**TRANSPORTATION POOLED FUND PROGRAM**

**QUARTERLY PROGRESS REPORT**

Date: October 14, 2011

Lead Agency (FHWA or State DOT): Michigan DOT

**INSTRUCTIONS:**

*Project Managers and/or research project investigators should complete a quarterly progress report for each calendar quarter during which the projects are active. Please provide a project schedule status of the research activities tied to each task that is defined in the proposal; a percentage completion of each task; a concise discussion (2 or 3 sentences) of the current status, including accomplishments and problems encountered, if any. List all tasks, even if no work was done during this period.*

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| **Transportation Pooled Fund Program Project #**  TPF-5(254) | | **Transportation Pooled Fund Program - Report Period:**  □Quarter 1 (January 1 – March 31)  □Quarter 2 (April 1 – June 30)  □Quarter 3 (July 1 – September 30)  □Quarter 4 (October 1 – December 31) | |
| **Project Title:**  Bulb-T Beam As Alternate ABC to Side-by-Side Box Beam. | | | |
| **Name of Project Manager(s):**  David Juntunen, P.E. | **Phone Number:**  517-322-5688 | | **E-Mail**  juntunend@michigan.gov |
| **Lead Agency Project ID:**  MDOT Job No. 114419; OR11-010 | **Other Project ID (i.e., contract #):**  2010-0293 | | **Project Start Date:**  September 19, 2011 |
| **Original Project End Date:**  September 30, 2014 | **Current Project End Date:**  September 30, 2014 | | **Number of Extensions:**  None. |

Project schedule status:

□On schedule □On revised schedule □Ahead of schedule □Behind schedule

Overall Project Statistics:

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| **Total Project Budget** | **Total Cost to Date for Project** | **Percentage of Work**  **Completed to Date** |
| $349,000.00 | $3490 | 1.0 % |

***Quarterly*** Project Statistics:

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| **Total Project Expenses**  **and Percentage This Quarter** | **Total Amount of Funds**  **Expended This Quarter** | **Total Percentage of**  **Time Used to Date** |
| $3490 (1.0 %) | $3490 | 1.3 % |

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| **Project Description**:  To analyze and evaluate the decked bulb-T beam (or decked I- beam) as a viable replacement for the side-by-side box-beam bridge. The project description uses the term bulb- T beam as a general description of an I- beam shape,  with a wide top flange that can serve as a deck surface. For this type of beam to be a viable replacement to a box beam, it must have a very robust cross-section designed to have a shallow depth-to-span ratio; which makes it very different than the standard AASHTO section used by some states. The use of a bulb- T beam cross section would eliminate inherent problems associated with the ability to inspect and repair box-beam type structures. The Bulb-T beam cross-section will provide enough space at the section bottom for ease of periodical inspections and  maintenance of critical elements; such as beam web and the suffit of the bridge deck slab. |

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| **Progress this Quarter (includes meetings, work plan status, contract status, significant progress, etc.):**  A TAC members discussion meeting was held (via a phone conference call) on September 30, 2011.  The purpose of this discussion meeting (phone conference) was to provide an opportunity for the partner state representatives to get an overview of the study goals and objectives; to discuss committee members research expectations; for partners to determine the frequency of project updates/meetings; to discuss partners research interests specific to this project.  MDOT executed Authorization No. 3; under MDOT contract 2010-0293 on September 22, 2011, with an effective project start date of September 19, 2011. The initial budget allocation is as follows:  FY11 & 12: $115,281.00; FY13: $113,978.00; FY14: $119,741.00 |
| **Anticipated work next quarter**:  Continue work under Task #1; literature review.  Schedule next TAC meeting in December 2011. |

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| **Significant Results:** |
| **Circumstance affecting project or budget. (Please describe any challenges encountered or anticipated that**  **might affect the completion of the project within the time, scope and fiscal constraints set forth in the**  **agreement, along with recommended solutions to those problems).** |

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| **Potential Implementation:** |