



OREGON DEPARTMENT OF TRANSPORTATION

Research Section
555 13th Street NE
Salem, OR 97301

SPR Quarterly Progress Report
October 1, 2016 through December 31, 2016

ph: (503) 986-2700
fax: (503) 986-2844

Date December 21, 2016

TO: Technical Advisory Committee Members:

Rick Shankle, ODOT Rail Crossing Safety Section Manager
David Smith, ODOT Rail Crossing Safety Section
John Brown, ODOT Rail Crossing Safety Section
Katie Johnson, Traffic Signal QC Engineer, ODOT Traffic-Roadway Section
Sheila Lyons, ODOT Bicycle & Pedestrian Program Manager
Xiugang (Joe) Li, Research Coordinator, ODOT Research Section
Julie Yip, ODOT Transportation Safety Division
Satvinder Sandhu, FHWA Oregon Division

Friends of the Committee:

Michael Kimlinger, ODOT Traffic Standards Engineer

1. Project

Title: Multi-Modal Intersections: Resolving conflicts between Trains, Motor Vehicles, Bicyclists and Pedestrians
SPR # 794

2. Project Investigator

Name: Anne Goodchild, Associate Professor
Civil and Environmental Engineering
University of Washington
121E More Hall
Seattle, WA 98195 Phone: (206) 543-3747
Email: Annegood@u.washington.edu

3. Project Coordinator

Name: Xiugang (Joe) Li, Research Coordinator
Phone: (503) 986-4115
E-mail: Xiugang.Li@odot.state.or.us

4. Key Dates

Project start date: December 29, 2015

Project completion date: June 30, 2017

First Fiscal Year: [year]

Final Fiscal Year: [year]

[List revised dates and corresponding amendment numbers]

5. Project Status (Completed by project investigator)

Task 1: TAC Meeting #1

Percent completed reported in last quarterly report: 100%

Task 2: Literature Review

Percent completed reported in last quarterly report: 95%

Percent completed after this quarter: 95%

Key Progress-To-Date

- *Finished draft literature review and shared with ODOT*

Specific Progress This Quarter

- *Minor updates*

Problems

- *None*

Work Planned for Next Quarter

- *Add any new documentation identified by the TAC or project team*

Task 3: Conduct Field Studies

Percent completed reported in last quarterly report: 100%

Task 4: Stakeholder Outreach

Percent completed reported in last quarterly report: 80%

Percent completed after this quarter:

Key Progress-To-Date

- *Developed stakeholder list*

Specific Progress This Quarter

- *Discussed stakeholder outreach with TAC*

Problems

- *None*

Work Planned for Next Quarter

- *Send draft project documents to stakeholder committee*

Task 5: Definition of Evaluation Criteria

Percent completed reported in last quarterly report: 60%

Percent completed after this quarter: 80%

Key Progress-To-Date

- *Develop detailed list of evaluation criteria based on field survey finding and literature review*

Specific Progress This Quarter

- *Refined evaluation criteria based on TAC and ODOT input.*

Problems

- *None*

Work Planned for Next Quarter

- *Update evaluation criteria as we receive additional input and as we complete Task 7 (Development of Proposed Solutions)*

Task 6: TAC Meeting #2

Percent completed reported in last quarterly report: 10%

Percent completed after this quarter: 100%

Key Progress-To-Date

- *Meet held in Salem on Nov 17.*

Specific Progress This Quarter

- *Same as key progress*

Problems

- *None*

Work Planned for Next Quarter

- *None*

Task 7: Development and Analysis of Proposed Solutions

Percent completed reported in last quarterly report: 25%

Percent completed after this quarter: 75%

Key Progress-To-Date

- *Identified categories of proposed solutions*

Specific Progress This Quarter

- *Same as key progress*

Problems

- *None*

Work Planned for Next Quarter

- *Developing a list of proposed solutions, with costs within ranges, linked to evaluation criteria from task 5.*

Task 8: Produce Guidebook

Percent completed reported in last quarterly report: 0%

Percent completed after this quarter: 0%

Key Progress-To-Date

-

Specific Progress This Quarter

-

Problems

-

Work Planned for Next Quarter

- *Create draft of guide book*

Task 9: Draft Final Report

Percent completed reported in last quarterly report: 0%

Percent completed after this quarter:

Key Progress-To-Date

-

Specific Progress This Quarter

-

Problems

-

Work Planned for Next Quarter

-

Task 10: Draft ODOT Research Note

Percent completed reported in last quarterly report: 0%

Percent completed after this quarter:

Key Progress-To-Date

-

Specific Progress This Quarter

-

Problems

-

Work Planned for Next Quarter

-

Task 11: TAC Meeting #3

Percent completed reported in last quarterly report:0%

Percent completed after this quarter:

Key Progress-To-Date

-

Specific Progress This Quarter

-

Problems

-

Work Planned for Next Quarter

-

Task 12: Final Report

Percent completed reported in last quarterly report: 0%

Percent completed after this quarter:

Key Progress-To-Date

-

Specific Progress This Quarter

-

Problems

-

Work Planned for Next Quarter

-

Task 13: Final Research Note

Percent completed reported in last quarterly report: 0%

Percent completed after this quarter:

Key Progress-To-Date

-

Specific Progress This Quarter

-

Problems

-

Work Planned for Next Quarter

-

6. **Project Coordinator's Comments** (Completed by ODOT)

TAC meeting held in November 2016. The research team will modify their methodology according to the project work plan and the TAC comments.

7. **Finances** (Completed by ODOT)

SPR Project Summary

VENDOR	FY'16	FY'17	FY'18	FY'19	TOTALS
ORIGINAL BUDGET					\$ -
WORK PLAN BUDGET	\$ 93,500	\$ 56,500			\$ 150,000
REVISED BUDGET	\$ 24,500	\$ 58,500	\$ 67,000		\$ 150,000
EXPENDITURES - VENDOR	\$ 29,654	\$ 29,246	\$ -	\$ -	\$ 58,900
BALANCE	\$ (5,154)	\$ 29,254	\$ 67,000	\$ -	\$ 91,100
ODOT	FY'16	FY'17	FY'18	FY'19	TOTALS
ORIGINAL BUDGET	\$ 94,000	\$ 96,000			\$ 190,000
REVISED BUDGET	\$ 9,000	\$ 3,000	\$ 3,000		\$ 15,000
EXPENDITURES - ODOT	\$ 11,572	\$ 1,315	\$ -	\$ -	\$ 12,887
BALANCE	\$ (2,572)	\$ 1,685	\$ 3,000	\$ -	\$ 2,113
PROJECT	FY'16	FY'17	FY'18	FY'19	TOTALS
ORIGINAL BUDGET	\$ 94,000	\$ 96,000	\$ -	\$ -	\$ 190,000
REVISED BUDGET	\$ 33,500	\$ 61,500	\$ 70,000	\$ -	\$ 165,000
EXPENDITURES - PROJECT	\$ 41,226	\$ 30,561	\$ -	\$ -	\$ 71,787
BALANCE	\$ (7,726)	\$ 30,939	\$ 70,000	\$ -	\$ 93,213