

**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)

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

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**