2.1
UPPER TWELFTH STREET

INTRODUCTION

The Upper Twelfth Street Residential Corridor, identified as Development Permit Area 2.1 [See Map 2.0], is designated in order guide the transition of a portion of a commercial corridor to a residential corridor by facilitating new multi-unit residential development, with ground oriented housing units that activate the public realm.

Upper Twelfth Street, one of New Westminster's Great Streets, is an important local corridor that connects the West End and Moody Park neighbourhoods to Brow of the Hill and Downtown. It is also a major connector, linking New Westminster to Burnaby. This corridor has also played an important role in New Westminster's history, and remains home to several buildings designed in the Art Deco style. There is a number of existing medium density residential developments that will continue to form an important part of the fabric of the corridor.

This area is designated as a Development Permit Area with the following purposes:

- establishment of objectives for the form and character of multi-family residential development,
- protection of the natural environment, its ecosystems and biological diversity (as outlined in the Justification section of this schedule), and
- establishment of objectives to promote energy conservation (as outlined in the Justification section of this schedule).

Applications to develop properties located within this Development Permit Area for commercial uses, in accordance with existing commercial zoning, must instead comply with the guidelines included in the Upper Twelfth Street Commercial Corridor Development Permit Area.



Residential - Multi-Unit Buildings

Upper Twelfth Street Residential Corridor

Greenway/Trail

School/Park/Community Facility/Open Space

2.1 UPPER TWELFTH STREET
INTRODUCTION

OPPORTUNITIES

The vision for Upper Twelfth Street is to encourage retail to develop in focused nodes along the corridor, with pedestrian-scale residential filling in the gaps. This will create a vibrant mix of uses to enhance the walkable and pleasant scale of Upper Twelfth Street. New residential development should be appropriately scaled, encourage active, ground oriented street fronting units, and enhance the character of the neighbourhood. Given the history of Upper Twelfth Street, opportunities to integrate stylistic or formal Art Deco cues into new developments can be explored.

In order to create a family friendly, pedestrian oriented neighbourhood, new residential developments should include ground oriented residential units and a richly designed semi-private realm with appropriate transitions between the street and private residential units. Furthermore, new developments along Twelfth Street must transition appropriately to the surrounding lower density neighbourhood, especially given many of the parcels along Twelfth do not have lanes.

Creating this transition will be vital in creating a well-scaled and comfortable environment for residents and pedestrians. Balconies, decks and articulation of the building massing should be used to create a lively expression along the corridor.

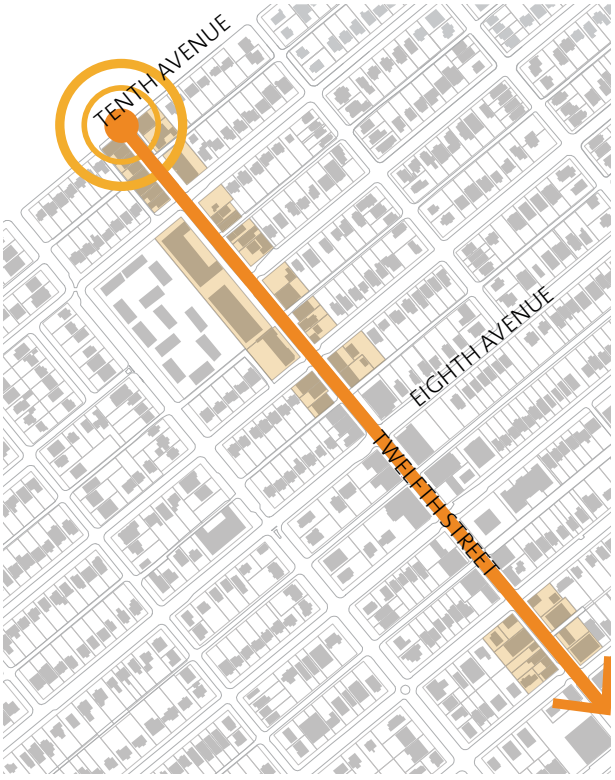
HOUSING

The City of New Westminster is committed to the development and maintenance of safe, affordable housing through policies, plans and programs. A variety of ground oriented housing forms, tenures and unit sizes, and affordable housing for different ages, incomes, family types and abilities is encouraged to support diverse, intergenerational neighbourhoods.

As Upper Twelfth Street is identified as a Great Street within the city, new developments can help enhance the qualities of the neighbourhood and achieve a great public realm by ensuring sidewalk widths allow for comfortable and unimpeded pedestrian flow, using setbacks to create private space for residential units at grade and/or providing opportunities for the reallocation of space within the right of way to allow for bike lanes or other improvements.

GATEWAYS AND ARRIVAL POINTS

The intersection of Twelfth Street and Tenth Avenue marks the entrance to the historic Upper Twelfth Street corridor, as well as one of the main entry points to New Westminster from Burnaby. Development in this area has the potential to reinforce this important community gateway by emphasizing active at-grade residential typologies, open space and public realm improvements, and public art to act as an entry point to the city and this neighbourhood.



Tenth Avenue and Twelfth Street as an arrival point

2.1 UPPER TWELFTH STREET
NEIGHBOURHOOD INTERFACE

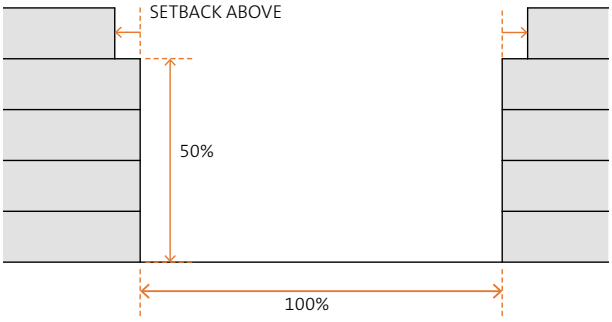
2.1.1 SITING

Intent: Building siting must respond to the existing context and create a comfortable pedestrian scale and sensitive neighbourhood interface.

- New buildings and residential units within should be designed to front all streets/greenways immediately adjacent to or within the development.
- Buildings should be designed to respond to specific site conditions and opportunities, including: prominent intersections, corner lots, unique block structures, absence of laneways, steep topography, natural features, prominent open spaces and views.
- New developments should be designed to fit within the natural topography of the site, by stepping down sloping terrain and accommodating significant grade changes by creating transitions from the building to the sidewalk and street level.
- Units on the ground level should have primary entries that are oriented to the street.
- New developments should incorporate a street wall that complements the scale of adjacent buildings and is appropriate to the street width (i.e. street wall height should be 50% – 30% of the street R.O.W. width). Floors above this ratio height should be set back a minimum of 3m (9'10").



Ground floor residential entries, Arbutus Walk



Building height to R.O.W. example of 50%

2.1 UPPER TWELFTH STREET
NEIGHBOURHOOD INTERFACE

2.1.2 CHARACTER

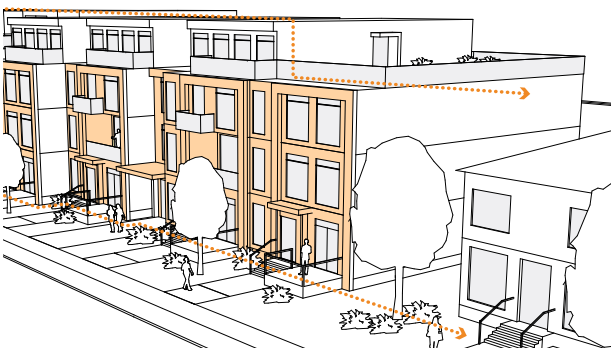
Intent: New buildings and developments must be designed in a cohesive manner that enhances the qualities and character of the neighbourhood in which they are situated.

- Buildings should be designed to fit harmoniously with the existing context by creating a consistent visual rhythm along the streetscape.
- All buildings within a development should be designed with diversity to ensure a varied streetscape but create some cohesion by aligning window sills, cornices, and floor-to-floor spacing along the street block. Variety in massing, details, and/or material should be considered to avoid a monotonous appearance and reinforce individual building identity.
- Public realm elements (lighting, landscaping, etc) should add to the neighbourhood's public realm and provide comfortable spaces for pedestrians.
- Public art should be integrated and historical elements retained to enhance the Art Deco character of Upper Twelfth Street. Pedestrian scale landmarks within the neighbourhood should be created to mark important gateways, areas of heritage significance, pocket parks, etc.
- Interpretation of Art Deco character elements is encouraged. While direct imitation is highly discouraged, new buildings should provide a modern interpretation of these stylistic cues. Character design elements can still fit within the language of a contemporary development may include: angled ground floor recesses, mosaic tile detailing, hardware and architectural detailing, use of colour, period lighting, materials and motifs.

2.1.3 MASSING + SETBACKS

Intent: Building massing and setbacks must respond to the existing context and create a comfortable pedestrian scale and a sensitive neighbourhood interface.

- Larger building masses and buildings with long frontages should be visually broken down using recesses, shifts in the massing and/or other methods of articulation to lessen visual impact on the pedestrian realm and create variation along the street.
- Residential buildings should be set back from the front property line on the ground floor by a minimum of 3.0m (9'10") and a maximum of 4.0m (13'2") to provide private space for at-grade residential units.
- Buildings on lots adjacent to single detached dwellings or other ground oriented dwelling types should step masses above three storeys back a minimum of 3m (9'10") from the building edge.
- Buildings of four to six storeys should be set back at the fourth storey and higher by 3m (9'10") on all sides except on interior lot line, in which case there should be a zero lot line condition.
- Setbacks on side streets should take into account neighbouring properties and may be staggered across the side façade to ease the transition to single detached dwellings.



Transition setbacks to interface with single detached dwellings and other ground oriented forms

2.1 UPPER TWELFTH STREET
NEIGHBOURHOOD INTERFACE



Use of recesses and articulation to break down a long building façade, Source: Ramsay Worden Architects

- Rear lot setbacks are intended to provide privacy and open space for residents and reduce overlook. The setbacks are dependent on housing form, building density, use on the adjacent lot and the presence of a lane.
- Where possible, a minimum 3.0m (9'10") setback should be provided along laneways. If no laneway exists at the rear of the lot, provide a minimum 7.5m (24'7") setback from the property line.
- Six storey developments will only be considered in limited circumstances based on specific conditions:
  - If the project meets one or more significant City priorities (e.g. proving non-market rental housing, providing secure purpose built market rental, retention of a heritage building through a Heritage Revitalization Agreement or similar tool, retention of trees, construction of an energy efficient building).
  - OR, if the lot size, lot depth, configuration and grading allows for appropriate transition to future adjacent massing and is in accordance with City regulations.
- If development sites meet one of the above conditions, six storey forms should:
  - Provide two storey, three bedroom, family friendly, ground oriented units at the base of the building.
  - Exceed the requirements of the family friendly housing policy.
  - Change materials and colour above the third storey to lessen the visual impact of the height of the building.
  - Demonstration that it will not significantly overshadow adjacent residential and public open spaces.
  - Provide publicly accessible open space (pocket park, plaza, courtyard, etc.), when appropriate.

2.1 UPPER TWELFTH STREET
NEIGHBOURHOOD INTERFACE



Provide living areas with daylight and ventilation, Source: Shed Architecture

2.1.4 VIEWS + SHADOWS

Intent: Buildings must be designed to reduce shadowing impact on adjacent properties and public spaces and maintain important views in the community.

- Entrances, residential unit glazing and balconies should be positioned to ensure casual overlook of public spaces and streets to enhance "eyes on the street"
- Buildings should address the urban context in which they are situated by:
  - Avoiding overshadowing existing buildings, private open spaces and public spaces,
  - Minimizing impact on neighbouring single detached dwellings and other ground oriented housing forms,
  - Orienting windows and entrances to primary and secondary street frontages to provide overlook,
  - Designing with solar orientation, daylighting and passive ventilation in mind.
- The siting, form, and scale of buildings should mitigate blockage of significant views and solar access from existing or anticipated development, and that shadowing impacts on adjacent residential buildings and usable open spaces are minimized.

2.1.5 VENTILATION

Intent: Buildings must be designed to maximize natural light and ventilation for all residential units while considering any microclimates which may impact the building.

- Massing of buildings should promote as many units as possible having exterior walls with windows on two sides.
- Internal units should be configured using a wide window-wall to shallow room depth ratio that ensures ample daylight penetrates to the rear of the unit.
- Buildings should be organized internally so that wherever possible, primary living spaces (living room, kitchen, family room) have exterior walls with windows on two sides to encourage natural ventilation and daylighting.
- Use stack vents and light wells to provide additional light and ventilation to primary and secondary living spaces, when appropriate.
- Ventilation for underground parking and garbage/ recycling rooms should not vent onto public sidewalks or adjacent to residential units.

2.1 UPPER TWELFTH STREET
BUILDING DESIGN



Apartment building entrance with ground oriented entrances flanking, Source: GBL Architects

2.1.6 ENTRANCES

Intent: Building entrances must be located and designed to provide ground floor units that contribute to safe and lively urban environments.

- Residential buildings should activate public R.O.W.s by incorporating ground floor units with individual primary entrances.
- Residential entries should be clearly visible and identifiable from the fronting public street and sidewalk. This can be achieved through articulating the building massing and framing entrances with secondary roof elements (such as canopies, etc)
- When possible, apartment lobbies should have multiple access points to increase connectivity and building access. When multiple entries are created, ensure the primary entry is clearly identifiable from the street.
- Ground-floor units should be elevated slightly to create privacy and a transition zone from the street.
- Residential lobby entrances should be distinguished from those of ground-floor residential units. Incorporate architectural and landscape features to create thresholds and gateways to further enhance a sense of arrival to the building and differentiate the public and private realm along the streetscape.
- The transition zone between private entrances/ outdoor living spaces and the public realm should be activated with stoops, stairs, private yards and porches.

2.1.7 FAÇADES

Intent: Building façades must have appropriate levels of transparency and have a direct interface with public streets, pathways and open spaces.

- Residential buildings should activate the street by incorporating individual entrances to ground floor units in residential buildings that are accessible from the fronting street.
- Individual units should be differentiated with minor façade articulation, changes in color, and/or materials.
- Blank walls (over 5.0m or 16'5" in length) should be avoided. When unavoidable, use design treatments such as planters, climbing vines or plants, murals and public art.

2.1 UPPER TWELFTH STREET
BUILDING DESIGN

2.1.8 MATERIALS

Intent: All buildings within a development must use a cohesive material and colour palette that complements the character of the surrounding neighbourhood.

- High quality materials should be used to enhance the quality and character of Upper Twelfth Street. Wood, stone and brick are preferred cladding materials, while composite, metal or cementitious panels are also permitted. Stucco and polished concrete may be permitted if used sparingly and in a way that is consistent with the Art Deco heritage of the neighbourhood.
- Colours should be muted but fit within the surrounding neighbourhood character. Accent colours may be bold but should be harmonious with the main colour and material palette to unify the design and to highlight architectural details (e.g. soffits, window and door trim, railings).
- Matte finishes or finishes with a low level of reflectivity should be used. The use of reflective materials (e.g. mirrored glass, polished stone) should be avoided.
- Design elements, hardware and accents that draw inspiration from the Art Deco heritage of the neighbourhood should be used.



Material use and façade differentiation, Source: Tact Architecture

2.1.9 WINDOWS

Intent: Windows must be placed to encourage "eyes-on-the-street" while being mindful of strategies for reducing solar gain and ensuring occupant privacy.

- Windows should be located to maximize connections with the public realm.
- Transparency at grade should be achieved by utilizing clear glass – tinted, reflective and opaque glass must be avoided.
- Exterior shading devices such as: fins, louvres and strategic overhangs should be used when possible to create shade from the summer sun while providing solar access in the winter months. These shading devices should be used primarily on south-facing façades but may also be utilized on west or east façades.



Ground floor residential entries and windows fronting a public sidewalk, Source: Ashley Smith

2.1 UPPER TWELFTH STREET
BUILDING DESIGN



Balconies overlooking onto semi-private and public spaces, Source: Ramsay Worden

2.1.10 BALCONIES

Intent: Balconies must be designed to enhance the layout of internal units, avoid overlook into adjacent units or buildings and provide visual connections to the surrounding public realm.

- A strong relationship should be created between the private and public realm by locating balconies and patios facing onto semi-private or public outdoor spaces.
- Patios and balconies should have direct connections to primary indoor living spaces wherever possible.
- Balconies should be integrated into the building mass or located below other balconies in order to have adequate weather protection.
- Railings and structure for balconies should enhance transparency and use minimal structure as not to obstruct views. The use of more opaque railing components (fritted or coloured glass, screening elements etc.) may be considered if privacy from neighbouring properties is an issue.
- Courtyard spaces should be provided when possible to create private or semi-private access to the outdoors. These semi-private outdoor spaces should be sited to act as a buffer between public spaces, and residential spaces.

2.1 UPPER TWELFTH STREET
BUILDING DESIGN

2.1.11 ROOFS

Intent: Roofs must be designed to fit with the architectural style of the building and maintain a clean appearance.

- Architectural elements and massing strategies should be used to screen mechanical and service equipment so it appears to be integrated with the overall expression.
- The surface of roofs should be finished with a material that is attractive and easy to maintain.
- Roofing materials and colours with a high albedo (e.g. materials that reflect heat energy from the sun) should be used to reduce the absorption of heat into the building and reduce the urban heat island effect.
- Landscaped roofs should be provided to manage runoff, add visual appeal, improve energy efficiency and reduce heat island effects, and provide amenity value.



Roof expression, Source: Mark Fairhurst Architects

2.1.12 WEATHER PROTECTION

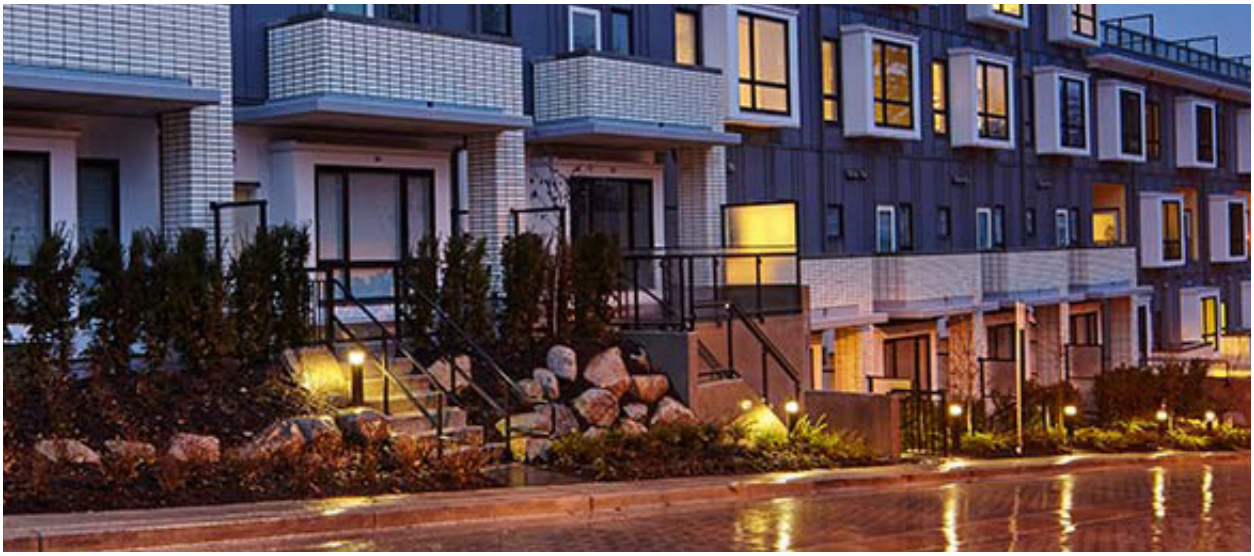
Intent: Given the local climate of prolonged rainy periods, landscaping and well-designed and appropriately scaled architectural elements must be used to provide shelter from precipitation, wind and direct sun.

- Weather protection should be provided over all residential entries, including those for main lobbies and individual units accessible at grade. This may take the form of overhangs, recesses, awnings, or canopies.
- Weather protection elements should fit with the architectural style of the development and use high quality materials such as glass, metal or similar materials to give a cohesive expression within the façade.
- Maintenance associated with elements for weather protection elements (i.e. avoid algae film or leaf build up on glass canopies, etc.) should be considered.
- The design of canopies should take water drainage into consideration (i.e. avoid water spillage between the building and canopy, particularly in pedestrian zones).
- Where historically appropriate, a heritage building or building designed to fit into a heritage context may not require weather protection.



Weather protection above building entrance Source: GBL Architects

2.1 UPPER TWELFTH STREET
BUILDING DESIGN



Ground floor residential units with sidewalk oriented lighting, Source: Porte

2.1.13 LIGHTING

Intent: New developments and the spaces around them must be well lit with energy efficient lighting elements that are well integrated into the design.

- All public and semi-private sidewalks and open spaces should be equipped with pedestrian scale lighting. Private residential entries at grade should also be provided with sufficient exterior lighting.
- Lighting fixtures should be unobtrusive and integrated into the design in a way that is consistent with the architecture of the building and its surrounding context.
- Minimize energy used in exterior lighting by considering energy efficient lighting (e.g. LED, solar-powered) and timers, motion or photo-activated lighting for all exterior areas, including walkways and driveways and for security lighting.

2.1 UPPER TWELFTH STREET
OPEN SPACE + LANDSCAPING

2.1.14 TREES + LANDSCAPING

Intent: New developments must integrate landscaping elements including trees, shrubs and ground cover to enhance public realm, improve air quality, absorb storm water and add to the city's tree canopy.

- Selection and placement of trees and other plant materials should be carefully considered within the city and neighbourhood context, as well as within microclimate conditions created by surrounding existing and planned buildings.
- Each development should use the BC Society of Landscape Architects' and BC Landscape and Nursery Association's "BC Landscape Standard Guidelines (Latest Edition)" in specifying, selection, site preparation, installation and maintenance of all trees and other plant materials.
- Wherever possible, retain and protect trees, vegetation, natural slopes and native soils and integrate these features into the overall landscape design.
- All new developments should integrate trees into their landscape plan. Distribute trees and landscaping throughout the site to soften and screen public/private boundaries, reinforce circulation routes, create pleasant pedestrian conditions and/or maximize shade and/or stormwater benefits.
- Landscaping between pedestrian pathways and loading areas, as well as between buildings and neighbouring properties and public roadways is encouraged.
- Deciduous trees should be located on the south and west sides of buildings to provide shade and minimize unwanted heat gain during summer and provide solar access and passive solar gain during winter.

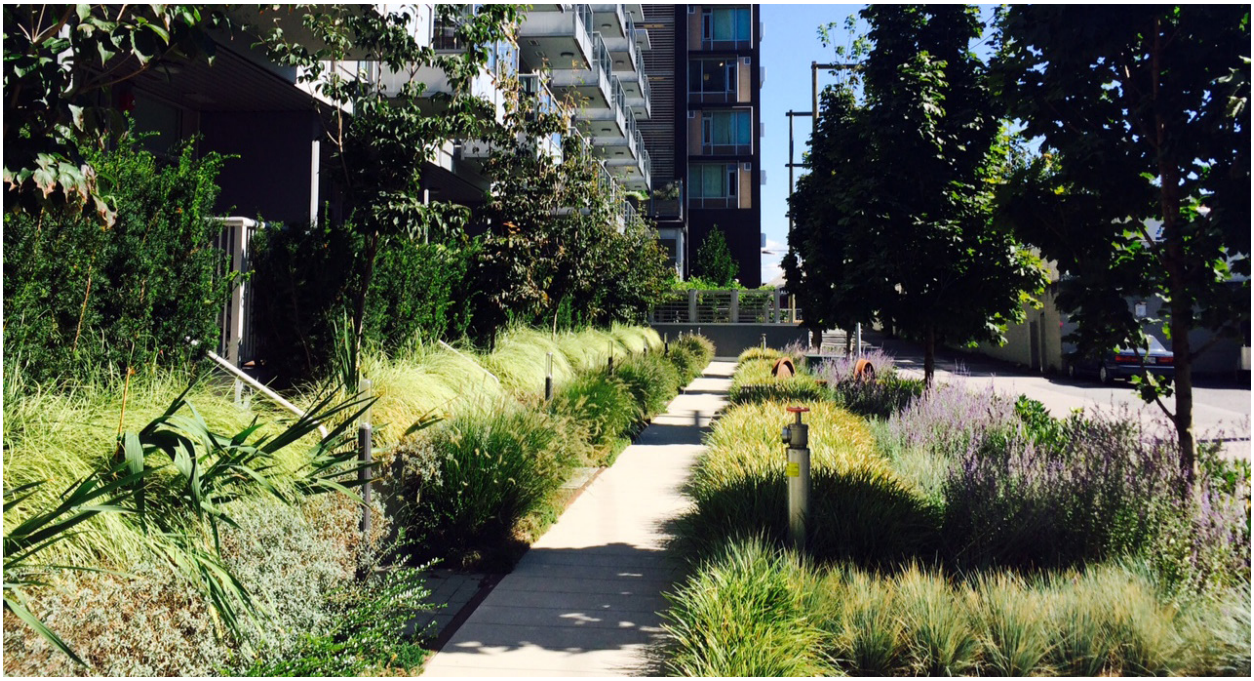


Provide trees for shading and screening, Source: PWL Partnership

INTEGRATED STORMWATER MANAGEMENT PLAN

The City's Integrated Stormwater Management Plan (ISMP) outlines & guides the planning of stormwater management initiatives for the City. The long term initiative of the Plan is to minimize runoff volume and to reduce the risks and consequences of pollutants in stormwater runoff entering the Fraser and Brunette rivers. The ISMP includes a set of runoff reduction and water quality targets. The ISMP also includes a Best Management Practice Toolkit that provides guidelines for a range of common tools that infiltrate, treat or detain stormwater. New development will be required to use one or more of these tools in order to meet the ISMP targets.

2.1 UPPER TWELFTH STREET
OPEN SPACE + LANDSCAPING



Rain garden integrated with public realm in front of residential building, Source: Perkins+Will

- Communal gardens and private balcony or roof gardens are encouraged to provide residents with space to grow food and interact with each other. Edible decorative landscaping is also encouraged.
- New developments should manage rainwater on site in a way that improves quality, diverts volume from conventional catch basins and meets the targets set by the City's Integrated Stormwater Management Plan. Rainwater on-site should be managed with designs that encourage infiltration, evapotranspiration and water re-use, including the creation of bio-retention areas, such as swales, rain-gardens, vegetated islands and overflow ponds.

URBAN FOREST MANAGEMENT PLAN

In recognition of the urban forest as a valued public resource at risk of decline, the City developed a city-wide Urban Forest Strategy that aims to shift the focus from individual trees in the city, to the protection and enhancement of the city's entire urban forest system.

The Strategy identifies a comprehensive set of 40 actions to reverse the current trend and increase the tree canopy cover from 18% to a target of 27% over the next 20 years. In order to achieve this, new development proposals must consider the Urban Forest Management Strategy and comply with the Tree Protection and Regulation Bylaw.

2.1 UPPER TWELFTH STREET
OPEN SPACE + LANDSCAPING



Rooftop courtyard spaces, Source: DIALOG

2.1.15 OPEN SPACE + TRAILS

Intent: Developments must integrate semi-private and private open space to improve quality of life for building residents, as well as enhance biodiversity and the overall quality of the neighbourhood.

- Balconies for above grade units and patios for ground oriented units should be provided.
- Semi-private outdoor common space for use by all residents should be provided, when appropriate. Orient private patios and entries around the semi-private common space to facilitate neighbourly interactions and provide overlook for children as they play.
- Roofs should be designed to provide usable outdoor space for building residents, when appropriate.
- Where units front onto public streets and/or city trails or greenways, the private outdoor space should be used to create a clear transition between public and private space. Design this area to be spatially well-defined and visible from the street or walkway (e.g. elevate slightly, enclose with low hedges or an open-railing fence).
- Outdoor common spaces should be designed to be programmable for inter-generational activities and uses. This might include benches or tables, a playground suitable for a variety of ages that is visible from residential units, landscaping and/or shared patio spaces.
- Each development adjacent to any trail or greenway, as identified on the Parks, Trails and Greenway Streets Map should design buildings to interface with the walkway and provide appropriate setbacks and transitions to ensure a comfortable public realm.
- High quality, interesting, and durable outdoor spaces that are easily accessible should be provided. Coordinate the design of all elements including lighting, paving, outdoor furniture, and garbage receptacles. The design of the common space should be integrated with the site and building.

2.1 UPPER TWELFTH STREET
OPEN SPACE + LANDSCAPING



Create opportunities for children to experience imaginative play and active play, Source: Holst Architecture

PUBLIC ART POLICY

The City of New Westminster has a Public Art Policy which lays out the foundation for creating a dynamic and engaging Public Art Program. The Policy aims to create a distinctive visual expression in the urban landscape and the public realm. The specific goals are to increase foot traffic on the street, animate New Westminster's historic downtown and draw attention to New Westminster as a vital municipality which promotes arts, culture and tourism.

New development may have the opportunity to provide art in the public realm as means to animate and focus attention into a space, allow the public to interpret the meaning of space, or as a way to transform functional elements, such as benches and utility boxes, into decorative elements.

2.1.16 FURNITURE + AMENITIES

Intent: New developments must aim to provide a range of amenities to enhance semi-public and semi-private spaces in and around the building.

- Seating is an essential component of a functional and inviting open space that allows places for pause, rest and relaxation. Seating options should allow for a variety of configurations (i.e. group seating vs. individual seating), options which take advantage of both sun and shade, as well opportunities for both fixed and movable furniture.
- Benches should be provided near pick up and drop off areas, and along extended pedestrian routes. Multi-functional elements may also be used to provide seating, such as steps, raised planters or retaining walls and grassy landforms.
- New developments adjacent to bus stops should provide benches or areas for seating and ensure that sufficient space is provided between the bus stop and built elements within the property line.
- Opportunities for children to experience cognitive and imaginative play as well as active play should be provided, when appropriate. Playscapes should encourage a range of activities and uses for children of all ages, as well as provide a balance between natural and built elements. These spaces should be strategically located to encourage casual supervision from adjacent residential units.
- Amenities should be designed and located to ensure that open spaces are not cluttered and pedestrian circulation is unobstructed.
- Amenities should be of a high quality and made of durable materials to minimize maintenance.
- Amenities should be provided for pets, in particular places for dog exercise and relief. Consider dogs when designing turf areas (grass sod can be trampled by frequent dog use) and drainage (granular material in planters can help).

2.1 UPPER TWELFTH STREET
ACCESS + PARKING



Pedestrian access with durable materials, unobstructed and even surfaces, Source: Weinstein A+U Architects

2.1.17 ACCESSIBILITY

Intent: All pathways, building entrances and site amenities in new developments must be accessible to people of varying ability.

- Access from the street to building entrances and walkways within the development should be universally accessible, with smooth, non-skid walking surfaces and gentle grades.
- Sidewalks and pathways should be a minimum 1.8m (5'11") wide with non-skid, uniform surfaces.
- Entrance ramps and lifts should be located in areas that are highly visible, easily accessible and connected to the sidewalk.
- Site furnishings (e.g. lighting, bollards, signage, guardrails, seating) should be located where they will not impede easy passage for those using a mobility device (e.g. wheelchair, scooter) or people who are visually impaired.
- Parking for persons with a disability should be located close to accessible building entrances.
- Light fixtures that emit white light (i.e. not orange light) should be used in all outdoor areas, as it facilitates better visibility.
- Where steps or a grade separation that creates a private outdoor space are provided, a secondary entrance that meets accessibility requirements should also be provided from a rear corridor or a rear yard.

2.1 UPPER TWELFTH STREET
ACCESS + PARKING



Setback and landscaping along laneway, Source: Unknown



Bike parking should be provided outside of new developments, Source: David Baker Architects

2.1.18 PEDESTRIAN + CYCLIST ACCESS

Intent: New developments must provide appropriate connections for both pedestrians and cyclists to ensure comfort, safety and visibility.

- Pedestrian circulation that connects between buildings and shared amenities, as well as links to public streets and greenways should be provided.
- Ensure safe circulation by distinguishing areas for walking and cycling from parking and vehicle traffic.
- The number of driveways and times driveways and/or internal streets cross sidewalks should be minimized. Provide lanes, wherever appropriate, for vehicle access to minimizes disruption to sidewalks, bike routes and on-street parking.
- The comfort and interest of pedestrians on the sidewalk and in public spaces should be provided for through lighting, wayfinding, and seating.
- Paving materials are an important aspect in the usability and quality of a space. These materials should be high quality and durable to provide safe walking surfaces for users, with special consideration for universal access.
- Entrances and edges should be emphasized, and pedestrian pathways should be delineated with high quality and decorative materials (e.g. stone pavers, brick pavers, coloured concrete). Where the open space is an extension of the public sidewalk, consider materials that are compatible with those that are typically found in existing patterns (e.g. a concrete sidewalk with a decorative paving band along the curb). Consider extending any special paving patterns of adjacent City parks or open spaces to promote the public nature of the space.
- Lanes and narrow streets should be pleasantly designed and safe by indicating an edge between the public street and private land.
- Short-term bicycle parking should be located in highly visible, well-lit, accessible and weather protected areas and at main entrances.

2.1 UPPER TWELFTH STREET
ACCESS + PARKING



Screened parking entrance, Source: DIALOG

2.1.19 VEHICULAR ACCESS + PARKING

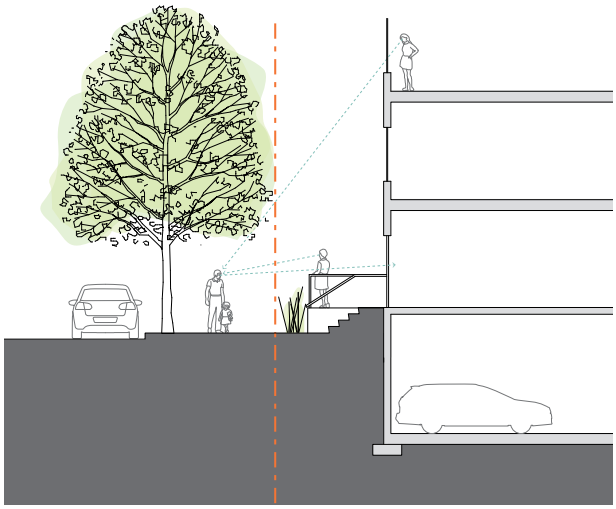
Intent: Vehicle parking associated with a development must be located and designed to reinforce a pedestrian oriented neighbourhood character and scale.

- Underground parking has far less impact than above grade garages and is recommended in all developments to reduce potential pedestrian and vehicular conflicts.
- Where below grade structures are not possible, above ground parking structures should be located behind active street level uses. Attention and detail should be given to the design of the structure, including incorporating decorative grating applied to any face of the structure fronting a street, creative use of colour and/or colourful landscaping.
- Underground parking has far less impact than above grade garages and is recommended in all developments to reduce potential pedestrian and vehicular conflicts.
- Adequate space should be provided for vehicles to pull in and wait at the parking gate while not obstructing pedestrian or vehicular movement and creating CPTED issues.
- Parking ramps should be positioned perpendicular to the street or lane, not parallel to streets.
- Ramps should be placed so that they are contained within the fabric of the building envelope.
- Parking should be accessed from a lane or secondary street and ensure a continuous pedestrian interface and neighbourhood quality on the primary street. Where lane access is available, access to parking areas or structures from a street will generally not be permitted.

[BYLAW NO. 8039, 2018]

- Infrastructure for electric vehicles for residential parking spaces are required to meet electric vehicle charging provisions in the zoning bylaw. Infrastructure for electric vehicles for visitor parking should also be provided.
- Infrastructure for electrical vehicles for commercial and institutional uses with more than 10 parking spaces, should provide an energized outlet Level 2 or higher for a minimum of one parking space for every 10 spaces, plus one space for additional parking spaces that number less than 10. In some cases, in addition to an energized Level 2 outlet, electric vehicle supply equipment may be required.
- Appropriately sized and conveniently located parking spaces should be provided in order to support transportation options such as carpools and cooperative car use.

2.1 UPPER TWELFTH STREET
SAFETY + SECURITY



Design residential units to provide casual overlook onto public spaces

2.1.20 PRIVACY

Intent: Buildings must be designed to clearly delineate between public and private spaces, while still creating visual connections to the surrounding public realm.

- The recommended building setback of 3.0m (9'10") minimum from the property line is to provide space for entrances into ground level residential units and private outdoor space for the occupants. This space can function as a porch, a patio, a deck, or a planting buffer from the street. The space should be elevated above street level slightly to provide some overlook and greater privacy for the residents.
- Residential façades should incorporate a high amount of transparency at street level. Where patios are located along the street front, they should be elevated slightly or may be screened with landscaping elements to provide a degree of privacy while still allowing street surveillance.
- Fencing and screening should be consistent with the overall site design and furnishings, and integrated into any landscaped areas.
- There should be no solid walls and solid fencing adjacent to private or public open space where safety and security is an issue. In areas where solid walls are unavoidable, care should be taken to ensure that materials and form fits within the architectural style of the larger development. Landscaping, screening and other architectural techniques can be employed to lessen the impact of solid walls or fencing. Chain link fencing will not be permitted.

2.1 UPPER TWELFTH STREET
SAFETY + SECURITY

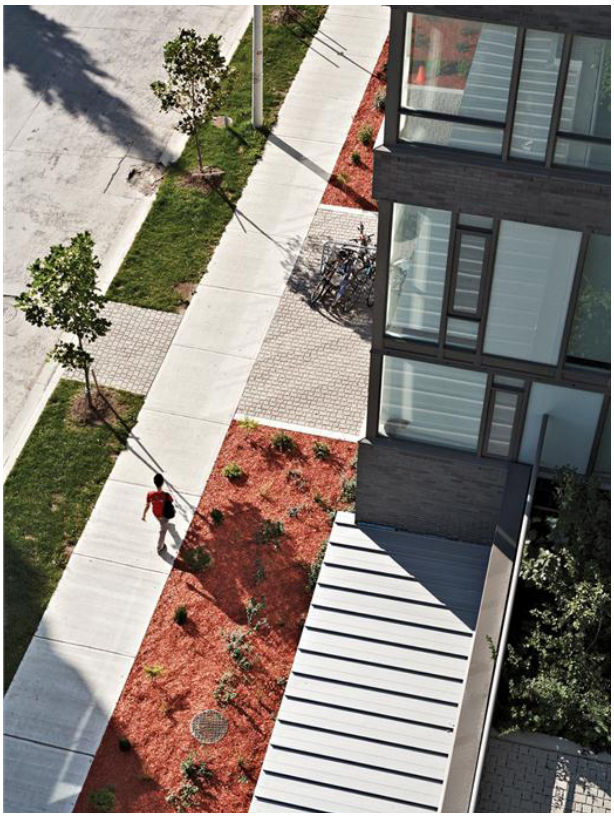
2.1.21 SAFETY

Intent: New developments must enhance personal safety and security through building siting, orientation and design.

- Each development should provide a Crime Prevention Through Environmental Design (CPTED) analysis outlining the use of CPTED strategies in the design of developments and buildings, including open space.
- Clear sightlines should be provided from within buildings to the entryways so occupants can clearly see outside before leaving the building. Design front entries so they don't create entrapment areas that are not visible from indoors.
- Opportunities for visual oversight should be provided from buildings onto adjacent streets or lanes, and shared open space within the development.
- All building entrances should be legible from the street. Use public realm elements such as pathways, pavements, gates, lighting and landscaping to guide the public to and from entrances and exits.
- Ownership and intended use should be clearly defined through obvious design cues such as low fencing, benches and paving patterns/materials.



Provide screening, changes in elevation and other measures to delineate privacy, Source: Mariko Reed



Create opportunities for overlook onto pedestrian spaces, Source: Canadian Architects

2.1 UPPER TWELFTH STREET
ENVIRONMENT

2.1.22 ENERGY CONSERVATION

Intent: Building energy performance must be optimized by employing passive strategies and where possible using energy from renewable sources.

- New buildings should use energy efficient heating, air conditioning and ventilation systems.
- Passive design principles should be used to lessen energy input to cool in hotter months and heat in colder months. Building energy consumption can also be reduced by encouraging use of alternative energy sources and the use of high quality durable materials with a long lifespan.
- The orientation and massing of buildings should maximize opportunities for passive solar heating and cooling, solar hot water and photovoltaics, and natural lighting and ventilation. Where possible, situate the long axis of major building elements in the east-west direction.
- Buildings should have units with exterior ventilation (operable windows) on two sides to encourage passive cooling through cross ventilation.
- Exterior shading devices should be used to manage heat gain from solar exposure. These may be adjustable, such as retractable canopies, or fixed, such as projecting roofs, deep balconies, light shelves, fixed fins and similar features into building design to shade during the summer but provide solar access in winter.
- Strategies should be used to facilitate passive heating in cooler months and reduce unwanted heat gain in summer months. A solar heat gain coefficient of 50% or better is encouraged for south or west facing windows to maximize solar gain during winter.
- Encourage glazing technologies that allow daylight penetration into buildings and minimize heat conduction (i.e. double or triple glazing).
- Where possible, install solar panels, wind turbines, geothermal pumps or other devices that generate renewable energy on-site. “Solar ready” design is encouraged to extend energy production later.
- Methods for improving building air tightness and overall thermal performance of the building envelope are encouraged.



Where possible, install solar panels, Source: Free Hot Water



Design with passive solar strategies, Source: Unknown

ENERGY CONSERVATION

The City of New Westminster is committed to energy conservation in building and design with a number of policies, plans and programs aimed at energy and greenhouse gas emissions reduction. ENERGY SAVE NEW WEST is a community energy program designed to improve the energy efficiency and reduce greenhouse gas emissions of residential homes and businesses in New Westminster.

2.1 UPPER TWELFTH STREET
ENVIRONMENT

2.1.23 WASTE MANAGEMENT

Intent: Building design, construction and operation must focus on reducing waste and promoting resilient materials and recycling efforts.

- New developments should provide on-site recycling and waste receptacles in locations that are adequately sized and convenient for collection and pick-up. The location of recycling, garbage and compost receptacles should be given thoughtful design to encourage the reduction of solid waste and promote sustainability within individual developments.
- Encourage the installation or provision of space for a multi-stream (compost, recyclable, waste) collection facility in all residential units and/or in common areas in buildings.
- The garbage/recycling/compost facility should be well located in a secure, well designed, screened area that is safely accessible by both residents and service trucks.
- Space should be provided to store bins when waiting for pick up to avoid bins being left on the street.
- The impact of odour from these areas should be reduced through careful location and an enclosed and properly ventilated design integrated within the building.



Encourage the installation or provision of space for a multi-stream collection facility, Source: City of Vancouver

2.1 UPPER TWELFTH STREET
ENVIRONMENT



Planting and landscaping can be used to screen noise, Source: GDB Architecture

2.1.24 NOISE

Intent: Buildings are encouraged to utilize noise abatement techniques to minimize impacts from adjacent transportation activities.

- Leading edge technical approaches to noise abatement should be used in residential building construction (e.g. fresh air ventilation alternatives to open windows, acoustically rated glazing) including on balconies (e.g. sound absorption materials and/or barriers).
- Each application to develop residential dwellings adjacent to truck routes or train tracks must provide a report prepared by persons qualified in acoustics and noise measurement, demonstrating compliance with CMHC noise standards for habitable areas (i.e. max. 35 decibels for bedrooms, max. 40 decibels for living dining and recreation rooms, and max. 45 decibels for kitchen, bathrooms, hallways and utility rooms).

2.1 UPPER TWELFTH STREET
HERITAGE

2.1.25 HERITAGE

Intent: Heritage elements must be recognized, preserved and enhanced to strengthen neighbourhood history and character.

- Each development must follow the Standards and Guidelines for the Conservation of Historic Places in Canada for all physical work to heritage assets.
- When possible, reuse historic artifacts on redevelopment sites.
- New materials should be harmonious with the historic context, and original materials should be maintained where possible.
- New construction should be compatible with adjacent heritage materials and complement any existing heritage pattern and scale of the streetscape by providing an appropriate transition between differing scales and heights of neighbouring buildings.
- New construction should respect and enhance the quality of neighbouring heritage buildings by using similar building proportions. The first storey will maintain a similar articulation to the heritage buildings on either side and upper storeys should respect or continue the decorative details and articulation of neighbouring heritage buildings.
- New buildings in proximity to heritage assets should be designed to be compatible with their historical context without literally imitating older building styles. In these cases, new buildings should provide an original interpretation of the traditional building style (i.e. draw inspiration from fundamental design characteristics) while continuing to reinforce traditional development patterns and rhythms.



Interpretation of historical motifs, Source: Perkins+Will

HERITAGE REVITALIZATION AGREEMENT

A project including a heritage asset may be able to take advantage of conservation tools such as a Heritage Revitalization Agreement (HRA). This tool is a site specific agreement that provides long-term legal protection of a site in exchange for agreed-upon variations to the Zoning Bylaw. This could include incentives, such as an increase in density or reduced parking requirements, which would make it viable to conserve assets with heritage merit. The terms of an HRA strive to balance private with public interests, heritage conservation with livability and housing choice.

2.1 UPPER TWELFTH STREET
SIGNAGE



Signs should add to the interest of the buildings and respect the historic character, Source: Sirin, Pinterest

2.1.26 SIGNAGE

Intent: Provide signage that is clear and visible without being visually obtrusive.

- Signs should be designed to be consistent with the architectural style, scale and materials of the development and its surrounding context.
- Signs should be integrated into the detailing of the building, but subordinate to the overall building composition.
- Signs should be visible from the street without being visually obtrusive. Signs should be designed so that the size, location and information is oriented to pedestrians.
- Signs should add to the interest of the building and respect the historic character of the area, and not create visual clutter.

DPA MAP 2.0 RESIDENTIAL CORRIDORS

DEVELOPMENT PERMIT AREAS

See Development Permit Areas in Schedule D. Queensborough Community Plan

See Development Permit Areas in Schedule C. Downtown Community Plan

Residential Corridors Development Permit Areas

- 2.1 Upper Twelfth Street
- 2.2 Sixth Street

[BYLAW NO. 8151, 2019]