

Attach To Contract Document

**NEW YORK CITY DEPARTMENT OF TRANSPORTATION
DIVISION OF BRIDGES
OFFICE OF CONSULTANT PROGRAMS**

**RESIDENT ENGINEERING INSPECTION SERVICES
IN CONNECTION WITH**

**RECONSTRUCTION OF MANHATTAN BRIDGE (CONTRACT #14)
REHABILITATION OF CABLES AND SUSPENDERS**

BOROUGHES OF MANHATTAN AND BROOKLYN

BIN# 2-24002-7, 8

CONTRACT NO.: BRC156RA

PIN: 84108MBBR237

ADDENDUM # 1

DECEMBER 28, 2007

This Addendum Is Hereby Made Part of the Contract Documents

NOTE:

Attached please find:

- 1. Addendum No. 1**
- 2. Scope of Work (SR-1R to SR-3R)**

December 28, 2007

Addendum No. 1

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Refer to Section VII (A) "Proposed Contractual Agreement" of the original RFP.

Delete: Scope of REI Work, SR-1 and SR-2

Replace with: Scope of REI Work, SR-1R to SR-3R

Refer to Section III (D) "Opportunity for Disadvantaged Business Enterprise" of the original RFP.

Question #1 What is the legal and/or policy basis for requesting the firms to get 11% DBE utilization goal with good faith effort?

Answer #1- The NYC Department of Transportation encourages firms to meet New York State's Disadvantaged Business Enterprise (DBE) utilization goal of 11%. The successful proposers must show good faith efforts that it attempted to meet the DBE goal. Please note that the DBE Utilization goal is a requirement due to the source of funding for this project.

Specific Requirements of the Contract for the Services of the Consultant

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SCOPE OF WORK

1. General Description of Construction Project Scope

Scope of Work: The work to be performed under this construction shall include, but not be limited to the following activities:

A. MAIN CABLE REWRAPPING

1. REMOVAL OF EXISTING CABLE WRAPPING WIRES.
2. REMOVAL AND DISPOSAL OF EXISTING RED LEAD PASTE AS PER ENVIRONMENTAL REGULATIONS.
3. REWRAPPING OF CABLE WIRES WITH NEW GALVANIZED ROUND WRAPPING WIRES.
4. REPAIR OF EXISTING BROKEN CABLE WIRES.
5. INSTALLATION OF CABLE GUARD HYPOLON WRAP OVER THE CABLE WRAPPING WIRES.

B. REPLACEMENT OF SUSPENDER ROPES

1. REMOVAL OF SUSPENDER ROPES
2. REMOVAL AND REPLACEMENT OF BOTTOM CHORD CONTINUITY PLATES.
3. INSTALLATION OF NEW SUSPENDERS AND CONNECTIONS AT THE TOP CHORDS.
4. INSTALLATION OF 11 SUSPENDERS AT EACH FOUR CABLES AND IT'S CONNECTION AT BOTTOM CHORD IN THE MIDDLE OF MAIN SPAN OF THE BRIDGE.
5. MEASUREMENT OF CABLE BAND BOLT TENSION AND RETIGHTENING OF CABLE BAND BOLTS.

C. REPLACEMENT OF NECKLACE LIGHTING

1. REMOVAL OF EXISTING NECKLACE LIGHTING SYSTEM.
2. INSTALLATION OF NEW NECKLACE LIGHTING WITH LED SYSTEM LIGHTING FIXTURE.
2. REPLACEMENT OF CABLE HAND ROPES.

- D. REVERSAL OF LOWER ROADWAY AND OPERATION OF HOV LANE
- E. INSTALLATION OF INSPECTION PLATFORMS AT TOWERS BETWEEN TRUSS A-B AND TRUSS C-D

3. General Description of Construction Project Scope

- a. Ensures the contractor's compliance with plans and specifications as designed.
- b. Reviews and negotiate change orders
- c. Responsible for enforcing and coordinating with the contractor all issues related to Lead Health and Safety Program.
- d. Construction coordination with NYCT, NYCDOT, OCMC and the Coast Guard
- e. Reviews and certifies estimates for payment
- f. Coordination with community board
- g. Maintenance of construction records
- h. Monitors construction records
- i. Ensures the quality of material and workmanship

4. Funding : 100 % City funding

5. Necessity for services

The objective of this bridge reconstruction project is to improve the current condition of the Manhattan Bridge in several specific issues:

Cable rewapping:

The existing main cable wrapping was originally installed in 1909 and have not been replaced since then. Extensive surface deterioration with paint peeling and heavy rusting were observed on all wrapping wires throughout the suspended spans. Since the red lead paste applied in 1909 between the wrapping wires and main cable wires had dried out and new protective coating is needed, it is recommended that environmentally hazardous lead paste be removed along with the wrapping wires and be replaced with new along with new exterior protection system.

Suspender replacement:

The existing suspender ropes had been replaced in 1937 and 1954. The suspender ropes are found generally corroded without paint coating along the entire length. Heavy rusting with many broken wires was observed at the bottom of ropes where they are socketed at the truss bottom chord. In 2001, a study was performed to evaluate the condition of these suspender ropes. In June 2001, the Study Report was submitted to NYCDOT, which recommended removing and replacing all suspender ropes. Emergency replacements of the most damaged suspender ropes were done during Construction of Contracts 8C, 10 and 11.

Necklace Lighting Replacement

It is also recommended that the existing necklace lighting be replaced with a new lighting system that utilizes longer life light fixtures and consumes less electrical power.

Reversal of lower roadway and operation of HOV lane

The NYCDOT reopened the lower roadway of the Manhattan Bridge to vehicular traffic on Monday October 1, 2007. Several improvements in traffic flow were implemented to manage the number the number of vehicles traveling to Manhattan, improve travel time, and reduce congestion, one of the improvements on traffic flow over the bridge is reversing the lower roadway and operating an HOV lane, which is in effect Monday through Friday. A contractor is needed to open, close and to do other associated tasks necessary to manage traffic approaching and exiting the bridge.

Installation of inspection platforms at towers between truss A-B and truss C-D

The area of the truss bearings at both sides of the main towers is not currently accessible due to lack of maintenance and inspection platform. In this situation, maintenance of the bridge members located in these areas is omitted or not performed, as the existing Maintenance Manual requires. Complementary details and scope of this activity are presented in drawings AP-1 through AP-18 from Contract No. BRC156A.

6. SPECIAL NOTICE TO CONSULTANT RESIDENT ENGINEER

In addition to the above stated tasks and responsibilities, the REI shall also provide Constructability Review of the Design Documents of Manhattan Bridge Contract for Rehabilitation of Cables and Suspenders to ensure rational bids and minimize problems during construction in accordance with requirements of NYSDOT's EI 99-013.