

CAPE COD CANAL BRIDGES

MAJOR REHABILITATION EVALUATION REPORT

MASSDOT

Working Group Meeting

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PRESENTATION OUTLINE

- Major Rehabilitation Evaluation of Cape Cod Canal Highway Bridges
- Major Rehabilitation Evaluation Report (MRER) - Activities Completed to Date
- MRER Next Steps
- Collaboration with MassDOT

MAJOR REHABILITATION EVALUATION OF CAPE COD CANAL HIGHWAY BRIDGES

- Components of the MRER include:
 - ↗ Structural Engineering
 - ↗ Cost Engineering
 - ↗ Economic Justification
 - ↗ Environmental Analysis of Alternatives
- MRER will evaluate Rehabilitation and Replacement alternatives against “Fix-as-Fails” baseline for both the Bourne and Sagamore.
- Layout the necessary major rehabilitation milestones over the functional life (50 yrs.) of each structure, or recommend replacement of one or both structures.
- MRER uses modern bridge replacement type for comparison purposes; replacement will require its own authorization and design studies for implementation.

MAJOR REHABILITATION EVALUATION REPORT (MRER) ACTIVITIES COMPLETED TO DATE

- Structural Engineering – Risk and Reliability study identifies components and complex systems which need restoration / replacement to improve or maintain performance.
- Cost Engineering – Calculates the construction estimates and risk to cost / schedule for rehab and replacement alternatives.
- Economic Justification – evaluate the cost of alternatives against their benefits/impacts resulting in Benefit to Cost Ratios (BCR).

MRER NEXT STEPS

- Continue effort on Environmental Analysis component – NEPA process to evaluate impacts to human environment for all alternatives.
- Public and Stakeholder Involvement meetings / presentations to start in late October:
 - ↗ Including Cooperating agencies, Stakeholder Groups, and Public
 - ↗ Initial Stakeholder/Working Group Meeting
 - ↗ Followed by five (5) Public Informational meetings held around the Cape, Islands, and South Shore for maximum participation.
- Additional meetings to follow deliverables from analysis.

COLLABORATION WITH MASSDOT

- Continued collaboration with MASSDOT
 - Technical Meetings to confirm results of traffic modeling, and cost attribution for bridge approaches.
 - Project alignment between the two organizations to minimize impact to the public.
 - Serve as MRER External Technical Review member.
- Corps continue regular routine inspection and maintenance on both bridges.
- Bourne Bridge joint replacement – Corps in negotiations with contractor to move Fall 2018 work to Spring 2019.

QUESTIONS / COMMENTS

can be directed to:

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