NJTPA - Local Concept Development Study
Monmouth County Bridge S-32 on Rumson Road
(CR 520) over the Shrewsbury River

Public Information Center

February 27, 2012
• Rumson-Sea Bright Bridge S-32 was built in 1952.
• Routine maintenance can no longer address deficiencies.
• Bridge is in need of major rehabilitation or replacement.
• NJTPA/Monmouth County Local Concept Development (LCD) Study initiated October 2011.
• New program provides opportunity to advance this project with public input and agency collaboration.
## Local Concept Development Process

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Local Concept Development Process

- Conduct Data Collection
  - Initial Right of Way
    - Design Communication Report
  - Survey
    - Community Outreach
    - Evaluate Deficiencies
      - Existing Conditions / Purpose and Need Statement
        - Development of Alternatives
          - Cost Estimate Preliminary Preferred Alternate
            - Preliminary Engineering Scope Statement
            - Obtain Resolutions of Support
            - NEPA Classification
          - Concept Development Report
Environmental Process

- Federally funded project requires NEPA (National Environmental Protection Act) documentation
- Identify environmental resources and concerns
- Avoid, minimize and or mitigate impacts with Preferred Alternative
- Coordination with permitting agencies
- Process includes public input and community development
Existing Bridge Condition

• Bridge in serious overall condition – 2009 Bridge Inspection Report
• Sufficiency Rating = 25 (out of 100)
• Superstructure in poor condition – Rating = 4 out of 10
• Bridge may soon need to be load posted due to advancing deterioration of steel support members
• Deck and substructure in fair condition – Rating = 5 out 10
• Bridge needs $10M in remedial repairs.
Existing Bridge Condition

Photo 1: South elevation

Photo 2: Bridge roadway looking east
Existing Bridge Condition

Photo 3: Bridge opening

Photo 4: Typical spalling in top of bridge deck
Existing Bridge Condition

Photo 5: Typical incipient spalls in underside of bridge deck - Spans 1 through 4

Photo 6: Typical spalls with exposed rebar in underside of bridge deck - Spans 1 through 4
Existing Bridge Condition

Photo 7: Eastern flanking span (Span 7) superstructure, heavy corrosion and rusting of floorbeams, section loss of one floorbeam

Photo 8: Bascule span superstructure, corrosion and deterioration of floorbeams
Existing Bridge Condition

Photo 9: Bascule span superstructure, corrosion and deterioration of floorbeams

Photo 10: Typical floor beam and stringers of bascule span superstructure
Existing Bridge Condition

Photo 11: Typical corroded/rusted bascule span floorbeam

Photo 12: North girder of bascule span – heavy corrosion/rusting in bottom flange and holes in web
Existing Bridge Condition

Photo 13: Typical heavy corrosion/rusting of girders and floorbeams, south approach spans

Photo 14: Typical heavy corrosion/rusting of floorbeams and stringers - bridge approach spans
Existing Bridge Condition

Photo 15: Typical heavy corrosion/rusting of approach span stringers

Photo 16: Typical severe corrosion of approach span bearings
Existing Bridge Condition

Photo 17: Severe embankment erosion at west abutment

Photo 18: Pier 8 - Moderate to severe scaling and marine growth in tidal zones
Project Status

• Work began November 2011
• Data Collection Nearly Complete
  1. Field Survey
  2. Environmental Screening
  3. Verification of Utilities
  4. Obtain Bridge Inspection Reports, Traffic Data, Accident Data
  5. Identify Existing Substandard Design Elements
  6. Stakeholders and Public Involvement
  7. Project Fact Sheet
  8. Develop Project Purpose and Need
Project Schedule

• 18 month completion schedule
• Major Milestones
  1. Project Purpose and Need – May 2012
  5. Completion of Concept Development Phase – April 2013
Community Involvement

- Community Involvement Schedule
  1. Stakeholders Meeting No.1 – February 15, 2012
  2. Public Information Center Meeting: Purpose & Need – February 27, 2012
  3. Stakeholders Meeting No.2: Input on Alternatives – May 2012
  4. Local Officials Meeting – September 2012
  5. Public Information Center Meetings: Input on Alternatives & Selection of Preliminary Preferred Alternatives – October 2012
  6. Local Officials Briefing – April 2013

- Comments from February 15, 2012 Stakeholders Meeting
Project Contact Information

• Jon Moren, Monmouth County Project Manager, (732) 308-2963
• Monmouth County Web site address:
  – visitmonmouth.com
  – Click “Departments”
  – Click “Engineering”
  – Click “Bridge & Road Projects”
• Note: This Power Point Presentation will be posted on the Monmouth County website.
• Written comments towards Project Purpose & Need will be received until Friday, March 30, 2012.
Questions & Comments