

**State Planning and Research Program  
Quarterly Report**

**PROJECT TITLE:** *Synthesis of Technical Requirements and Considerations for an Automated Snowplow Route Optimization*

**OBJECTIVES:** Improve the capacity of DOTs and other transportation agencies to undertake and implement automated snowplow route optimization programs by:

- Documenting technical requirements/considerations for route optimization
- Providing standardized contract language for each technical requirement
- Creating a complementary, non-technical, decision-support document explaining why each requirement is important and how it impacts route optimization contract deliverables

**PERIOD COVERED:** April 1, 2021 – June 30, 2021

**PARTICIPATING AGENCIES:** Minnesota Department of Transportation and the Clear Roads Technical Advisory Committee

**PROJECT MANAGER:**

Hafiz Munir / Tom Peters

**SP&R PROJECT NO:**

MnDOT Contract No.  
1034820

**PROJECT IS:**

Planning  
 Research & Development

**LEAD AGENCY:** MnDOT

Federal Project Number:  
TPF-5(353)

**PRINCIPAL INVESTIGATOR:**

Jonathan Dowds, Univ. of Vermont

**ANNUAL BUDGET:** \$73,514

**PROJECT EXPENDITURES TO DATE:** \$ 58,166

**WORK COMPLETED:**

- Drafted Technical Requirements and Guidance Document (Task 4)

**SUMMARY OF ACTIVITIES EXPECTED TO BE PERFORMED NEXT QUARTER:**

- Delivery of final Technical Requirements and Guidance Document (Task 4)
- Delivery of Vendor comments on Technical Requirements and Guidance Documents (Task 5)

**STATUS AND COMPLETION DATE:**

The project is on track to be completed on budget. Due to staff availability changes related to parental leave, the Project PI is working with the Program Manager to monitor the project delivery schedule and determine if a modification to the project end date will be required.