



## Asset Management and Technology


### Public Works Street Division






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## Public Works Street Division

### Overview



- Street Maintenance** - Maintaining approximately 3,500 lane miles of streets in Sioux Falls
- Winter Maintenance** - The control of snow and ice on all city streets.
- Storm Response** - Assist in response to storms that significantly impact citizens and areas affected.

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## Street Maintenance

### Activities

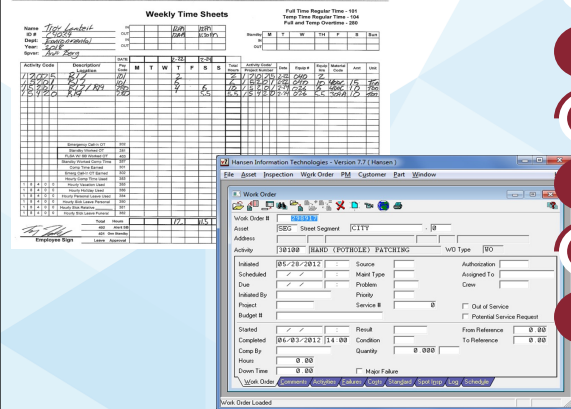
- Asphalt Issues
- Concrete Repair
- Gravel Roads
- Milling
- Overlay
- Potholes
- Service Cuts
- Slurry
- Sweeping





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## Street Maintenance

### Potholes



- 01 Citizen called in Pothole
- 02 Office Staff Printed Pothole for Field Staff
- 03 Field Staff filled Pothole
- 04 Office Staff Closed Pothole
- 05 Field Staff Log data paper timecard
- 06 Office Staff input Electronically



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### Street Maintenance

#### Potholes

- 01 Citizen Reports Pothole
- 02 Field Staff Fill Pothole
- 03 Filed Staff Log Data Electronically

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### Street Maintenance

#### Pothole Dashboard

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### Street Maintenance

#### PCI Analysis

**Informed decisions based on Data**

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### Street Maintenance

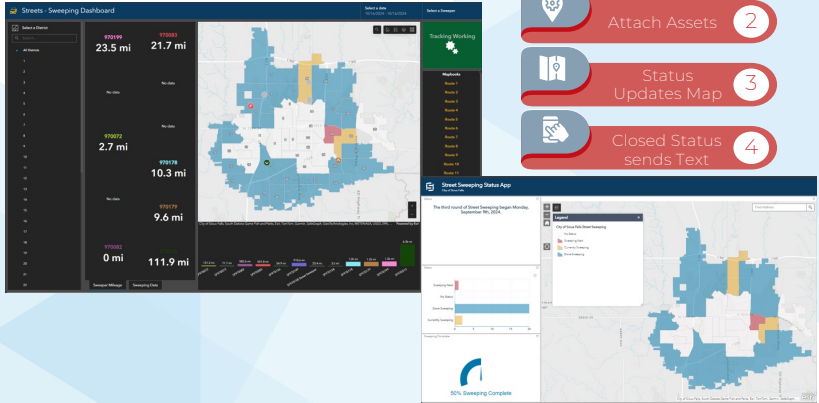
#### Sweeping

- 9,000 Curb Miles Swept
- 1.8 M Water Used
- 795 Loads Hauled
- 3 Citywide Sweepings Complete

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### Street Maintenance Sweeping Dashboards



- 1 Create Work Orders
- 2 Attach Assets
- 3 Status Updates Map
- 4 Closed Status sends Text

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### Winter Maintenance Activities

- Anit-Icing
- De-Icing
- Hauling
- Plowing
- Sanding
- Sidewalk Snow Removal



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### Winter Maintenance Snow Alert

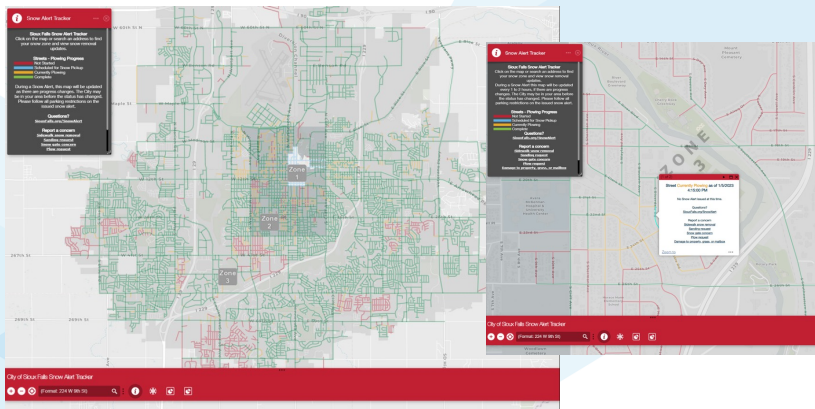
|                    |   |
|--------------------|---|
| Zone 1             | Downtown is picked up from 1 am to 6 am   |
| Zone 2 North/South | North/South streets always begin at 8 am  |
| Zone 2 East/West   | East/West streets always begin at 8 pm    |
| Zone 3             | The rest of the city outside Zone 1 and 2 |




- Snow Alert NOT always declared
- Leadership evaluates multiple factors
- Focused on Emergency Routes first
- Goal of plowing all streets within 48 hours

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### Winter Maintenance Snow Alert Tracker

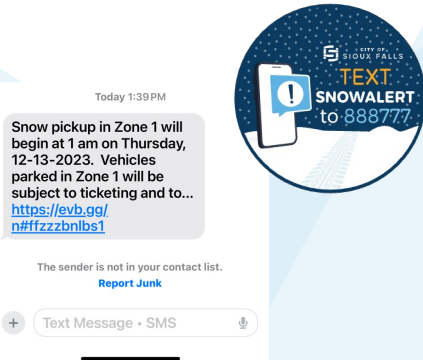


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## Winter Maintenance

### Snow Alert Communication




Today 1:39 PM

Snow pickup in Zone 1 will begin at 1 am on Thursday, 12-13-2023. Vehicles parked in Zone 1 will be subject to ticketing and to...  
<https://evb.gg/n#ffzzbnlbs1>

The sender is not in your contact list.  
[Report Junk](#)

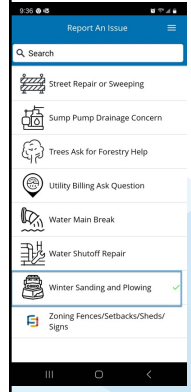
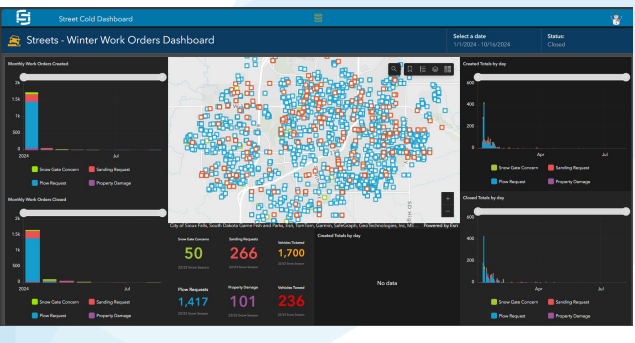
+ Text Message • SMS




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## Winter Maintenance

### Citizen Requests

- Citizen Reports Issue
- Field Staff complete Issue
- Citizen Notified Issue Complete
- Real Time Dashboard



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## Storm Response

### Activities

- Blizzards
- COVID
- Derecho
- Floods
- Ice Storms
- Tornados





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## Storm Response

### Ice Storm 2013

- 90,000 people without power
- Majority of City Parks closed for weeks
- Over 55,000 tons of tree branch debris
- Removed 25,758 hanging branches
- Ground 1,383 stumps
- Final cost around \$8 million





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### Storm Response Tracking on Paper

Delayed Data  
Labor Intensive

The image shows a 'Weekly Time Sheets' form with columns for days of the week (M, T, W, T, F, S, S) and rows for various employees. Below it is a 'LABOR RECORD' form with columns for equipment reference number, employee name, job class, date, and hours worked. The table lists employees like Blair, Donald; Balsien, Troy; Balk, Troy; Barnett, William; Benson, Corbath; Blanz, Cathleen; Brown, David; Brown, Joseph; Brown, Sonya; and Bunk, Jeffrey.

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### Storm Response Technology

Collaboration among departments

The image displays a software interface for 'Work Order Dashboard' with filters for 'Type' (Emergency, Routine), 'Group' (Emergency Response, Maintenance), and 'Activity Description' (Clear & Remove). It also shows a 'Work Order Dashboard' with a grid of work orders and a 'Details' view for a specific order. Photos of storm damage, including a large tree stump and a tree with a large hole in its trunk, are shown alongside the interface.

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### Storm Response FEMA Reporting

The image shows several FEMA reporting forms, including 'FEMA Form 900-1 (Rev. 10-2013) Incident Report' and 'FEMA Form 900-2 (Rev. 10-2013) Incident Report'. The forms contain fields for incident details, equipment used, and personnel involved.

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### Storm Reporting Dashboards

Reporting

Logged almost 1,200 Storm Work Orders throughout Summer

Quickly had cost estimates available for reporting


The image displays two dashboards. The first dashboard shows 'Total Work Orders' as 113, with a bar chart and a map of work order locations. The second dashboard shows 'Open Work Orders - Emergency Status' as 74, with a bar chart and a map. A legend for 'Reference' includes symbols for Blocking Road, Personal Injury, Property Damage, Tree Down, Split or Leaning, Hanger, Branches, and Type Not Assigned.

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Thank you for your time. Any questions?



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