



WINTER ROADWAY MAINTENANCE

CITY OF LLOYDMINSTER POLICY	Effective Date: November 12, 2013
Title: Winter Roadway Maintenance	Revised Date:
Policy No: PW 02-13-23200	Origin/Authority: Director, Public Works
Department: Public Works	Adopted by: City Council

PURPOSE

The purpose of this policy is to set winter snow and ice control service levels to provide for a safe and reliable roadway network.

1. DEFINITIONS

- 1.1 Arterial Roadways: Those roadways with the highest traffic volume.
- 1.2 Alleys: A narrow roadway providing access to the rear of buildings and parcels of land.
- 1.3 As Required: A statement that service will not be limited to a preplanned number of work occurrences per year. It allows operating forces to apply field judgement and expertise to varying weather conditions.
- 1.4 Assigned Collectors: The roadways that are elevated to Priority 1 status for strategic or emergency access purposes.
- 1.5 Bare Pavement: Refers to a snow free condition in the driving lanes of roadways. Bare pavement shall be no more than 2 cm of snow cover on the roadway surface.
- 1.6 Blade Snow: Light blading of snow or compacted snow and ice to maintain a level snow pack and make roadways passable or to level ruts.
- 1.7 Boulevard: The area between the shoulder or curb of a roadway and a separate sidewalk, trail or walkway.
- 1.8 Collector Roadways: Those roadways that carry vehicles between arterial and residential roadways.
- 1.9 Highways: Includes Highway 16 and 17 within corporate limits.
- 1.10 Days: Includes those hours between 6:00 am and 10:00 pm.
- 1.11 Nights: Includes those hours between 10:00 pm and 6:00 am.

- 1.12 Local Roadways: Roadways that provide direct access to residential and commercial properties.
- 1.13 Roads: Public roadways that are so designated in the City of Lloydminster Geographic Information System (GIS) road classification map and/or Land Use Bylaw.
- 1.14 Road Salt: All de-icing agents that promote the melting of snow and/or ice.
- 1.15 Sanding: The application of abrasive materials and road salt to a roadway surface to improve traction, reduce skidding or reduce ice formation.
- 1.16 Snow Plow: The pushing of accumulated snow from the roadways surface either to the sides of the roadway or the center of the roadway in order to maintain no less than one vehicle lane in each direction.
- 1.17 Snow Removal: The complete removal of windrowed snow from established routes to a snow storage site.
- 1.18 Snow Ridge: The row of excess snow formed by plowing roads, alleys, or sidewalks.
- 1.19 Windrowing: The plowing of snow into a long continuous pile for storage or to facilitate removal.

2. OBJECTIVES

The performance and end condition objective outlined by this policy include the following underlying assumptions:

- That the operational activities are being undertaken during a typical weather event during a typical winter season. The City acknowledges that Lloydminster may be subject to extreme or extraordinary weather which may diminish the City's ability to achieve the policy objectives within the stated time frames.
- The activities detailed herein attempt to reduce hazardous roadway conditions caused by winter weather; however, the City acknowledges that weather conditions are beyond the City's control and dangerous conditions may nonetheless result despite the City's efforts.
- That winter road safety is a cooperative activity between users of the roadways and the City. The City expects that users of the roadways will exercise reasonable care for their own safety when travelling the roadways during winter conditions.

- 2.1 Normal winter driving conditions are provided on priority one and two routes through systematic plowing and sanding operations.
- 2.2 Residential and low volume routes are made passable through plowing operations.
- 2.3 Snow clearing is provided on City pathways in some parks and connecting walkways and in open spaces which are typically in the vicinity of recreation areas.

3. RESPONSIBILITIES

- 3.1 The Manager of Roadway Services shall be responsible for the overall implementation and coordination of all winter maintenance operations.
- 3.2 Wherever the term "Manager of Roadway Services" is used, it is intended to mean either the Manager of Roadway Services or any person who may be designated to act on his/her behalf.
- 3.3 The Director of Public Works is responsible for the maintenance and updating of this policy.

4. LEVEL OF SERVICE

4.1 Normal Winter Maintenance

The City will provide normal winter maintenance at the following levels of service:

Roadway Classification	Time	Frequency
Priority One		
Highways	Day or Night	To commence after a major snowfall (> 5cm) and is to be completed within two (2) days
Arterials	Day or Night	
Assigned Collectors	Day or Night	
Priority Two		
Collectors	Day or Night	To commence after completion of Priority One. Will complete as soon as possible*
Alleys	Day or Night	As Required
School Zones	Day or Night	As Required
Central Business District	Day or Night	As Required; Typically above 10 cm
Residential (Local)	Day	As Required; Snow plow/removal; Typically once per year
Commercial/Industrial (Local)	Day or Night	As Required; Snow plow/removal; Typically once per year
Special Events & Parades	Day or Night	As Requested
Sidewalks & Trails – Priority One	Day or Night	To be completed within 72 hours of snowfall
Sidewalks & Trails – Priority Two	Day or Night	To commence after completion of Priority One. Will complete as soon as possible

**Priority Two streets may not be completed late in the season once Residential (local) operations commence.*

4.2 Severe Snowfall Event

A severe snowfall response can be initiated at the discretion of the Manager of Roadway Services. This severe snowfall response can be initiated if there is a snowfall event that threatens the mobility of the roadway network. The focus of this severe snowfall response will be to restore immediate mobility, not to address roadway capacity. Windrowing of snow in strategic locations may be implemented to facilitate restoration of mobility.

4.3 Residential & Commercial/Industrial (Local)

The snow will be plowed into the boulevard. Snow will be removed from streets that do not have a boulevard. Typically snow removal/plowing operation on residential and commercial/industrial (local) streets occurs once per year near the end of the season. The objective is to complete this operation as late as possible and prior to spring thaw.

4.4 Snow Ridges

Snow Ridges are the responsibility of the property owner to clear. City crews will attempt to remove as much of the snow ridge as possible during regular operations, however, our capacity to fully remove snow ridges in major snow events is limited.

4.5 Sanding and Road Salt

Sand and Road Salt will be applied to Priority 1 and 2 streets on an on-going basis to provide a safer driving surface. Application of Sand and Road Salt to all other Roadways will be completed on an "as needed" basis. Application frequency is at the discretion of the Manager of Roadway Services.

5. EFFECTIVENESS

After each operation season, the Manager of Roadway Services will conduct a review of the previous season's operations. This review shall include recommendations to the Director of Public Works for additions, deletions or amendments to this policy.

6. PUBLIC RELATIONS

Residents are asked to report concerns regarding winter maintenance operations to the online Report a Concern feature at www.lloydminster.ca.

A map illustrating the roadway classifications pursuant to this policy will be maintained and uploaded to the City website on an annual basis.