

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 # 2

JANUARY 11, 2008

This Addendum Is Hereby Made Part of the Contract Documents

NOTE:

Attached please find:

- 1. Addendum No. 2**
- 2. Revised Scope of Work (SR-1R1 to SR-3R1)**
- 3. Revised Form 1T-R**

January 11, 2008

Addendum No. 2

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Refer to Addendum #1- Scope of Work- Pages SR-1R1 to SR-3R1.

Delete: Scope of Work, SR-1R to SR-3R in Addendum #1

Replace with: Scope of Work SR-1R1 to SR-3R1 in this Addendum #2.

Refer to Section VII (D) Form 1T- "Quality & Relevance of Prior Experience" in the original RFP.

Delete: Form 1T in the original RFP.

Replace with: Revised Form 1T-R in this Addendum #2.

QUESTIONS AND ANSWERS

Question #1 What is the REI's scope of work for the weekend reversal of the Lower Roadway?

Answer #1 The REI responsibility is to supervise and monitor the contractor operation on weekdays for the reversal of traffic on the Lower Roadway. Any weekend closure will be related to the main contract work. Refer to the revised Scope of Work-Page SR-2R1-Task D "Reversal of Lower Roadway and Operation of HOV Lane" in this Addendum #2.

Question #2 NYCDOT has requested that quality and relevance of prior experience (Form 1T) be determined/evaluated based on projects completed in the last five (5) years with scope similar to work required under Contract 14. However, no full-scale New York area cable rehabilitation projects have taken place since 2001. Therefore, would it be more appropriate to extend the time frame back 10-15 years, allowing consultants to highlight major cable rehabilitation projects completed in the New York area?

Answer #2 DOT agrees to increase the time frame for relevant experience from five (5) years to fifteen (15) years. (See Revised 1T-R Form in this Addendum #2)

Proposers are advised that the Authorized Agency Contact Person for all matters concerning this Request for Proposal is:

Dr. Paul-Michael Kazas
Director, Capital Procurement
2 Rector Street, 8th Floor
New York, New York 10006
Telephone: (212) 442-7654
Fax: (212) 442-9885

Specific Requirements of the Contract for the Services of the Consultant

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SCOPE OF WORK

1. 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.
 3. 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

2. 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

3. Funding : 100 % City funding

4. 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 rewinding:

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.

5. 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.

FORM 1T-R

QUALITY & RELEVANCE OF PRIOR EXPERIENCE
(FIRM IN GENERAL)

PIN: 84108MBBR237

PROJECT NAME: Reconstruction of Manhattan Bridge (Contract #14),
Rehabilitation of Cables and Suspenders

CONTRACT NO.: _____

CONSULTANT: _____

PROFESSIONAL ENGINEERING/
ARCHITECTURAL SERVICES

OTHER/_____

DESCRIBE

QUALITY & RELEVANCE OF PRIOR EXPERIENCE – (FIRM IN GENERAL)

1) Proposer will include relevant experience in Bridge REI work in the last **fifteen (15)** years. Proposer should consider work with City, State and Federal agencies.

2) List all current and prior projects completed within the last **fifteen (15)** years for REI services. Specifically identify whether any of those projects involved a scope similar to the referenced contract. For each project, provide the following information:

- Description/Name of Project
- Dollar Value of Project
- Contract Term
- Contract Status
- Owner/Client
- Owner Project Manager
- Telephone No.
- Email

NYCDOT reserves the right to request data to verify information provided above.

3) Provide a discussion on the form’s ability to retain its employees. Complete the attrition chart below:

Average attrition rate for past 3 calendar years:

Total number of technical employees as of August 1st of last year ____ . (a)
 Number of technical employees who left firm during last calendar year ____ . (b)
 Total number of technical employees as of August 1st of previous cal. year ____ . (c)
 Number of technical employees who left firm during previous calendar year ____ . (d)
 Total number of technical employees as of August 1st of 2nd previous cal. Year ____ . (e)
 Number of technical employees who left firm during 2nd previous calendar year ____ . (f)

b/a = ____ (g) d/c = ____ (h) f/e = ____ (i)

Average attrition rate = (g+h+i) / 3 = ____.

NYCDOT reserves the right to request data to verify information provided in the attrition table.