

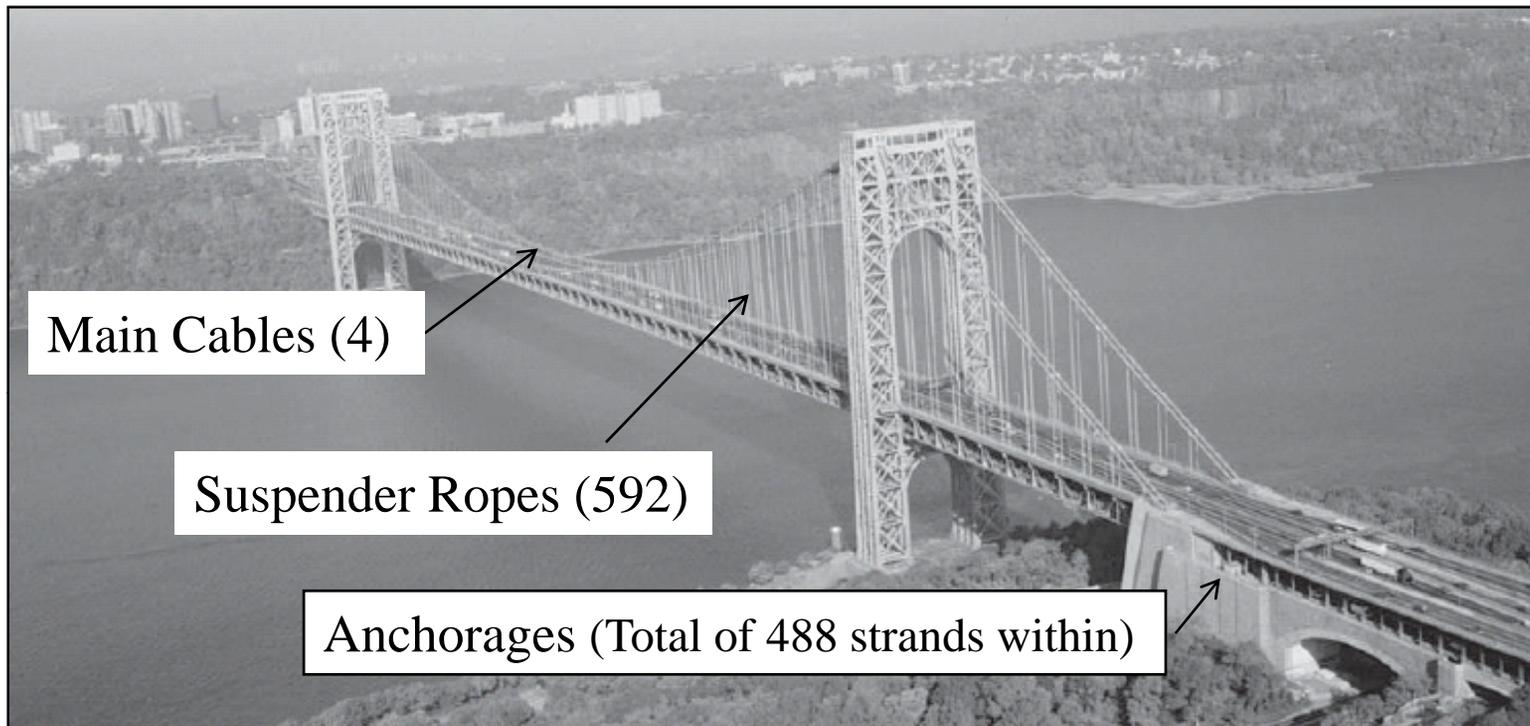
# ***George Washington Bridge***

Replacement of Suspender Ropes and Main  
Cables Rehabilitation & Rehabilitation of Cable  
Strands in Anchorages

December 8, 2011

Committee on Operations

## *Project Background*



### Planning Authorization – March 2009

- Authorized \$4.5 million for planning and engineering services
- Entered into a professional services agreement with Ammann & Whitney for a total value of \$14.9 million, of which \$2.5 million was authorized.

## *Work Accomplished*

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Under the initial Planning Authorization:

- Inspections and analysis of existing conditions
- Verification of project need
- Evaluate details of suspender rope connections and enhancements
- Development of preliminary design solutions

# Conditions

## Suspender Ropes:

- Many have corrosion
- Some have reduced strength
- Average age at replacement of several similar bridges is 70 years

## Main Cables and Strands:

- Main cable wires are in early stages of corrosion, no significant loss of strength to main cables
- Minimal broken wires within cable strands in the Anchorages

**No need for traffic and load restrictions at present time.**



## ***Need for this increase***

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Continued development of the design for timely project implementation, including:

- Utility relocation details
- Suspender rope connection details
- Potential sidewalk relocation
- Details to minimize corrosion of the main cables and cable strands
- Associated permits/approvals process
- Multi-contract approach

## *Program Schedule Summary*

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- **UTILITY RELOCATION**

- Design Development – Starts 1<sup>st</sup> Quarter 2012
- Project Authorization - 4<sup>th</sup> Quarter 2012
- Construction contract Award – 2<sup>nd</sup> Quarter 2013

- **REHABILITATION OF CABLE STRANDS IN ANCHORAGES**

- Design Development – Continues from Initial Authorization
- Project Authorization – 4<sup>th</sup> Quarter 2012
- Construction contract Award – 2<sup>nd</sup> Quarter 2013

- **REPLACEMENT OF SUSPENDER ROPES AND REHABILITATION OF MAIN CABLES**

- Design Development – Continues from Initial Authorization
- Project Authorization – 4<sup>th</sup> Quarter 2013
- Construction contract Award – 2<sup>nd</sup> Quarter 2014

### **OTHER CONSTRUCTION UNDERWAY**

## *Recommendations*

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- Increase in Planning Authorization
  - Previously Authorized - \$4.5 million
  - Requested Increase - \$15.5 million
  - Total Proposed Planning - \$20.0 million
    - Of the \$15.5 million increase:
      - Consultants \$6.0 million; Staff \$7.7 million
- Authorize the expenditure of \$6.0 million from previously authorized professional services agreement
- Economic Impact upon Project Implementation:
  - 3,600 jobs
  - \$260 million in wages
  - \$1.1 billion in economic activity