Manhattan Bridge  Cable Rehabilitation Contract #14
Presentation to Brooklyn Community Board 2 Transportation Committee – June 15, 2010
Project Team

• NYC DOT Division of Bridges – East River Bridges
  • Designer and CSS: Weidlinger Associates
  • Contractor: Skanska Koch
  • Resident Engineering Inspection Consultant: Greenman-Pedersen
    • Community Outreach: Sam Schwartz Engineering
General Plan and Elevation

5,800 feet long, abutment to abutment

Suspended spans 2,920 feet
Daily Traffic on Manhattan Bridge

• 75,000 vehicles on 7 lanes, 3 roadways
• 320,000 transit riders on four tracks
• 3,000 cyclists on Class 1 bikeway
Project Time Line

• Contract Awarded: October 16, 2009
• Notice-to-Proceed Date: December 28, 2009
• Anticipated Completion for Substantial Replacement of Suspenders: December, 2012
• Anticipated Project Completion Date: June, 2013
General Scope of Work

**TASK A - MAIN CABLE REWRAPPING**
- Removal of Existing Cable Wrapping Wires and Red Lead Paste
- Repair of Existing Cable Wires
- Rewrapping of Cable with New Galvanized Wires and grease as paste
- Installation of Cableguard

**TASK B – REPLACEMENT OF SUSPENDER ROPES**
- Removal of Suspenders and Continuity Plates at Lower Chord
- Installation of New Suspenders at Upper and Lower Chords
- Installation of New Continuity Plates at Lower Chord

**TASK C – REPLACEMENT OF NECKLACE LIGHTING**
- Installation of New Necklace Lighting
- Replacement of Cable Hand Ropes

**TASK D – INSTALLATION OF ACCESS PLATFORMS AT TOWERS**

**TASK E – REVERSAL OF LOWER ROADWAY AND OPERATION OF HOV LANE (NUR).**

**TASK F – REPLACEMENT OF BEARINGS at TRUSSES C & D**
- Replace Multi-Rotational Bearings at Truss C and D at Towers

**TASK G – REPLACEMENT OF SOUTH UPPER ROADWAY LIGHTING**

**TASK H – MISCELLANEOUS**
Suspender Replacement

CABLES AND SUSPENDERS (INNER & OUTER TRUSS)

Number of Suspending cables on Bridge: 628 units

Date of last replacement: 1955
Cable Rewrapping and Suspending Replacement

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Hand Rope and Necklace Light Replacement
Lower Roadway Reversal and HOV Maintenance
Community Impacts

- 24/7 closure of one lane on the lower roadway (except during Brooklyn Bridge Contract #6 closures)
- Off-peak lane closures on upper roadways
- Bikeway and walkway detours
- Service interruptions on D train for 2 weekends
- Necklace lighting outages
Construction Lane Closures

One lane of Lower Roadway closed 24/7 unless…

Brooklyn Bridge inbound closed (nights and weekends only)

Week Days
• One Upper Roadway lane closed off-peak
• AM rush- 4 lanes inbound, 2 lanes outbound
• PM rush- 4 lanes outbound, 2 lanes inbound

Weekends
• Minimum of 2 lanes inbound and outbound
Manhattan Staging Area
- Erect Temporary Work Platforms
- Cable Rewrapping – Cable D
- Suspender Replacement – Cable D
Construction Staging-Cable A

- Erect Temporary Work Platforms
- Cable Rewrapping – Cable A
- Suspender Replacement – Cable A
Project Contact Information

Teresa Toro, Community Liaison (347) 325-1622
manhattanbridgeoutreach@gmail.com

Emergency Contact: 911

Non-Emergencies: 311 (refer to Manhattan Bridge Contract #14)
Questions?

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