



OREGON DEPARTMENT OF TRANSPORTATION

Research Unit  
200 Hawthorne, Ste., B-240  
Salem, OR 97301

**SPR Quarterly Progress Report**  
April 1, 2008 through June 30, 2008

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

Date June 30, 2008

**TO:** Technical Advisory Committee Members:

Tanarat Potisuk, Lochner, Inc.  
Stephen Burgess, Lochner, Inc.  
Tim Rogers, FHWA  
Jon Rooper, ODOT  
Craig Shike, ODOT  
Matthew Stucker, ODOT  
Steve Soltesz, ODOT

**FROM:** Steve Soltesz, Research Coordinator (ph: (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: 6/30/09

**3. Principal Investigator**

Dr. Christopher Higgins, Associate Professor  
Oregon State University  
Civil and Constr Engr  
348 Owen Hall  
Corvallis, OR 97331-3212 Phone: (541) 737-886

**4. Progress**

- Formwork reconstruction for specimens complete
- Test setup rearrangement complete
- Design details for cutoff locations complete

- Materials and techniques for creating diagonal crack condition under study

**5. Problems**

- No significant problems

**6. Work Planned for Next Quarter**

- Construct first two specimens with short anchorage lengths
- Test 2 specimens
- Analyze test data and construct 2 additional specimens

**7. Finances**

SPR Project Summary

| <b>VENDOR</b>         | <b>FY'08</b> | <b>FY'09</b> | <b>FY'10</b> | <b>FY11</b> | <b>TOTALS</b> |
|-----------------------|--------------|--------------|--------------|-------------|---------------|
| ORIGINAL BUDGET       | \$ 80,000    | \$ 170,000   | \$ 90,000    |             | \$ 340,000    |
| <b>REVISED BUDGET</b> | \$ 15,300    | \$ 170,000   | \$ 114,700   |             | \$ 300,000    |
| EXPENDITURES - VENDOR | \$ -         | \$ -         | \$ -         | \$ -        | \$ -          |
| <b>BALANCE</b>        | \$ 15,300    | \$ 170,000   | \$ 114,700   | \$ -        | \$ 300,000    |

| <b>ODOT</b>           | <b>FY'08</b> | <b>FY'09</b> | <b>FY'10</b> | <b>FY11</b> | <b>TOTALS</b> |
|-----------------------|--------------|--------------|--------------|-------------|---------------|
| ORIGINAL BUDGET       | \$ 4,000     | \$ 5,000     | \$ 4,000     |             | \$ 13,000     |
| <b>REVISED BUDGET</b> | \$ 4,409     | \$ 5,000     | \$ 4,000     |             | \$ 13,409     |
| EXPENDITURES - ODOT   | \$ 4,409     | \$ -         | \$ -         | \$ -        | \$ 4,409      |
| <b>BALANCE</b>        | \$ -         | \$ 5,000     | \$ 4,000     | \$ -        | \$ 9,000      |

| <b>PROJECT</b>         | <b>FY'08</b> | <b>FY'09</b> | <b>FY'10</b> | <b>FY11</b> | <b>TOTALS</b> |
|------------------------|--------------|--------------|--------------|-------------|---------------|
| ORIGINAL BUDGET        | \$ 84,000    | \$ 175,000   | \$ 94,000    | \$ -        | \$ 353,000    |
| <b>REVISED BUDGET</b>  | \$ 19,709    | \$ 175,000   | \$ 118,700   | \$ -        | \$ 313,409    |
| EXPENDITURES - PROJECT | \$ 4,409     | \$ -         | \$ -         |             | \$ 4,409      |
| <b>BALANCE</b>         | \$ 15,300    | \$ 175,000   | \$ 118,700   | \$ -        | \$ 309,000    |