

**DEPARTMENT OF DESIGN AND CONSTRUCTION  
REQUEST FOR PROPOSALS FOR SPECIFIC PROJECT  
UNDER REQUIREMENTS CONTRACT**

**HWDRCW02  
PIN: 8502014VP0011P-20P**

**ENGINEERING DESIGN AND RELATED SERVICES FOR  
CAPITAL PROJECT: SANDRESM1**

**FEASIBILITY STUDY AND PRE-SCOPING SERVICES FOR  
EAST SIDE COASTAL RESILIENCY**

**BOROUGH OF MANHATTAN**

**TABLE OF CONTENTS**

**PREFACE**

- 1. TIMETABLE**
- 2. FORMAT AND CONTENT OF THE PROPOSAL**
- 3. PROPOSAL EVALUATION AND TASK ORDER AWARD PROCEDURES**

**A. SPECIFIC REQUIREMENTS WITH THE FOLLOWING ATTACHMENTS:**

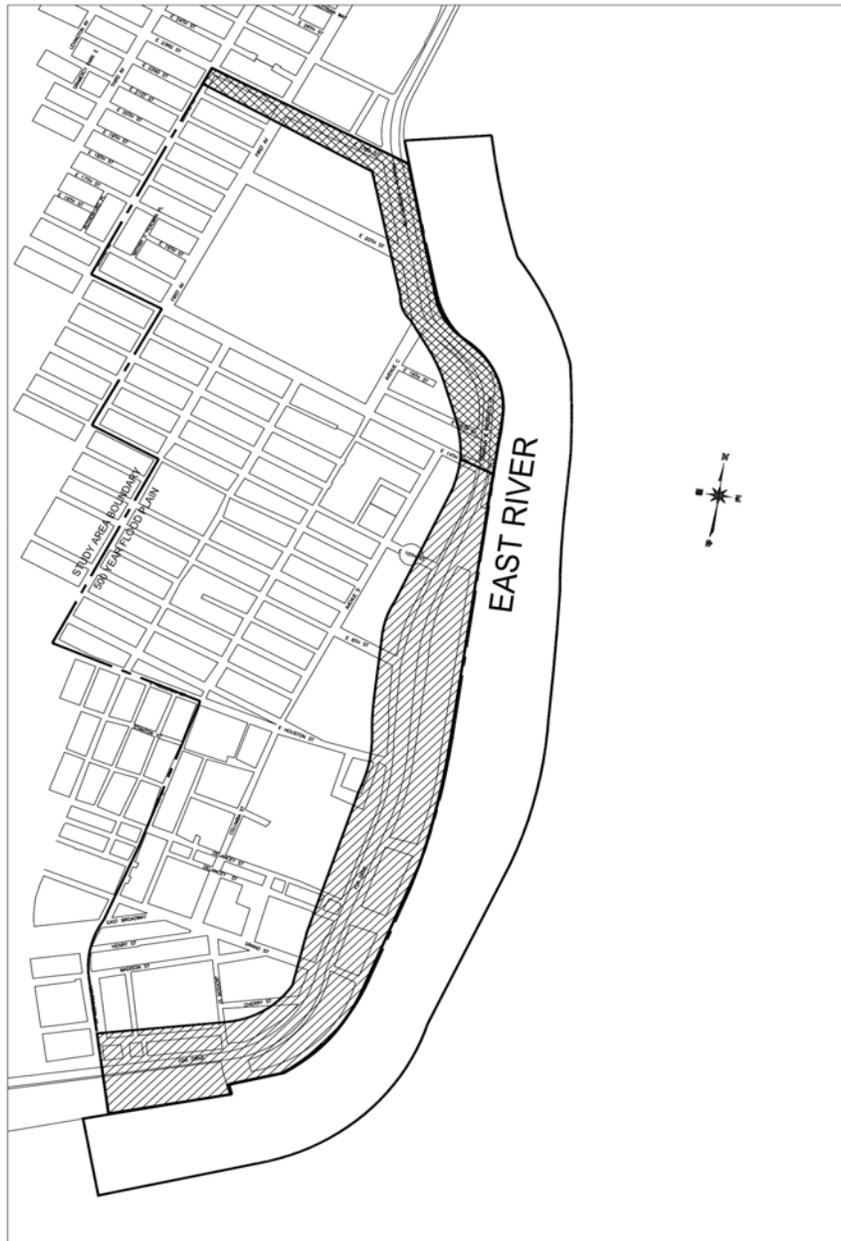
- ATTACHMENT 1 - IDENTIFICATION OF KEY PERSONNEL**
- ATTACHMENT 2 - IDENTIFICATION OF SUBCONSULTANTS**
- ATTACHMENT 3 - CURRENT AND ANTICIPATED WORKLOAD DISCLOSURE**
- ATTACHMENT 4 - PROJECT SCHEDULE**
- ATTACHMENT 5 - ACKNOWLEDGEMENT OF ADDENDA**
- ATTACHMENT 6 - FEE PROPOSAL**
- ATTACHMENT 7 - REIMBURSABLE SERVICES BREAKDOWN**
- ATTACHMENT 8 - M/WBE – SCHEDULE B**
- ATTACHMENT 9 - HUD RIDER**
- SCHEDULE A**

**PREFACE**

The New York City Department of Design and Construction (DDC) has awarded contracts to ten Consultants to provide engineering design services for design of infrastructure projects (PIN: 8502014VP0011P-20P). As part of this effort, DDC, in partnership with the New York City Department of Parks and Recreation ("DPR") and the Mayor's Office of Recovery and Resiliency ("ORR"), requests proposals for engineering, planning, landscape architecture, urban design, and community engagement services for preparing all analyses, surveys, designs, permit identification and related documents for the development of:

**FEASIBILITY STUDY AND PRE-SCOPING SERVICES FOR  
EAST SIDE COASTAL RESILIENCY**

**BOROUGH OF MANHATTAN**



Project Location Map

**SECTION I. TIMETABLE****A. RFP Issuance**

Pre-Proposal Conference: A pre-proposal conference is not required.

Submission Deadline: The proposer shall deliver, on or before **4:00PM on October 10, 2014**, in a clearly marked and **separately sealed** volumes for (1) Technical Proposal and (2) Fee Proposal as follows:

- (1) Volume 1: Technical Proposal with project name and Identification Number (1 original and 9 copies of Volume 1).
- (2) Volume 2: Fee Proposal with project name and Identification Number (1 original).

Proposals shall be hand delivered to the contact person at the location listed below. Proposals received after the applicable due date and time prescribed in the RFP are late and will not be accepted except at the discretion of DDC pursuant to the applicable section of the City Procurement Policy Board Rules.

Nitin Patel, P.E.  
Director, Program Administration  
Department of Design and Construction  
30-30 Thomson Avenue, 3rd Floor (Entrance on 30th Place)  
Long Island City, NY 11101  
Telephone :(718) 391-2505  
e-mail: [pateln6@ddc.nyc.gov](mailto:pateln6@ddc.nyc.gov)

NOTE: Respondents are held responsible for ensuring that the DDC Program Administration section receives the RFP response package by the deadline. Respondents are warned not to rely on signed delivery slips from their messenger services. Occasionally packages are delivered to the School Construction Authority located in the same building and the packages are not forwarded to DDC in a timely manner. Entrance to DDC is on 30<sup>th</sup> Place, not Thomson Avenue despite our Thomson Avenue house number.

- B. Inquiries: In the event a proposer desires any explanation regarding the meaning or interpretation of this RFP, such explanation must be requested in writing, no later than one week prior to the submission date prescribed in the RFP. In the event DDC determines that it is necessary to respond to the inquiry in writing or by email, such response will be furnished as an addendum to the RFP. All inquiries must be directed **ONLY** to the contact person listed above.
- C. Addenda: Receipt of an addendum to this RFP by a proposer must be acknowledged by attaching an original signed copy of the addendum (ATTACHMENT 5) to the proposal for the project. All addenda shall become a part of the requirements for this RFP.
- D. RFP Schedule: The following is the estimated timetable for receipt and evaluation of the proposals and selection of a Consultant. This is only an estimate and is provided to assist responding proposers in planning.
  - (a) Identify Technical Rating of the proposers: Within two and half (2.5) weeks of submission deadline
  - (b) Negotiate Fee Proposal: Within two (2) days of (a) above
  - (c) Complete Registration: Approximately two (2) months from the date of Consultant selection

**SECTION II. FORMAT AND CONTENT OF THE PROPOSAL****A. Proposal Subdivision Instructions:**

Proposers should provide all information required in the format below. The proposal should be typed on both sides of 8½" X 11" paper. The City of New York requests that all proposals be submitted on paper with not less than 30% post-consumer material content, i.e., the minimum recovered fiber content level for reprographic paper recommended by the United States Environmental Protection Agency (for any changes to that standard please consult: <http://www.epa.gov/epawaste/conserva/tools/cpg/index.htm>). Pages should be paginated. The proposal will be evaluated on the basis of its content, not its length. Failure to comply with any of these instructions will not make the proposal non-responsive. Submit proposal in a clearly labeled, separately sealed packages as follows:

1. Technical Proposal (1 original and 9 copies): The Technical Proposal shall contain all the information requested in Subsection B below.
2. Fee Proposal (1 original): Fee Proposal shall contain all the information requested in Subsection C below.

**B. The Technical Proposal shall contain the information described below:**

1. Cover Letter: Submit a one page letter, indicating the company name and address, and the name, address and telephone number of the person authorized to represent the firm. ***(Be sure to refer to the proper DDC project number, Task Order number, and title).***
2. Technical Approach: Respond to the items listed below.

Since this project is to build upon the Rebuild by Design-sponsored winning proposal "The Big U" for the Tasks "Conceptual Design Development" specified in Specific Requirements, the proposer shall:

Name four (4) important factors that should be considered while designing the conceptual design alternatives; and under three separate below titles describe in detail:

1. The reason(s) for their importance,
  2. Their impacts on conceptual design, and
  3. The proposer's own methodology and technical approach for completing the relevant tasks in resolving the four factors above.
3. Firm and Sub-Consultant Experience: The proposer shall include firm experience in similar projects.

Key Personnel: The proposer shall identify the individuals who will provide services as Key Personnel in Attachment 1 included in this RFP, as per Article 5 of the Contract. Any proposed personnel provided by the Consultant and/or Subconsultant must satisfy the minimum requirements per title set forth in Exhibit D of the Contract.

Project Personnel: The proposer shall submit a detailed Project Organization Chart, which identifies by name, title and employer of all individuals who will be assigned to this project. Such Chart shall also specify the responsibilities assigned to each title of personnel.

The proposer shall submit resume(s) for all personnel assigned to this project. Each resume shall be limited to **two (2) pages**.

Subconsultants: The proposer shall identify the subconsultant(s) proposed in Attachment 2 included in this RFP from the subconsultants shown in Exhibit B of its Contract. The proposer can identify additional subconsultant(s) in addition to those listed in Exhibit B of its Requirements Contract in order to respond to the unique needs of this project and to complete the project within the schedule identified in Section B-5 below.

4. Firm's Capability: Using Attachment 3 included in this RFP, the proposer shall list its current and anticipated workload with New York City/State Agencies and Authorities projects.

The proposer shall list each individual Task Order and Supplemental Task Order which are under the same Contract.

5. Proposer's detailed Project Schedule: The proposer shall submit Project Schedule (Attachment 4 included in this RFP) for all deliverables required in Schedule A. In addition, the proposer shall submit detailed Project Schedule in a bar-chart format as specified in the General Requirements, Section 3.O.4.c. The proposer should take into account the agency expectation of the detailed approved scoping by June 2015 and Conceptual Design three (3) months thereafter, based on the delivery of survey and soundings result in January 2015.

The Bar Chart Schedule shall indicate execution of all tasks as applicable including the interrelationship and dependency of the various activities required under the tasks included in the Specific Requirements.

6. Acknowledgement of Addenda: The Acknowledgement of Addenda form (Attachment 5 included in this RFP) serves as the proposer's acknowledgement of the receipt of addenda to this RFP that may have been issued by the Agency prior to the proposal due date and time. The proposer should complete this form as instructed on the form.

This project is funded by a HUD CDBG-DR grant. As such, changes may be required in this RFP, due to the content of pending Grant Notice to be published in the Federal Register. In such case, addenda issued should be acknowledged as per this section.

C. Fee Proposal - Attachment 6 included in this RFP

The Fee Proposal consists of Attachment 6, Attachment 7, and Schedule A (included in this RFP). The proposer shall also include its staffing table based on all inclusive hourly rates as approved in Exhibit C included in its requirement contract to substantiate the lump sum fees for each task provided in Attachment 6.

For the purpose of Funding, the Proposer shall estimate, total expenditure from contract initiation to February 28, 2015. The proposer shall include this information in its Fee Proposal in a separate letter.

D. Proposal Package Contents (“Checklist”): The Proposal Package should consist of the following TWO packages:

1. Volume 1: Technical Proposal (1 original and 9 copies):  
Sealed package identifying the project and clearly labeled as “Volume 1 - Technical Proposal”, including:
  - Identification of Personnel (Attachment 1)
  - Identification of Subconsultants (Attachment 2)
  - Current and Anticipated Workload Disclosure for New York City/State Agencies and Authorities Projects (Attachment 3)
  - Project Schedule (Attachment 4)
  - Acknowledgement of Addenda (Attachment 5)
  
2. Volume 2: Fee Proposal (1 original):  
Sealed package identifying the project and clearly labeled as “Volume 2 -Fee Proposal”, including:
  - Fee Proposal (Attachment 6)
  - Reimbursable Services Breakdown (Attachment 7)
  - M/WBE – Schedule B (Attachment 8)
  - SCHEDULE A
  - Staffing Table
  - Funding Letter (See Section II.C)

**SECTION III. PROPOSAL EVALUATION AND TASK ORDER AWARD PROCEDURES****A. Selection Process**

This is a Qualifications/Quality Based Selection (QBS) project. A DDC evaluation committee will review, evaluate and score all technical proposals, pursuant to the criteria described below. This evaluation will determine each proposer's score. Proposers will be ranked in accordance with their scores, and technical ranking of the proposers will be established for the project. DDC reserves the right to interview the top 3 ranked proposers and visit their offices for the purpose of clarifying their proposals, after which their initial scores may be re-evaluated.

The Fee Proposal of the highest ranked proposer will be opened and reviewed. If negotiations with the highest ranked proposer are successful, the proposer will be issued the Task Order. If negotiations are not successful, DDC will enter into negotiations with the next highest ranked proposer(s).

**B. Technical Proposal Evaluation Criteria for Task Orders**

The proposal evaluation criteria are as follows:

- |   |              |
|---|--------------|
| a. Proposer's Technical Approach  | (weight 35%) |
| b. Key Personnel in Attachment 1 and Proposer's Project Organization Chart, including firm experience in similar projects         | (weight 25%) |
| c. Proposer's detailed Project Schedule in a bar-chart format (Attachment 4)  | (weight 15%) |
| d. Proposer's Design Workload with New York City/State Agencies and Authorities at the time of proposal submission (Attachment 3) | (weight 25%) |

**C. Basis of Award:**

The Department of Design and Construction will award contract to the responsible Consultant whose proposal is determined to be of the highest quality and most advantageous to the City, taking into consideration the overall quality of the proposal as measured against factors or criteria as set forth in the Request for Proposals and successful negotiation of an appropriated fee.

**THE CITY OF NEW YORK  
DEPARTMENT OF DESIGN AND CONSTRUCTION  
BUREAU OF INFRASTRUCTURE  
DESIGN DIVISION**

|                                  |                        |
|----------------------------------|------------------------|
| <b>REQUIREMENTS CONTRACT NO.</b> | <u><b>HWDRCW02</b></u> |
| <b>NAME OF CONSULTANT</b>        | _____                  |
| <b>TASK ORDER NO.</b>            | _____                  |
| <b>FMS ID NO.</b>                | _____                  |
| <b>REGISTRATION NUMBER</b>       | _____                  |

**SPECIFIC REQUIREMENTS FOR**

**PROJECT ID. SANDRESM1**

**FEASIBILITY STUDY AND PRE-SCOPING SERVICES FOR  
EAST SIDE COASTAL RESILIENCY**

**BOROUGH OF MANHATTAN**

**I. DESCRIPTION OF PROJECT**

A. INTENT. It is the intent of this Task Order to prepare Pre-Scoping Documents for:

Project ID. SANDRESM1

**FEASIBILITY STUDY AND PRE-SCOPING SERVICES FOR  
EAST SIDE COASTAL RESILIENCY**

TOGETHER WITH ALL WORK INCIDENTAL THERETO

BOROUGH OF MANHATTAN

B. BACKGROUND INFORMATION. The following documents that are pertinent to this project will be provided by the City:

1. The "BIG U" Rebuild by Design Proposal  
<http://www.rebuildbydesign.org/project/big-team-final-proposal/>
2. A Stronger, More Resilient New York  
<http://www.nyc.gov/html/sirr/html/report/report.shtml>
3. Vision 2020  
[http://www.nyc.gov/html/dcp/pdf/cwp/vision2020\\_nyc\\_cwp.pdf](http://www.nyc.gov/html/dcp/pdf/cwp/vision2020_nyc_cwp.pdf)
4. A People's Plan for the East River Waterfront (2009)  
<http://caaav.org/publications/PeoplePlanFINAL.pdf>
5. East River Blueway Plan (2013)  
<http://www.eastriverblueway.org/wp-content/uploads/2013/05/TheEastRiverBluewayPlan.pdf>
6. Pier 42 Master Plan and Design (to date)
7. Community Board 3 District Needs Statement
8. [http://www.nyc.gov/html/mancb3/downloads/cb3docs/fy\\_2016\\_needs\\_statement.pdf](http://www.nyc.gov/html/mancb3/downloads/cb3docs/fy_2016_needs_statement.pdf) Community Board 3  
FY15 Capital Priorities  
[http://www.nyc.gov/html/mancb3/downloads/cb3docs/fy\\_2015\\_capital\\_priorities.pdf](http://www.nyc.gov/html/mancb3/downloads/cb3docs/fy_2015_capital_priorities.pdf)
9. Community Board 3 FY 15 Expense Priorities  
[http://www.nyc.gov/html/mancb3/downloads/cb3docs/fy\\_2015\\_expense\\_priorities.pdf](http://www.nyc.gov/html/mancb3/downloads/cb3docs/fy_2015_expense_priorities.pdf)
10. Community Board 3 Sandy: Lessons Learned  
<http://www.nyc.gov/html/mancb3/downloads/sandy/After%20Sandy.pdf>
11. Community Board 3 Waterfront Report (2004)  
<http://www.nyc.gov/html/mancb3/downloads/waterfront/CB3WaterfrontPlan.pdf>
12. Community Board 6 District Needs Statement  
[http://www.nyc.gov/html/dcp/pdf/pub/mnneeds\\_2013.pdf](http://www.nyc.gov/html/dcp/pdf/pub/mnneeds_2013.pdf)
13. East River Esplanade Plan (2009)  
<http://www.nycedc.com/project/east-river-waterfront-esplanade>
14. DPR High Performance Landscape Guidelines  
[http://www.nycgovparks.org/sub\\_about/go\\_greener/design\\_guidelines.pdf](http://www.nycgovparks.org/sub_about/go_greener/design_guidelines.pdf)
15. DCP Designing for Flood Risk  
[http://www.nyc.gov/html/dcp/pdf/sustainable\\_communities/designing\\_flood\\_risk.pdf](http://www.nyc.gov/html/dcp/pdf/sustainable_communities/designing_flood_risk.pdf)
16. DCP Urban Waterfront Adaptive Strategies  
[http://www.nyc.gov/html/dcp/pdf/sustainable\\_communities/urban\\_waterfront.pdf](http://www.nyc.gov/html/dcp/pdf/sustainable_communities/urban_waterfront.pdf)
17. EDC Waterfront Facilities Maintenance Management System, Inspection Guidelines Manual  
[http://www.nycedc.com/system/files/files/page/Waterfront%20Inspection%20Guidelines\\_0.pdf](http://www.nycedc.com/system/files/files/page/Waterfront%20Inspection%20Guidelines_0.pdf)
18. NYCDDC High Performance Infrastructure Guidelines date October 2005  
<http://www.nyc.gov/html/ddc/html/pubs/publications.shtml#sustainableguides>
19. NYCDOT Street Design Manual 2009 and Checklist  
<http://www.nyc.gov/html/dot/html/about/streetdesignmanual.shtml>
20. Active Design Guidelines  
[http://www.nyc.gov/html/ddc/html/design/active\\_design.shtml](http://www.nyc.gov/html/ddc/html/design/active_design.shtml)
21. DOT Typical Markings Plans  
[http://www.nyc.gov/html/dot/downloads/pdf/nycdot\\_highwaydesign\\_typicalmarkings.pdf](http://www.nyc.gov/html/dot/downloads/pdf/nycdot_highwaydesign_typicalmarkings.pdf)
22. New York City Bike Map  
<http://www.nyc.gov/html/dot/html/bicyclists/bikemaps.shtml>
23. NYCDOT The Economic Benefits of Sustainable Streets

- [http://www.nyc.gov/html/dot/downloads/pdf/dot-economic-benefits-of-sustainable\\_streets.pdf](http://www.nyc.gov/html/dot/downloads/pdf/dot-economic-benefits-of-sustainable_streets.pdf)
- 24. DEP Green Infrastructure Program  
[http://www.nyc.gov/html/dep/html/stormwater/using\\_green\\_infra\\_to\\_manage\\_stormwater.shtml](http://www.nyc.gov/html/dep/html/stormwater/using_green_infra_to_manage_stormwater.shtml)
- 25. FEMA flood protection design standards (see attachment)
- 26. FEMA Preliminary FIRMs  
<http://hazards.fema.gov/femaportal/prelimdownload/>
- 27. Sandy Inundation Map  
<http://www.arcgis.com/home/webmap/viewer.html?webmap=307dd522499d4a44a33d7296a5da5ea0>
- 28. Sandy Inundation Data  
<http://www.arcgis.com/home/item.html?id=307dd522499d4a44a33d7296a5da5ea0>
- 29. Future Flood Maps Data:  
2020s 100-year: <https://data.cityofnewyork.us/Environment/Sea-Level-Rise-Maps-2020s-100-year-Floodplain-/ezfn-5dsb>  
2020s 500-year: <https://data.cityofnewyork.us/Environment/Sea-Level-Rise-Maps-2020s-500-year-Floodplain-/ajyu-7sgg>  
2050s 100-year: <https://data.cityofnewyork.us/Environment/Sea-Level-Rise-Maps-2050s-100-year-Floodplain-/hbw8-2bah>  
2050s 500-year: <https://data.cityofnewyork.us/Environment/Sea-Level-Rise-Maps-2050s-500-year-Floodplain-/qwca-zqw3>
- 30. HUD Rider
- 31. Sewer I & I Map
- 32. Water Main DDM Maps
- 33. Existing soil boring records
- 34. Con Edison Gas plates
- 35. Con Edison Electric plates
- 36. Sewer Outfall inspection records
- 37. Sewer Outfall as-built records
- 38. Sewer and Water Main scope of work, if any
- 39. FDR As-Builts (As Available)
- 40. Pedestrian Bridges As-Builts (As Available)
- 41. Topographic Survey (completion date expected February 2015)

## C. OBJECTIVES:

The purpose of this project is build upon the Rebuild by Design-sponsored winning proposal "The Big U" (<http://www.rebuildbydesign.org/project/big-team-final-proposal/>) and coastal protection initiatives identified in "A Stronger, More Resilient New York." (<http://www.nyc.gov/html/sirr/html/report/report.shtml>)

The Consultant shall provide technical analysis and Pre-Scoping including conceptual design services in connection with performing the work as more fully described in "Section II – Services to be Performed by the Consultant." This project shall include the preparation of site analysis, community engagement, feasibility study, conceptual design alternatives with a phasing plan, cost analysis and environmental review and permitting. The designs shall be comprised of distinct geographic areas, each of which can support resiliency and community protection and be implemented as a stand-alone measure. Each stand-alone measure shall be designed with the capability of future enhancement, and with the flexibility to account for future resiliency goals.

Study Area - The study area is generally bounded by 23rd Street to the North, the 2050 500-year-flood plain to the West (as generally defined by 2nd Avenue from 23rd Street to 14th Street, 1st Ave from 14th Street to 9th Street, Avenue A from 9th Street to East Houston, and Pitt Street/Montgomery Street south of East Houston), Montgomery Street to the South, and the U.S. Pier-head line in the East River to the East.

Project Area One - Project Area One is generally bounded by 14th Street to the North, the west side of the Franklin D. Roosevelt East River Drive, Montgomery Street to the South, and the U.S. Pier-head line in the East River to the East.

Project Area Two - Project Area Two is generally bounded by 23rd Street to the North, the west side of the Franklin D. Roosevelt East River Drive, 14th Street to the South, and the U.S. Pier-head line in the East River to the East.

See Figure 1 - Study Area and Project Areas on the following page.

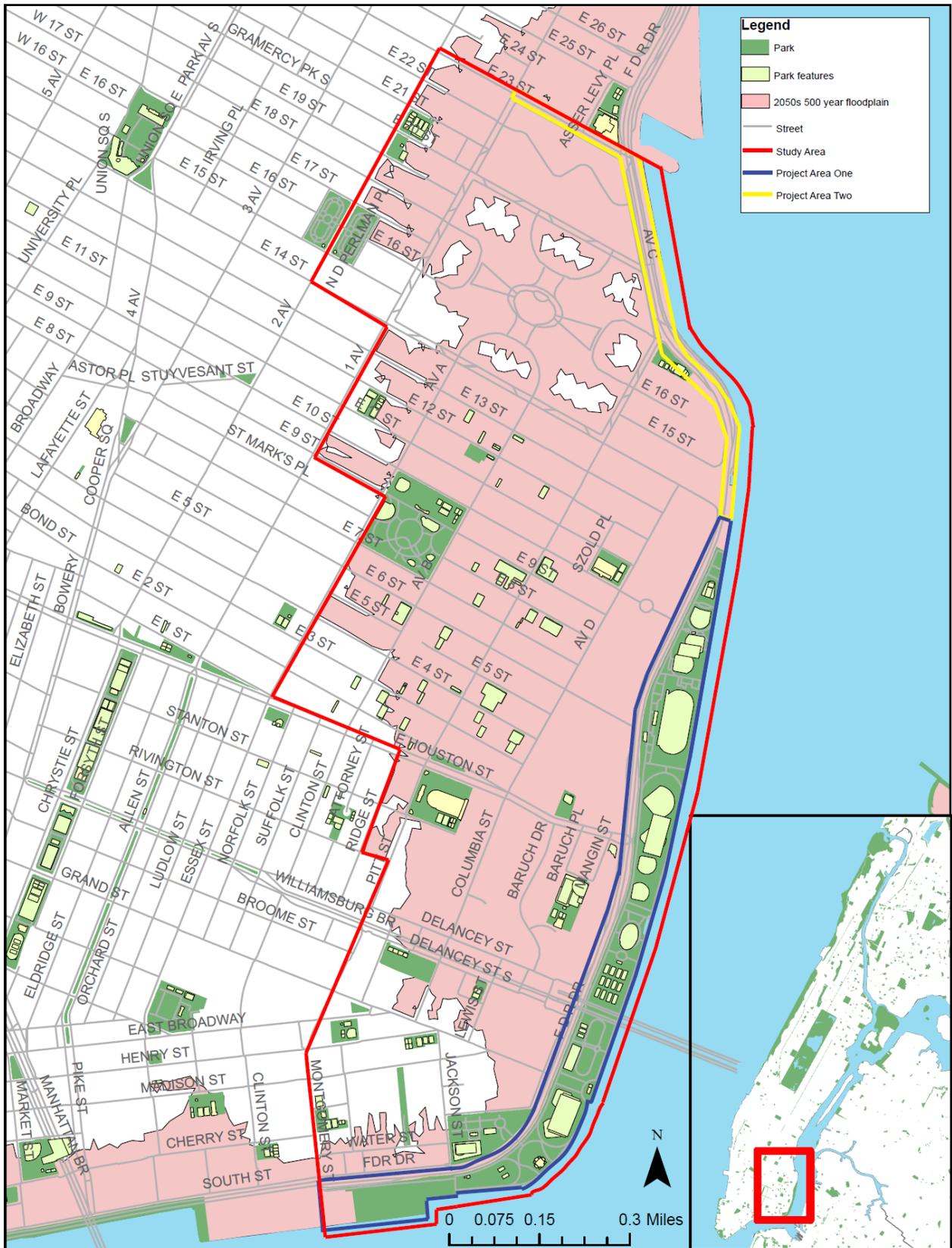


Figure 1 – Study Area and Project Areas

**Project Overview**

This project builds upon the Rebuild by Design proposal for coastal protection for the East Side of Manhattan, from Montgomery Street to E. 23<sup>rd</sup> Street. The intent is to protect neighborhoods and infrastructure from future storm surge and rising sea levels, as well as improve recreational opportunities and accessibility to the park and waterfront.

Preliminary work undertaken in HUD's Rebuild by Design program proposes coastal protection interventions based on the changing land typologies:

In East River Park, an undulating berm is to provide coastal protection for the Lower East Side, while also providing more natural and accessible routes into the park from the neighborhood, and a new bike route that weaves through the landscape. The berm is proposed for the current location of the park's service road. East River Park maintenance and operations requirements, currently accommodated through this existing service road, will be incorporated into the berm design. A central project goal is for the proposed berm to provide protection, while retaining the existing recreation amenities, ball fields, and other landscaped areas. The proposal also includes improved waterfront connections through the rehabilitation and/or replacement of existing bridges connecting East River Park to the community, as well as new pedestrian connections and pathways to and within the Park itself. Flood protection near Montgomery Street is to be coordinated with the design work underway for the new Pier 42 Park.

Moving north, around the Con-Ed facility, a new flyover with an integrated levee is proposed to provide a link between sections of the waterfront. Under the FDR Drive at Peter Cooper Village, a series of pavilions are proposed. At the land-side, these could be programmed with commercial functions and other amenities; on the water side, with recreational amenities. Between the pavilions, deployable walls are proposed to provide protection during storm events. These measures would connect to the flood protection of Hospital Row at 23<sup>rd</sup> Street by means of another deployable unit.

**Project Justification**

Currently, many sections of lower Manhattan are in the 100-year floodplain, or the area that has a 1 percent or higher chance of flooding in any given year. As a result, there is high potential of flooding risk to a significant number of residents, commercial, residential and public property. The City of New York is investigating the feasibility of coastal protection infrastructure for the long-term resiliency of public and private property.

The coastal protection alternatives should maintain and/or enhance access, function and aesthetic beauty of the existing park condition and protect public and private property due to flooding from storm surge. The Consultant will need to investigate which design alternatives should be recommended to prevent flooding in lower Manhattan from severe coastal storm events, with consideration of projected future flood levels due to sea level rise.

**Existing Conditions**

The majority of Project Area One is NYC Department of Parks and Recreation parkland (East River Park). East River Park is a highly programmed, multi-use park, featuring multi-picnic/BBQ areas, basketball & tennis courts, and baseball & track fields facilities distributed throughout. At the southern end of the park, phase one of the new Pier 42 park is advancing towards Final Design. There are five (5) bridges within Project Area One at the following locations: East 10<sup>th</sup> Street, East 6<sup>th</sup> Street, East Houston Street, Delancey Street,

and Cherry Street. These bridges span the FDR Drive to provide access to the park. In addition, the Houston Street Bridge is a major vehicular interchange for the FDR Drive.

At the northern end of the park, near the transition into Project Area Two, is Con Edison's East 13<sup>th</sup> Street Complex which contains a wastewater outfall. An elevated section of the FDR Drive starts around East 17<sup>th</sup> Street, with a parking lot located underneath. Stuyvesant Cove Park runs under the FDR Drive and along the East River from East 18<sup>th</sup> Street to East 21<sup>st</sup> Street, with the Solar One site just to the north.

### **Project Structure**

The East Side Coastal Resiliency project is overseen by the New York City Department of Design + Construction ("DDC"), in partnership with the New York City Department of Parks & Recreation ("DPR") and the Mayor's Office of Recovery and Resiliency ("ORR") – the "Project Team." Day-to-day management of the Consultant Team will be performed by DDC. The Project Team will review principal programmatic, design and construction decisions at regularly scheduled meetings.

### **Consultant Team**

The Consultant shall work closely with its Landscape Architectural firm(s) and retain as many Sub-Consultants as necessary to work directly with and to provide all Services as described above.

### **Review and Approvals**

All services shall be performed in accordance with the provisions set forth hereto and shall be subject to the review and approval of DDC. In addition and as further described in Section II – Services to be Performed by the Consultant, the Services shall be performed in accordance with all current applicable local, state and federal codes, rules and regulations, and shall be subject to review and approval by all other applicable Agencies.

**Regulatory Agency Meetings**

The Consultant is expected to engage and coordinate closely with relevant regulatory agencies from the onset of the project. In particular, it is critical that the Consultant maintain close and regular engagement with NYCDOT and NYSDOT, which maintain jurisdiction of the Franklin D. Roosevelt East River Drive, a key piece of transportation infrastructure running adjacent to the Project Study Area. The Consultant is expected to meet with and incorporate feedback from NYCDOT and NYSDOT throughout the course of the project.

The Consultant shall prepare for and attend meetings with public agencies and other governmental entities with an interest in the project, including but not limited to:

- NYC Agencies (DOT, DEP, SBS, NYCHA, LPC, DCP)
- NYS Department of Transportation
- NYS Department of Environmental Conservation
- NY State Historic Preservation Officer (SHPO - NYS Office of Parks, Recreation and Historic Preservation)
- MTA New York City Transit, Bridges and Tunnels
- U.S. Army Corps of Engineers
- U.S. Coast Guard
- National Oceanic and Atmospheric Administration (NOAA)
- U.S. Fish and Wildlife Service
- Federal Emergency Management Agency (FEMA)
- U.S. Department of Housing and Urban Development (HUD)
- NYS Department of State (NYSDS)

## II. SERVICES TO BE PERFORMED BY THE CONSULTANT

- A. **Pre-Scoping Services**: The Consultant shall perform the following Pre-Scoping Services in accordance with the **General Requirements (GR), version June 2013, where noted.**

### NOTE: REVISION TO THE GENERAL REQUIREMENTS

Throughout the General Requirements, there are numerous references to “Preliminary Design” and/or “Preliminary Design Services.” Delete any and all references to “Preliminary Design” and/or “Preliminary Design Services.” All tasks associated with Pre-Scoping Services are essentially the same as those associated with Preliminary Design Services.

## **STUDY AREA**

### **TASK 1: Project Development/Identification – GR Section 4.1**

In addition, the Consultant shall perform the following:

**Data Collection**: Collect and review a comprehensive list of available reports, studies, existing community plans and other background documents, including the Big U proposal, Community Board 3 District Needs Statement, Community Board 3 Waterfront Report (2004), Community Board 6 District Needs Statement, East River Esplanade Plan (2009), A People's Plan for the East River Waterfront (2009), East River Blueway Plan (2013), Pier 42 Master Plan and design to date.

The Consultant shall also review the due diligence file provided by DDC/Project Team, which includes existing as-built designs, master plans, and existing project documentation. Given the information provided in the due diligence file, the respondent shall identify data gaps necessary to complete a scope of studies for conceptual design and construction.

Consultation with and incorporation of data from relevant agencies and entities including, but not limited to NYCDEP, NYCDOT, NYSDOT, NYSDEC, NYCEDC, NYCDCP, private utility companies (including ConEd, Empire City Subway, Verizon, Time Warner Cable, etc) will be required, as well as consideration of existing projects and plans.

**Site Conditions**: Investigate and analyze current conditions including, but not limited to:

1. Natural features (eg. open water, littoral zone, wetlands)
2. Local circulation patterns (vehicular, bicycle, and pedestrian), including park/waterfront access routes and important destinations, as well as existing DPR and NYCDOT maintenance and operations routes and requirements
3. Significant urban design relationships such as view corridors, built character, and local landmarks, overall neighborhood character
4. Known environmental contamination issues, both in-water and upland sites
5. Infrastructure extent and capacity, including location and functioning of all storm water outfalls and Combined Sewer Overflow (CSO) points, as well as wastewater and stormwater capacity

6. Floodplains, including most recent Preliminary Flood Insurance Rate Maps (2013 Preliminary FIRMs), the 2012 Hurricane Sandy Inundation Map, and the projected 2020s, 2050s, 2080s, and 2100 future flood maps
7. Critical infrastructure, including ConEd facilities and substations, NYCT ventilation stacks and emergency exits, CSO discharge points and tide gates

Deliverable(s):

- PDI Report and its Technical Supplements

**TASK 2: Waterfront Structures Inspection Including Bulkheads**

The Consultant shall be responsible for gathering and reviewing all pre-existing waterfront infrastructure inspections data for the length of the Study Area. A DPR Consultant recently completed reconstruction work on relieving platforms and bulkheads for the entire length of East River Park (from 14th Street to Jackson Street (with the exception of the southern-most 600 feet of the Park, from Jackson Street.)

The Consultant shall review recent bulkhead repairs and determine whether any additional work is necessary to implement the Conceptual Design. If additional work is required, the Consultant shall conduct a Rapid Inspection level assessment, based on the scope of work indicated in below. The Consultant shall conduct a Routine Inspection level assessment on areas not inspected, constructed or repaired within the last three (3) years, based on the scope of work indicated on the following pages.

The Consultant shall provide all necessary subsurface and underwater exploration within the Project Area for the purpose of developing design criteria for any new structures and substructures for the bulkheads and any other necessary rehabilitation of the existing structure.

The Scope of work below lays out the requirements for a Rapid and a Routine Waterfront Inspection, as defined in the [NYCEDC Waterfront Inspection Guidelines Manual](#).

Rapid Inspection Scope of Work:

Review Available Existing Site Information: Perform a search of information available from New York City Agencies on the construction and rehabilitation history of the structures to be inspected. The goal of this search is to obtain as much information as possible on the seawalls, bulkheads, piers, and other marine and shore protection structures. This information includes drawings, reports, and permits with such details as load ratings, previous condition inspection results, and previous repairs.

Above and/or Underwater Investigation: A general visual inspection should be performed to confirm any information previously obtained about the site. If information is lacking, the inspection should identify any structures on the property, general condition of said structures, shoreline condition, and location of any unmapped or documented structures.

All commercial diving shall be conducted using a 3-person (minimum) diving team in accordance with applicable OSHA and USCG regulations (29CFR1910 Subpart T and 46CFR197 Subpart B). A minimum of 25 percent of the above water and underwater investigation shall be conducted by the Project Engineer. The Project Engineer shall:

- be a registered/licensed Professional Engineer in the State of New York;

- be a certified commercial diver (in accordance with OSHA requirements);
- be on site for the duration of the field inspection; and

As stated in the Economic Development Corporation (EDC) Waterfront Facilities Maintenance Management System, Inspection Guidelines Manual and clarified herein, the scope of the investigation shall include:

- Level I inspection effort on 100 percent of the elements supporting the pier or comprising the bulkhead including all underwater elements. The purpose of Level I effort is to define the structural elements and to determine the overall structural condition and detect obvious signs of damage or deterioration.
- 100 percent of the above water elements (pile caps, bottom deck surface, and top deck surface) shall be inspected at Level I inspection effort. This effort shall be sufficient to identify, size, and locate significant deterioration such as concrete cracks (greater than 1/16 inch), timber rot, or steel corrosion. Hands-on probing with pick hammers or other appropriate hand tools is required – visual assessment only will not be accepted.

Rapid Inspection Report: The Consultant shall prepare a comprehensive inspection report for each individual site in accordance with Chapter 3 of the Inspection Guidelines Manual. All requirements of this report shall be met including:

- Preparation of sketches as presented in Section A.3.1 of the Inspection Guidelines Manual;
- Statistical analysis of data;
- Above and underwater photographs;
- Recommendations and cost estimates where applicable;
- Appendices with field notes;
- Draft submission for review; and
- Final submission (hard copy and PDF).

For purpose of fee estimate the consultant shall assume 8,200 linear feet of bulkhead to be inspected using the Rapid Inspection method.

#### Routine Inspection Scope of Work

Review Existing Site Information: Perform a search of information available from New York City Agencies on the construction and rehabilitation history of the structures to be inspected. The goal of this search is to obtain as much information as possible on the seawalls, bulkheads, piers, and other marine and shore protection structures. This information includes drawings, reports, and permits with such details as load ratings, previous condition inspection results, and previous repairs.

Underwater Investigation: Perform a Routine Inspection of all accessible waterfront structural elements including any existing fender systems or adjacent bulkheads. Structures supported by the waterfront structures (e.g. buildings and sheds) are not included in this survey, except as necessary to determine their load implications. All commercial diving shall be conducted using a 3-person (minimum) diving team in accordance with applicable OSHA and USCG regulations (29CFR1910 Subpart T and 46CFR197 Subpart B). A minimum of 25 percent of the above water and underwater investigation shall be conducted by the Project Engineer. The Project Engineer shall:

- be a registered/licensed Professional Engineer in the State of New York;
- be a certified commercial diver (in accordance with OSHA requirements);
- be on site for the duration of the field inspection; and
- prepare the Routine Inspection report.

As stated in the EDC Waterfront Facilities Maintenance Management System, Inspection Guidelines Manual and clarified herein, the scope of the investigation shall include:

- Level I inspection effort on 100 percent of the elements supporting the pier or comprising the bulkhead. The purpose of Level I effort is to determine overall structural condition and detect obvious signs of damage or deterioration (such as extensive corrosion, spalling or marine borer infestation), without removal of marine growth. Fender elements shall be inspected at Level I effort only.
- Level II inspection effort on 10 percent of the elements. Level II effort includes cleaning a 12-inch high band of marine growth at three (3) elevations (mean low water, mid-pile and mudline) in order to detect previously obscured surface defects such as corrosion pitting, marine borer deterioration or mechanical damage. For bulkhead and seawall structures, Level II effort shall include cleaning a minimum 12-inch by 12-inch area at three elevations (as above) at minimum 100 foot intervals.
- Level III inspection effort on a minimum of 5 percent of the elements (half of the level II effort elements). Level III effort shall include:
  - Steel - Ultrasonic thickness measurements (UTM) and cathodic potential (CP) readings at each of the three elevations cleaned in the Level II effort. For HP-section piles and steel sheet piles, the UTM readings shall be taken on each flange and each web at three elevations. For pipe piles, the UTM readings shall be taken at four (4) locations spaced evenly around the pile, at each elevation. The CP readings shall be taken at each of the three elevations cleaned in the Level II effort using a Silver-Silver Chloride reference electrode.
  - Concrete – Level III effort for concrete (e.g. coring, half-cell potential, or chloride concentration profiles) shall not be included in the base proposal. A change to the contract will be issued if the cause of deterioration cannot be determined visually (e.g. underwater cracking).
  - Timber – Timber pile diameter measurements shall be taken using a pile caliper or by measuring the circumference of the pile and determining the effective diameter. Upon receiving approval from a DDC engineer, additional incremental cores (0.20 inch diameter by 5 inch long) shall be taken on 5 percent of the elements (at a single elevation only). The holes shall be appropriately sealed and the cores tested for timber species and creosote retention. Level III effort for timber inspection shall not be included in the base proposal and a change to the contract will be issued if the cause of deterioration cannot be determined visually.
- 100 percent of the above water elements (pile caps, bottom deck surface, and top deck surface) shall be inspected at Level I inspection effort. This effort shall be sufficient to identify, size, and locate significant deterioration such as concrete cracks (greater than 1/16 inch), timber rot, or steel corrosion. Hands-on probing with pick hammers or other appropriate hand tools is required – visual assessment only will not be accepted.

Routine Inspection Report: The Consultant shall prepare a comprehensive inspection report for each individual site in accordance with Chapter 3 of the Inspection Guidelines Manual. All requirements of this report shall be met including:

- Preparation of structural engineering calculations with existing capacity and a graph of future capacity versus time;
- Preparation of CAD drawings including the minimum sketches presented in Section A.3.1 of the Inspection Guidelines Manual;
- Statistical analysis of data;
- Above and underwater photographs;
- Recommendations and cost estimates;
- Appendices (including field notes, structural calculations, and cost estimate backup);
- Draft submission for review; and
- Final Submission (hard copy and PDF).

For purpose of fee estimate the consultant shall assume 3,500 linear feet of bulkhead to be inspected using the Routine Inspection method.

Deliverable(s):

- Inspection Reports with back-up documents

**TASK 3: Hydrology/Flood Risk Assessment**

The construction of a shoreline protective measure is primarily aimed at providing protection from storm surge events. However, such protection needs to account for both sea storm surge events and underlying sea level rise. The Consultant shall develop approaches that protect communities and assets in the 2050s 500-year floodplain against flood risk, with the simultaneous goal of providing resiliency benefits and enhanced public open space. The Consultant shall assess the impacts of this structure on anticipated inundation levels and drainage and subsidence of water levels post-storm, with a particular emphasis on existing assets, landscaping, and buildings in the Study Area. These measures may be either a barrier to storm surge/sea level rise or a hardened edge that allows periodic inundation.

This protective measure will also impact the drainage of stormwater runoff from the area behind the barrier. The Consultant shall therefore develop alternative drainage approaches to mitigate this impact with the goal of maintaining the same or improved level of service in the collection system. The alternatives evaluation shall be a structured consideration of the various approaches based on performance, cost, social and environmental considerations, and consistency with agency and citywide goals.

- a. Assess the feasibility of strategies for reorganizing and controlling water flow and providing flood protection within the existing project area. Evaluate potential strategies in terms of their ability to achieve the primary goal of providing flood protection to adjacent neighborhoods and critical infrastructure.
- b. Develop a flood protection/water management design concept. Concepts should reflect creative thinking about and solutions posed by the collection and detention of large volumes of stormwater upland of the protection system during major storm events.

c. Evaluate how the proposed system would affect existing drainage and being implemented, including existing and planned sewer outfalls and their maintenance. Determine whether the draining envisioned would be consistent with prior levels and whether mechanical means such as pumps would be needed to maintain the hydrological profile.

d. Assess how groundwater level rise or storm surge water might flow along subsurface conduit or infrastructure not anticipated when water levels were lower in elevation (e.g. an electrical conduit placed above a storm drain pipeline)

Additional opportunities for mitigating drainage impacts generally fall into these categories:

- Retrofitting grey infrastructure into the existing system
- Constructing new conveyance facilities
- Altering the hydrology tributary to the collection system
- Modifying existing facility operations to change conveyance patterns in the collection system
- Integrating green infrastructure
- Any combination of these.

In addition to mitigation alternatives, the Consultant shall consider and recommend modifications to design criteria currently specified by city agencies as appropriate. For example, the selection of design storm to be used in sizing conveyance pipes may need to be revisited in light of the considerable evidence of increasing storm intensities associated with a changing climate.

The City's existing drainage infrastructure, including sanitary, stormwater, and combined sewers are modeled in InfoWorks (IW) CS and are available from the Department of Environmental Protection (DEP) for the engineer's use. However, prior to running simulations, the engineer shall evaluate the resolution and capability of the model in the vicinity of the project area and update or refine the model as necessary to have confidence in model results. Manhattan is served by the Newtown Creek, North River, and Wards Island Wastewater Treatment Plants (WWTPs). The IW model runs envisioned to be required are summarized below:

1. Pre-barrier conditions: standard DEP 5-year storm, projected future dry weather flows, 2xDDWF capacity at WWTP, and no barrier.
2. Post-barrier conditions: Scenario 1 with the barrier installed and all collection system outfalls closed.
3. Post-barrier with green infrastructure buildout: Scenario 2 with three different levels of green infrastructure buildout in the drainage area spanning a feasible and achievable range.
4. Alternative scenarios: Up to ten approaches to drainage impact mitigation. At a minimum, the Consultant shall consider regulator modifications, tide gates, high level storm sewers, alternative conveyance strategies, and supplemental pumping approaches.

A cost estimate shall be developed for each alternative that has been deemed feasible and in conformance with the drainage plan requirements. The estimate shall include both capital costs and operation and maintenance in perpetuity.

Cost and performance considerations shall be supplemented by the Consultant with a qualitative evaluation of the social and environmental aspects of each alternative. For example, green infrastructure has well-known co-benefits, including carbon sequestration, air quality, urban heat island reduction, and pollinator habitat improvement, and can provide employment opportunities with minimal training such that it may be preferable to another approach with a slightly lower cost. Co-benefits shall include consideration of agency and citywide goals related to reduction of carbon emissions and overall sustainability.

Deliverable(s):

- Hydrology/Flood Risk Assessment Report and back-up documents

**TASK 4: Community Engagement**

The Community Outreach Task described below is intended to run the course of the Project. Throughout the Project, the Consultant will engage with community stakeholders to set priorities, and shape the project process. The Consultant will meet community stakeholders during community meetings, at the direction of the Project Team.

In consultation with the Project Team, the Consultant shall meet with the Community Boards, non-profits, the Council Member, the Borough President, other elected officials, adjacent property owners, and other interested groups, which are anticipated to include LES Ready!, etc.

**a. Stakeholder Meetings**

The Consultant shall conduct approximately 40 individual stakeholder meetings, including meetings with:

- Community Board leadership,
- target constituency groups,
- elected officials and public officials
- large property owners (including NYCHA and NYCHA residents)
- large community developments (including Mitchell Lama, and Co-ops)

The Consultant shall be responsible for preparing community-friendly project materials that clearly articulate the goals of the project, at the direction of the City.

The Consultant is expected to give presentations and shall be responsible for preparing appropriate materials, including renderings, for these presentations.

In consultation with the Project Team, the Consultant shall be responsive to comments and shall compile the results of surveys, individuals and group interviews.

In addition, the Consultant shall compile all minutes, photographs, and other data to document the community outreach.

**b. Broad Community Engagement Sessions**

The Consultant shall develop materials for ten (10) community engagement sessions, and shall assist in the Project Team in presenting Project materials and facilitating public engagement at such meetings.

Based on the needs of stakeholders, the Consultant may be required to produce materials in English, Spanish, and Chinese, as well as provide for simultaneous English/Spanish and English/Chinese translation. The exact nature and number of the community engagement sessions is to be determined in consultation with DDC .

Deliverable(s): The Consultant shall document outreach efforts over the Project duration, provide Project materials for community meetings, provide copies of meeting minutes and give presentations.

#### **TASK 5: Environmental Review and Permitting Identification**

As the project will involve funding from HUD, National Environmental Policy Act (NEPA) review is required in addition to State Environmental Quality Review Act (SEQRA)/City Environmental Quality Review (CEQR) compliance. The Consultant shall prepare the necessary environmental review documentation and any supplemental studies as applicable to satisfy NEPA and SEQRA/CEQR requirements for the federal, State and local approvals to implement the Project. It is expected that the federal and State/City environmental review processes and documentation will be coordinated to the extent practicable in order to avoid duplicative effort (e.g., Environmental Assessment (EA) analyses produced for the NEPA review used or supplemented as necessary to serve as support for the required SEQRA/CEQR findings.)

While the plan is currently at a conceptual level and no conclusions have been drawn regarding potential impact significance, it is noted that the scale of the project may warrant an Environmental Impact Statement (EIS) or a robust federal Environmental Assessment (EA) that provides analyses comparable to those within an EIS prepared for SEQRA/CEQR purposes. The Consultant proposal should describe its strategy for coordination of the environmental review processes and documentation. Should an EIS be required, the Consultant shall attend, participate in and help organize the public scoping session and the public hearing on the Draft Environmental Impact Statement (DEIS). The Consultant will also be responsible for the drafting of the NEPA and SEQRA/CEQR determinations or findings to conclude the review and all associated notices.

As indicated above, the Consultant will be responsible for completing all NEPA documentation necessary for the Environmental Review Record, including at a minimum a HUD-format Environmental Assessment with Statutory Checklist and Environmental Assessment Factors Checklist, and SEQRA/CEQR documentation leading to (and including the drafting of) the Findings Statement.

It is expected that the supporting environmental analyses (contained either within an expanded NEPA EA or a NEPA or SEQRA/CEQR EIS) will include more detailed impact evaluation for all applicable EA checklist and CEQR Technical Manual categories where potential adverse impacts could be expected. The analyses should utilize the methodologies and thresholds identified in the 2014 CEQR Technical Manual.

Given the scope of the project, the EA or EIS environmental review documentation would likely necessitate analyses or discussion within technical areas such as:

- Land Use, Zoning and Public Policy
- Open Space
- Socioeconomic conditions
- Shadows
- Historic and Cultural Resources
- Urban Design and Visual Resources
- Natural Resources
- Hazardous Materials (to be done by others)
- Water and Sewer Infrastructure
- Transportation
- Air Quality
- Greenhouse Gas Emissions and Climate Change
- Noise
- Public Health
- Neighborhood Character
- Construction

Each impact issue should be presented in a separate subsection which includes a discussion of existing conditions, the future without the project (No Action condition), potential adverse or beneficial impacts associated with the proposed action (With Action condition), and any mitigation measures designed to minimize identified impacts.

The EA or EIS documentation would also be expected to include supplemental narrative or discussion addressing:

- Project Description - a description of the project, purpose/need, and its environmental context;
- Environmental Justice Assessment - a consideration of whether the project would result in disproportionately high and adverse human or environmental impacts that would be borne by minority and low-income populations;
- Mitigation - a description of mitigation measures proposed to eliminate or minimize any significant adverse impacts;
- Unavoidable Adverse Impacts - a summary of the identified significant adverse environmental impacts that would be expected to occur and cannot be avoided if the project is implemented;
- Alternatives - a discussion and evaluation of reasonable alternatives to the proposed project;
- Growth Inducing Aspects - a discussion of the potential for the project to spur further development;
- Use and Conservation of Energy - a discussion of the energy resources to be used if the Proposed Action is implemented and measures taken to conserve energy and enhance efficiency; and
- Irreversible and Irrecoverable Commitment of Resources - an identification of natural or human resources that will be consumed, converted or made unavailable for future use if the project is implemented.

Permits:

- i. U.S. Army Corps of Engineers
- ii. NYS DOS - Federal Coastal Zone Management Act
- iii. NYS DEC
- iv. NYCDEP Waterfront Revitalization Program

Deliverable(s): Develop a list and schedule of necessary permits and approvals, prepare and submit permit studies and documentation.

**TASK 6: Acquisition Study and Mapping – GR Section 4.11**

The Consultant shall investigate the ownership and titles of the properties within the limits of Project Area One and Project Area Two and adjacent land under water.

Deliverable(s):

- As specified in GR Section 4.11

**TASK 7: Electronic Archiving and Indexing – GR Section 4.27**

**PROJECT AREA ONE**

**TASK 8: Bridge Inspection, Structural Analysis, and Testing**

The Consultant shall perform this task for the five (5) bridges at the following locations: East 10<sup>th</sup> Street, East 6<sup>th</sup> Street, Houston Street, Delancey Street, and Cherry Street.

General:

The Consultant shall perform the In-depth Inspection and Load Rating Analysis and prepare a Report in compliance with all applicable federal, state and local statutes including, but not limited to: the American Association of State Highway and Transportation Officials (AASHTO), the New York State Department of Transportation (NYSDOT), New York City Department of Transportation (NYCDOT), New York City Department of Design + Construction (NYCDDC), the New York City Department of Parks and Recreation (NYCDPR) and the Americans with Disabilities Act (ADA). The requirements of New York City Department of Environmental Protection (NYCDEP) and Federal Highway Administration (FHWA) shall also apply.

Reference Documents:

The Consultant shall obtain, and become familiar with, all applicable Departmental Design Directives, Standard Details, Administrative Procedural Bulletins and guidelines for the In-depth Inspection and Load Rating Analysis. These shall include, but not be limited to, the latest editions (including all amendments) of the following manuals published by the New York City Department of Transportation (NYCDOT), the New York State Department of Transportation (NYSDOT), American Association of State Highway and Transportation Officials (AASHTO) and Federal Highway Administration (FHWA).

NYCDOT Procedures for Bridge Reconstruction Project Report, latest edition, including:

- Appendix A: BRPR Format and Requirements
- Appendix B: Substandard Features Checklist
- Appendix C: Presentation of Ratings
- Appendix D: In-Depth Inspection Form and Bridge Inspection & Condition Report
- Appendix E: Preliminary Plan Review Checklist

## Appendix F: Field Survey Requirements

NYCDOT Requirements for the Preparation of Engineering Drawings and Documents  
 NYCDOT Requirements for Microfilming of Engineering Drawings and Documents  
 NYCDOT Detailed Instructions for the Computerized Indexing of Engineering Drawings  
 and Documents for Microfilming  
 NYCDOT Street Lighting Standards  
 NYCDOT Uniform Land Use Review Procedure  
 NYC Specifications for Title Examinations and Reports on Street/Railroad Intersections  
 NYC Specifications for Title Examinations and Reports on Privately Owned Tax Lots  
 NYCDEP Water Supply and Sewer Standards  
 Electric Code of the City of New York  
 National Electric Code  
 NYSDOT Engineering Bulletins and Engineering Instructions  
 NYSDOT Highway Design Manual, Volumes 1 and 2  
 NYSDOT Standard Specifications  
 NYSDOT Steel Construction Manual  
 NYSDOT Geometric Design Policy for Bridges  
 NYSDOT Prestressed Concrete Construction Manual  
 NYSDOT Manual of Uniform Traffic Control Devices  
 NYSDOT Uniform Code of Bridge Inspection  
 NYSDOT Bridge Inspection Manual  
 NYSDOT Bridge Inventory and Inspection System Manual  
 NYSDOT Specifications For In-Depth Bridge Inspection  
 NYSDOT Engineering Instructions for Load Ratings  
 NYSDOT Bridge Deck Evaluation Procedure Manual  
 NYSDOT Standard Detail for Highway Bridges, Bridge Design Data Sheets and  
 Guideline Drawings  
 NYSDOT Right of Way Mapping Procedure Manual  
 NYSDOT Manual of Administrative Procedure (MAP)  
 NYSDOT Interim Guide to Metric Design  
 NYSDOT Metric Conversion Guidelines, Structures Division  
 AASHTO Standard Specifications for Highway Bridges, as amended by NYSDOT (Blue  
 Pages)  
 AASHTO Manual for Condition Evaluation of Bridges  
 AASHTO Guide for the Development of Bicycle Facilities  
 AASHTO Guide to Metric Conversion  
 AISC Metric Properties of Structural Shapes  
 ASTM Standard Specifications  
 FHWA Seismic Design and Retrofit Manual for Highway Bridges  
 FHWA Seismic Retrofitting Guidelines for Highway Bridges  
 NYCDDC – Division of Infrastructure, Design Guidelines and Directives, July 2010,  
 with latest addenda.

Permits:

The Consultant shall obtain Permits from all impacted agencies, including, but not limited to: Army Corps of Engineers, Coast Guard, NYSDEC, NYSDOT, NYCDOT, NYCDEP, NYCDPR (Construction permit, arborist permit for tree removal and planting, etc.), etc.

The Consultant shall start the permit application process as early as possible and ensure that all necessary permits are obtained during the prior to the commencement of the In-depth Inspection.

All costs for such services to be provided by the Consultant are deemed included in the Fee Proposal. The application fees and permit fees shall be considered Reimbursable Expenses and shall be reimbursed in accordance with Article 7 of this contract.

Maintenance and Protection of Traffic (MPT):

Upon written direction by the Commissioner, the Consultant shall prepare required Maintenance and Protection of Traffic (MPT) Plans for the In-depth Inspection including Bridge Deck Evaluation. The MPT plans shall address vehicular, waterway, bicycle and pedestrian traffic on and under the bridge for the duration of the In-depth Inspection. The Consultant shall prepare MPT plans so as to minimize the impact on the traveling public and the community.

Draft MPT Plans: The Consultant shall prepare Draft MPT plans and submit to the Commissioner and all affected agencies, including but not limited to, NYCDOT-Office of Construction Mitigation and Coordination (NYCDOT-OCMC), NYCDDC, NYCDPR, NYSDOT, Coast Guard, Army Core of Engineers, etc. for review and approval.

After submission of the Draft MPT Plans, the Consultant shall schedule and attend review meeting(s) with NYCDOT – OCMC and all parties having jurisdiction over the project to discuss and obtain comments/approval of the MPT plans. If comments are received at the review meeting(s), the Consultant shall incorporate all the comments provided by all affected agencies and submit the revised MPT plans for review and approval.

The Consultant shall obtain approval of the proposed MPT plans and obtain all required stipulations, approvals, permits and working hours from NYCDOT – OCMC and all affected agencies prior to the commencement of the In-depth Inspection.

Where the bridge is located over, or, in vicinity of water bodies, the Consultant shall coordinate with the Coast Guard, Army Core of Engineers and other affected agencies and obtain specific permits as required.

In-depth Inspection:

Upon written direction by the Commissioner, the Consultant shall coordinate and schedule In-depth Inspection for the bridge.

The Consultant shall ensure that all necessary approvals/permits are obtained. The Consultant shall keep the approved MPT plans and all permits at the site during In-depth Inspection.

The Consultant shall note that it may be necessary to work during off peak hours, nights and weekends as stipulated in any of the permits. The Consultant shall install required MPT devices for In-depth Inspection in accordance with the approved MPT plans and permit stipulations.

The Consultant shall perform the In-depth Inspection in accordance with the NYSDOT Uniform Code of Bridge Inspection, NYSDOT Specifications for In-Depth Bridge Inspection and the latest edition of the NYCDOT Procedures for Bridge Reconstruction Project Report.

As part of the In-depth Inspection, the Consultant shall also inspect the condition of the concrete by sounding all concrete elements. This includes but is not limited to underside of the concrete decks, concrete encasement for structural steel members, reinforced

concrete members, concrete fascia, jack arches (including brick), bridge piers, bridge abutments, etc. By means of this inspection, the Consultant shall locate all hollow sounding, delaminated, loose, and spalled areas.

If the underside of the deck is covered by protective shielding, such as netting or planking, the Consultant shall remove the protective shielding as required in order to properly inspect all components (connections, underdeck concrete, beams, girders, etc.). The Consultant shall locate and document (on a plan) materials retained by the protective shielding. After completion of the inspection, the Consultant shall restore protective shielding to its original location and condition.

The Consultant shall identify all underdeck areas that present the possibility of falling concrete during the in-depth inspection. These areas shall include, but not be limited to, hollow sounding, delaminated, loose, and spalled areas. The Consultant shall outline the subject deficient areas with spray paint and clearly define the subject areas.

If the Consultant determines that removal of concrete is required from hollow sounding, delaminated, loose, and spalled areas, the Consultant shall immediately notify the DDC's Engineer-in-Charge (EIC) and NYCDOT Director of Flags. The Consultant shall make recommendations for the areas to be removed and provide the design and procedure for the removal, shoring, shielding or other related items as required.

The Consultant shall inspect the bridge deck thoroughly and prepare Bridge Deck Evaluation Report in accordance with the latest NYCDOT "Procedures for Bridge Reconstruction Project Report" and NYSDOT Bridge Deck Evaluation Procedure Manual.

Where inspection is performed over water bodies, the Consultant shall set up additional traffic controls as directed by the affected Agency.

Under-water Inspection is required for bridges over water bodies and culverts, as applicable. The under-water inspection shall be performed in accordance with the New York State Department of Transportation's Bridge Diving Inspection Manual and prepare Underwater Inspections Report together with evaluation/ recommendations. The Consultant shall obtain latest Diving Inspection Reports from NYSDOT and/ or NYCDOT and include them in the In-depth Inspection report.

The Consultant shall bring all the equipment necessary (ladders, chipping hammers, tape measure, rulers, micrometers, boat, diving gears, etc.) to perform the In-depth Inspection and Under-water Inspection.

Flagged Conditions: During the In-depth Inspection, if the Consultant encounters any "flagged" and/or unsafe conditions, the Consultant shall immediately notify by telephone, followed by written notification, to the DDC Engineer-In-Charge and the NYCDOT Director of Flags. Written notification shall include drawings showing the location(s) of the condition(s), photos of the condition(s), load rating computations of the affected structural member(s) and recommended repair and/or support details; and loads posting requirements, if any.

Substandard Features: The Consultant shall prepare a Substandard Features Checklist in accordance with the latest NYCDOT "Procedures for Bridge Reconstruction Project Report". At a minimum, the Substandard Features Checklist shall document all substandard

features on the approaches, on the bridge deck and under the structure and show what the standard features are, the appropriate reference from which it is obtained, what are the components of the existing features and what action is proposed.

The Consultant shall take sufficient color photographs during In-depth Inspection as deemed appropriate by the Consultant and/or as directed by the Commissioner. The Consultant shall provide original color photographs (or digital copies) in the In-depth Inspection Report.

Upon completion of the In-depth Inspection, the Consultant shall remove all temporary equipment, MPT devices, etc. from the project site and restore the project site in a neat, safe and orderly condition.

Load Ratings: The Consultant shall perform Level 1 load rating of all members of the structure (including sidewalks and piers) in accordance with the current NYCDOT Procedure for Bridge Reconstruction Project Report, NYSDOT Engineering Instructions for load ratings and the latest edition of AASHTO Manual for Bridge Evaluation.

The Consultant shall not rely upon or obtain information regarding member sizes and ratings from previous load rating calculations performed in the past by other parties.

The Consultant shall determine the existing (current) dead loads on the structure. The existing (current) dead loads shall be used in both the as-Built and as-Inspected ratings.

Load rating shall be computed by LFD or ASD method. All members and connections shall be rated initially by the Allowable Stress method (working stress). Each and every member that does not meet the minimum required inventory rating for the vehicular type (computed using Allowable Stress method) shall be re-rated using the Load Factor method. Each member shall be rated for both As-Built and As-Inspected conditions. For each of these conditions, both an Inventory and Operating Rating of the member shall be calculated using each of the following types of loadings in all cases: HS-20, H-20, type 3, type 3-S2, type 3-3, all in Tons. All HS and H ratings shall include both the equivalent HS and H truck and the total load in Tons.

Load rating for all new and replacement bridges shall be computed by LFD and ASD method, and also by the Load and Resistance Factor Rating (LRFR) method. Load ratings for both methods shall be shown. LRFR rating shall be shown at the Inventory and Operating levels as rating factor of AASHTO HL-93 Load. Pedestrian loading shall be used where applicable. See Appendix C of the latest NYCDOT Procedure for Bridge Reconstruction Project Report, for additional instructions regarding ratings.

The Consultant shall follow the guidelines outlined below. All structural members (i.e. deck slab, stringers, floor-beams, columns, etc.) shall be addressed in a clear and orderly manner.

The Consultant shall prepare a Load Rating Report, which shall include, but not limited to, the following:

Discussion of the analysis:

- Allowable inventory and operating stresses (material grade and type) used in the ratings; the source of the allowable stresses (i.e., original drawings; Condition Evaluation Manual; etc.).

- Analysis method used.
- Computer programs used.
- Assumptions used in the analysis (for example, use of composite action).

Discussion of results which includes:

- A summary of controlling members and their ratings (as-built and as-inspected; inventory and operating); for low rated members specify whether shear or moment governed. Engineer shall prepare Level 1 Load Rating summary form as attached sheets.
- A summary of the results in a tabulated form as shown in "Load Rating Data As Built" and "Load Rating - As Inspected" as per attached load-rating data Table. A framing plan shall be provided with all members and spans identified. The framing plan shall show all lengths of members, stringer spacing, floor-beam spacing, etc.

Conclusions:

- Statements on: connections; the structure's redundancy; fracture critical members; etc.
- Recommendations which includes:
  - Provide recommendations on what interim action is required for all low rated members (or statement justifying why no action is required). In addition:
  - A framing plan (all members rating less than the design truck for Inventory level shall be identified), provide member sizes.
  - A diagram of the above referenced Legal and Design trucks.
  - Load rating tables (see Appendix C for presentation format).
  - Other pertinent information relating to the particular project.

The Consultant shall immediately notify the NYCDDC in writing, if any structural flags were warranted for component(s) which are rated very low. Written notification shall include the Engineer's recommendations and appropriate justifications. The posting of the bridge, if required, shall be as per NYSDOT EI 05-034 and shall establish weight limit for the bridge.

Deliverable(s):

- Bridge Inspection Reports and back-up documents

**TASK 9: Traffic Study Program – GR Section 4.3**

The Consultant shall identify and collect local circulation patterns (vehicular, bicycle, transit, and pedestrian), including park/waterfront access routes and important destinations, as well as existing DPR and NYCDOT maintenance and operations routes and requirements.

Deliverable(s):

- Traffic Study Report and Appendices

**TASK 10: Subsurface Exploration Program – GR Section 4.5**

The Consultant shall follow the GR Section 4.5 unless a section of the site is determined to be a Historic Fill Site, then the Consultant shall use DPR's Generic Soil Sampling Protocol – Historic Fill Site, as specified below:

This generic New York City Department of Parks and Recreation (NYC-DPR) soil sampling protocol is generally applicable throughout NYC. It is based on a draft New York State Department of Environmental Conservation (DEC) guideline, dated July 2, 2007, entitled "DEC Guidelines for Submissions, Excavation, and Fill for Historic Fill Sites." The definition of the word "sub-sample" in the text below is "the media collected at a specific point that is subsequently composited (mixed) with other sub-samples into a single sample that is then analyzed for a single set of parameters."

**Sampling and Analytical Plan:** A New York State Department of Health (DOH) ELAP lab shall be used for all sample analysis

**Sampling Plan locations and number of samples:** Samples will be collected on a composite 50' x 50' grid (within the contract limit line) for RCRA metals list (i.e., no nutrient metals), and the Target Compound List (TCL) for organic chemicals. The TCL includes volatile organic compounds (VOCs), semivolatiles (SVOCs, also known as polynuclear aromatic hydrocarbons, or PAHs), pesticides, and polychlorinated biphenyls (PCBs). Sampling of site soils shall occur only in, 1) those areas of proposed excavation into existing soils and, 2) areas where existing cover soils are proposed as the final top cover. Sampling shall not generally occur in areas that we are not excavating existing soils and we are already proposing the addition of a clean soil cover or an engineered cover type such as buildings, pavement, or synthetic turf.

**Composite sampling methodology:** Four grab sub-samples shall be collected at the nodes of the 50' x 50' grid, mixed together in a bowl or sealed bag. All sampling and mixing equipment shall be decontaminated between composite samples or dedicated for each composite (or disposable, single use equipment may be used). Soil shall be collected within the top two feet or to the depth of the excavation in those locations where the excavation is deeper than two feet. In those locations where excavation is deeper than two feet and the sub-grade will be the final grade, an additional two feet shall be added to the soil collection depth. In the areas of storm drain trenching, a vertical composite soil sample shall be collected from ground surface to the depth of excavation, along the length of the drain line, at 50-foot intervals.

**Contaminant list:** RCRA metals and the TCL of VOCs, SVOCs, pesticides, and PCBs.

**Data package:** DEC Analytical Services Protocol (DEC-ASP) shall be the format / media for the data. This data shall be compressed onto a CD. The NYC-DPR shall keep all necessary records of field sampling and sample custody.

**Sample detection limits:** Sample analysis shall follow the contract required quantitation limits (CRQL) of the DEC-ASP.

**Analytical methods to be used:** DEC-ASP shall be used for the sample analyses. The laboratory shall be DOH ELAP-certified. If there is any ambiguity in the methods to be used, EPA SW-846 would be used. The laboratory, in any case, shall conduct these analyses in accordance with DEC-ASP:

VOCs: EPA Method 8260B

SVOCs: EPA Method 8270C

Pesticides: EPA Method 8081A

PCBs: EPA Method 8082  
Metals: EPA Method 6010B

Criteria for use and reuse of site soil: It is the intent of the protocol to reuse site soil whenever possible, safely.

- 1) Soils demonstrated to be below the concentration limits of the restricted residential soil cleanup objectives (SCOs) of New York Codes, Rules and Regulations (NYCRR) Part 375-6.8(b) may be left in place or moved to any other non-wetland part of the site without restriction. Compliant soils at the proposed final surface grade in a layer of at least two feet shall qualify as final soil cover at the park, and will not require further testing to demonstrate that level of quality.
- 2) Soils may be moved around a project site as long as contaminants in the source soil and the receiving soil are similar, and they are covered by restricted residential quality soils.
- 3) Soil demonstrated to be above those concentration limits but will not be excavated, will be covered by at least two (2) feet of soil that meets the residential use and protection of groundwater contaminant limits of Part 375 Section 6.8(b), per Part 375 Section 3.8(e)(1)(i), or by other methods of acceptable cover such as synthetic turf, impervious pavements, or vegetative barriers.

Format of data: All data shall be in PDF format and shall be searchable in Excel format.

Format of Summary data: The summary of data shall be submitted in a printer table and searchable in Excel format, illustrating where exceedances of the Part 375-6.8(b) restricted residential use contaminant limits were found.

Deliverable(s):

- Subsurface Exploration Report and back-up documents

**TASK 11: Tree Inventory – GR Section 4.16**

The Consulting Arborist is subject to DPR/DDC review and approval and must be ISA certified.

The format for the Tree Inventory will be a Microsoft Excel file provided by DPR, and shall be completed the Consulting Arborist and submitted to DPR/DDC in digital format for review.

A pdf format digital copy of the photographs and all of the details included in GR Section 4.16 shall be forwarded to DPR.

Deliverable(s):

- Tree Inventory Report

**TASK 12: Hardware and Basin Condition Inventory – GR Section 4.4**

Deliverable(s):

- Hardware Basin Condition Inventory Report

**TASK 13: Conceptual Design Development**

In preparing this task, the Consultant shall use GR Section 4.10 - Schematic Geometric Design and GR Section 4.31 - Schematic Landscape/Urban Design, where applicable.

In consultation with the Project Team and in reference to goals established through the community engagement process, the Consultant shall develop four (4) Preliminary Conceptual Designs for Project Area One with respect to basic engineering, landscape architectural and architectural design criteria and project requirements, taking into account overall impact, cost, maintenance, and other relevant considerations. The Consultant is **not** expected to propose geometric changes to the main roadway of the Franklin D. Roosevelt East River Drive. The Consultant must consider roadway drainage and any structural impacts on the Drive, as well as connections across the roadway in all alternatives.

Each of the four (4) alternatives are to be comprised of distinct geographic units (no more than four units within Project Area One), each of which can support resiliency and community protection and be implemented as a stand-alone measure. The design shall accommodate retrofitting capability to increase protection in the future. At least one alternative for Project Area One is not to exceed \$250 million hard construction costs. Under the guidance of the Project Team, one alternative may be required to not to exceed hard construction costs of \$250 million for both Project Areas One and Two. Consultants shall be responsive to community input on design, in consultation with the Project Team.

- A. Sub-Project Components: The Consultant shall provide Services for and include the following elements in the Conceptual Design Work Product.

Connections to the Waterfront: This sub-Project involves the assessment for construction and design alternatives for enhanced or new connections to the waterfront esplanade. The Consultant shall assess construction and design alternatives for enhanced or new pedestrian and bicycle bridges that include landscaping, improved signage, and upgraded lighting. The designs should account for low-maintenance design goals. The Consultant shall complete services through Conceptual Design for at least seven locations in Project Area One.

At least five of these seven locations are to include the following existing structures:

1. Cherry Street/Jackson Street bridge
2. Delancey Street bridge
3. East Houston Street bridge
4. East 6th Street bridge
5. East 10th Street bridge

In addition, the Consultant shall explore at least two new, additional waterfront connections suited for the Project based on the proposed design and feasibility.

The Consultant shall evaluate a total of seven options according to cost effectiveness, ease of implementation, and desirability, five of which are to include the aforementioned locations. Any new or reconfigured bridges over the FDR Drive must provide a minimum 16-foot vertical clearance over the highway.

Berm Construction - This sub-Project involves the complete design of a berm structure along the western edge of Project Area One, where the existing

geography can accommodate the width of a new structure. The design alternatives for the berm should incorporate landscaped, passive recreation areas and connections to the Park and neighborhood, where the physical width of the project area is not prohibitive. Alternatives should also include the provision of a bike path and maintenance vehicle access either atop or adjacent to the berm.

B. Design Considerations In preparing the Preliminary Conceptual Design for the Project Area and the sub-project components, the Consultant shall consider the existing conditions and analyses compiled in previous tasks, as well as the following design considerations:

- **Resiliency needs** - Resilient coastal flood protection structures capable of standing alone and accommodating further enhancement to serve future resiliency needs. (ex. project tie-backs to inland) as defined by 2050s 500-year floodplain.
- **FEMA floodplain reduction standards**
- **Basic architectural, landscape architectural and engineering design criteria** - Solutions integrated with design context of the Park and landscape, as well as the vocabulary of the surrounding environment.
- **Enhanced recreational amenities** - Recreational programming that serves the needs of the community and enhances public waterfront access. The design should account for existing recreational facilities, ongoing/ recently completed Parks projects within the Project Area boundaries, as well as the need for additional active and passive waterfront recreational amenities.

Note: A portion of East River Park is subject to Land and Water Conservation Fund (LWCF) protections due to previous grant funding. The area subject to these protections is outlined in Figure 2 on the page SR-29, and includes two basketball courts, a playground, and the East River Promenade, east of the baseball diamonds from East 10th Street to East 6th Street.

- **Franklin D. Roosevelt East River Drive**– Maintain traffic operations on the FDR Drive and evaluate any structural impacts on the roadway and associated structures. Provide drainage mechanisms for stormwater from the roadway and the upland that aligns with the design proposed for berms and coastal protection measures.
- **Maintenance needs** - Incorporate low maintenance design, describe nature and extent of maintenance required, and estimate annual maintenance costs for each alternative.
- **Permits and approvals** - Identify approval and permitting aspects of elements of the conceptual design alternatives developed for the schematic design to determine the needs for permits from any Agency. The Consultant shall also develop a schedule to allow for the timely preparation and application to necessary permits and approvals.

- **Implementation and phasing plan** - Design should be coordinated with any construction along the waterfront and repairs of bulkhead or other structures. The design should also consider coordination with adjacent studies and spaces, including the East River Waterfront Esplanade, and the Lower Manhattan Multipurpose Levee.
- C. Conceptual Design development: To assist in the selection of the preferred Conceptual Design, the Consultant shall:
1. Meet with community to present findings of all investigations and alternatives for conceptual design
  2. Develop community-friendly sketches and graphics that depict the proposed Preliminary Conceptual Design(s).
  3. Consolidate design input from community and City, develop component parts of schematic design for Project Area(s),
  4. Prepare cost estimates for implementation of design - Consultant shall develop four (4) Conceptual Designs for Project Area One. Each of the alternatives are to be comprised of distinct geographic units (no more than four within Project Area One), each of which can support resiliency and community protection and be implemented as a stand-alone measure. The design shall accommodate retrofitting capability to increase protection in the future. The design shall accommodate retrofitting capability to increase protection in the future. In all design alternatives, the Consultant shall distinguish between Project Areas One and Two.
  5. Develop a project schedule

SECTION 6 (f) BOUNDARY MAP      DATE: 9/19/94  
 PREPARED BY: Charles Rudisell  
*Stephen Whitehouse*      Date: 9/19/94  
 Stephen Whitehouse  
 Chief of Planning

36-00238  
 East River Park  
 March

PORTION OF CITY SECTIONAL MAP #12, SCALE OF ORIGINAL IS 1" = 600'

The project boundary begins at the intersection of the north edge of the PIER AND BULKHEAD LINE in the East River and the River-and-Park eastern edge; runs south along the river-park edge for 1287.5', turns west at an angle of 90 into the parkland for 25', then runs north, parallel to the river-park edge for 800'; the boundary line then turns west for 187.5', running to the western edge of the Park, which is the eastern edge of Franklin D. Roosevelt Drive; it continues north along the Park-Drive edge for 487.5'; it then turns east for 137.5' and runs across the parkland to the point at which it meets the north edge of the PIER AND BULKHEAD LINE.

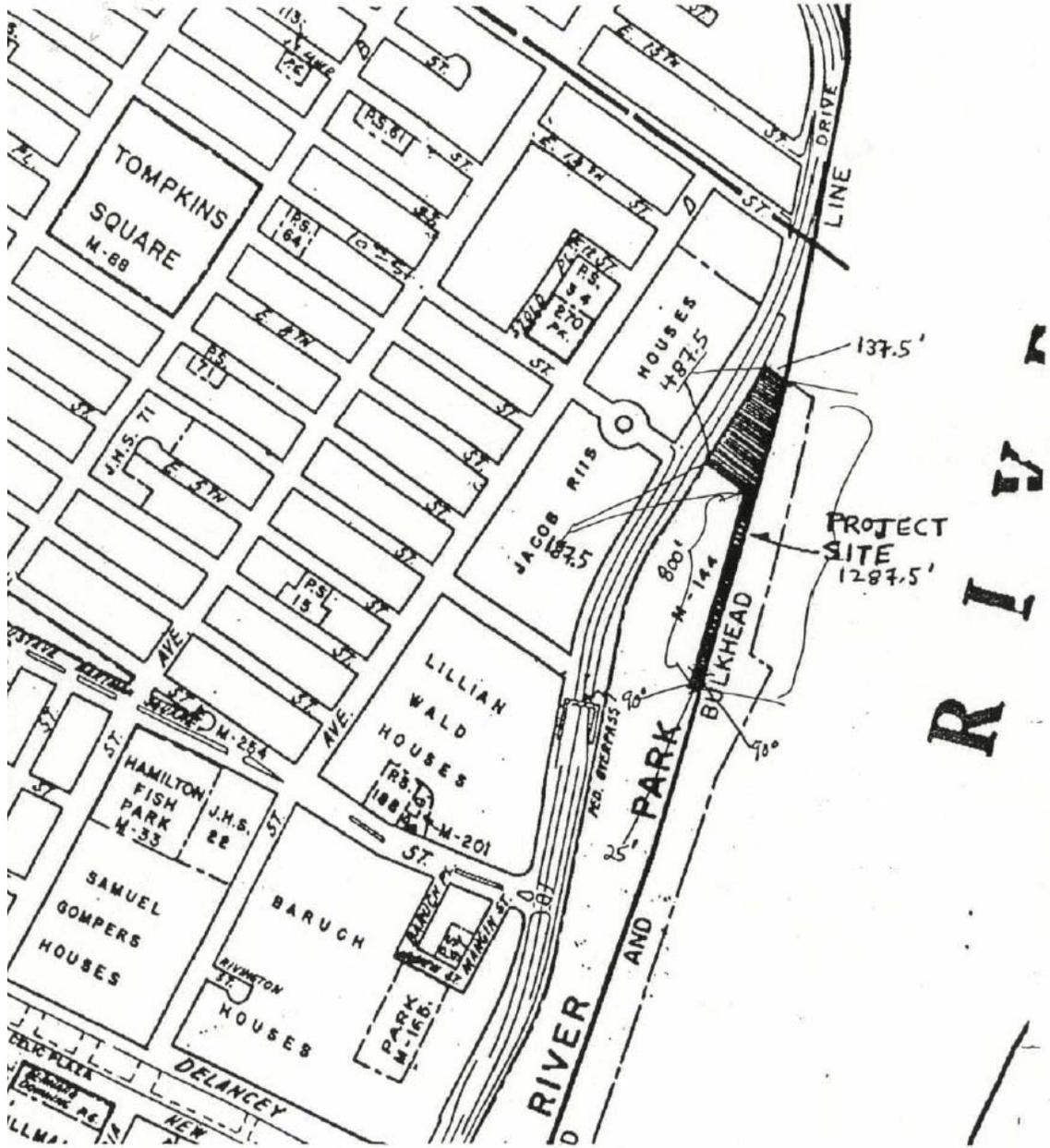


Figure 2 - Land and Water Conservation Fund Grant Project Area

Deliverable(s):

- a. Preliminary Conceptual designs - Consultant shall develop four (4) Preliminary Conceptual Design Alternatives for Project Area One. Each of the alternatives is to be comprised of distinct geographic units (no more than four units within Project Area One), each of which can support resiliency and community protection and be implemented as a stand-alone measure. The design shall accommodate retrofitting capability to increase protection in the future.
- b. Cost estimates - The Consultant shall produce cost estimates for each alternative and distinct geographic segments within the alternatives. At least one alternative is not to exceed \$250 million hard construction costs. Under the guidance of the Project Team, one alternative may be required to not to exceed hard construction costs of \$250 million for both Project Areas One and Two.
- c. Report - The Consultant shall produce a recommendations report (with back up materials) which includes cost estimates for each alternative, a list and schedule of necessary permits and approvals, a proposal for implementation and phasing, and a proposed maintenance plan.

**TASK 14: Embankment Protection Study – GR Section 4.9**Deliverable(s):

- As specified in GR Section 4.9

**TASK 15: Roadway Pavement Design – GR Section 4.8**Deliverable(s):

- As specified in GR Section 4.8

**TASK 16: Preliminary Quantity and Cost Estimating – GR Section 4.12**

The Consultant shall provide a cost estimate for the selected Alternative.

**PROJECT AREA TWO****TASK 17: Feasibility Study**

In consultation with the City agencies, the Consultant shall develop/conduct a detailed feasibility study of integrated upland flood protection measures in Project Area Two. This assessment will consider technical feasibility, infrastructure requirements, costs, environmental issues, legal/regulatory parameters, implementation strategies, and goals set by DDC.

The primary objective of this task is to understand the technical feasibility of protection measures in Project Area Two. The study shall also investigate the feasibility of public accessibility, waterfront open space improvements, and other infrastructure, as well as an analysis of the capital and maintenance costs of the proposed improvements.

In preparing the feasibility study, the Consultant shall consider the existing conditions and analyses compiled from appropriate tasks. The study shall also account for basic engineering, landscape architectural and architectural design criteria and project

requirements, in addition to taking into account overall impact, cost, maintenance, and other relevant considerations.

The Feasibility Study should include (but not limited to) the following items:

a. Conceptual Flood Protection Measures:

Consultant shall identify measures to provide flood protection to Project Area Two. Such interventions should build upon the "BIG U" Rebuild by Design proposal and coastal protection initiatives identified in "A Stronger, More Resilient New York." These measures should have the greatest possible impact on reducing risk to vulnerable housing stock and critical public facilities and infrastructure, while maintaining and potentially enhancing open space, connections to the waterfront, and pedestrian/bicycle flow. Potential measures include, but are not limited to:

- deployable floodwalls
- permanent floodwalls/barriers
- flood protective "furniture"
- raised bulkheads
- stone armor revetments
- project tie-backs to the inland

b. Develop to a predetermined capital budget cost estimates: for the coastal protection measures identified in (a) above.

c. Identify positive and negative effects on the environment, and co-benefits for communities, including storm water management and public access.

d. Organize community engagement and meetings to share findings of evaluation and solicit feedback, in consultation with the Project Team.

e. Identify all permitting/regulatory issues involved in implementing coastal protection measures. Estimate the time required to implement each of the identified coastal protection measures, including any engineering, jurisdictional, or other challenges that may increase the likelihood of delays.

f. Recommend measures that require minimal regulatory approvals and permits and could be advanced to construction rapidly, in consultation with DDC.

Deliverable(s):

The Consultant shall produce a recommendations report that includes the results of the evaluation, feedback from stakeholders, and a determination of feasible coastal protection recommendations for Project Area Two. The report shall include cost estimates for the alternatives, a list and schedule of necessary permits and approvals, a proposal for implementation and phasing, and a proposed maintenance plan.

The Consultant is not to proceed with Task 23: Conceptual Design Development until Task 17: Feasibility Study is complete and DDC has given the Consultant approval to proceed.

**TASK 18: Traffic Study Program – GR Section 4.3**

The Consultant shall identify and collect local circulation patterns (vehicular, transit, bicycle, and pedestrian), including park/waterfront access routes and important destinations, as well as existing DPR and NYCDOT maintenance and operations routes and requirements.

Deliverable(s):

- Traffic Study Report and Appendices

**TASK 19: Subsurface Exploration Program – GR Section 4.5**

The Consultant shall follow the GR Section 4.5 unless a section of the site is determined to be a Historic Fill Site, then the Consultant shall use DPR's Generic Soil Sampling Protocol – Historic Fill Site, as specified below:

This generic New York City Department of Parks and Recreation (NYC-DPR) soil sampling protocol is generally applicable throughout NYC. It is based on a draft New York State Department of Environmental Conservation (DEC) guideline, dated July 2, 2007, entitled "DEC Guidelines for Submissions, Excavation, and Fill for Historic Fill Sites." The definition of the word "sub-sample" in the text below is "the media collected at a specific point that is subsequently composited (mixed) with other sub-samples into a single sample that is then analyzed for a single set of parameters."

Sampling and Analytical Plan: A New York State Department of Health (DOH) ELAP lab shall be used for all sample analysis

Sampling Plan locations and number of samples: Samples will be collected on a composite 50' x 50' grid (within the contract limit line) for RCRA metals list (i.e., no nutrient metals), and the Target Compound List (TCL) for organic chemicals. The TCL includes volatile organic compounds (VOCs), semivolatiles (SVOCs, also known as polynuclear aromatic hydrocarbons, or PAHs), pesticides, and polychlorinated biphenyls (PCBs). Sampling of site soils shall occur only in, 1) those areas of proposed excavation into existing soils and, 2) areas where existing cover soils are proposed as the final top cover. Sampling shall not generally occur in areas that we are not excavating existing soils and we are already proposing the addition of a clean soil cover or an engineered cover type such as buildings, pavement, or synthetic turf.

Composite sampling methodology: Four grab sub-samples shall be collected at the nodes of the 50' x 50' grid, mixed together in a bowl or sealed bag. All sampling and mixing equipment shall be decontaminated between composite samples or dedicated for each composite (or disposable, single use equipment may be used). Soil shall be collected within the top two feet or to the depth of the excavation in those locations where the excavation is deeper than two feet. In those locations where excavation is deeper than two feet and the sub-grade will be the final grade, an additional two feet shall be added to the soil collection depth. In the areas of storm drain trenching, a vertical composite soil sample shall be collected from ground surface to the depth of excavation, along the length of the drain line, at 50-foot intervals.

Contaminant list: RCRA metals and the TCL of VOCs, SVOCs, pesticides, and PCBs.

Data package: DEC Analytical Services Protocol (DEC-ASP) shall be the format / media for the data. This data shall be compressed onto a CD. The NYC-DPR shall keep all necessary records of field sampling and sample custody.

Sample detection limits: Sample analysis shall follow the contract required quantitation limits (CRQL) of the DEC-ASP.

Analytical methods to be used: DEC-ASP shall be used for the sample analyses. The laboratory shall be DOH ELAP-certified. If there is any ambiguity in the methods to be used, EPA SW-846 would be used. The laboratory, in any case, shall conduct these analyses in accordance with DEC-ASP:

VOCs: EPA Method 8260B  
SVOCs: EPA Method 8270C  
Pesticides: EPA Method 8081A  
PCBs: EPA Method 8082  
Metals: EPA Method 6010B

Criteria for use and reuse of site soil: It is the intent of the protocol to reuse site soil whenever possible, safely.

4) Soils demonstrated to be below the concentration limits of the restricted residential soil cleanup objectives (SCOs) of New York Codes, Rules and Regulations (NYCRR) Part 375-6.8(b) may be left in place or moved to any other non-wetland part of the site without restriction. Compliant soils at the proposed final surface grade in a layer of at least two feet shall qualify as final soil cover at the park, and will not require further testing to demonstrate that level of quality.

5) Soils may be moved around a project site as long as contaminants in the source soil and the receiving soil are similar, and they are covered by restricted residential quality soils.

6) Soil demonstrated to be above those concentration limits but will not be excavated, will be covered by at least two (2) feet of soil that meets the residential use and protection of groundwater contaminant limits of Part 375 Section 6.8(b), per Part 375 Section 3.8(e)(1)(i), or by other methods of acceptable cover such as synthetic turf, impervious pavements, or vegetative barriers.

Format of data: All data shall be in PDF format and shall be searchable in Excel format.

Format of Summary data: The summary of data shall be submitted in a printer table and searchable in Excel format, illustrating where exceedances of the Part 375-6.8(b) restricted residential use contaminant limits were found.

Deliverable(s):

- Subsurface Exploration Report and back-up documents

**TASK 20: Tree Inventory – GR Section 4.16**

The Consulting Arborist is subject to DPR/DDC review and approval and must be ISA certified.

The format for the Tree Inventory will be a Microsoft Excel file provided by DPR, and will be returned completed in full by the Consulting Arborist in digital format for review by DPR.

A pdf format digital copy of the photographs and all of the details included in GR Section 4.16 shall be forwarded to DPR.

Deliverable(s):

- Tree Inventory Report

**TASK 21: Hardware and Basin Condition Inventory – GR Section 4.4**Deliverable(s):

- Hardware Basin Condition Inventory Report

**TASK 22: Community Engagement**

The Community Outreach Task described below is intended to run the course of the Project. Throughout the Project, the Consultant will engage with community stakeholders to set priorities, and shape the project process. The Consultant will meet community stakeholders during community meetings, at the direction of the Project Team.

In consultation with the Project Team, the Consultant shall meet with the Community Board(s), non-profits, the Council Member, the Borough President, other elected officials, adjacent property owners, and other interested groups.

**a. Stakeholder Meetings**

The Consultant shall conduct approximately 20 individual stakeholder meetings, including meetings with:

- Community Board leadership,
- target constituency groups,
- elected officials and public officials
- large property owners (including NYCHA and NYCHA residents)
- large community developments (including Mitchell Lama, and Co-ops)

The Consultant shall be responsible for preparing community-friendly project materials that clearly articulate the goals of the project, at the direction of the City.

The Consultant is expected to give presentations and shall be responsible for preparing appropriate materials, including renderings, for these presentations.

In consultation with the Project Team, the Consultant shall be responsive to comments and shall compile the results of surveys, individuals and group interviews.

In addition, the Consultant shall compile all minutes, photographs, and other data to document the community outreach.

**b. Broad Community Engagement Sessions**

The Consultant shall develop materials for five (5) community engagement sessions, and shall assist in the Project Team in presenting Project materials and facilitating public engagement at such meetings.

Based on the needs of stakeholders, the Consultant may be required to produce materials in English, Spanish, and Chinese, as well as provide for simultaneous

English/Spanish and English/Chinese translation. The exact nature and number of the community engagement sessions is to be determined in consultation with the Project Team.

Deliverable(s): The Consultant shall document community outreach efforts over the Project duration, provide Project materials for community meetings, provide copies of meeting minutes and give presentations.

### **TASK 23: Conceptual Design Development**

In preparing this task, the Consultant shall use GR Section 4.10 - Schematic Geometric Design and GR Section 4.31 - Schematic Landscape/Urban Design, where applicable.

In consultation with the Project Team and in reference to goals established through the community engagement process, the Consultant shall develop three (3) Conceptual Designs for Project Area Two with respect to basic engineering, landscape architectural and architectural design criteria and project requirements, taking into account overall impact, cost, maintenance, and other relevant considerations. The Consultant is **not** expected to propose geometric changes to the main roadway of the Franklin D. Roosevelt East River Drive. The Consultant must consider roadway drainage and any structural impacts on the Drive, as well as connections across the roadway in all alternatives.

Each of the three (3) alternatives are to be comprised of distinct geographic units (no more than three within Project Area Two), each of which can support resiliency and community protection and be implemented as a stand-alone measure. The design shall accommodate retrofitting capability to increase protection in the future. At least one alternative for Project Area Two is not to exceed **\$250 million** hard construction costs. Under the guidance of the Project Team, one alternative may be required to not to exceed hard construction costs of \$250 million for both Project Areas One and Two. Consultants shall be responsive to community input on design, in consultation with the Project Team.

- A. Sub-Project Component: Based on the findings of the Feasibility Study, the Consultant shall perform the Services described below and include the following elements in the Conceptual Design Work Product.

Connection to the Waterfront- This sub-Project involves an assessment for two design alternatives for enhanced pedestrian and bicycle connection that includes landscaping, improved signage, and improved lighting. The design should account for resiliency and low-maintenance design goals. The Consultant shall complete services through Conceptual Design.

The Consultant shall evaluate at least two options for the design of this structure according to cost effectiveness, ease of implementation, and desirability.

Coastal protection measures - Based on the findings of the Feasibility Study and at the direction of DDC, the Consultant may be required to design of coastal protection measures along the western edge of Project Area Two. The design alternatives for these coastal protection measures must tie into designs for the berms in Project Area One.

- B. Design Considerations: In preparing the Preliminary Conceptual Design Alternatives, the Consultant shall consider the existing conditions and analyses compiled in previous tasks, as well as the following design considerations:
- **Resiliency needs** - Resilient structures capable of standing alone and accommodating further enhancement to serve future resiliency needs. (ex. project tie-backs to inland) as defined by the 2050s 500-year flood plain.
  - **FEMA floodplain reduction standards**
  - **Basic architectural, landscape architectural and engineering design criteria** - Solutions integrated with design context of the Park and landscape, as well as the vocabulary of the surrounding environment.
  - **Enhanced recreational amenities** - Recreational programming that serves the needs of the community and enhances public waterfront access. The design should account for existing recreational facilities, ongoing/ recently completed Parks projects within the Project Area boundaries, as well as the need for additional active and passive waterfront recreational amenities.
  - **Franklin D. Roosevelt East River Drive**— Maintain traffic operations on the FDR Drive and evaluate any structural impacts on the roadway and associated structures. Provide drainage mechanisms for stormwater from the roadway and the upland that aligns with the design proposed for berms and coastal protection measures.
  - **Maintenance needs** - Incorporate low maintenance design, describe nature and extent of maintenance required, and estimate annual maintenance costs for each alternative.
  - **Permits and approvals** - Identify approval and permitting aspects of elements of the conceptual design alternatives developed for the schematic design to determine the needs for permits from any Agency. The Consultant shall also develop a schedule to allow for the timely preparation and application to necessary permits and approvals.
  - **Implementation and phasing plan** - Design should be coordinated with any construction along the waterfront and repairs of bulkhead or other structures. The design should also consider coordination with adjacent studies and spaces.
- C. Conceptual Design Development: To assist in the selection of the preferred Conceptual Design, the Consultant shall:
1. Meet with community to present findings of all surveys and alternatives for conceptual design
  2. Develop community-friendly sketches and graphics that depict the proposed Preliminary Conceptual Design(s).
  3. Consolidate design input from community and City, develop component parts of schematic design for Project Area(s),

4. Prepare cost estimates for implementation of design - Consultant shall develop three (3) Conceptual Designs for Project Area Two. Each of the alternatives are to be comprised of distinct geographic units (no more than two within Project Area Two), each of which can support resiliency and community protection and be implemented as a stand-alone measure. The design shall accommodate retrofitting capability to increase protection in the future. In all design alternatives, the Consultant shall distinguish between Project Areas One and Two.
5. Develop a project schedule

Deliverable(s):

- a. Preliminary Conceptual designs - Consultant shall develop three (3) Preliminary Conceptual Design Alternatives for Project Area Two. Each of the alternatives is to be comprised of distinct geographic segments (no more than two), each of which can support resiliency and community protection and be implemented as a stand-alone measure. The design shall accommodate retrofitting capability to increase protection in the future.
- b. Cost estimates - The Consultant shall produce cost estimates for each alternative and distinct geographic segments within the alternatives. At least one alternative is not to exceed \$250 million hard construction costs. Under the guidance of the Project Team, one alternative may be required to not to exceed hard construction costs of \$250 million for both Project Areas One and Two.
- c. Report - The Consultant shall produce a recommendations report which includes cost estimates for each alternative, a list and schedule of necessary permits and approvals, a proposal for implementation and phasing, and a proposed maintenance plan.

**TASK 24: Roadway Pavement Design – GR Section 4.8**

Deliverable(s):

- As specified in GR Section 4.8

**TASK 25: Embankment Protection Study – GR Section 4.9**

Deliverable(s):

- As specified in GR Section 4.9

**TASK 26: Preliminary Quantity and Cost Estimating – GR Section 4.12**

The Consultant shall provide a separate cost estimate for the selected Alternative.

**B. Contingency Tasks:**

An allowance for the following contingency task(s) is made in SCHEDULE A. Change in allowance amount(s) due to a distribution of the contingency amount shall be accompanied by a written directive to the Consultant as per Requirements Contract Article 4.5.2.

1. Additional Topographic Survey - GR Section 4.2
2. Additional Conceptual Design Development – Under the guidance of the Project Team, one alternative may be required to not exceed hard construction costs of \$250 million for both Project Areas One and Two.

### **III. METHOD OF PAYMENT**

Payment for all required services shall be in accordance with the terms and conditions set forth in Article 7 of the attached contract.

### **IV. REQUIREMENTS FOR SCHEDULING**

The time schedule for performance of the services that are required under this task order is indicated in Attachment 4 included herein.

### **V. TIME FOR COMPLETION OF SERVICES**

The total time for completion of the services required under this Task Order is indicated in Schedule A included herein and is the number of consecutive calendar days (CCD) from the notice to proceed date to submission of all accepted Deliverables which shall be "full production Consultant time only" excluding review time where efficient and meaningful work effort is not possible.

### **VI. OVERALL NOT TO EXCEED AMOUNT FOR SERVICES TO BE PERFORMED**

The overall not to exceed amount for the services to be performed by the Consultant under this task order is indicated in Schedule A included herein.

### **VII. DELIVERABLES**

Upon completion of the Services required under this Task Order, the Consultant shall hand-deliver to the Commissioner the deliverables listed in Schedule A included herein.



**ATTACHMENT 2**

**FORM FOR IDENTIFICATION OF SUBCONSULTANTS**

From EXHIBIT B of its Requirements Contract, the proposer must identify the Subconsultants, which will be used for the services set forth below:

The Proposer shall indicate which Subconsultants are M/WBE firms.

| <b><u>SERVICE</u></b> | <b><u>SUBCONSULTANT</u></b> |
|-----------------------|-----------------------------|
| <hr/>                 | <hr/>                       |

**ATTACHMENT 3**

**CURRENT AND ANTICIPATED WORKLOAD DISCLOSURE**

The proposer and his/her Sub-consultant(s) providing services on this project must complete a separate Current and Anticipated Work Load Disclosure form. The values shown *shall not* include: (1) amount owed to Sub-consultants and Sub-contractors, or, (2) amount owed for rental/purchase of equipment.

PROJECT ID: \_\_\_\_\_ FIRM NAME \_\_\_\_\_  
\_\_\_\_\_

PROJECT DESCRIPTION \_\_\_\_\_ CONTACT PERSON \_\_\_\_\_  
\_\_\_\_\_ PHONE (\_\_\_\_) \_\_\_\_\_  
\_\_\_\_\_ FIRM ADDRESS: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**NUMBER OF FIRM'S DESIGN PERSONNEL IN THE OFFICE WHERE THIS PROJECT WILL BE ASSIGNED:**

Project Mgr. \_\_\_\_\_ Sr. Civil Engr (HWY) \_\_\_\_\_ Civil. Engr (HWY) \_\_\_\_\_  
Sr. Civil Engr (Structural) \_\_\_\_\_ Civil. Engr (Structural) \_\_\_\_\_  
Sr. Environmental. Engr \_\_\_\_\_ Environmental Engr \_\_\_\_\_

**Firm's Total uncompleted Workload with NYCDDC/NYCDOT** \$ \_\_\_\_\_  
**(From next page)**

**Firm's Total Uncompleted Workload with other agencies** \$ \_\_\_\_\_

**CERTIFICATION**

*By signing in the space provided below, the proposer certifies that the dollar amounts set forth on this Attachment are true and accurate in all respects.*

\_\_\_\_\_  
Name of Firm

\_\_\_\_\_  
Signature of Partner or Corporate Officer

\_\_\_\_\_  
Title

\_\_\_\_\_  
Print Name

\_\_\_\_\_  
Date

**ATTACHMENT 3 (continued)**

**CURRENT AND ANTICIPATED WORKLOAD  
WITH NYCDDC/NYCDOT**

FIRM NAME: \_\_\_\_\_

List ALL projects for which the firm currently has contracts with NYCDDC/NYCDOT (**HWY**) and those for which the firm has been officially selected. These shall be categorized as indicated below: Design & Construction Support Services and Other Projects with NYCDDC/NYCDOT(HWY).

**If a Contract contains multiple task orders, list each task order.**

| Client Name/<br>Project Name   | Contract # | Project<br>Manager | Project Engineer | Type of Work | Uncompleted<br>portion of<br>Work (\$000) | Percent<br>complete<br>to date<br>(%) |
|--|------------|--------------------|------------------|--------------|---|---------------------------------------|
| <b>DESIGN &amp; Construction Support Services:</b>   |            |                    |                  |              |   |                                       |
| For Street Reconstruction Projects includes Preliminary Design, Final Design and Total Design  |            |                    |                  |              |   |                                       |
|  |            |                    |                  |              |   |                                       |
|  |            |                    |                  |              |   |                                       |
|  |            |                    |                  |              |   |                                       |
|  |            |                    |                  |              |   |                                       |
|  |            |                    |                  |              |   |                                       |
|  |            |                    |                  |              |   |                                       |
|  |            |                    |                  |              |   |                                       |
|  |            |                    |                  |              |   |                                       |
|  |            |                    |                  |              |   |                                       |
|  |            |                    |                  |              |   |                                       |
|  |            |                    |                  |              |   |                                       |
|  |            |                    |                  |              |   |                                       |
| Subtotal   |            |                    |                  |              | \$  |                                       |
| <b>Other Projects with NYCDDC/NYCDOT:</b>  |            |                    |                  |              |   |                                       |
| Includes Traffic Engineering and Planning Services, Traffic Engineering & Safety, Environmental Engineering, Topographic Survey, Urban Design/Landscape Architecture, and other engineering design services. |            |                    |                  |              |   |                                       |
|  |            |                    |                  |              |   |                                       |
|  |            |                    |                  |              |   |                                       |
|  |            |                    |                  |              |   |                                       |
|  |            |                    |                  |              |   |                                       |
|  |            |                    |                  |              |   |                                       |
|  |            |                    |                  |              |   |                                       |
|  |            |                    |                  |              |   |                                       |
|  |            |                    |                  |              |   |                                       |
| Subtotal   |            |                    |                  |              | \$  |                                       |
| Firm's Total Workload with NYCDDC/NYCDOT   |            |                    |                  |              | \$  |                                       |

**ATTACHMENT 3 (continued)**

**CURRENT WORKLOAD WITH OTHER CITY & STATE AGENCIES**

Date

FIRM NAME:

\_\_\_\_\_

List **ALL** projects for which the firm currently has contracts with other above agencies and those for which the firm has been officially selected. These shall be categorized as indicated below (Design & Construction Support Services and Other).

| Client Name/ Project Name  | Contract # | Type of Work | Uncomplete d Portion of Work (\$000) | Percent complete to date (%) |
|--|------------|--------------|--------------------------------------|------------------------------|
| <b>DESIGN &amp; Construction Support Services:</b> Includes Preliminary Design, Final Design and Total Design  |            |              |                                      |                              |
|  |            |              |                                      |                              |
|  |            |              |                                      |                              |
|  |            |              |                                      |                              |
|  |            |              |                                      |                              |
|  |            |              |                                      |                              |
|  |            |              |                                      |                              |
|  |            |              |                                      |                              |
| Design Subtotal  |            |              | \$                                   |                              |
| <b>DESIGN &amp; Construction Support Services:</b> For Bridges and Retaining Walls Projects.   |            |              |                                      |                              |
|  |            |              |                                      |                              |
|  |            |              |                                      |                              |
|  |            |              |                                      |                              |
|  |            |              |                                      |                              |
|  |            |              |                                      |                              |
|  |            |              |                                      |                              |
|  |            |              |                                      |                              |
| Design Subtotal  |            |              | \$                                   |                              |
| <b>OTHER:</b> Includes Traffic Engineering and Planning Services, Traffic Engineering & Safety, Environmental Engineering, Sub-surface exploration, Utility Engineering, Topographic Survey, Urban Design/Landscape Architecture, Value Engineering and other engineering design services. |            |              |                                      |                              |
|  |            |              |                                      |                              |
|  |            |              |                                      |                              |
|  |            |              |                                      |                              |
|  |            |              |                                      |                              |
|  |            |              |                                      |                              |
|  |            |              |                                      |                              |
|  |            |              |                                      |                              |
| Design Subtotal  |            |              | \$                                   |                              |
| <b>II- Firm's Total Workload with Other City and State Agencies</b>  |            |              | \$                                   |                              |

**ATTACHMENT 4**

**PROJECT SCHEDULE**

**1. Schedule for completion of milestone tasks:**

The following target dates are related to “Full Production Consultant Time Only” – excluding review time where efficient and meaningful work effort is not practical.

| Project Milestone                                  | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9         | 10        | 11  |
|--|---|---|---|---|---|---|---|---|-----------|-----------|-----|
| Elapsed Time in Consecutive Calendar Days from NTP |   |   |   |   |   |   |   |   | June 2015 | June 2015 | 365 |

Milestone 1: Waterfront Structures Inspection including Bulkheads

Milestone 2: Bridge Inspection, Structural Analysis and Testing

Milestone 3: Hydrology/Flood Risk Assessment

Milestone 4: Environmental Review and Permitting Identification

Milestone 5: Feasibility Study

Milestone 6: Draft Conceptual Design Development for Project Area One

Milestone 7: Draft Conceptual Design Development for Project Area Two

Milestone 8: Draft Project Development Identification (PDI) Report

Milestone 9: Final Conceptual Design & Estimate for Project Area One – no later than June 15, 2015

Milestone 10: Final Conceptual Design & Estimate for Project Area Two – no later than June 15, 2015

Milestone 11: Final PDI Report

**2. In addition, Attach proposer’s detailed Project Schedule indicating execution of all tasks and sub-tasks in a Bar-Chart format.**

**ATTACHMENT 5**

**ACKNOWLEDGEMENT OF ADDENDA**

|                                     |                    |
|-------------------------------------|--------------------|
| TITLE OF THE REQUEST FOR PROPOSALS: | PIN #:<br>T.O. No. |
|-------------------------------------|--------------------|

Instructions: The proposer is to complete Part I or Part II of this form, whichever is applicable, and sign and date this form. This form serves as the proposer's acknowledgement of the receipt of Addenda to this Request for Proposals (RFP) which may have been issued by the Agency prior to the Proposal Due Date and Time.

     Part I

Listed below are the dates of issue for each Addendum received in connection with this RFP.

Addendum # 1, dated \_\_\_\_\_

Addendum # 2, dated \_\_\_\_\_

Addendum # 3, dated \_\_\_\_\_

Addendum # 4, dated \_\_\_\_\_

Addendum # 5, dated \_\_\_\_\_

Addendum # 6, dated \_\_\_\_\_

Addendum # 7, dated \_\_\_\_\_

Addendum # 8, dated \_\_\_\_\_

Addendum # 9, dated \_\_\_\_\_

Addendum #10, dated \_\_\_\_\_



     Part II

No Addendum was received in connection with this RFP.



Proposer Name

---

Proposer's Authorized Representative:

Name: \_\_\_\_\_

Title: \_\_\_\_\_

Signature: \_\_\_\_\_

Date: \_\_\_\_\_

**ATTACHMENT 6**

**FEE PROPOSAL**

**Submission:** The proposer shall submit Fee Proposal (1 original) in a clearly marked separately sealed envelope.

The proposer shall give an overall **Not to Exceed** amount for the services to be performed. Such amount shall be broken down into the lump sum design fees for the following tasks:

The **Pre-Scoping Services Fee** is comprised of the lump sum fees for the following tasks:

| <u>TASK</u>  | <u>Section of GR</u> | <u>Lump Sum Fee</u> |
|--|----------------------|---------------------|
| <b><u>Study Area</u></b>                                 |                      |                     |
| 1. Project Development/Identification                    | 4.1                  | \$ _____            |
| 2. Waterfront Structures Inspection Including Bulkheads* |                      | \$ _____            |
| 3. Hydrology/Flood Risk Assessment                       |                      | \$ _____            |
| 4. Community Engagement                                  |                      | \$ _____            |
| 5. Environmental Review and Permitting Identification    |                      | \$ _____            |
| 6. Acquisition Study and Mapping                         | 4.11                 | \$ _____            |
| 7. Electronic Archiving and Indexing                     | 4.27                 | \$ _____            |
| <b><u>Project Area One</u></b>                           |                      |                     |
| 8. Bridge Inspection, Structural Analysis, and Testing   |                      | \$ _____            |
| 9. Traffic Study Program                                 | 4.3                  | \$ _____            |
| 10. Subsurface Exploration Program                       | 4.5                  | \$ _____            |
| 11. Tree Inventory                                       | 4.16                 | \$ _____            |
| 12. Hardware and Basin Condition Inventory               | 4.4                  | \$ _____            |
| 13. Conceptual Design Development                        |                      | \$ _____            |
| 14. Embankment Protection Study                          | 4.9                  | \$ _____            |
| 15. Roadway Pavement Design                              | 4.8                  | \$ _____            |
| 16. Preliminary Quantity and Cost Estimating             | 4.12                 | \$ _____            |
| <b><u>Project Area Two</u></b>                           |                      |                     |
| 17. Feasibility Study                                    |                      | \$ _____            |
| 18. Traffic Study Program                                | 4.3                  | \$ _____            |
| 19. Subsurface Exploration Program                       | 4.5                  | \$ _____            |
| 20. Tree Inventory                                       | 4.16                 | \$ _____            |
| 21. Hardware and Basin Condition Inventory               | 4.4                  | \$ _____            |
| 22. Conceptual Design Development                        |                      | \$ _____            |
| 23. Embankment Protection Study                          | 4.9                  | \$ _____            |
| 24. Roadway Pavement Design                              | 4.8                  | \$ _____            |
| 25. Preliminary Quantity and Cost Estimating             | 4.12                 | \$ _____            |

\* For purpose of estimate the consultant shall assume 8,200 linear feet for Rapid Inspection method and 3,200 linear feet for Routine Inspection method.

|   |                      |
|---|----------------------|
| <b>A. <u>TOTAL PRE-SCOPING SERVICES FEE</u></b>                             | \$ _____             |
| <b>B. <u>ESTIMATED TOTAL REIMBURSABLE SERVICES: (ATTACHMENT 7)</u></b>      | \$ _____             |
| <b>C. <u>ESTIMATED TOTAL CONTINGENCY SERVICES</u></b>                       | \$ <u>250,000.00</u> |
| 1. Additional Topographic Survey – GR Section 4.2                           |                      |
| 2. Additional Conceptual Design Development – see description on page SR-37 |                      |
| <b><u>GRAND TOTAL (Not To Exceed Amount) (A) + (B) + (C)</u></b>            | \$ _____             |

**ATTACHMENT 6**  
**FEE PROPOSAL (Cont'd.)**

\_\_\_\_\_  
Name of Proposer

By: \_\_\_\_\_  
Signature of Partner or Corporate Officer

\_\_\_\_\_  
Date

\_\_\_\_\_  
Print Name

\_\_\_\_\_  
Title

\_\_\_\_\_  
Firm

\_\_\_\_\_  
EIN #



**ATTACHMENT 8**

**M/WBE – SCHEDULE B**

Tax ID #: \_\_\_\_\_

APT E-  
PIN #: \_\_\_\_\_

**SCHEDULE B – M/WBE Utilization Plan  
Part I: M/WBE Participation Goals**

**Part I to be completed by contracting agency**

**Contract Overview**

|                                    |  |                         |  |                                    |
|------------------------------------|--|-------------------------|--|------------------------------------|
| <b>APT E- Pin #</b>                | _____  | <b>FMS Project ID#:</b> | _____  | <b>SANDRESM1</b>                   |
| <b>Project Title/ Agency PIN #</b> | _____ <b>Feasibility Study and Pre-Scoping Services for East Side Coastal Resiliency</b> _____ |                         |  |                                    |
| <b>Bid/Proposal Response Date</b>  | _____ <b>TO BE COMPLETED BEFORE ISSUANCE</b> _____   |                         |  |                                    |
| <b>Contracting Agency</b>          | _____ <b>Department of Design and Construction</b> _____                                       |                         |  |                                    |
| <b>Agency Address</b>              | _____ <b>30-30 Thomson Avenue</b> _____  | <b>City</b>             | _____ <b>Long Island City</b> _____                      | <b>State</b> _____ <b>NY</b> _____ |
|                                    |  | <b>Zip Code</b>         | _____ <b>11101</b> _____                                 |                                    |
| <b>Contact Person</b>              | _____ <b>Monika Beci</b> _____   | <b>Title</b>            | _____ <b>MWBE Liaison &amp; Compliance Analyst</b> _____ |                                    |
| <b>Telephone #</b>                 | _____ <b>(718) 391-1128</b> _____  | <b>Email</b>            | _____ <b>becimo@ddc.nyc.gov</b> _____                    |                                    |

**Project Description** *(attach additional pages if necessary)*

**PROJECT ID: SANDRESM1**  
**Prepare site analysis, community engagement, feasibility study, Conceptual Design for East Coast Resiliency.**

**M/WBE Participation Goals for Services**  
*Enter the percentage amount for each group or for an unspecified goal. Please note that there are no goals for Asian Americans in Professional Services.*

**Prime Contract Industry:** Construction

| Group                            | Percentage          |
|----------------------------------|---------------------|
| <u>Unspecified*</u>              | <u>15%</u>          |
| or                               |                     |
| Black American                   | <u>UNSPECIFIED*</u> |
| Hispanic American                | <u>UNSPECIFIED*</u> |
| Asian American                   | <u>UNSPECIFIED*</u> |
| Women                            | <u>UNSPECIFIED*</u> |
| <b>Total Participation Goals</b> | <b>15%</b>          |
|                                  | <b>Line 1</b>       |

*\*Note: For this procurement, individual ethnicity and gender goals are not specified. The Total Participation Goal for construction contracts may be met by using either Black-American, Hispanic-American, Asian American, or Women certified firms or any combination of such firms.*

**ATTACHMENT 9**

**HUD RIDER**

**SCHEDULE A**

**TIME FOR COMPLETION:** 365 consecutive calendar days.

**(A) PRE-SCOPING SERVICES FEE** \$ \_\_\_\_\_

**(B) ALLOWANCE FOR REIMBURSABLE SERVICES** \$ \_\_\_\_\_

**(C) CONTINGENCY SERVICES** \$ 250,000.00

- 1. Additional Topographic Survey – GR Section 4.2
- 2. Additional Conceptual Design Development

**(D) TOTAL NOT TO EXCEED AMOUNT: Addition of (A) + (B) + (C)** \$ \_\_\_\_\_

**(E) DELIVERABLES.** Upon completion of the respective tasks the Consultant shall hand deliver, to the Commissioner, the following:

**Pre-Scoping Services**

- 20 Sets of PDI Report
- 10 Sets of Bridge Inspection report (All back up documents)
- 10 Sets of Waterfront and Bulkhead Inspection report (All back up documents)
- 10 Sets of Environment Report
- 5 Sets of Traffic Study Report
- 20 Sets of Feasibility Study Report
- 5 Sets of Bound Prints of Selected Conceptual Design Alternative Project Area One
- 5 Sets of Bound Prints of Selected Conceptual Design Alternative Project Area Two
- 5 Sets of Technical Supplements (All project back up documents)
- 10 Copies of Archiving CDs

Agreed to:

Approved:

\_\_\_\_\_  
Consultant

\_\_\_\_\_  
Eric C. MacFarlane, P.E.  
Deputy Commissioner, Infrastructure

Agreed to:

\_\_\_\_\_  
NYCDDC, Division of Infrastructure