

January through March 2021

Title: Assessment and Repair of Prestressed Bridge Girders Subjected to Over-height Truck Impacts Pooled Fund Project

Project Number: TR202011

Principal Investigator (PI): Mohamed ElGawady PhD (PI)

Co-PI(s): William Schonberg PhD, PE (Co-PI)

Award date:	1/1/2021		
Scheduled completion date:	12/31/2023	% of project completed to date:	10%
Total budget:	\$755,000	% of budget expended to date:	1%
Draft report due:	3/31/2021	Final report due:	12/1/2023

Provide a short description of the **work currently underway**.

Use [additional notes section](#) if you need to provide more information.

While not part of the tasks, it is essential to establish a good team to carry out the research tasks. Interviewing more than 30 potential students were carried out and four graduate students were selected and the hiring process started.

Task 1: Literature review. A comprehensive literature review was carried out. A first draft of the review is reported at the end of this report. The literature review is still going on.

Task 2. Experimental testing of bridge girders subjected to lateral impacts: The design of the test setup is underway. Different designs are being reviewed.

Task 5: Develop finite element models for the beams. The FE is being developed. A summary of the progress in this task is presented at the end of this report.

Provide a short description of the **noteworthy activities/accomplishments** during this reporting period.

Use [additional notes section](#) if you need to provide more information.

Task 1: Literature review. This task was 50% completed. A draft report is included at the end of this report.

Task 2. Experimental testing of bridge girders subjected to lateral impacts: The design of the test setup is underway. Different designs were considered and the different parts will be acquired soon.

Task 5: Develop finite element models for the beams. The FE is being developed and 10% of this task is completed. A summary of the progress in this task is presented at the end of this report.

Identify **issues or problems** that need to be addressed.

Use [additional notes section](#) if you need to provide more information.

Due to COVID working in the laboratory is slower than usual due to social distance.

Provides dates for when the **next progress report or presentation** due:
6/30/2021