



OREGON DEPARTMENT OF TRANSPORTATION

Research Unit
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SPR Quarterly Progress Report
April 1, 2009 through June 30, 2009

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Date July 2, 2009

TO: Technical Advisory Committee Members:

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FROM: Steve Soltesz, Research Coordinator; phone: (503) 986-2851

1. Project

Flexural Steel Anchorage Performance at Diagonal Crack Locations
SPR # 661

2. Key Dates

Start Date for ODOT: 12/1/07
Completion Date for ODOT: 12/31/09

3. Principal Investigator

Dr. Christopher Higgins, Associate Professor
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4. Progress

- Completed test of IT #1 (45 degree crack)
- Completed test IT #2 (60 degree crack)
- Reduced data for specimens and compare with analytical predictions

- Developed analytical tool to estimate flexural demands based on first 2 tests
- Redesigning last 2 IT specimens based on the results of first tests and above tool

5. Problems

- Different failure modes encountered than initially thought
- Required redesign of IT details for next 2 specimens and T specimens

6. Work Planned for Next Quarter

- Construct next 2 IT specimens and test
- Construct first 2 T specimens and test
- Reduce data from tests
- Begin reporting

7. Finances

SPR Project Summary

VENDOR	FY'08	FY'09	FY'10	FY11	TOTALS
ORIGINAL BUDGET	\$ 80,000	\$ 170,000	\$ 90,000		\$ 340,000
REVISED BUDGET	\$ 15,300	\$ 137,000	\$ 147,700		\$ 300,000
EXPENDITURES - VENDOR	\$ 15,300	\$ 104,883	\$ -	\$ -	\$ 120,183
BALANCE	\$ -	\$ 32,117	\$ 147,700	\$ -	\$ 179,817
ODOT	FY'08	FY'09	FY'10	FY11	TOTALS
ORIGINAL BUDGET	\$ 4,000	\$ 5,000	\$ 4,000		\$ 13,000
REVISED BUDGET	\$ 4,410	\$ 4,500	\$ 4,000		\$ 12,910
EXPENDITURES - ODOT	\$ 4,410	\$ 4,155	\$ -	\$ -	\$ 8,565
BALANCE	\$ -	\$ 345	\$ 4,000	\$ -	\$ 4,345
PROJECT	FY'08	FY'09	FY'10	FY11	TOTALS
ORIGINAL BUDGET	\$ 84,000	\$ 175,000	\$ 94,000	\$ -	\$ 353,000
REVISED BUDGET	\$ 19,710	\$ 141,500	\$ 151,700	\$ -	\$ 312,910
EXPENDITURES - PROJECT	\$ 19,710	\$ 109,038	\$ -		\$ 128,748
BALANCE	\$ -	\$ 32,462	\$ 151,700	\$ -	\$ 184,162