

**2nd Quarterly Progress Report to the
FEDERAL HIGHWAY ADMINISTRATION
(FHWA)**

**On the Project:
THE IMPACT OF WIDE-BASE TIRES ON PAVEMENT
DAMAGE
DTFH61-11-C-00025**

**For period
July 1st to September 30th 2011**

**From
University of Illinois at Urbana-Champaign
Illinois Center for Transportation**

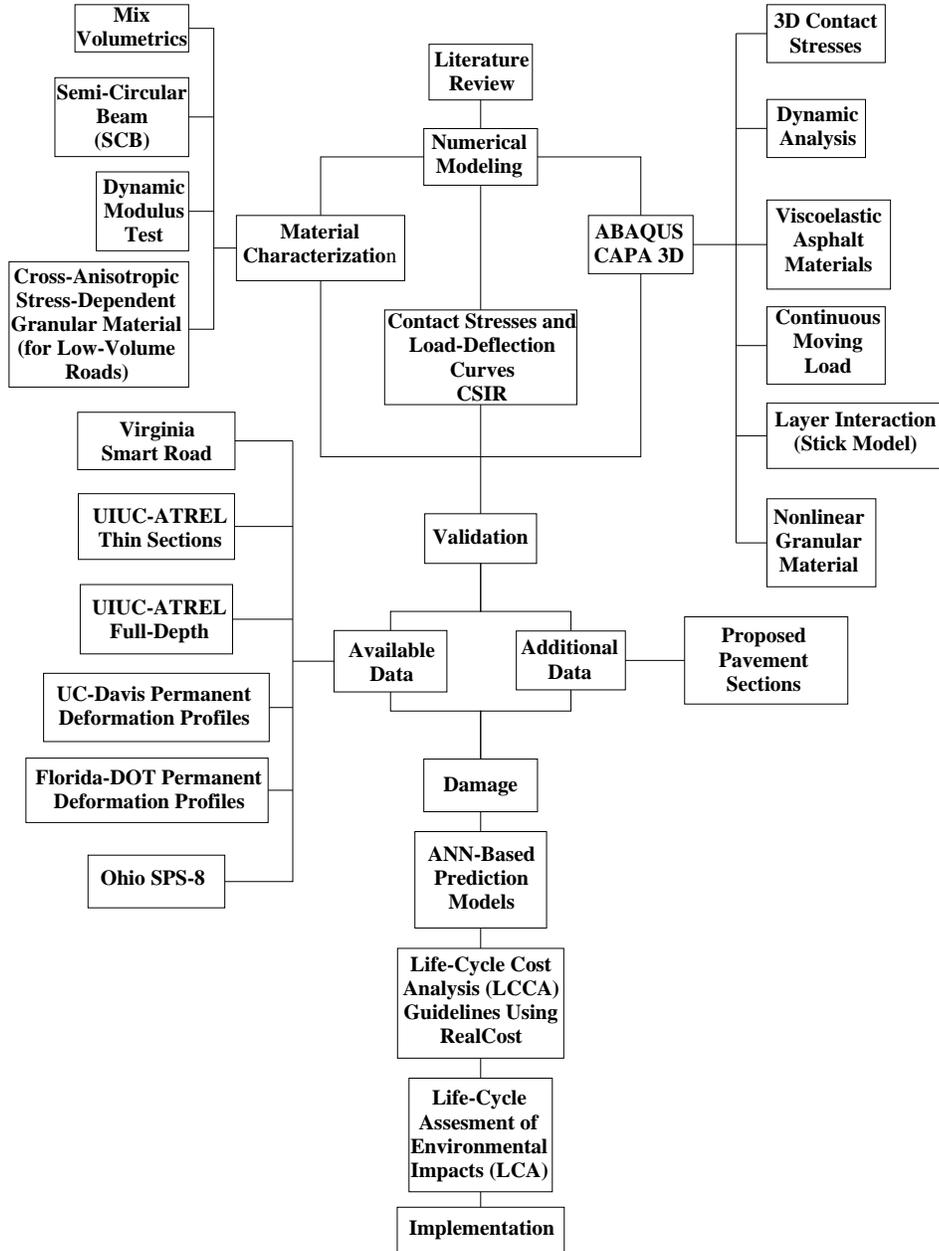
QUARTERLY PROGRESS REPORT

QUARTER 2

The Impact of Wide-Base Tires on Pavement Damage – A National Study

1. Work Performed

Work plan for this project is summarized as in chart 1.



During this quarter, the following tasks have been accomplished:

- Phase I report has been prepared and submitted. The report includes a comprehensive literature review on the studies related to wide-base tire (WBT) and details regarding data available from six various projects (Virginia Smart Road, UIUC-ATREL thin pavement sections, UIUC-ATREL full depth sections, OHIO SPS-8, UC-Davis overlays, and Florida DOT). In addition, the proposed pavement structures to be built at UIUC-ATREL, UC-Davis, and Florida DOT are also included.

The report discusses the parameters and factors that will be considered in the numerical modeling, the material characterization needed for the modeling, and the testing and modeling of the tires included in this study.

- A conference call took place on August 29, 2011 involving the research panel and the research team. During the conference call, the research panel was informed of the preparation of the phase I report. In addition, topics discussed include scope of the project and implementation.
- A face-to-face meeting for October 26, 2011 in Washington, D.C. was organized. The meeting agenda was sent to the panel and the research teams. At the meeting, report 1 will be discussed as well as the details of Phase 2 of the study.

2. Work to be accomplished next quarter

During the next quarter, the following tasks will be initiated (after the approval of the panel).

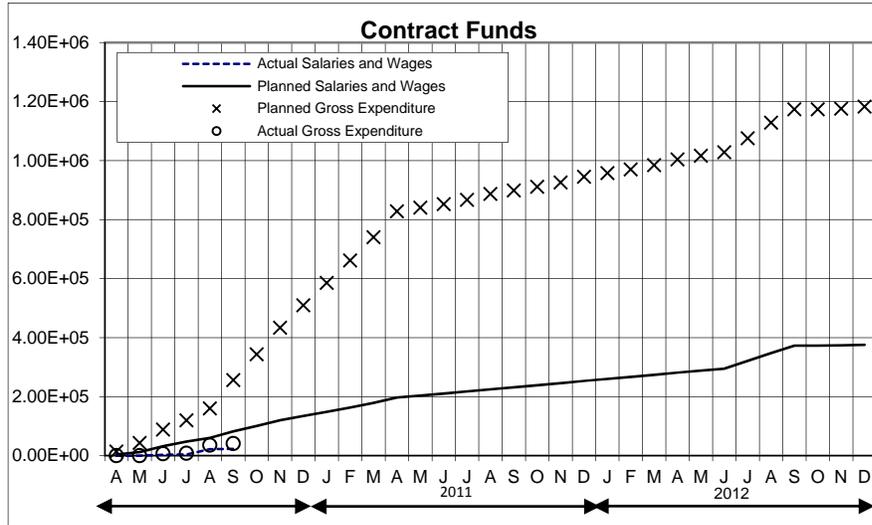
The following activities are considered:

- Preparation of experimental equipment, test structures, and instrumentation
- Modeling of some available pavement structures and tires
- Compilation of data from tire manufacturers in order to initiate the tire modeling

3. Problems encountered

No problems have been encountered in this quarter.

4. Current and cumulative expenditures



funds expended	3.5%	time expended, hrs	922.0
contract amount	<u>\$1,190,456.00</u>	starting date	<u>July 1, 2011</u>
expended this quarter	<u>\$34,780.60</u>	completion date	<u>September 30, 2011</u>
total expenditures to date	<u>\$41,205.14</u>		
balance	<u>\$1,149,250.86</u>		
	salaries and wages estimated this quarter		\$50,217.4
	salaries and wages spent this quarter		\$19,783.1
	accumulated salaries and wages to date		\$22,967.07

5. Planned, actual, and cumulative percent of effort

