

**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): 12/31/20

F. ANTICIPATED COMPLETION DATE: 12/31/20

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 4: October to December 2020*

I. ACCOMPLISHMENTS THIS PERIOD:

- 1. Final report was finalized. All comments from the technical committee were addressed in the final report.*
- 2. The research team hosted an internet-based meeting on 11/6/2020 with the technical committee to discuss the final report and any remaining comments.*
- 3. A one page fact sheet and poster for this project were developed and supplied to NETC for review.*

J. PROBLEMS ENCOUNTERED (If any):

Due to delays in receiving the data for Task 3, the research team was delayed in drafting the final report before the 90 days prior to the end of the project.

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.	100%
3	Collect existing performance test data, available from recent state/regional projects, and related historical field performance data on the representative pavements.	100%
4	Analyze test and field performance data in order to develop preliminary recommendations for a BMD approach.	100%
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.	100%

M. PERCENT COMPLETION OF TOTAL PROJECT: 100 %

N. ACTIVITIES PLANNED FOR NEXT QUARTER:

- 1. Prepare and provide a webinar on the project outcomes.*

O. FINANCIAL STATUS:

As of: *December 31st, 2020*

Total Project Budget: \$ 127,499

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.