**Federal Contract # DTFH6117D0001 – Task Order # 693JJ318F000303**

**LONG-TERM INFRASTRUCTURE PERFORMANCE PROGRAM (LTIP) TEAM**

**PROGRESS REPORT NO. 7**

**Report Period: May 01, 2019 – May 31, 2019**

Prepared For:

**Federal Highway Administration**

Prepared By:



**A. Account of work performed in this period**

**1. Subtask 1.2 - Monthly Meetings between the Contractor and FHWA/LTIP Group**

The Rutgers team had a conference call meeting with FHWA LTIP team on May 01, 2019.

**2. Subtask 3 - Construction, Material Testing, Instrumentation, and Lab Preparation**

The Rutgers team accomplished the following tasks for the month of May:

* The construction contractor shipped the girders to the BEAST facility. They placed the girders and installed bolts, diaphragms, and bearings.
* Rutgers University along with WJE and BDI installed and covered the instrumentation. Rutgers started collecting data from the sensors.
* NJIT continued experimenting the lab specimens (such as chloride ponding)

**B. Work to be accomplished during the next period**

**1. Subtask 1.2 - Monthly Meetings between the Contractor and FHWA/LTIP Group**

The Rutgers team will have a monthly conference call with the FHWA/LTIP group in June.

**2. Subtask 3 - Construction, Material Testing, Instrumentation, and Lab Preparation**

* For the monthly period of June, the construction contractor will place the rebar and formwork. The concrete will be poured and cured.
* NJIT team will collect samples from the fresh concrete being poured to the actual specimen.
* WJE and BDI will installed the rest of embedded instrumentations and will continue data collection.

**Subtask 10 – Quarterly Progress Report**

The Rutgers team will prepare the electronic version of the monthly progress report for the month of May and submit it to FHWA.

**C. Problems/Recommended Solutions**

No problems encountered during this period.

**D. How the results of the work performed supports one or more of the FHWA, DOT, and LTIP Goals**

All of the work conducted under this task order aims to ensure that the accelerated full-scale testing at the BEAST facility will be conducted in the right way in order to meet the overall objectives of the LTIP program. With the proper specimen design as well as the appropriate instrumentation and periodic data collection campaigns on the specimen, this will result in satisfying the primary objectives of the LTIP program, inclusive of:

(1) Establish the long-term performance of bare reinforced concrete bridges decks, common bridge joints, and various steel coatings under realistic environmental, live load, and maintenance-related influences

(2) Establish the long-term performance and effectiveness of various common overlay systems applied to aging reinforced concrete bridges decks (and perhaps some intervention/repair strategies for other bridge components) under realistic environmental, live load, and maintenance-related influences

(3) Determine and quantify the ability of various nondestructive evaluation, global sensing approaches, and their integration to identify and track deterioration within bare reinforced concrete bridges decks and decks protected with common overlay systems

**E. Purchases and Rentals**

Per attached, Rutgers purchased a number of items during placing the steel girder as well as the instrumentation.

Per attached, BDI also provided Rutgers with a number of purchases to be used for instrumentation.

**F. Travel Details for Reporting Period**

None

I am assuming that my travel would be paid from a different account and it does need to be shown here.

**G. A tabulation of the current and cumulative costs** (cost shown includes benefits and overhead)

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Institution | Current Expenditures  05/01/2019-05/31/2019 | | Cumulative Expenditures  10/18/2018-05/31/2019 | |
| Labor | Other Costs | Labor | Other Costs |
| Rutgers, the State University of New Jersey | $ 2,489.00 | $ 48,748.36 | $ 50,992.99 | $ 50,063.61 |
| New Jersey Institute of Technology (NJIT) | $ 6,008.57 | $ - | $ 21,436.22 | $ 1,606.19 |
| Wiss, Janney, Elstner Associates (WJE) | $ 8,370.78 | - | $ 14,079.88 | - |
| Bridge Diagnostics Inc. (BDI) | - | $ 6,293.0 |  | $ 54,932.62 |

**H. Subcontractors’ Progress Report**