is calculated by adding the depreciated replacement cost of the improvements to the estimated value of land. It is often used for properties under construction or when there is limited market data available.

### Direct Comparison Approach

For this property group, the assessment is determined using the direct sales approach. It is the most appropriate method of valuation for Condominium Units in the City of Edmonton because it mirrors the actions of buyers and sellers in the marketplace and sufficient residential sales data exists in order to derive reliable market estimates.

The income approach is not used in the valuation of this property group as this approach is more applicable to income producing properties or in limited markets. The majority of these properties in this inventory are owner occupied with only a small portion of the inventory traded based on the property's ability to generate income.

The cost approach may be used to determine the value of condominium units while under construction and partially complete. Once construction is completed, condominium units are valued using the sales comparison approach.

The City of Edmonton validates all land title transactions (sales). The validation process can include site inspections, interviews with parties involved, a review of land title documents, corporate searches, third party information, and sale validation questionnaires.

The City of Edmonton reviews *four years of sales* occurring from July 1, 2017 to June 30, 2021 for valuation of Residential Condominium Units in high rise, lowrise properties, and townhouse properties. Time adjustments are applied to living unit sale prices to account for any market



fluctuations occurring between the sale date and the legislated valuation date. For the accessory condominium inventory, due to the lack of sales, 10 years of sales were used (July 1, 2011 to June 30, 2021).

**Sale price reflects the condition of a property on the sale date and may not be equal to the assessment.**

## Zoning

The rules and regulations for land development within Edmonton are contained in the Zoning Bylaw, No. 12800.

s.6.123 **zone:** a specific group of listed Uses and Development Regulations which regulate the Use and Development of land within specific geographic areas of the City...  
**Zoning Bylaw No. 12800, 2017, s. 6.123**

Residential land use zones vary in part due to density.

s.6.24 **density:** when used in reference to Residential and Residential-Related development, the number of Dwellings on a Site expressed as Dwelling per hectare.  
**Zoning Bylaw No. 12800, 2017, s. 6.24**

Not all properties conform to the zoning use set out in the Edmonton Zoning Bylaw. When property doesn't conform to the zoning bylaw, property assessors apply effective zoning. Effective zoning helps ensure that a property is grouped with and compared to similar properties—based on the current use of the land and not on what it's permitted to be developed as (e.g. a legal non-conforming use).

643(1) If a development permit has been issued on or before the day on which a land use bylaw or a land use amendment bylaw comes into force in a municipality and the bylaw would make the development in respect of which the permit was issued a nonconforming use or nonconforming building, the development permit continues in effect in spite of the coming into force of the bylaw.

**MGA, s.643(1)**

## Townhouse Condominium Complexes

Townhouse Condominium Complexes include two types of units.

### Townhouse Condominium Units

The criteria and definitions below are the factors that determine whether a condominium unit falls under the "townhouse" model.

Townhouse and row house condominium units are condominiums typically have two or more units per building. They usually are arranged in rows and may contain living space on multiple levels. The

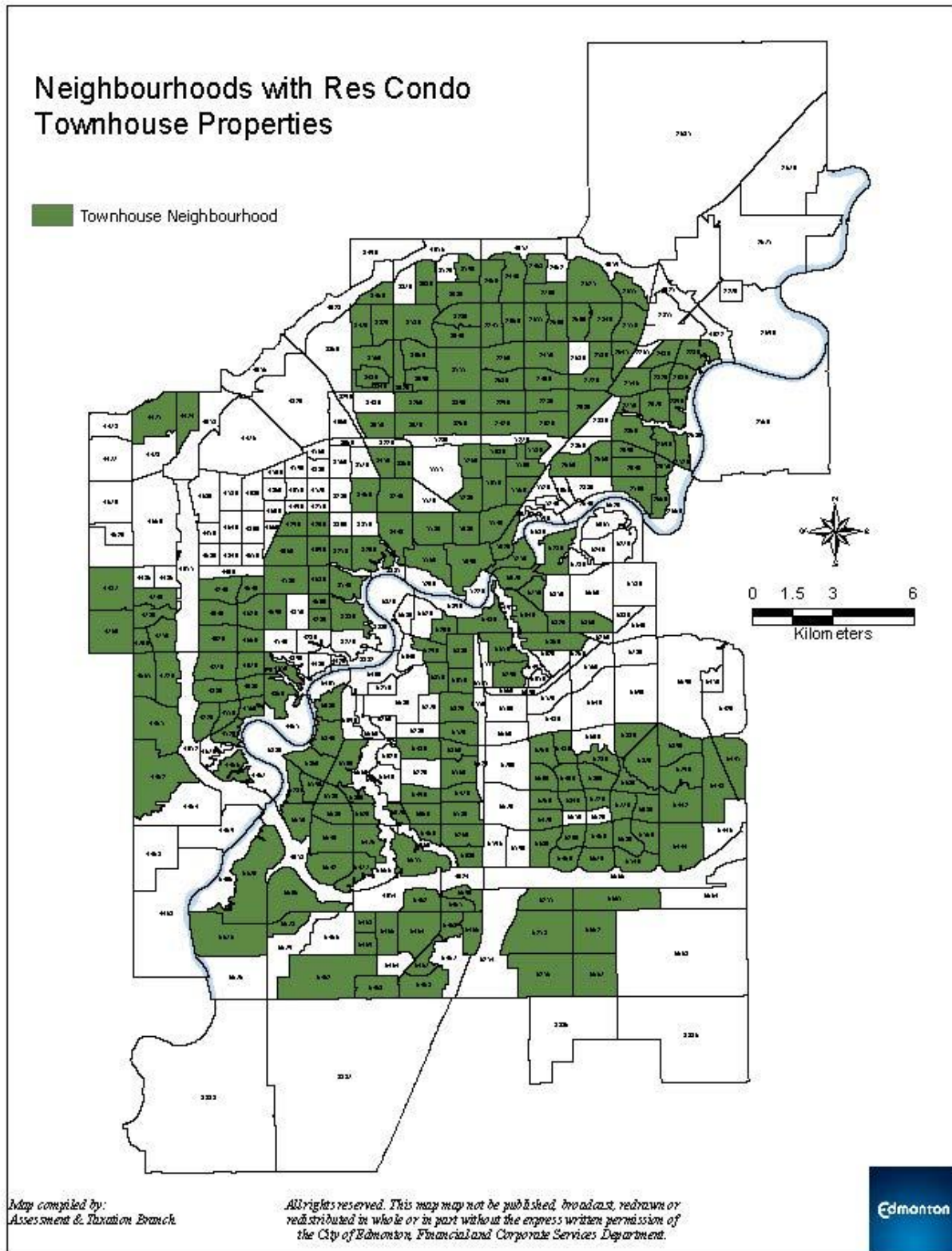
townhouse inventory can consist of freestanding (single detached homes), duplexes, fourplexes, row housing or carriage or coach homes. For townhouse units, the land is common property.

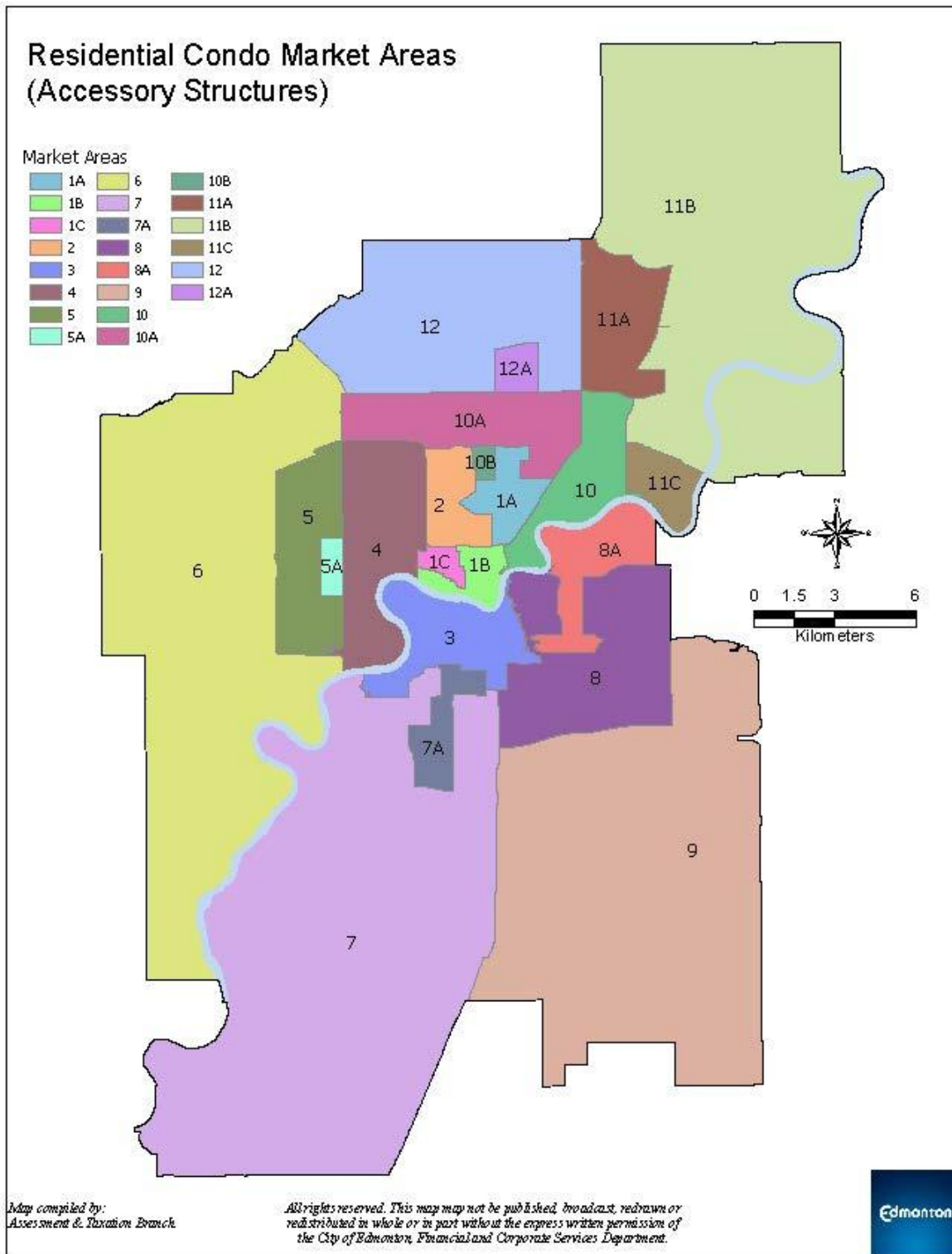
Bareland condominium units are similar to townhouse units, except the owner of the unit is also the **owner of the land**. They can often be found in more private, gated communities and some units may have a similar physical appearance to that of a house or single family dwelling.

A carriage home is much like an apartment except that it has external dwelling access and no internal building dwelling access (common hallway). They are located side by side with stacked units, one on top of the other. There may be a combination of carriage homes and townhouse units in the same project in which case each condominium unit account is classified in the appropriate category.

### **Accessory Condominium Units**

Accessory Condominium Units include Accessory Structure Units, Parking Units, and Common Area Units. There is one valuation model that encompasses Accessory Condominium Units.





## Variables

Not all variables affect market value. Below is the list of variables that affect the assessment value for 2022.

Townhome Condominium Units			
Unit Attributes		Building Attributes	Site Attributes
Air Conditioner	Garage Area	Condominium Complex	Lot size
Building Area	Renovations or Upgrades	Effective Year Built	Neighbourhood
Carriage Style	Stories	Quality	
Carriage Style - two storey	Unit Location	Year Built	
Condition	View		

Accessory Condominium Units		
Market area	Unit type	Parking type
Year built		

## Townhouse Condominium Unit Attributes

The following unit attributes affecting assessment value are as listed (alphabetically):

**Air conditioner:** Air conditioner is a central system for maintaining a cool atmosphere in a building typically by controlling the humidity, ventilation and temperature levels.

### Building area:

Building area measurements are based on the external building envelope measurements, less any internal missing floor area (Stairwells are considered as assessable net area and are not removed as part of internal missing floor area). The following building areas are factored into the assessment:

- **Building net area:** Building net area (also known as net livable area) is the total above-grade livable area of a house.

- **Basement area:** The basement forms part or all of the foundation and is located completely or partially below grade.
- **Finished basement area:** A house has a finished basement. If a basement has been designed to function as a habitable space, either during construction or at a later point, it is considered to be finished. Finished basement area is capped at 85% of Basement area to account for the portion of the area used by a mechanical room.
- **Loft area:** A loft is an open space in a house usually without any internal walls.
- **Finished lower level area:** A house has a finished lower level area. If this area has been designed to function as a habitable space, either during construction or at a later point, we consider it to be finished.
- **Solarium area:** Solariums are glass-enclosed rooms (with glass walls and roof) that form part of an extension to an original house.
- **Sunroom area:** Sunrooms are glass-enclosed rooms covered by a conventional roof that form part of an extension to an original house.

**Carriage style:** Carriage townhomes are stacked on top of one another making them similar to the lowrise condominiums. What differentiates carriage units from the lowrise condominiums is the lack of a common hallway and the existence of a separate entrance to every carriage unit. Below are the different locations of a unit within a carriage townhome.

Basement	Unit located below ground
Main	Unit located on the ground floor
Upper	Unit located on the second or third floor

**Carriage style - two storey:** A Two storey carriage townhome (with or without basement). It usually has units located on the upper floor.

#### Condition

- **Derelict property** – Usually, derelict properties have exterior doors and windows boarded up and are uninhabitable on the basis of an order from Alberta Health Services, a Safety Codes Officer or the City of Edmonton.
- **Deferred maintenance** - General maintenance, typical for the age of the condominium unit, has not been performed and a few items need immediate repair.
- **Original** - average (or better) maintenance has taken place.

**Garage area:** The size (area) of a garage. The different types of garage areas are described below.

- **Attached garage area:** Garages are walled, roofed structures typically with large rolling doors built for storing vehicles. An attached garage is built on grade as part of the structure of a building. It usually shares a roof or at least one common wall with a building.
- **Detached garage area:** Garages are walled, roofed structures typically with large rolling doors built for storing vehicles. A detached garage is a stand-alone structure.
- **Basement garage area:** Garages are structures typically with large rolling doors built for storing vehicles. A basement garage is built as part of the basement of a building—partially or completely below grade.

- **Attached carport area:** Carports are roofed, open structures without enclosed walls that are built to offer limited protection from the elements for vehicles or other storage. An attached carport is physically attached to a building, garage or another structure.
- **Detached carport area:** Carports are roofed, open structures without enclosed walls that are built to offer limited protection from the elements for vehicles or other storage. A detached carport is a stand-alone structure.

### Renovations or upgrades

- **Minor:** The unit has one or several cosmetic upgrades: for example, new paint, flooring, electrical fixtures, countertops, cabinet doors or painted interior doors. Or, the unit is considered to be upgraded when compared to the “base” units typically found within a newly constructed condominium complex.
- **Moderate:** The unit has a combination of cosmetic and extensive upgrades: for example, new kitchen and bathroom cabinets, paint, flooring, electrical and plumbing fixtures, countertops or painted interior doors. The scope of renovations under the moderate factor affects the majority of the unit rather than just one room. The quality of renovations is similar to or slightly better than the original quality of construction.
- **Major:** The unit is fully upgraded. It may have, for example, new kitchen and bathroom cabinets, paint, flooring, electrical and plumbing fixtures, countertops or painted interior doors. The scope of renovations under the major factor affects the majority of the unit rather than just one room. The quality of renovations is significantly better than the original quality of construction. The condominium unit may have custom built features or characteristics not generally found in the market.

**Stories:** This variable represents the number of stories that an individual condominium living unit has.

- **1 Storey:** A one-storey property (with or without a basement).
- **2 Storey:** A two-storey property (with or without a basement).
- **2 ½ Storey:** A two-storey property (with or without a basement) with a third level. However, the third level has a steep roof slope and dormers (which project from the roof and have windows on their fronts). Because of the roof design, the living area of the third level could be up to 50 per cent less than the main floor area.
- **2 ¾ Storey:** A two-storey property (with or without basement) with a third level. The exterior walls of the third level are ¾ shorter than full height (for example, 1.2-1.8 metres or 4-6 feet when measured from the outside). Therefore, the living area of the third level could be up to 20 per cent less than the main floor area.
- **3 Storey:** A three-storey property (with or without basement).

**Unit location:** Location within the building of the unit or dwelling relative to others within the building.

- **Corner unit** – Unit is on the corner of the building, typically with 2 outside walls at right angles.
- **End unit** - Unit is on the end of the building, typically with three outside walls.
- **Free standing** - Unit is not attached to other structures.

**Views:** The view variables that affect the assessment value are listed below. A view can be open or limited. For example, a unit with a view of a courtyard could be either, courtyard view-open, or courtyard view-limited. A view may be either a negative or a positive attribute.

- **Open:** View is considered a primary view, unobstructed and or directly in front of the subject unit or dwelling.
- **Limited/Obstructed:** View is obstructed, limited, or not directly facing the unit. For example, the view could be partly obstructed by a building or tree, or far away from the unit or dwelling.

#### Church view

A condominium unit has a view of a church. A church is located directly in front of a condominium unit's windows. An *open* church view has a negative impact on a property's assessed value.

#### Golf course view

A condominium unit has a view of a golf course.. A golf view has a positive impact on a property's assessed value.

#### Lake view

A condominium unit has a view of a lake or storm pond. An *open* lake view has a positive impact on a property's assessed value.

#### Open space view

A condominium unit has a view of an adjacent open space. An *open* open space view has a positive impact on a property's assessed value.

#### Park view

A condominium unit has a view of a park (green space with trees or playgrounds). The park is located directly in front of a unit's windows. A park view has a positive impact on a property's assessed value.

#### Ravine view

A condominium unit has a view of a ravine (land included in the City's *North Saskatchewan River Valley and Ravine System Protection Overlay*). A ravine view has a positive impact on a property's assessed value.

### Building attributes

The following building attributes affecting assessment value are as listed (alphabetically):

**Condominium Complex:** A condominium complex refers to a building, or group of buildings, usually associated with a common condominium plan.

**Effective year built:** The effective year built is the age of a condominium building adjusted for any physical changes that affect market value.

For example, a condominium building that has been damaged by fire and fully rebuilt may have a newer effective year built than its actual year built. Same applies when the condominium building goes through extensive renovations as part of its maintenance of quality and value.

When the effective year built differs from the original year built, the effective year built is used in determining the value of a property.



It allows not only to compare the property to a typical property built that year but also takes into consideration the overall usability and condition of the condominium.

### Quality (Specific to townhome condominium units)

- **Fair:** This quality class satisfied demands for moderate-cost, energy-efficient housing. The condominium unit is basically square or rectangular, has an adequate floor plan and has a plain exterior. Finishing materials were fair to average quality, and little or no attention was given to decorative features.
- **Standard:** This quality class represents average project housing that met building requirements for the era. The unit is of a typical style, is generally rectangular and may include entry porches or verandas. The floor plan is functional, and finishes are normally limited to standard quality, pre-manufactured materials with a minimum number of decorative features.
- **Semi-custom:** This quality class represents above-average housing that exceeded building requirements for the era. More attention to the exterior details such as breaks in the roof line may be evident. Architectural design was used in living areas. The floor plan is functional and gives a sense of spaciousness. Finishes were generally upgraded to a mixture of standard and better quality materials with decorative features. A minimum number of interior construction features may be present.
- **Custom:** This quality class represents good housing that exceeded building requirements for the era. The unit may have been contract built. The exterior has an attractive style, often with breaks in the roof line. The floor plan is functional, with an open design concept creating a sense of spaciousness. Architectural design was used in living areas. Finishing materials and workmanship were of good quality. A number of interior features are present.
- **Good custom:** This quality class represents good to expensive, energy efficient housing that is normally custom or contract built and, on occasion, may have been constructed under the supervision of an architect. The exterior style may be innovative and have breaks in the roof line. Large verandas, covered entrance ways, large or stylish columns are common. The interior design often shows originality, includes built-in features and has spacious rooms. A number of interior features are present. Attention to detail is evident. Finishes in this quality normally feature the best pre-manufactured or good to expensive materials.
- **Expensive:** This quality class represents unique housing that exceeded building requirements for the era. It may have been built under the supervision of an architect and is commonly built in prestigious areas, such as gated communities. The exterior often has large windows and a unique roof style. Exterior finishes are selected for their attractiveness and durability and may consist of limited amounts of costly ornamentation. The interior design is innovative with a considerable number of built-in features. Rooms are usually spacious, and the floor plan often includes special-purpose rooms. Decorative features and finishes are normally selected from expensive materials. Attention to detail is evident.

**Year built:** The year that a condominium building was originally constructed. If construction spanned over several years, this is the first year of construction.

### Site attributes

The following site attributes affecting assessment value are as listed (alphabetically):

**Lot size:** The amount of land area associated with each condominium unit is determined through unit factors. Lot size only pertains to land associated with bare land condominium units.

### Neighbourhood:

A Neighbourhood is a geographical area as defined by the City of Edmonton. Maps identifying neighbourhood boundaries are accessible on the City website, <http://maps.edmonton.ca/map.aspx> (choose “Neighbourhood” in the “I’m looking for” drop-down menu).

## Accessory condominium units

**Market area:** A geographic area, typically encompassing a group of neighbourhoods. The purpose of a market area is for market analysis. These borders are similar to those defined by the CMHC (Canada Mortgage and Housing Corporation) zones. Please refer to the 2021 Residential Condo Market Areas (Accessory structures) map within this methodology guide.

### Unit type

#### Accessory Structure Unit

Individually titled units that do not conform to any other unit type. For example, these include storage units.

#### Parking Unit

Individually titled units designed for parking including surface, garage and underground parking units.

#### Common Area Unit

Any unit that is not registered as a living unit, parking unit or an accessory structure unit.

### Parking type

- **Surface parking:** Parking located on ground level or higher that is not covered or has no protection from outside elements.
- **Underground parking:** Parking located in an underground structure that provides much more protection than covered parking. Though typically heated, these parkades protect against the elements to such a degree that even when unheated they provide more warmth than parking outside.
- **Garage parking:** Fully enclosed parking in an above ground structure. Though typically heated, these structures protect against the elements to such a degree that even when unheated they provide more warmth than parking outside.

**Year built:** The year that the parking structure was originally constructed. If construction spanned over several years, this is the first year of construction.

## Adjustments

- **Condominium complex adjustment**  
Not all condominium complexes may decrease/increase in value at the same rate as the typical annual decrease/increase found in the time adjustment analysis. Where market evidence demonstrates that a condominium complex or group of units in a condominium complex display different tendencies than the other similar complexes or groups of units, a market condominium complex factor may be applied to ensure the assessment accurately reflects market value. A condominium complex adjustment, generally a percentage, is based on market evidence and other considerations. It may be an upward or downward adjustment.

## Sample Assessment Detail Report

The factors and variables used to calculate each individual property assessment are displayed in the Factors Used to Calculate section of each property's *Assessment Detail Report*. "**Type**" specifies whether the variable applies to the unit, site or a specific building:

- Unit - An adjustment that is applied to a condominium unit.
- Site - An adjustment that is applied to the parcel of land only.
- Building - An adjustment that is applied to the improvement only.

### 2022 Property Assessment Detail Report Assessment and Taxation



Account XXXXXXXX

Report Date	December 13, 2021	page 1 of 1
2022 Assessed Value	<b>\$189,000</b>	
Date of Issue	January 14, 2022	
Property Address	XXX XXXXXX XXX STREET NW	
Legal Description	Plan: XXXXXXXX Unit: XX	
Zoning	RF5 - Row Housing District	
Effective Zoning	RF5 - Row Housing District	
Neighbourhood	Michaels Park	
Assessment Class	RESIDENTIAL	
Property Use	100% Row house condominium	
Taxable Status	January 1 - December 31, 2022; FULLY TAXABLE	
Unit of Measurement	METRIC (metres, square metres)	

### Factors Used to Calculate Your 2022 Assessed Value

VARIABLE	FACTOR	MARKET VALUE APPROACH		DIRECT COMPARISON	
Neighbourhood	MICHAELS PARK			Site	
Year built	1975			Building	
Effective year built	1975			Building	
Unit net area	108			Unit	
Basement area	53			Unit	
Attached carport area	42			Unit	
Quality	STANDARD			Unit	
Storeys	2			Unit	
Unit location	END UNIT			Unit	
Park view	OPEN			Unit	

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Visit [myproperty.edmonton.ca](http://myproperty.edmonton.ca) • email [assessment@edmonton.ca](mailto:assessment@edmonton.ca) • call 311 (780-442-5311)

## Methods to Adjust Comparables

There are two techniques for adjusting comparables: **quantitative** and **qualitative**.

### Quantitative Adjustments

Each characteristic of a property can be measured or quantified by a mathematical expression and adjusted for.

*Several techniques are available to quantify adjustments to the sale prices of comparable properties: data analysis techniques such as paired data analysis, grouped data analysis, and secondary data analysis, statistical analysis, including graphic analysis...*

(AIC, 2010, p. 14.2)

*In the direct comparison approach, the best comparables are those sales that require the least **absolute** adjustment.*

(AIC, 1995, p. 245).

Quantitative adjustments involve adjusting a known value (sale price for example) by adding or subtracting an amount that a given characteristic adds to or subtracts from that value. A quantitative adjustment should be made for each characteristic that differs between the subject property and the comparable property.

Due to the legislative requirement to use mass appraisal, the City has used statistical analysis to determine annual assessments.

*"coefficient" means a number that represents the quantified relationship of each variable to the assessed value of a property when derived through a mass appraisal process.*

**MRAT s.31(a)**

The City is not required to disclose the coefficients. In the absence of quantitative adjustments, an alternative technique is qualitative analysis.

## Qualitative Analysis

Each comparable property is compared with the subject property on an overall basis. In a qualitative analysis, comparable properties are identified as inferior, similar, or superior overall to the subject property in order to bracket the probable value range of the subject property.

*When a sale property is considered to offer important market evidence but finding the means to make quantitative adjustments is lacking, the appraiser may turn to other major direct comparison techniques, qualitative analysis.*

(AIC, 2005, p. 19.10)

*Qualitative analysis recognizes ... the difficulty in expressing adjustments with mathematical precision.*

(AIC, 2010, p. 14.6 )

*...reliable results can usually be obtained by bracketing the subject between comparables that are superior and inferior to it.*

(AIC, 2010, p. 14.7)

*If one or two comparable properties require fewer total adjustments than the other comparable transactions, an appraiser may attribute greater accuracy and give more weight to the value indications obtained from these transactions, particularly if the magnitude of the adjustments is approximately the same.*

(AIC, 2010, p. 13.16)

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## References

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## Appendix

### Zone Chart: Residential Condominiums

<b>RF5</b>	<b>Row Housing Zone (s. 160)</b> is to provide for relatively low to medium density housing, generally referred to as Row Housing.
<b>RF6</b>	<b>Medium Density Multiple Family Zone (s. 170)</b> is to provide for medium density housing, where some units may not be at Grade.
<b>RA7</b>	<b>Low Rise Apartment Zone (s. 210)</b> provides for lowrise apartment buildings.
<b>RA8</b>	<b>Medium Rise Apartment Zone (s. 220)</b> provides for medium-rise apartment buildings.
<b>RA9</b>	<b>High Rise Apartment Zone (s. 230)</b> provides for highrise apartment buildings.
<b>RMD</b>	<b>Residential Mixed Dwelling Zone (s. 155)</b> is to provide for a range of dwelling types and densities including single detached, semi-detached, and row housing.
<b>UCRH</b>	<b>Urban Character Row Housing Zone (s. 165)</b> is to provide for medium density Row Housing in a manner that is characteristic of urban settings and can include more intensive development.

\*For zonings not listed above, please see zoning bylaw 12800.

### Measure Conversion Chart

Imperial to Metric – Length	Imperial to Metric – Area
1 inch (in) = <b>2.54</b> centimetres (cm)	1 square foot (sqft) = <b>0.09290</b> square metre (m <sup>2</sup> )
1 foot (ft) = <b>0.3048</b> metres (m)	1 acre (ac) = <b>4,046.86</b> square metre (m <sup>2</sup> )
<b>Imperial Conversions</b>	1 acre (ac) = <b>0.40469</b> hectares (ha)
1 acre (ac) = <b>43,560</b> square feet (sqft)	<b>Metric Conversions</b>
1 square mile = <b>640</b> acres (ac)	1 square kilometer (sq km) = <b>100</b> hectares (ha)
1 section = <b>640</b> acres (ac)	1 hectare (ha) = <b>10,000</b> square metres (m <sup>2</sup> )

## Time Adjustment Factors

<b>Time Adjustment Factor 2022 Residential Townhome Condominiums</b>			
<b>Date</b>	<b>TAF</b>	<b>Date</b>	<b>TAF</b>
<b>Jul-17</b>	0.8932	<b>Jul-19</b>	0.9587
<b>Aug-17</b>	0.8989	<b>Aug-19</b>	0.9634
<b>Sep-17</b>	0.9046	<b>Sep-19</b>	0.9681
<b>Oct-17</b>	0.9103	<b>Oct-19</b>	0.9728
<b>Nov-17</b>	0.9161	<b>Nov-19</b>	0.9776
<b>Dec-17</b>	0.9219	<b>Dec-19</b>	0.9823
<b>Jan-18</b>	0.9219	<b>Jan-20</b>	0.9871
<b>Feb-18</b>	0.9219	<b>Feb-20</b>	0.9919
<b>Mar-18</b>	0.9219	<b>Mar-20</b>	0.9967
<b>Apr-18</b>	0.9219	<b>Apr-20</b>	1.0016
<b>May-18</b>	0.9219	<b>May-20</b>	1.0000
<b>Jun-18</b>	0.9219	<b>Jun-20</b>	0.9983
<b>Jul-18</b>	0.9219	<b>Jul-20</b>	0.9967
<b>Aug-18</b>	0.9219	<b>Aug-20</b>	0.9950
<b>Sep-18</b>	0.9300	<b>Sep-20</b>	0.9934
<b>Oct-18</b>	0.9381	<b>Oct-20</b>	0.9983
<b>Nov-18</b>	0.9464	<b>Nov-20</b>	1.0032
<b>Dec-18</b>	0.9547	<b>Dec-20</b>	1.0082
<b>Jan-19</b>	0.9630	<b>Jan-21</b>	1.0131
<b>Feb-19</b>	0.9715	<b>Feb-21</b>	1.0181
<b>Mar-19</b>	0.9800	<b>Mar-21</b>	1.0136
<b>Apr-19</b>	0.9746	<b>Apr-21</b>	1.0090
<b>May-19</b>	0.9693	<b>May-21</b>	1.0045
<b>Jun-19</b>	0.9640	<b>Jun-21</b>	1.0000