

**NEW ENGLAND TRANSPORTATION CONSORTIUM
QUARTERLY PROJECT PROGRESS REPORT**

A. PROJECT NUMBER AND TITLE:

NETC 18-2: Framework of Asphalt Balanced Mix Design (BMD) for New England Transportation Agencies

B. PRINCIPAL INVESTIGATOR(S) & UNIVERSITY(S):

Professor Walaa Mogawer, PhD., PE, F.ASCE -University of Massachusetts Dartmouth

C. WEB SITE ADDRESS (If one exists):

<https://www.newenglandtransportationconsortium.org/research/netc-research-projects/netc-18-2/>

D. START DATE (Per NETC Agreement): 02/05/2019

E. END DATE (Per NETC Agreement): 06/30/20

F. ANTICIPATED COMPLETION DATE: 06/30/20

G. PROJECT OBJECTIVES:

The objective of this research project is to synthesize existing information and to develop recommendations for a rational BMD approach for use by New England transportation agencies. Gaps in testing and performance data will be identified through this project and an experimental plan for required future work will be developed.

H. REPORT PERIOD: Quarter 1: January to March 2020

I. ACCOMPLISHMENTS THIS PERIOD:

- 1. The research team had a phone meeting on Tuesday January 28th, 2020 with representatives from the NETC state agencies for this project. The purpose of the meeting was to discuss the existing performance test data that may be available from recent state/regional projects that is needed for Task 3.*
- 2. UMass Dartmouth formally requested a NO COST time extension for this project in February 2020. UMass Dartmouth is requesting to extend the project six months to a requested end date of 12/31/2020. The basis for this request is twofold. First, in the original proposal submitted, the Principal Investigator (PI) requested a project period of 18 months to complete the project. This time frame matched what was in the RFP issued by NETC. However, the signed agreement listed a start and end date that provided only 16 months to complete the project. Thus, the project duration was essentially two months shorter than needed. Furthermore, the research team has yet to obtain field performance data from every state agency in New England for Task 3 of the project which is entitled "Collect existing performance test data, available from recent state/regional projects, and related historical field performance data on the representative pavements." The requested added months will allow the research team more time to attempt to gather the data that is necessary to develop a balanced mix design framework for New England. No response to this request has been received at the time of this quarterly report.*

J. PROBLEMS ENCOUNTERED (If any): *n/a*

K. TECHNOLOGY TRANSFER ACTIVITIES: *n/a*

L. STATUS BY TASK:

| Task Number | Description | Percent Complete |
|--------------------|---|-------------------------|
| 1 | Identify typical pavement distresses in each of the New England states. | 100% |
| 2 | Identify candidate performance tests for each identified common distress. | 85% |
| 3 | Collect existing performance test data, available from recent state/regional projects, and related historical field performance data on the representative pavements. | 30% |
| 4 | Analyze test and field performance data in order to develop preliminary recommendations for a BMD approach. | 10% |
| 5 | Identify gaps in the test and performance data and develop an experimental plan for future research with the goal to further refine the development, validation, and implementation of a BMD approach for New England states. | 0% |

M. PERCENT COMPLETION OF TOTAL PROJECT: 60 %

N. ACTIVITIES PLANNED FOR NEXT QUARTER:

1. *Contact the appropriate person at each NETC agency to obtain PMS data.*
2. *Work on Task 3 and 4.*

O. FINANCIAL STATUS:

As of: March 31st, 2020

Total Project Budget: \$ _____

Total Expenditures : \$ _____

Note: This report should not require more than 2-3 pages & should be e-mailed to the NETC Coordinator so as to arrive no later than three (3) working days after the end of each calendar quarter.