

# **Purpose**

Best practices for snow and ice management is critical for business continuity and to ensure safety for patrons, tenants and employees. Knowing how to describe your service requirements in a snow and ice management request for proposal (RFP) is difficult, particularly when the nature of the industry and winter weather is so variable.

This document organizes the snow and ice management service procurement process to aid in the creation of RFPs, contracts, and monitoring procedures.

# **Terminology and Definitions**

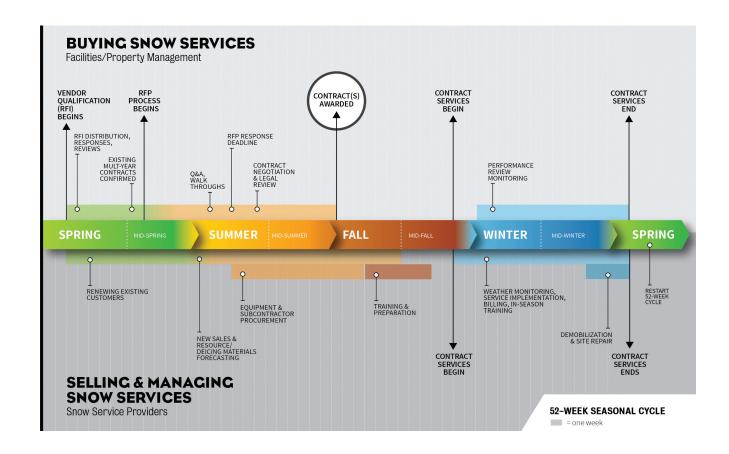
This document utilizes the Snow & Ice Management Standard Glossary of Terms, published by SIMA at www.sima.org/glossary. We encourage facility management professionals to utilize the Glossary as a complementary tool when using this document to build a complete and realistic RFP.

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# **Recommended Procurement Timeline**

SIMA has created a comprehensive Best Practices Timeline for Snow Procurement. Seek to align your RFP process and subsequent qualifying and hiring of a service provider with the timeline. It will provide more security, better quality, and more time to finalize a contract before winter weather strikes.



# **Section 1: Creating a Level of Service (LOS)**

**Level of Service (LOS):** A description of the expected outcome(s) on a site or set of sites from the completed performance of snow and ice management services. Level of Service typically defines expectations for surface conditions at specific times (completion times) or timeframes, or alternate/additional expectations for events that exceed a defined timeframe and/or a defined amount of accumulation(s). Often referred to as a Service Level Agreement.

For most facilities management (FM) professionals, the RFP would focus on a LOS related to clearing snow from roadway, parking lot and sidewalk surfaces and/or keeping surfaces clear of ice and safe for vehicle and pedestrian traffic. However, each client will have expectations specifically related to the site(s) being serviced that must be clearly communicated in the RFP.

The LOS can be a standalone section of an RFP or the information can be presented throughout sections of an RFP. Minimum expectations to outline in your LOS should include:

- 1. **Description of Outcomes**: Clearly define the end result expected from your snow and ice management service provider. Examples: "Passable walkways to one inch or less of accumulation" or "50% of paved surface visible/regained by 10 a.m. for majority of road lanes," etc.
- 2. Accumulation: Define the trigger forecast that identifies when services should be dispatched or accumulation threshold(s) that define the upper limit of accumulation acceptable on a site. Include any scenarios in which triggers/thresholds may change, taking extended/severe weather events into consideration.
- 3. **Timeframes:** Identify completion time(s) for areas of the site, taking into account key hours in which patrons frequent the site, employee/shift changes, and timing-related variables, including delivery times, major events to consider, etc.
- 4. **Service priorities:** Identify sections or areas of the site that must be cleared first (e.g., sidewalks in front of the store, handicap stalls, delivery ramps clear by 7 a.m., etc.). These descriptions should be communicated clearly with no ambiguity about relative importance related to other areas of the site. Define priority areas/timing that must serviced regardless of weather conditions.
- 5. **Post-storm requirements:** Identify services that you expect to occur after the event (e.g., ice monitoring related to drifting snow and melt/refreeze; additional clearing; snow stacking or hauling; rooftop snow removal). Consider adding expectations in the event of severe/extended weather events.
- 6. **Initiation of additional service:** Define clearly who makes the call to initiate any additional services (e.g., additional deicing, etc.) and any associated parameters.

# **Section 2: Scope of Work (SOW)**

### **Site Assessment Criteria**

A quality snow management service will make reasonable efforts to review the size and complexity of the site. However, it is not always feasible for a contractor(s) completing your RFP to physically visit the site and review all variables that could impact service (unless you require them to do so in your RFP).

### Basic criteria for site assessment

- **Egress routes/major exits**: Are there obstructions or visibility issues (signs, corners, buildings, etc.) that may cause an issue during winter weather? Are there egress routes that should be prioritized?
- **Access**: Are there locked gates, security areas, operating hours or other issues that would restrict access to a site?
- **Site map**: A quality site map can yield detailed and critical information that is not always available via web-based maps or visual inspections by a contractor, including:
  - Property boundaries included in scope
  - Areas identified for stacking/piling snow and ice
  - High priority areas

### Other areas to review

### **Environment and sustainability issues**

- Proximity to local rivers, streams, lakes, groundwater wells, etc.
- Local or state environmental regulations related to private and public surface and groundwater
- Sensitive parks, refuges, or reserves near a site

### **Architectural and design issues**

- Structures that might create adverse conditions when covered in snow and ice (e.g., overhangs across an entrance, speed blocks, etc.)
- Parking lot obstructions, slopes or drainage issues
- Damaged or subpar areas of a structure or site (e.g., drainage spout near sidewalk entrance, damaged concrete, etc.)



**REVIEW APPENDIX 1:** Scope of Work and Level of Service Criteria

**REVIEW APPENDIX 5:** Site Engineering Best Practices Map

## **Building a Scope of Work (SOW)**

Scope of Work (SOW): Defines the service criteria (e.g., snow clearing, ice management, etc.) and specific areas to be serviced on a site or set of sites. The SOW can include any issues that may impact the execution of service (e.g., poor site drainage, slopes/hills, etc.). Synonyms: Statement of Work, Statement of Services. Related term: Level of Service.

#### Main SOW areas to document

#### **Areas of Service**

Map the boundaries of the site(s), or service areas so that it is clear what portions of a site the contractor is responsible for servicing. This is especially important if multiple contractors will be on site.

### **Acceptable Services**

This section should include a list of services that can be used to execute the contract (e.g., snow plowing, snow removal, etc.). These terms are very specific and should be understood before adding to a SOW. Refer to the Glossary of Terms for full definitions:

- Snow Clearing
- Snow Relocation
- Snow Removal
  - Snow hauling
  - Snow storage
- Snow Melting
- Snow Stacking
- Roof Snow Management
- Deicing
- Anti-icing
- Ice Monitoring

### **Site Inspections and Planning**

- Identify party responsible for creating a site engineering plan that will include priority areas, snow stacking and equipment/salt staging sites, etc.
- Define criteria to include in site engineering plan
- Include any areas/priorities/needs identified from site assessment
- Identify party responsible for preseason and postseason inspections
- Define if the provider is responsible for installing marking stakes as well as for removal and timing of removal

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- Define if the provider is responsible for any damage not identified with preseason pictures and/or documented during a preseason walkthrough
- Schedule postseason site inspections between site management and service provider within 30 days from end of contracted season
- Document damage and necessary repairs. Define timeframe when repairs are expected to be completed

### Material use

- Identify the associated chemicals/compounds that are accepted in moderate levels on the site, as well as those that are not acceptable due to site-specific structural or environmental sensitivities
- Determine and outline whether materials can be stored/staged on site

### **Equipment requirements**

- Identify any specific equipment that you require or specify types of equipment that are NOT acceptable on site if appropriate
- Outline whether you require dedicated equipment (onsite 24/7) and if it is acceptable to stage equipment on site



**REVIEW APPENDIX 1:** Scope of Work and Level of Service Criteria

**REVIEW APPENDIX 5:** Site Engineering Best Practices Site Map

**REVIEW:** Glossary of Terms at www.sima.org/glossary

# **Clarifying Level of Service vs. Scope of Work**

There is a great deal of confusion between LOS requirements for a site and the actual SOW. This visual is designed to clearly differentiate between them. Full definitions are in the SIMA Glossary of Terms.



















# **Section 3: Terms and Conditions**

### **Documentation and Technology Requirements**

It is essential that any procurement process include a rigorous review and final communication of documentation required for billing and risk management. This includes:

- General site documentation and recordkeeping, known as a Service Report. At a minimum, the report should include why service was initiated, what services were performed and by what methods, who performed the service and when. Typical reports will include:
  - 1. Name and location of site
  - 2. Operator(s)/account manager(s) on site
  - 3. Equipment on site
  - 4. Date of service
  - 5. Time of service (start and end times)
  - 6. Conditions of physical site upon start of service (snow and ice specific)
  - 7. Condition of physical site upon completion of service (snow and ice specific)
  - 8. Weather-related conditions or circumstances
  - 9. Services rendered
  - 10. Deicing materials applied (types and amounts)
  - 11. Notes/special circumstances or conditions
  - 12. Photos
- Site or customer-specific documentation requirements, which could include:
  - 1. Signed sheets from store managers verifying service
  - 2. GPS or other electronically-created verification of services with a third-party software system
  - 3. Weather reports from verified weather forecasting service
- Billing requirements
  - 1. Level of detail required in invoices for service
  - 2. Timeframes for invoice submissions, if applicable
- Technology requirements
  - 1. If there is specific work order system, invoicing system, documentation portal or other reportingrelated technology requirement that all service providers must agree to use



**REVIEW APPENDIX 3:** Service Verification Best Practices

### **Fee Structure Selection**

There are multiple fee structures used in the North American private snow and ice management industry. The selection of a fee structure for a multi-year contract should be undertaken with care and not solely based on one recent season. Some of the main fee structures include:

Per-Event Service: A fee structure where agreed upon fees are assessed for a defined set of services each time an event has occurred. In this case, the parameters of an event are outlined in the contract and are typically restricted by specific timeframes and specific conditions, typically including amount of accumulation (range of inches/centimeters), ice events, and extreme conditions.

Per-Occurrence Service: A fee structure, in which agreed upon fees are assessed each time a salt application, snow clearing or both is completed. This fee structure can result in multiple billable services performed during one Event. Synonyms: Per Push/Per Salt, Per Visit, or Per Application.

Per-Season Service: A fee structure in which agreed upon fees are assessed as a standardized fee (typically monthly) paid over the period of the contract for a defined set of services. Synonyms: Seasonal, Lump Sum, Fixed Fee.

Time & Materials (T&M): A fee structure where agreed upon fees are assessed based on the amount of time (labor and equipment) and materials (deicers, sand, stakes, etc.) used, and any other contractually agreed upon services.

### Fee Modifiers

In addition to the fee structures in the marketplace, modifiers can be added to help share financial risk between the client and the contractor, including:

Cap: A fee modifier wherein an upper limit, typically a frequency or measurement (e.g., number of occurrences or number of inches) modifies specific service fees. After the cap has been reached, additional fees or increased costs apply. Typically associated with Per-Season Service. Synonym: Ceiling.

Floor: A fee modifier wherein a discount, credit or fee adjustment is implemented if a lower limit or amount (e.g., number of occurrences, number of inches, etc.) is not reached during a specified duration of service (month, season, etc.). Typically associated with Per-Season Service. Synonym: Minimums.

Inclusion: A fee modifier typically associated with Per-Season Service, in which all materials to conduct the work, including deicers and sand, are included in the overall price of the service, generally with no Caps. Synonym: All-inclusive.

# **Accountability and Monitoring**

Managing service implementation is the key to success. Identify the core performance measures, methods and metrics that may be used to oversee accountability and control of service, including but not limited to:

- Feedback from on-site personnel can provide critical insight into service issues or challenges. Providing the LOS and SOW to on-site managers/employees is critical, since personal expectations on a site are often higher than contractually agreed upon.
- Documentation controls: Proactively review invoicing procedures, documentation of service, and communication of challenges or concerns.
- Definitions: Make sure that there is complete clarity in LOS, SOW, and contractual language.
- Service controls, including:
  - Decision-making: Identifies which parties (and any associated individuals/positions) have control over service levels, in relation to initiation of service, continuing service and new services. Examples: 1. Store manager on duty able to request additional services (e.g., request additional sidewalk deicing) 2. Snow service provider(s) able to provide additional services without request in order to meet LOS.
  - Communication process: Identify the flow of communication between related parties before, during, or after service, including dealing with the following:
    - · Service failure
    - · Emergencies or injuries on site
    - Complaints



**REVIEW APPENDIX 3:** Service Verification Best Practices

### **Contractual Terms and Conditions**

- Compensation. Decide how preparedness and performing the SOW will be compensated, including scheduled installment payments, per occurrence payments, etc.
- Service begins/ends date. What is the start and end date of the agreement? What happens if services are required before the start date or after the end date?
- Compliance. What federal, state and local laws/regulations must be met for a particular site or portfolio of sites?

### Liability

- Slip and fall liability
- Property damage: Who is responsible for preseason assessments and postseason repairs?
- General liability terms: Indemnification, hold harmless clauses, etc.
- Final review: Are the terms and conditions of liability fair and balanced for all contracted parties?

### Non-compliance

- Define what non-compliance means, including response/ timeliness, quality and invoicing/cost.
- Define how non-compliance issues are remedied.
- Define repercussions if compliance issues are not remedied, including penalty terms and/or contract termination.

Due to the nature and danger of snow and ice, your RFP and procurement process should align with best practices. It should also be fair and balanced for all parties. Here are the best practice recommendations tied to managing risk effectively and sharing accountability:



### Best practices for snow industry risk management and shared accountability

- Clearly identify communication plan between all contracted parties (including customer, aggregator, service provider, subcontractors).
- Clearly define who has the authority to make decisions on deicing applications, sidewalks deicing and snow clearing, any additional services, and the ceasing of any services during an event.
- Execute in writing any changes, additions, or cessations to contracted services by those identified contractually as having the authority to do so. Should be executed with liability waivers or associated liability adjustments appropriate to the request.
- Notify contractor in writing of snow/ice conditions that need addressed or have become hazardous.
- Use caution signage in key areas to communicate potentially slippery conditions. Clearly identify in agreements which party is responsible for erecting signage.
- Require damage assessments prior to season.
- Immediately notify all parties in the communication chain of any snow/ice-related incident or accident.
- Require proof of insurance and specifically required policy information such as Snow Riders requirement (CG 2292, etc.), umbrella policies, etc.
- Contractor should only be liable for negligence by omission or error in service. Requiring the service provider to accept full indemnification creates an imbalance in risk and may be illegal in some states.

# **Payment and Billing**

Clarity on payment conditions, terms, billing requirements, and timing of payments should be identified upfront, and can be useful in the RFP process, qualification process, and final contracting agreement.

Snow management represents a unique challenge for all parties, since winter weather varies in its severity and timing. Billing and payment methodologies need to reflect the fee structure (Section 5), and not be beholden to the changing weather. However, there are some best practices that should be embedded into the procurement process for snow, as follows:

- Readiness/Retainer Fees: Readiness fees or down payments on service prior to start of services will help a professional snow service provider gear up for the season, train employees, procure the needed people and materials, and more.
- Seasonal contracts: Typically, these payments are broken into equal payments (contract lengths may vary due to geographic location and market drivers), not including any fee modifiers, floors, ceilings, etc.
- Billing: Clearly communicate requirements for Net Due terms (e.g., 30 days net), along with any necessary parameters on when invoices should be sent and by what method (e.g., e-mail, mail, portal, etc.).

### **Cessation of Snow Services**

Failure to pay can result in cessation of services on a snow service contract. Third-party management companies are often responsible for coordinating and paying the service providers physically managing snow on a site; any agreements with management companies should consider non-payment issues and planning.

Contractual agreements should reflect a fair and balanced methodology for cessation of service due to lack of payment.

# **Methodology**

The project started in September 2016 at the SIMA Think Tank event, where facility managers and snow contractors convened and spent several hours discussing in mixed groups and audience-specific groups (e.g., facility managers or snow managers only). Each group generated answers to standardized questions related to Scope of Work, Level of Service, and general procurement issues. Those answers were organized, refined and served as the basis for the creation of the first draft of this guideline and its associated appendixes. From there, SIMA underwent a review process that included recruiting 19 stakeholder reviewers representing snow service providers/contractors (both national and local/regional), facility managers, insurance, and suppliers. Over 100 comments and recommendations from stakeholders were received and individually reviewed by SIMA, and a final draft was delivered to stakeholder reviewers for final comment prior to publishing. Overall, this document has incorporated the insight of 19 facilities/property manager participants and over 50 snow contractors.

SIMA Best Practices Oversight & Methodology

### **SIMA's Best Practices Commitment**

Open Access: The guide is available to all industry stakeholders at no cost, regardless of whether they are members of SIMA.

Education: SIMA is spearheading educational partnerships and communication programs to help all parties adopt best practices in snow procurement.

Comprehensive: The guide was reviewed by a large group of stakeholders, including many from the facilities management industry. Other stakeholder groups included snow contractors, grounds management, insurance, and more.

Quality Control & Transparency: The guide is a living document, and suggestions, recommendations, or concerns can be submitted online at www.sima.org/BestPractices. All comments submitted to SIMA will be reviewed and vetted by a group of stakeholders.

# **Snow Management RFP Cheat Sheet**

L	evel of Service (SEE PAGE 4)
	Clearly defined outcomes of end result(s) from snow services
	Accumulation triggers/thresholds defined
	Extreme scenarios considered
	Completion times/time frames outlined
	Priorities identified and documented on site engineering plans
	Post-storm requirements or services outlined (hauling, etc.)
	Decision-making power for additional services defined
	Use of Best Practices for Level of Service Criteria (Appendix 1)
S	cope of Work (SEE PAGE 5)
	Site engineering plan outlining boundaries, priorities and snow stacking locations
	Use of SIMA Best Practices for Scope of Work Criteria (Appendix 1) to identify key site variables to
	inform the bidding process
	Acceptable services identified
	Deicing material restrictions identified (if any)
	Outline permissions related to staging equipment/materials on site
	Outline whether dedicated equipment is required on site
Te	erms and Conditions (SEE PAGE 9)
	Site verification/documentation requirements included (Appendix 3)
	Technology requirements/items communicated
	Fee structure(s) clearly identified (per season, per event, etc.)
	Fee modifiers considered (caps, floors, etc.)
	Payment/billing procedures consider readiness/preparedness and cessation of services
	Contract language considers slip and fall liability, property damage, and non-compliance
	Contract language represents fair/real-world shared risk management between business partners (Appendix 4)

# **Appendix 1: Scope of Work and Level of Service Criteria**

SCOPE OF WORK CRITERIA	Recommended in RFP?
Site engineering plan/map (stacking, plowing routes, stockpile locations, salt bins, priority areas, sloping, etc.)	Recommended
City code compliance required best practice	Recommended
Deicing restrictions or directions (chemical requirements/prohibitions, etc.)	Recommended
Hours of operation, employee hours, staff entrances	Recommended
Site square footage	Recommended
Subcontracting permissions or prohibitions	Recommended
Facility type (commercial, industrial, retail, etc.)	Recommended
Preseason damage assessment	Recommended
Preseason meeting required	Optional
Noise ordinances	Optional
Shared walkways and responsibility between tenants	Optional
City/public throughway responsibility	Optional
% of sidewalk vs. asphalt vs. concrete	Optional
Overall volume of patrons (estimated)	Optional
Specialty or recommended equipment or restrictions	Optional
Deicing product requirements or restrictions	Optional
Loading docks identified	Optional
Ingresses/egresses identified	Optional
Adherence to SIMA Sustainable Salt Use Best Practices (through Operations Level 1)	Optional

LEVEL OF SERVICE CRITERIA	Recommended in RFP?
Service verification/documentation requirements	Recommended
Priority service areas	Recommended
Critical delivery times for goods and services	Optional
Non-service areas identified	Optional
Refreeze treatment requirements	Optional
Off-site snow removal requirements	Optional
Pre-treatment (anti-icing) permissions	Optional
Hauling requirements	Optional
Roof shoveling services	Optional
Geographic ranking of priority sites (for RFPs requesting bids on many sites)	Optional
Sidewalk triggers vs. parking lot triggers	Optional
Planned snow storage location(s) on site	Optional

# **Appendix 2: Best Practices Checklist** for Snow & Ice Management

- **ESTIMATING & PLANNING:** ☐ Implement a formal preseason training program for field operations and managers (e.g., techniques, general safety, site/route ☐ Utilizes a verifiable estimating system/tool to verify capacity specifics, service verification, and company policies), including related to size of site completion documentation ☐ Production capacity planning based on company-☐ Define a consistent communication plan for dispatch of perestablished production rate guidelines, cycle times, and resource allocation projections ☐ In-season site/route inspections monitor operational processes ☐ Process includes client sign off on agreed-upon level of service, including site priorities and timing ☐ Assign a consistent manager/foreman with experience (1-year minimum) and/or snow-specific training (8-hour annual mini-☐ Preseason physical site inspection and staking process mum) to each route/site ☐ A consistent communication plan that includes ☐ Subcontractor procurement process includes verification of multiple points of contact on each side exists required resources, including quality equipment and capacity, between the client and service provider people, materials and insurance ☐ Procurement of materials, subcontractors and equipment aligns with Best Practices for Selling Snow Services procure-SERVICE VERIFICATION: ment [Purchasing ☐ Implement a documented verification process Snow & Ice Management Guide - Appendix 6B] (e.g., site visit/work completion logs) ☐ Recommended level of service requirements and overall scope ☐ Utilize electronic reporting and location verification systems of work properly conveyed to operations team [Purchasing (e.g., IVR, GPS, automated vehicle location, mobile application) Snow & Ice Management Guide - Appendix 1] ☐ Conduct post-service inspections to verify and document service completion **ENVIRONMENTAL MANAGEMENT:** ☐ Provide post-event communications to clients ☐ Follow local/municipal regulations for storage of deicer materelated to weather and services rendered ☐ Follow Recommended Best Practices for Service Verification ☐ Implement Sections 1, 2 and Section 3-Level 1. [Purchasing Snow & Ice Management Guide - Appendix 3] [SIMA Best Practices for Sustainable Salt Use] ☐ Awareness of deicing/abrasive material, proper application rate and storage impacts on fresh water resources **SAFETY & RISK MANAGEMENT:** ☐ Have proper insurance coverage, including snow-specific **EXECUTION & COMMUNICATION:** requirements such as snow riders (i.e., CG 2292), umbrella policies, etc. ☐ Training process for operations team to understand contractual ☐ Use a documented site engineering plan to verify where to level of service requirements and overall scope of work agreed to in the sales process [Purchasing Snow & Ice Management]
- **Guide** Appendix 1]
- ☐ Pre-event communication to customers regarding upcoming event and planned response
- ☐ Documented snow response planning process for various storm scenarios
- ☐ Documented snow site engineering plan verifies priority areas and zones (e.g., handicap zones, fire exits and hydrants, drains, etc.) and areas for snow relocation
- ☐ Deicing materials for 3-5 regional storm events are kept in inventory at all times. Inventory includes deicing products for variable temperatures. Identify multiple sources for deicing materials procurement in case of supply challenges.
- ☐ Operations comply with <u>ASTM Standard F2966</u> Standard Guide for Snow and Ice Control for Walkway Surfaces
- ☐ Define a weather monitoring process, which may include third-party outsourcing

- properly locate snow to prevent thaw and refreeze hazards and line-of-sight issues
- □ Documented safety program and policies, including incident reporting process, ongoing education, training and implementation (e.g., tailgate talks, perimeter inspections, safety equipment and PPE)
- ☐ Parking lots and sidewalk clearing methods and policies adhere to ADA compliance guidelines, including ADA Title III - 28 CFR Part 36.304 (Priorities for Accessibility) and 28 CFR 35.133 & 28 CFR 36.211 (Maintenance of Accessible Features)
- ☐ Contractual agreements align with Best Practices for Snow Industry Risk Management and Shared Accountability [Purchasing Snow & Ice Management Guide - Appendix 4]

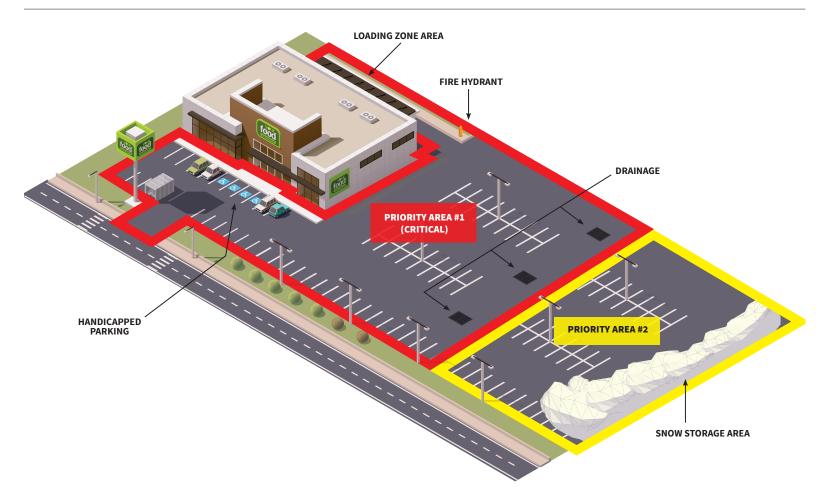
# **Appendix 3: Service Verification Best Practices**

SERVICE VERIFICATION CRITERIA	RECOMMENDED BEST PRACTICE?
Before/after service photos	Recommended
Third-party weather source (validating snowfall, etc.)	Recommended
Service start time	Recommended
Service stop time	Recommended
Weather/site conditions - start of service	Recommended
Weather/site conditions - end of service	Recommended
Services performed on site	Recommended
Equipment on site	Recommended
Preseason/postseason property check for damage	Recommended
Deicer application - Product type(s)	Recommended
Operator(s) on site	Optional
Deicer application - Quantity applied	Optional
GPS or electronic timestamp	Optional
Pavement surface temperature (on site) – start of service	Optional
Pavement surface temperature (on site) – end of service	Optional
Video (dash cameras, pre- or post-service video, etc.)	Optional
Video security cameras (managed/owned on site by property owner)	Optional
GPS geofencing	Optional
Management verification (signoff by customer)	Optional
Call/text service (IVR)	Optional
FM daily inspection	Optional
Third-party app or software entry (required of the service provider)	Optional

# **Appendix 4: Best Practices for Snow Industry Risk Management and Shared Accountability**

- Clearly identified communication plan between all contracted parties (including customer, aggregator, service provider, subcontractors).
- · Clearly defined who has the authority to make decisions on deicing applications, sidewalks deicing and snow clearing, any additional services, and the ceasing of any services during an event.
- · Any changes, additions, or cessations to contracted services must be executed in writing by those identified contractually as having the authority to do so, and should be executed with liability waivers or associated liability adjustments appropriate to the request.
- Written notifications from facility to contractor related to snow or ice conditions on a site that need to be addressed or have become hazardous.
- Use of caution signage in key areas, communicating potentially slippery conditions. Identify clearly in agreements which party is responsible for putting signage out during slippery conditions
- Damage assessment required prior to season.
- Immediate notification to all parties in the communication chain of snow or ice related incident or accident.
- Proof of insurance, and specifically required policy information such as Snow Riders requirement (CG 2292, etc.), umbrella policies, etc.
- Contractor should only be liable for negligence by omission or error in service. Requiring the service provider to accept full indemnification creates an imbalance in risk and may be illegal in some states.

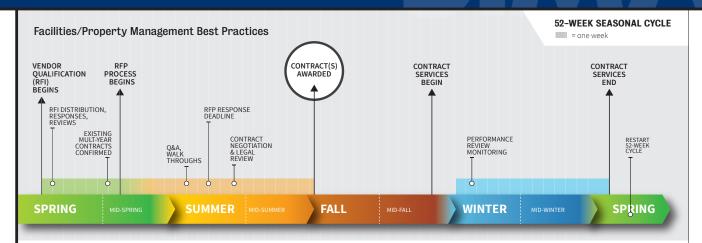
# **Appendix 5: Site Engineering Best Practices Site Map**



Download this full-sized map at www.sima.org/BPsitemap

# **Appendix 6a: Buying snow services**

# **BUYING SNOW SERVICES | DETAILED TIMELINE**



#### **CONTRACT NEGOTIATIONS & LEGAL REVIEW**

- Use SIMA's Snow & Ice Management Standard Glossary of Terms (www.sima.org/glossary) while finalizing snow & ice contracts to ensure clarity of specific terms.
- Ensure that both parties the buyer and the service provider have time to review and propose changes to any contract, with shared liability and clarity of roles in mind.
- Final contract should include a snow-specific Level of Service (LOS) that describes the expected outcome on a site(s) from the completed performance of snow and ice management services.
- The LOS can be a standalone section of an RFP or be presented in throughout the RFP.

#### **SERVICE CONTRACT BEGINS**

 Ensure contracted service begins at least 2 weeks prior to the typical start of winter in a given area, to account for early winter storms.

#### CONTRACT(S) AWARDED

- Consider a minimum 3-year contract with exit clause for both parties. This will help ensure consistency and account for potential weather volatility in a given season.
- Award contracts no later than the start of fall. A good rule of thumb is prior to September 1. Ideally contracts are awarded in late summer to account for the need for significant sourcing needs of snow service providers (subs/materials/equipment).

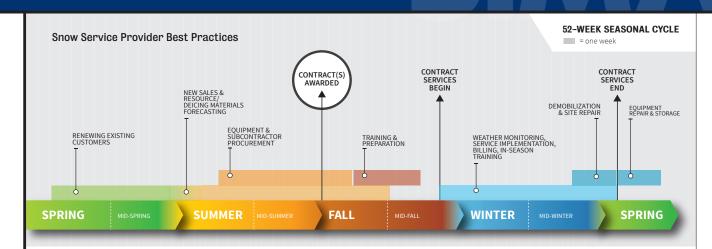


YOUR SOURCE FOR SNOW & ICE MANAGEMENT LEADERSHIP

www.sima.org/bestpractices

# **Appendix 6b: Selling snow services**

# SELLING SNOW SERVICES | DETAILED TIMELINE



## **EQUIPMENT, MATERIALS & LABOR PROCUREMENT**

- Recommended that service providers consider committing 50-75% of required deicing material supply for toward the end of summer. This can help secure supply and manage costs.
- Labor-specific items to address include hiring, recruiting subcontractors, training, and orientation; insurance coverage (workers' compensation, subcontractor certificates of insurance, etc.); promotions/wage increases changeovers; and defining staff and management roles.

#### **DEMOBILIZATION/SITE REPAIR**

• Demobilization and site repair should end when the contract service date ends, prior to a new procurement cycle.

#### **CONTRACT NEGOTIATIONS & LEGAL REVIEW**

 Any signed agreement should include a clause that the service provider will inspect the site and document any existing damage for which their company is not responsible.

#### **TRAINING & PREPARATION**

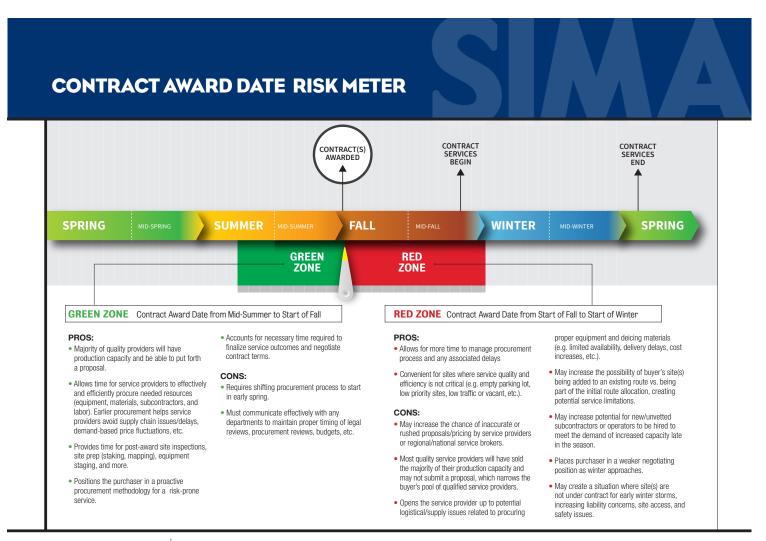
 This should include site inspections, finalizing site engineering plans, snow staking, route building and documentation, equipment staging (prior to contract start), preseason safety and refresher training, dry runs/equipment rodeos, seasonal kickoff meetings, subcontractor meetings, etc.



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# **Appendix 6c: Contract award date risk meter**





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# **Recognition/References**

This guide would not be possible without the input and participation of many people, including all attendees of the 2016 SIMA/PRSM Think Tank. Those individuals created a strong base for our stakeholder review process to ensure that the guide and its associated best practice recommendations consider the challenges and needs of all parties engaged in procurement of professional snow and ice management services.

#### Stakeholders:

Mark Schlutt, CSP, ASM — MAAC Property Services Chase (Chayim) Lando — Y and L Landscaping Marjean Pountain — Pountain Partners Tom Crawford — Mariani Landscape Jeremy Swenson, CSP — Swenson Consulting Kevin Knippenberg, CSP — Brightview David Wescott, CSP — Transblue Tom Hougnon — Reliable Snow Michael Voories, CSP — Brilar David Gallagher Patrick Noggle — Winter Services Inc. Gary Mahura — Tiger Calcium Bill Webb — Arthur J. Gallagher Insurance Joseph Walton — Glenhaven Snow Joe Giandonato — Merit Service Solutions Rick Smith — Mass Mutual Bob Rush — Sterling Management Stephanie Garman — Walmart Rob Epperly — HCR Manor Care

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Kaitlyn Wollum — Event Planning, 2016 Think Tank Phill Sexton, CSP, ASM — Subject Matter Expert Brian Birch — Project Lead Cheryl Higley — Editing/Content Review Ellen Lobello — Editing Lisa Lehman — Design