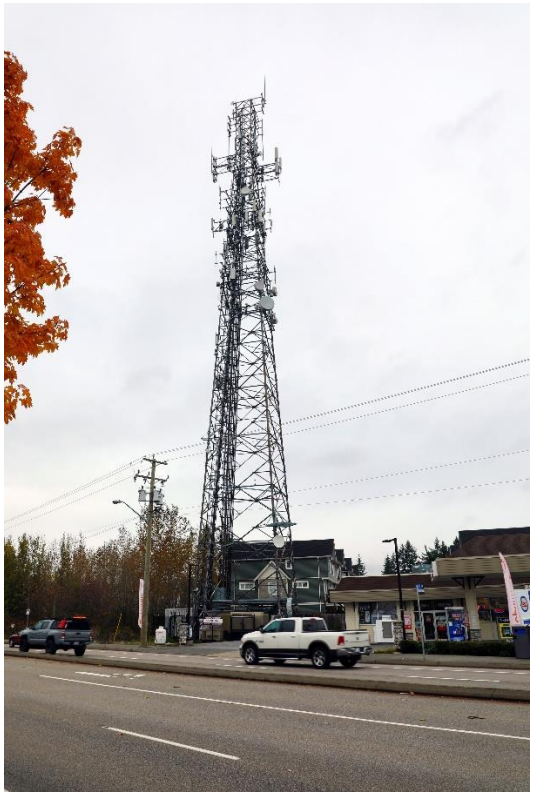
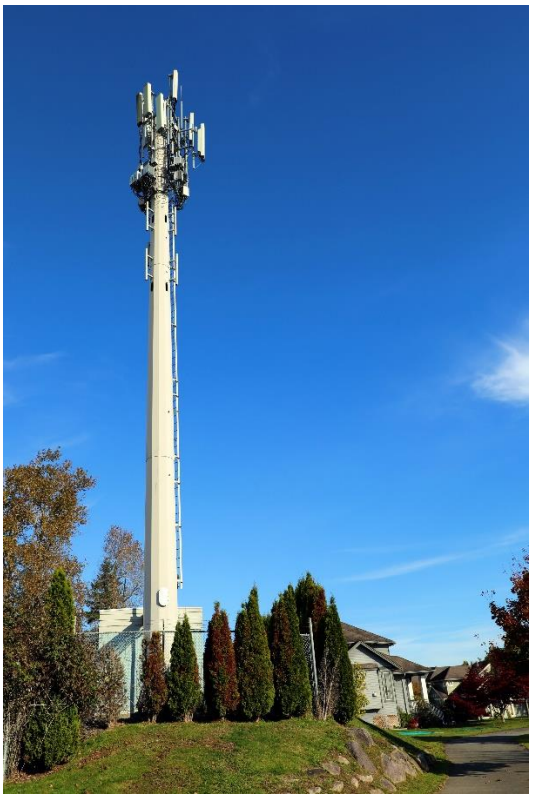
Visual Glossary

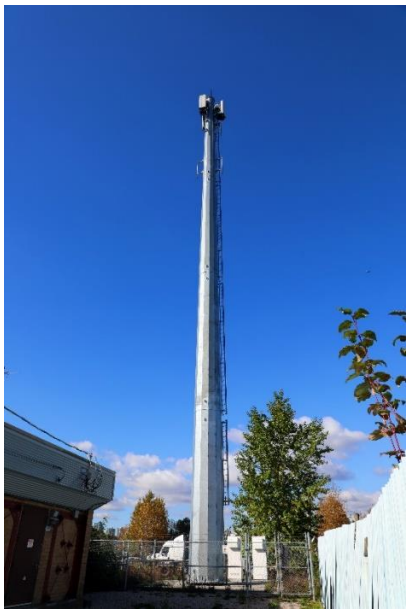
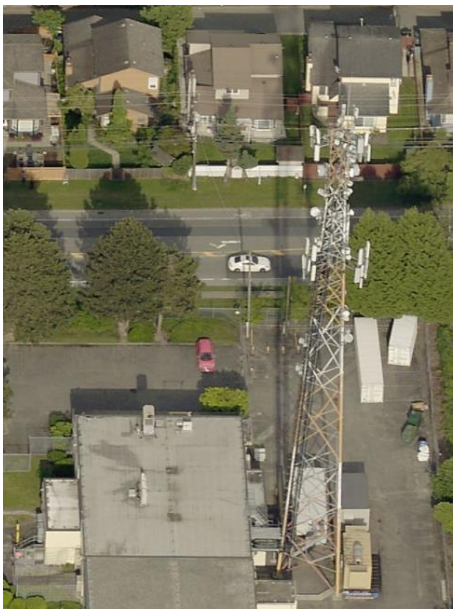
v20210106

The following visual references provide samples of City of Surrey preferred and discouraged Antenna System designs and locations.

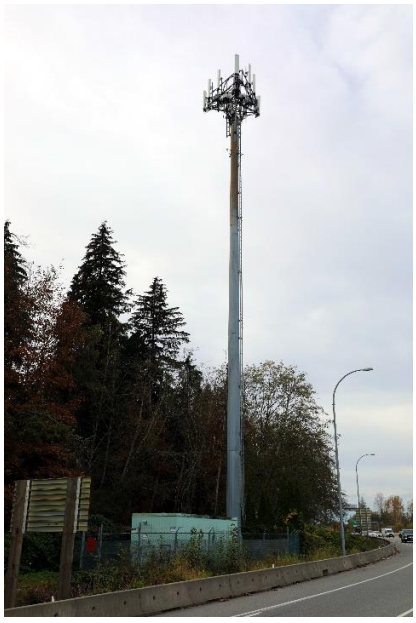
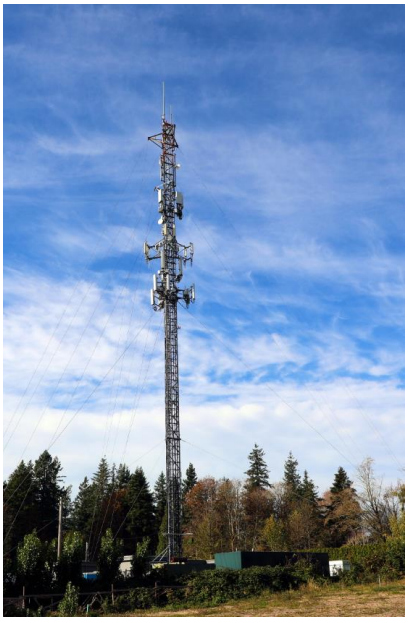
Discouraged Locations

Discouraged	**Discouraged**
	
This Antenna System with lattice style supporting structure is located immediately along an arterial and Frequent Transit Network making it highly visible.	This Antenna System is situated too close to a Residential Area and has no effective landscape screening.

Monopole Tower vs. Lattice Tower

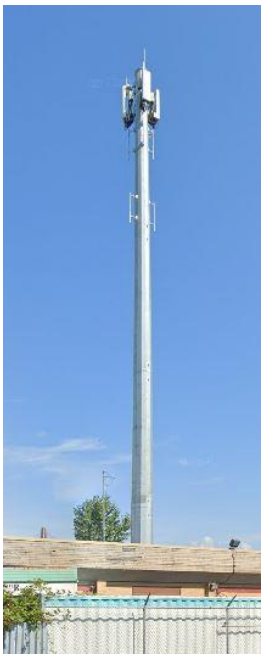
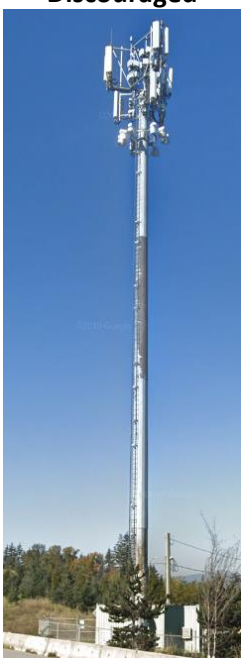
Preferred	Discouraged
	

Monopole Tower vs. Guy wire Tower

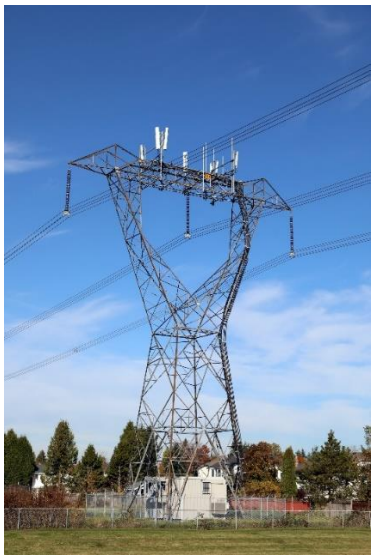
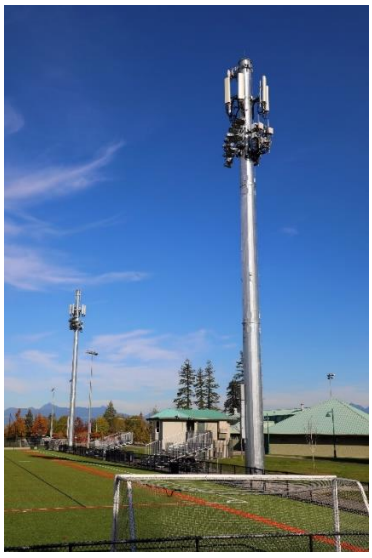
Preferred	Discouraged
	

Monopole supporting structures are preferred as they are visually less obtrusive than a lattice tower or guyed tower. Guyed towers have an impact on the function and safety of the surrounding area. Monopole with pinwheel antenna mount provides coverage above treed area while minimizing height.

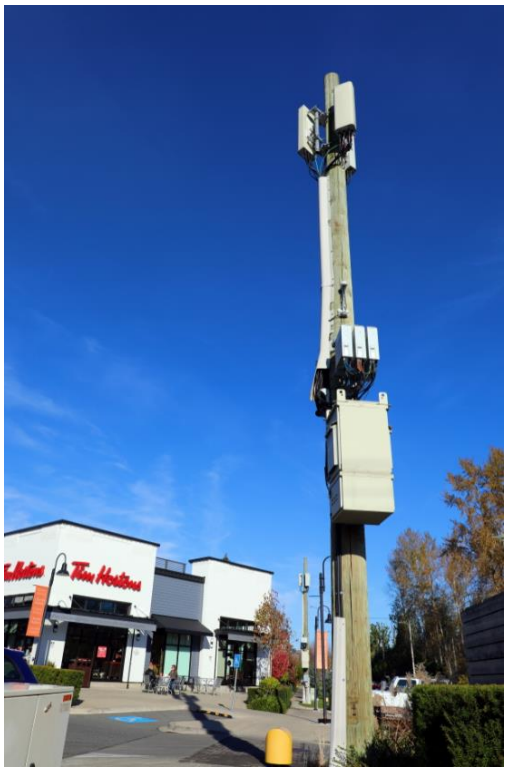
Monopole Antenna Mounting: Flush-mounted vs. Pinwheel

Preferred	Discouraged
	
Flush-mounted antennas on monopoles are preferred as they are more visually pleasing.	Pinwheel telecommunication antennas are discouraged but may be considered in specific circumstances (co-location needs, treeline clearance, etc.).

Using Existing Infrastructure / Adapting Infrastructure

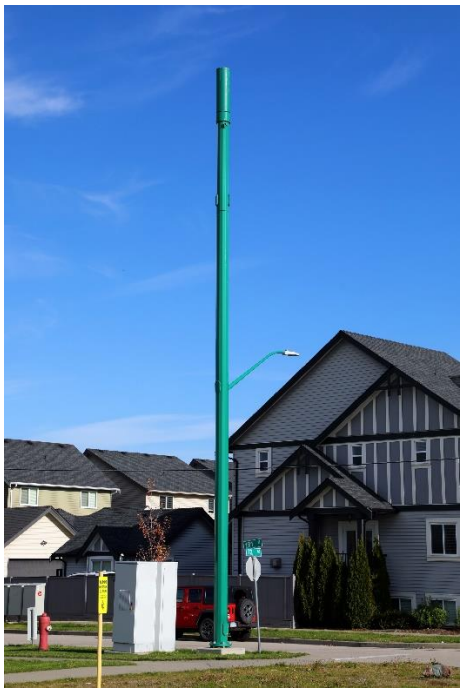
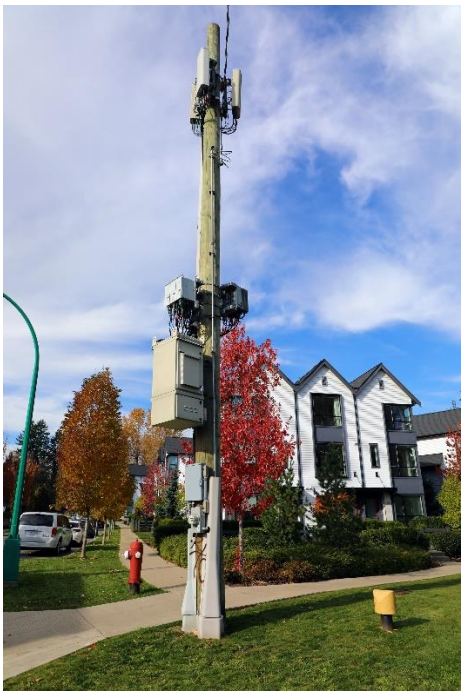
Preferred	Preferred
	
Using existing infrastructure such as transmission towers for telecommunications antennas is preferred.	Adapting necessary infrastructure such as field lights to accommodate telecommunications antennas is encouraged.

Monopoles in Parking Lots: Shrouded Poles are Preferred

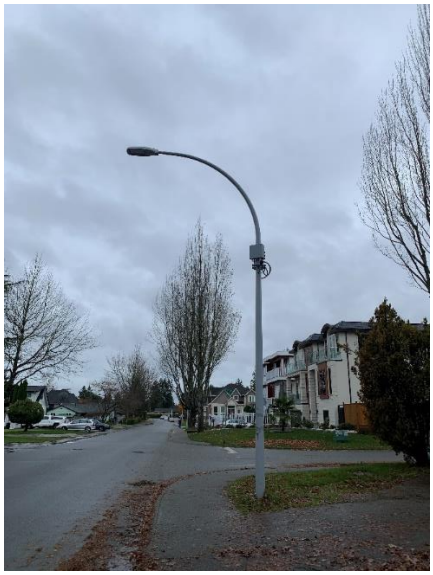
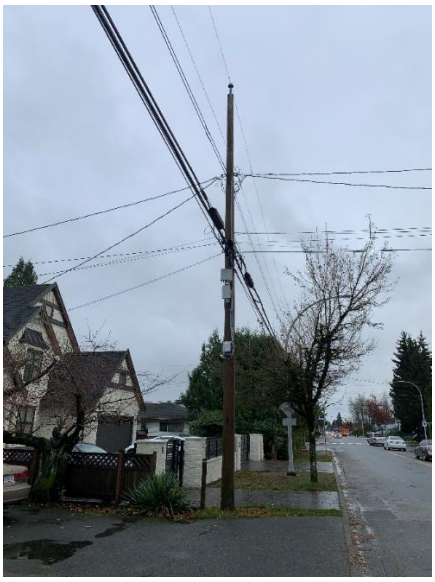
Preferred	Discouraged
	

For higher people traffic areas such as shopping locations, integrated shrouded parking light poles are preferred as they are more discreet. Antennas that extend above the top of a supporting light standard should appear (e.g. in colour, shape and size) to be a natural extension of the pole.

Preferred Streetlight Pole Over Utility Pole

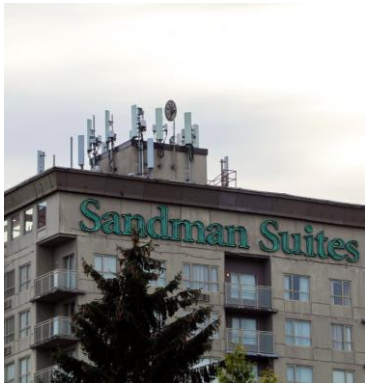
Preferred	Discouraged
	
The shrouded antenna is a more discreet and preferred approach. New supporting structures in residential areas should consider multi-use design to enable placement of antennas in combination with street lighting.	Mounting multiple antennas and equipment on a pole created visual clutter and is strongly discouraged in or near residential areas.

Small Cells (microcells)

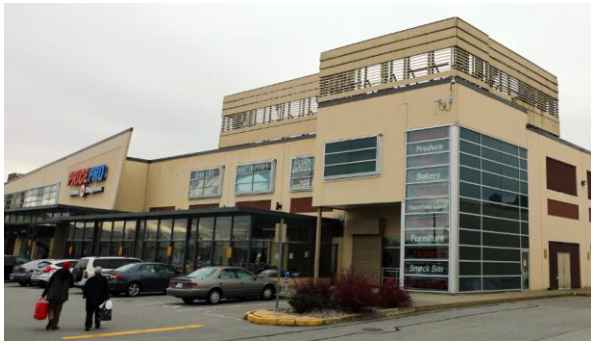
Preferred	Preferred
	
Small cell antenna attached to streetlight poles is a preferred option.	Small cells attached to utility pole is a preferred option.

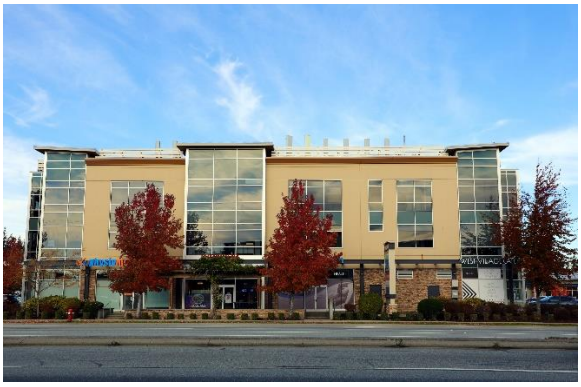
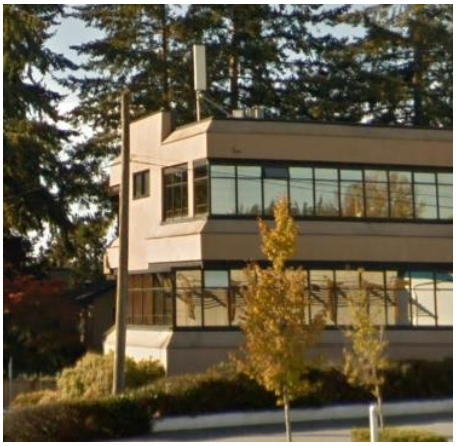
Small cell antennas are discrete and less visually distracting than larger Antenna Systems. Small cell antenna attached to streetlight poles or utility poles are suitable for placement in Residential Areas.

Rooftop Equipment Screening

Most Preferred	Discouraged
	
The most preferred example has simple, discreet screening that is colour-matched with the building.	While setting antennas on elevator penthouses is a supported approach, this example demonstrates roof clutter. There are too many antennas that are fully sky-lined causing a visual distraction.

Rooftop Equipment Screening

Preferred	Discouraged
 Screening antennas is preferred. This screen would be more visually effective without the void space. Aligning it with architectural features (e.g. on the left side) would make the design less visually distracting.	 Placing antennas along a roof edge without a setback or a screen is strongly discouraged.

Preferred	Discouraged
 Screening antennas is preferred. This screen is visually effective. Using a colour from the building could make it more discreet.	 Placing antennas along a roof edge without a screen is strongly discouraged.