

STATE OF NEW YORK
NASSAU COUNTY

NY STATE
CDBG-DISASTER RECOVERY PROGRAM



APPLICATION FOR FUNDING
THE FIVE TOWNS:
DRAINAGE STUDY

AUGUST 2015

PREPARED BY

HUNT, GUILLOT, & ASSOCIATES, LLC
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General Description Form

Place a check mark in the appropriate box: Original Application Amended Application

<p>Applicant Name, Address, Phone and Fax Nos.:</p> <p>Nassau County Theodore Roosevelt Executive Building 1550 Franklin Avenue Mineola, NY 11501</p> <p>Phone: (516) 571-3131 Fax: (516) 571-4000</p>	<p>Project Name:</p> <p>The Five Towns: Drainage Study</p> <p>Project Address: Nassau County Theodore Roosevelt Executive Building 1550 Franklin Avenue Mineola, NY 11501</p>
<p>Applicant's Contact Person Name, Address, Phone Number, Email Address, DUNS Number, and SAM CAGE Code Number.</p> <p>Sean Sallie, AICP Senior Planner—Planning Division Nassau County Department of Public Works 1194 Prospect Avenue Westbury, NY 11590</p> <p>Phone: (516) 571-9342 Email: ssallie@nassaucountyny.gov</p> <p>Duns Number: 609158530 SAMS-CAGE Code: 7CE79</p>	<p>Name, Address, Phone Number and Email Address of HGA Administrative Consultant: (if applicable)</p> <p>Ed Hannum Subject Matter Expert HGA 500 Bi-County Blvd., Suite 300 Farmingdale, NY 11735</p> <p>Phone: (3631) 465-9370 Email: ehannum@hga-llc.com</p> <p>Name, Address, Phone Number and Email Address of GOSR Project Manager:</p> <p>Laura Munafo Regional Lead – Nassau County Governor's Office of Storm Recovery 500 Bi-County Blvd., Suite 300 Farmingdale, NY 11735</p> <p>Phone: (631) 465-9679 Email: laura.munafo@stormrecovery.ny.gov</p>
<p>Name, Address, Phone Number and Email Address of Architectural/Engineering Firm:</p>	<p>National Objective to be Addressed (check one).</p> <p>_____ Activities Benefiting Low/Moderate Income Persons</p> <p>_____ Prevention/Elimination of Slums or Blight</p> <p><u> x </u> Urgent Need</p> <p>_____ Not Applicable—Planning</p>

Project Funds	Amount	Source and Status of Funds
CDBG-DR	\$1,085,575.00	CDBG-DR
CDBG-DR	\$49,688.00	CDBG-DR
CDBG-DR	\$2,000.00	CDBG-DR
Local Funds	\$120,809.00	Nassau County
Private Funds	\$0.00	
Other State Funds	\$0.00	
Federal Funds (non-CDBG-DR)	\$0.00	
Other Funds	\$0.00	
TOTAL FUNDS	\$1,258,072.00	
Signature (Authorizing Official) and Date Signed		Typed Name/Title (Authorizing Official)
 Date: 8/14/2015		Edward P. Mangano, Nassau County Executive

SUPPLEMENTAL INFORMATION

Project Name: The Five Towns: Drainage Study

1. Identify the name, telephone and District # of the State Senator(s) representing your jurisdiction:

Name:	Senate District #:
<u>NYS Senator Dean G. Skelos</u>	<u>(516) 766-8383 District No. 9</u>

2. Identify the name, telephone number, and District # of the State Representative(s) representing your jurisdiction:

Name:	Representative District #:
<u>NYS Assemblymember Todd Kaminsky</u>	<u>(516) 431-0500 District No. 20</u>

3. Identify the U.S. Congressperson representing your jurisdiction and congressional district number.

Name:	Congressional District #:
<u>U.S. Senator Charles Schumer</u>	<u>New York State</u>
<u>U.S. Senator Kirsten Gillibrand</u>	<u>New York State</u>
<u>U.S. Representative Kathleen Rice</u>	<u>District No. 4</u>

4. Identify the members of your jurisdiction's governing authority.

Name:	Member District #:
<u>Nassau County Executive Edward P. Mangano</u>	<u>Nassau County</u>
<u>Nassau County Legislator Carrié Solages</u>	<u>District No. 3</u>
<u>Nassau County Legislator Denise Ford</u>	<u>District No. 4</u>
<u>Nassau County Legislator Francis X. Becker, Jr</u>	<u>District No. 6</u>
<u>Nassau County Legislator Howard J. Kopel</u>	<u>District No. 7</u>
<u>Town of Hempstead Supervisor Kate Murray</u>	<u>Town of Hempstead</u>
<u>Town of Hempstead Councilmember Anthony J. Santino</u>	<u>District No. 4</u>
<u>Village of Cedarhurst Mayor Benjamin Weinstock</u>	<u>Village of Cedarhurst</u>
<u>Village of Cedarhurst Trustee Ari Brown</u>	<u>Village of Cedarhurst</u>
<u>Village of Cedarhurst Trustee Myrna Zisman</u>	<u>Village of Cedarhurst</u>
<u>Village of Cedarhurst Trustee Israel Wasser</u>	<u>Village of Cedarhurst</u>
<u>Village of Hewlett Bay Park Mayor Steven Kaufman</u>	<u>Village of Hewlett Bay Park</u>
<u>Village of Hewlett Bay Park Trustee Andrea Soskel</u>	<u>Village of Hewlett Bay Park</u>
<u>Village of Hewlett Bay Park Trustee Joel Schneider</u>	<u>Village of Hewlett Bay Park</u>
<u>Village of Hewlett Bay Park Trustee Jay Levy</u>	<u>Village of Hewlett Bay Park</u>
<u>Village of Hewlett Bay Park Trustee Alex Solomon</u>	<u>Village of Hewlett Bay Park</u>
<u>Village of Hewlett Harbor Mayor Mark Weiss</u>	<u>Village of Hewlett Harbor</u>
<u>Village of Hewlett Harbor Trustee Michael Yohai</u>	<u>Village of Hewlett Harbor</u>
<u>Village of Hewlett Harbor Trustee Thomas Cohen</u>	<u>Village of Hewlett Harbor</u>
<u>Village of Hewlett Harbor Trustee Kenneth Kornblau</u>	<u>Village of Hewlett Harbor</u>
<u>Village of Hewlett Neck Mayor Ross Epstein</u>	<u>Village of Hewlett Neck</u>
<u>Village of Hewlett Neck Trustee Brett Cooper</u>	<u>Village of Hewlett Neck</u>
<u>Village of Hewlett Neck Trustee Michael Levine</u>	<u>Village of Hewlett Neck</u>
<u>Village of Hewlett Neck Trustee Aron Schnell</u>	<u>Village of Hewlett Neck</u>
<u>Village of Lawrence Mayor Martin Oliner</u>	<u>Village of Lawrence</u>
<u>Village of Lawrence Trustee Irving Langer</u>	<u>Village of Lawrence</u>
<u>Village of Lawrence Trustee Michael A. Fragin</u>	<u>Village of Lawrence</u>
<u>Village of Lawrence Trustee Alex Edelman</u>	<u>Village of Lawrence</u>
<u>Village of Woodsburgh Mayor Lee A. Israel</u>	<u>Village of Woodsburgh</u>

Village of Woodsburgh Trustee Carl Cayne	Village of Woodsburgh
Village of Woodsburgh Trustee Barry Platnick	Village of Woodsburgh
Village of Woodsburgh Trustee Jacob Harman	Village of Woodsburgh

5. Target Area Census Tract(s): 411000, 411200, 411301, 411302, 411400, 411500, 411600, 411700
6. Indicate by means of an "x" as to whether the proposed project will involve a community-wide benefit or a target area(s) and enter the zip code of the project. If a target area is involved, enter the name(s) and zip code of the target area(s).

Community-wide (Zip Code: _____) Target Area(s)

- Name and Zip Code of Target Area: Cedarhurst, NY 11516
- Name and Zip Code of Target Area: Hewlett, NY 11557
- Name and Zip Code of Target Area: Hewlett Harbor, NY 11557
- Name and Zip Code of Target Area: Hewlett Neck, NY 11598
- Name and Zip Code of Target Area: Inwood, NY 11096
- Name and Zip Code of Target Area: Lawrence, NY 11559
- Name and Zip Code of Target Area: Woodmere, NY 11598
- Name and Zip Code of Target Area: Hewlett Bay Park, NY 11557
- Name and Zip Code of Target Area: Woodsburgh, NY 11598

Community-wide projects should use the zip code of the location of city hall. Target-area projects should use the zip code of the target area where the majority of the construction funds will be spent (for each target area). If the target area(s) does not have a name, please provide a brief geographical description of the area such as "western portion of the city."

7. Provide Lat/Long for the Project Location at or near the geographical center:

LOCATION LATITUDE LONGITUDE

	Latitude	Longitude
Hewlett Neck, NY (Town of Hempstead, Nassau County)	40.623479	-73.698077
Lawrence, NY (Town of Hempstead, Nassau County)	40.616292	-73.730102
Cedarhurst, NY (Town of Hempstead, Nassau County)	40.622998	-73.724079
Hewlett, NY (Town of Hempstead, Nassau County)	40.643408	-73.695730
Hewlett Harbor, NY (Town of Hempstead, Nassau County)	40.635400	-73.676874
Woodmere, NY (Town of Hempstead, Nassau County)	40.632414	-73.712281
Inwood, NY (Town of Hempstead, Nassau County)	40.622331	-73.746711
Hewlett Bay Park, NY (Town of Hempstead, Nassau County)	40.633442	-73.695540
Woodsburgh, NY (Town of Hempstead, Nassau County)	40.623993	-73.708465
(All points are geographic center of village/hamlet)		

8. How many other projects funded with CDBG-DR funds relate to the project: 1
9. Does the project relate to any other project GOSR should be aware? Yes
Hewlett Harbor Stormwater Infrastructure Upgrades Project
10. Does the project encompass multiple counties: Yes No
11. If the proposed project is a "covered project," please provide a narrative describing the "Resilience Performance Standards" to be used in the design/implementation of the project below.

Not Applicable

12. If the proposed project is a "covered project," please provide a narrative describing the **"Green Infrastructure Project Activities"** to be used in the design/implementation of the project below. For the purpose of completing this section, green infrastructure is defined as the integration of natural systems and processes, or engineered systems that mimic natural systems and processes, into investments in resilient infrastructure. "Green Infrastructure" takes advantage of the services and natural defenses provided by land and water systems such as wetlands, natural areas, vegetation, sand dunes, and forests, while contributing to the health and quality of life of those in recovering communities.

Not Applicable

13. If the proposed project is a "covered project," please provide a narrative describing the **"Transparent and Inclusive Decision Processes"** undertaken in selection of the proposed project. Include accessible public hearings and other processes to advance the engagement of vulnerable populations.

Not Applicable

14. If the proposed project is a "covered project," please provide a narrative describing the **"Long Term Efficacy and Fiscal Sustainability"** plans to monitor and evaluate efficacy and sustainability, including how it will reflect changing environmental conditions (such as sea level rise or development patterns) with risk management tools, and/or alternate funding sources, if necessary.

Not Applicable

15. If the proposed project is a "covered project," please provide a narrative describing how the project will align with the commitment expressed in the President's Climate Action Plan to "identify and evaluate additional approaches to improve our natural defenses against extreme weather, protect biodiversity, and conserve natural resources in the face of changing climate..."

Not Applicable

16. Has an amendment to the Action Plan to include this project been submitted to HUD?

Yes; No;

17. What is the status of the amendment request? Provide a narrative describing the status of the amendment request. (Include date of submission, date of approval, any requests for additional information, and current status)

Not Applicable

18. Is this project receiving FEMA Public Assistance funding: Yes No

19. Is this project receiving FEMA Public Assistance 406 Hazard Mitigation Funds:

Yes No

Please provide the FEMA Project Worksheet number(s) for this project application: _____
(The FEMA project work sheet number should include the FEMA disaster declaration number in the first four (4) digits and the project worksheet number in the last five (5) digits. A Hurricane Sandy related project with the project worksheet "567" would be entered as "4085-00567")

20. Is this project receiving FEMA Section 404 Hazard Mitigation funds:

Yes No

21. Is this project receiving any Army Corps of Engineers funding:

Yes No

If yes, please provide the type of funds applied for and application number: _____

22. Is this project receiving any Environmental Protection Agency funds:

Yes No

If yes, please provide the type of funds applied for and application number: _____

23. Is this project receiving any Department of Energy funds:

Yes No

If yes, please provide the type of funds applied for and application number: _____

24. Is this project receiving any Department of Transportation funds:

Yes No

If yes, please provide the type of funds applied for and application number: _____

25. Is this project receiving any Department of the Interior funds:

Yes No

If yes, please provide the type of funds applied for and application number: _____

BUDGET/COST SUMMARY FORM

PROJECT NAME: The Five Towns: Drainage Study

(A) Costs by Activity	(B) CDBG-DR	(C) Other	(D) Total	(E) Source
1. Acquisition of Real Property	\$0.00	\$0.00	\$0.00	
2. Public Facilities and Improvements	\$1,085,575.00	\$120,809.00	\$1,206,384.00	CDBG-DR / Nassau County
3. Rehabilitation Loans and Grants (Hook-ups)	\$0.00	\$0.00	\$0.00	
4. Clearance Activities	\$0.00	\$0.00	\$0.00	
5. Public Services	\$0.00	\$0.00	\$0.00	
6. Other - Planning	\$0.00	\$0.00	\$0.00	
7. Project Delivery Costs	\$49,688.00	\$0.00	\$49,688.00	CDBG-DR
8. Administration	\$2,000.00	\$0.00	\$2,000.00	CDBG-DR
TOTAL	\$1,137,263.00	\$120,809.00	\$1,258,072.00	

Architectural/Engineering (A/E) costs must be included in one of the activity costs above.

HUD Matrix Code: 03 Other Public Facilities/Improvements

CDBG-DR PROGRAM TIME SCHEDULE

APPLICANT NAME: Nassau County - Five Towns Drainage Study

	Quarter 1	Quarter 2	Quarter 3	Quarter 4	Quarter 5	Quarter 6	Quarter 7	Quarter 8	Quarter 9	Quarter 10	Quarter 11	Quarter 12
Activity: Public Facilities and Improvements												
a. Perform H&H Study		↑										
b. Provide H&H Report			↑									
c. Perform Drainage Study				↑								
d. Provide Drainage Report					↑							
e. Accept H&H/Drainage Reports												

Provide the following dates:
 *Required

*ERR Complete Date: 10/2014
 *Project Start Date: 09/2015
 *Project End Date: 08/2016

Acquisition/Closing: N/A
 Design Complete: N/A

ACTIVITY BENEFICIARY FORM

Community-Wide Target Area Combined

Project: The Five Towns: Drainage Study

List name of each activity excluding Admin & Acquisition:	1) Public Facilities and Improvements		2)		3)	
	#	%	#	%	#	%
Persons (total):	49925					
Total LMI Income:	14450	28.94%				
Low Income:	9175	18.38%				
Owner (for Rehab activity <u>only</u> , i.e. hookups):						
Renter (for Rehab activity <u>only</u> , i.e. hookups):						
Moderate Income:	5275	10.57%				
Owner (for Rehab activity <u>only</u> , i.e. hookups):						
Renter (for Rehab activity <u>only</u> , i.e. hookups):						
Medium Income:	23980	48.03%				
Owner (for Rehab activity <u>only</u> , i.e. hookups):						
Renter (for Rehab activity <u>only</u> , i.e. hookups):						

Race and Ethnicity	Percent (%)	Percent (%)	Percent (%)
White:	81.18		
Black or African American:	7.40		
American Indian or Alaskan Native:	0.16		
Asian:	4.00		
Native Hawaiian or Other Pacific Islander:	0.05		
Other:	7.20		
Hispanic or Latino	13.59		

Data Sources:

Low and moderate income persons for area benefit activities were determined using the 2006-2010 American Community Survey.

Percentages for race and ethnicity for area benefit activities were determined using the Census 2010 SF-1 100% data, Tables P3-Race, and P4-Hispanic or Latino Origin.

ACTIVITY BENEFICIARY JUSTIFICATION

In order to meet low- and moderate-income (LMI) benefit, at least 51% of the area's residents must be LMI. However, some communities have few, if any, areas in which 51% of the residents are LMI. In the case of Superstorm Sandy, the United States Department of Housing and Urban Development (HUD) has granted the State of NY a waiver under the Community Development Block Grant-Disaster Recover (CDBG-DR) program. The waiver applies to entitlement communities that have few, if any, areas within their jurisdiction that have 51% or more LMI income residents; per the requirements of 42 U.S.C. 5305(c)(2)(A), these communities are allowed to use a percentage less than 51% to qualify activities under the LMI area benefit category. This exception is referred to as the exception criteria or the upper quartile. HUD assesses census block groups to determine whether an entitlement community meets the exception criteria. For communities that qualify, the department identifies the alternative percentage (i.e., the lowest proportion) the community may use, instead of 51%, for the purpose of qualifying activities under the LMI area benefit. HUD advises the entitlement community accordingly. Periodically, HUD updates the LMI summary data used to identify the exception criteria; disaster recovery grantees are required to use the most recent data available in implementing the exception criteria.

The data below includes the most current HUD CDBG-DR capped exception threshold for Nassau County. This percentage represents the minimum of LMI persons that must reside in the project target area for the activity to be assisted with CDBG-DR funds using the HUD national objective of benefiting low- and moderate-income persons. For this project, **Nassau County has an LMI exception of 37.98%.**¹

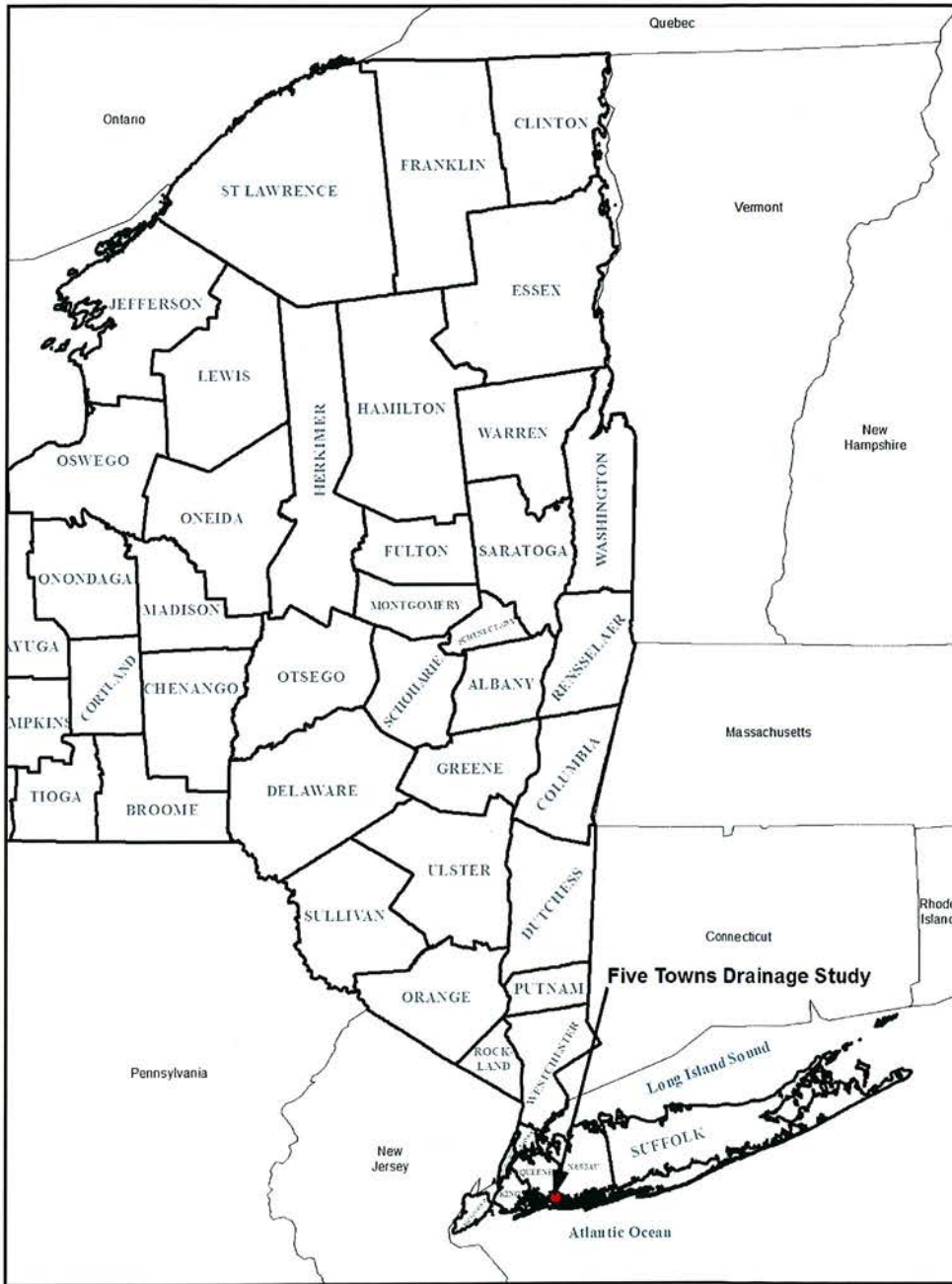
Nassau County's The Five Towns: Drainage Study project has an LMI population of 28.94% and therefore, **does not qualify under the national objective of benefiting low- and moderate-income persons.**

Nassau County LMI Exception Threshold	37.98%
Nassau County's The Five Towns: Drainage Study LMI Beneficiaries	28.94%
Does the project meet LMI national objective?	No

¹ <https://www.hudexchange.info/manage-a-program/acs-low-mod-summary-data-exception-grantees/>.

VICINITY MAP

Project Name: The Five Towns: Drainage Study
Map: The Five Towns NYRCR Vicinity Map²



² Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, Getmapping, Aerogrid, IGN, IGP and the GIS User Community.

TARGET AREA MAP

Project Name: The Five Towns: Drainage Study
Map: The Five Towns NYRCR Vicinity Map³

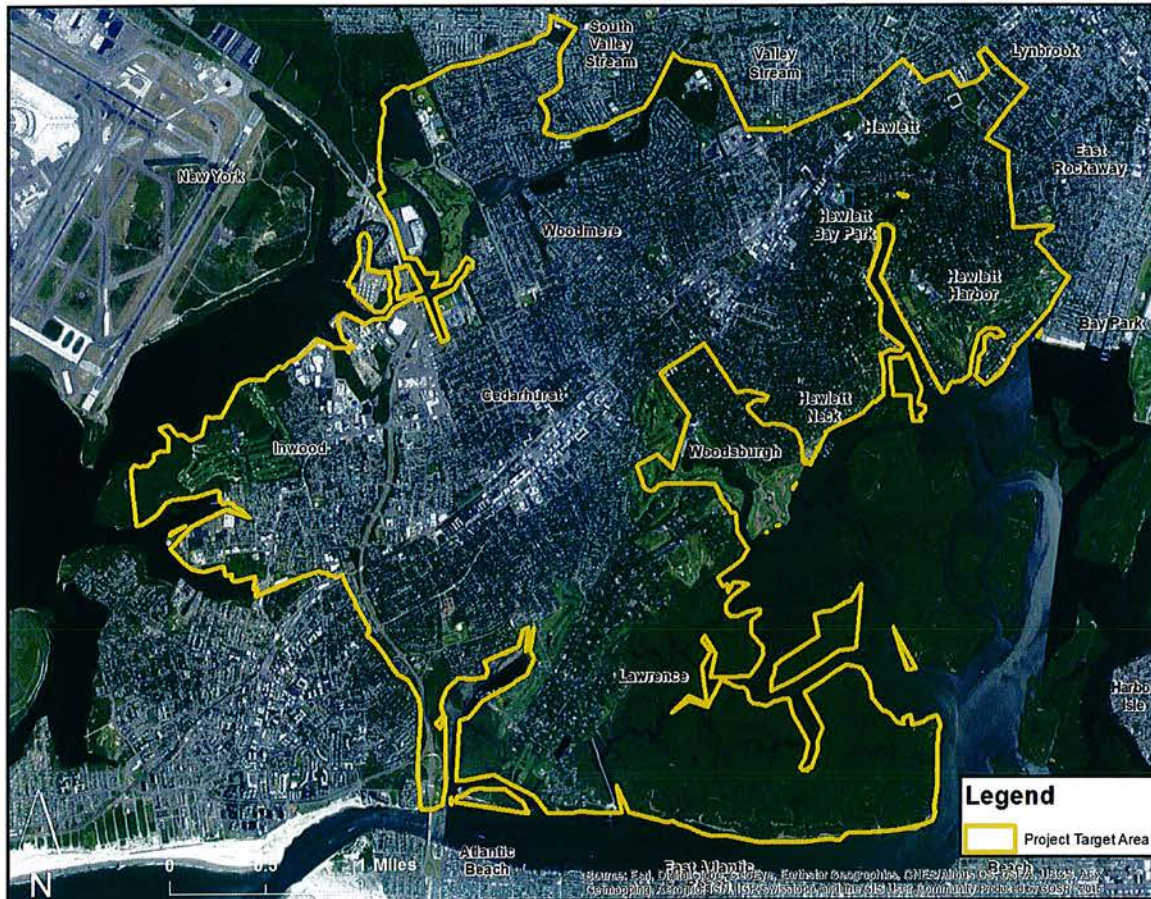


³ Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, Getmapping, AeroGrid, IGN, IGP and the GIS User Community.

PROJECT SITE MAP

Project Name: The Five Towns: Drainage Study

Map: The Five Towns NYRCR Project Site Map⁴



⁴ Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, Getmapping, Aerogrid, IGN, IGP and the GIS User Community.

PROJECT DESCRIPTION

Comprehensive Description:

Nassau County is proposing a drainage study, a project funded by and conceived through the NY Rising Community Reconstruction Program of the Governor's Office of Storm Recovery. The goal of the Five Towns Drainage Study is to provide necessary data to reduce flood damages and risks to the people of the villages and hamlets in the southwestern portion of Nassau County commonly referred to as the Five Towns. These villages and hamlets are the Villages of Cedarhurst, Lawrence, Hewlett Neck, Hewlett Bay Park and Woodsburgh and the Hamlets of Woodmere, Hewlett, and Inwood. The report produced will document and map the stormwater drainage infrastructure systems in the region, identify system limitations and provide recommendations for system improvement to mitigate stormwater and tidal flooding. To accomplish the stated goal, Nassau County will procure an engineering firm that will prepare the following documents:

- A drainage and flooding analysis technical report which includes large scale mapping, observations, evaluations, proposed improvements, impacts, costs and benefits of potential engineering solutions
- A hydrologic and hydraulic study of the watershed to define stormwater tributary areas, calculate runoff volume and discharge rates of existing stormwater infrastructure, and make recommendations for current system limitations and future demand (assuming development and flood mitigation interventions).

The drainage and flooding analysis technical report will include the following tasks:

- 1) The firm shall study options to prevent inundation of roads and properties during extreme high tide events, by considering two scenarios: (A) Tidal water cresting over existing bulkheads, seawall or berms; and (B) Tidal water backing up through existing drainage outfalls and entering drain systems and roadways, as described below:
 - A. Determine the extent, and feasibility of installing a seawall system or other similar structure(s),
 - I. Roughly plot, on large scale atlas maps, the proposed seawall/structure boundary, and measure the total length shown.
 - II. Calculate the lengths of the proposed seawall/structure that abut County, Town, Village or private land that add up to the total length.
 - III. Roughly estimate the construction cost to each of the above agencies or owners, assuming a particular type of sea wall (sheeting, concrete, etc.)
 - B. Evaluate each of the stormwater discharges/outfalls at the tidal interface.
 - I. Note if outfall includes tide gates or inline backflow preventers.
 - II. Determine the capacity of the collection system as compared with the theoretical volume of contributing stormwater for a 1 yr., 10 yr., and 100 yr. storm (this task may be combined with Task 2 below).
 - III. Note jurisdiction responsibility of each outfall and calculate total number of outfalls for each agency or owner.

PROJECT NAME: The Five Towns: Drainage Study

PROJECT DESCRIPTION: Page 2 of 11

- IV. Develop a construction cost estimate to install or repair tide gates/backflow preventers at necessary locations. Results shall be detailed in tabular format, categorized by jurisdictional responsibility.
- 2) The firm shall evaluate all existing municipal storm drainage systems within the region's watershed(s) and develop potential improvement strategies to include, collection, storage, recharge and maintenance as described below:
 - A. Identify and map the boundaries of existing municipal separate storm sewer systems (MS4s), including interconnections where applicable.
 - B. Identify areas lacking adequate stormwater collection systems, and describe proposed engineering solution(s) for each area.
 - C. Evaluate the large tributary areas for the main drain systems (Clear Stream, Valley Stream Brook, Doxey's Book, Fosters Brook, Mott Creek, and Hook Creek) leading to and running through the project area. Note any problem areas and describe potential solutions. Determine if any undeveloped areas exist where stormwater runoff can be detained and/or recharged to reduce peak flow in the above noted drain systems.
- 3) Develop rough construction estimates and design concepts for any potential improvements identified as part of Tasks 1 and 2 above.

The hydrologic and hydraulic study will be performed by the same firm as the drainage study and includes the following tasks:

- 1) Existing System Capacity
 - a) Describe the capacity of the existing drainage system (all municipal systems) to convey flow based on pipe flow calculations.
 - i) All relevant software (GIS, AutoCAD, etc.) should be used to analyze and illustrate the capacity of the drainage system.
 - b) Quantify the amount of rainwater runoff generated by watershed and sub-watershed (based on 10yr and 100yr storm events).
 - i) Existing and future conditions shall be analyzed. Zoning, land use/planning and land cover data shall be used to project future conditions.
 - c) Identify and prioritize water management overflow issues and needs.
- 2) Alternative Mitigation Solutions
 - a) Quantify the alternative solutions for mitigating overflow runoff, localized surface ponding and tidal backflow through system upgrades such as, but not limited to, road raisings, low impact development and green infrastructure solutions.
 - b) Proposed mitigation solutions will include conceptual design drawings, scope description and cost for: (1) a no implementation solution (leaving the site as is); (2) a traditional hard infrastructure mitigation solution; and (3) a low impact development/green infrastructure mitigation solution.

PROJECT NAME: The Five Towns Drainage Study

PROJECT DESCRIPTION: Page 3 of 11

3) Benefit Cost Analysis & Budget

- a) Quantify and monetize benefits of all proposed mitigation solutions and compare against detailed budget.

- b) Specifically compare system benefits with lifecycle costs of green infrastructure mitigation solutions.

The firm will be expected to collaborate with other relevant State, County, and Town agencies and elected officials, not-for-profit organizations, business, real estate, and community organizations to adequately collect and analyze relevant information. The firm shall coordinate with all municipalities and governmental agencies having jurisdiction over stormwater infrastructure in the study area and include in its proposal an outreach strategy to ensure that there is consistent and effective information sharing between the County and the respective municipal entities and governmental agencies. The firm will be expected to employ innovative and effective methods to conduct a technical drainage study and articulate its findings to municipal representatives, community stakeholders and the general public.

Since this is a study, no historic or landmarked properties will be impacted. The project will not break ground or require acquisition of real property.

The studies will pay particular attention to the following County, Town and Village roads, as each have been identified in the *Five Towns NY Rising Community Reconstruction (NYRCR) Plan* as prone to regular flooding. Please note that this is not an exhaustive list of priority areas as project coordination and outreach discussions with local municipal officials are expected to further clarify areas and street corridors requiring a high level of review.

<u>COMMUNITY</u>	<u>KNOWN FLOODING ISSUE</u>
Village of Cedarhurst	Peninsula Boulevard, Oxford Road, Albermarle Road, Arlington Road, Hanlon Drive and Bayview Avenue
Hamlet of Hewlett	Kew Road (Stevenson Road to Quay Ave.), East Broadway at Franklin Avenue, Broadway (Burton Ave. to Piermont Ave.), Woodside Drive and Cedar Avenue
Village of Hewlett Neck	Pepperidge Road, Harbor Road and Auerbach Avenue
Hamlet of Inwood	Bayswater Boulevard, Walnut Road, Chestnut Road, Davis Avenue, Maple Road and Prospect Place
Village of Lawrence	Meadow Lane
Hamlet of Woodmere	Derby Avenue, Church Avenue, Barnard Avenue, Arbuckle Avenue, Ibsen Street, Howard Avenue, Island Avenue, Jefferson Street, King Street, Lowell Street, Moore Street, Lakeside Drive, Rica Lane, Midway, Norma Way, Donald Lane, Saddle Ridge Road and Golf Drive

PROJECT NAME: The Five Towns Drainage Study

PROJECT DESCRIPTION: Page 4 of 11

The cost estimate in this Application is greater than the cost estimate in the Pre-application due to the inclusion of project delivery and project administration costs. These project delivery and project administration costs will be funded by GOSR above and beyond the project allotment and therefore will not impact budget allotment for design and construction in the Five Towns NYRCR Plan budget.

Project Context:

The project is a separate project and does not rely on any other project that would involve CDBG-DR requirements. However, data provided by the Village of Hewlett Harbor Stormwater Infrastructure Upgrade Study performed by Dvirka and Bartilucci will be used in this project.

Beneficiaries/Public Benefit/Target Area:

The beneficiaries for this project would include the Five Towns communities of the Villages of Hewlett Neck, Lawrence, Cedarhurst, Hewlett Bay Park and Woodsburgh and the Town of Hempstead hamlets of Hewlett, Woodmere, and Inwood, which is home to more than 49,000 residents (2010 Census), and would particularly benefit residents who live in the extreme and high risk areas within these communities. For clarity, it should be noted that only the Villages of Hewlett Neck, Lawrence, Cedarhurst, as well as the Hamlets of Hewlett, Woodmere, and Inwood are being funded under these CDBG-DR monies while the Villages of Hewlett Bay Park and Woodsburgh would be funded under separate County funds but would be managed as a single effort. The communities funded with CDBG-DR monies were part of the Five Towns NYRCR Planning Area, whereas the Villages of Hewlett Bay Park and Woodsburgh were not.

A separate, complementary project was previously carried out by the Village of Hewlett Harbor, as mentioned in the Five Towns NYRCR Plan, via the services of Dvirka and Bartilucci Engineers and Architects, P.C. using local and other funding sources to conduct a study of the Village's drainage system. The data and recommendations from that study will be assessed and the findings included in the Five Towns drainage study to ensure consistency and to prevent duplication.

The deliverables from the Five Towns Drainage Study will identify a collection of stormwater management system improvement projects including a configurable watershed model that compiles available GIS data, delineates drainage basins, and defines drainage parameters. Potential future design and implementation of projects will address the limitations to water flow and drainage and will reduce the flooding risk to residents, businesses, institutional facilities and emergency responders, thus strengthening the area's overall ability to recover following a major storm event.

Anticipated benefits to each of the Five Town communities identified in the Five Towns NYRCR Plan with this project are as follows:

Village of Cedarhurst

- Risk Reduction and Increased Resiliency: Initially the study will identify deficiencies in the existing system and provide feasible alternatives to address those deficiencies which will help to prevent and or minimize flooding. Depending on the options recommended by the study, further action may include upgrading the pipe capacity allowing stormwater to be stored within the system and be released when higher water recedes, which would prevent

or minimize flooding. As a result, the residences and businesses will suffer less damage and the community will be able to recover quicker and be more resilient. The recommendations of this drainage study should provide a reduction of risks directly or indirectly to all populations in the Cedarhurst community. The combined population of the area is approximately 6,712 residents. Although specific areas are identified for particular attention (see table on pg. 4), the interconnectivity of the stormwater system results in a reduction of risk to all residents in Cedarhurst.

- **Economic:** The additional stormwater upgrades should positively impact Cedarhurst's existing infrastructure by reducing erosion and strain on the sewage system. Improving stormwater system efficiency will reduce property damage and government expenditures for emergency response as a result of storm events.
- **Cost:** Improvement to the stormwater infrastructure system would, over time, save Cedarhurst additional expenses for maintenance and replacement of stormwater infrastructure system components.
- **Health and Social:** The proposed project directly impacts the Peninsula Boulevard (low lying) portion of Cedarhurst with a population of approximately 2,541 residents. This project can help with providing better access for emergency vehicles during and after flooding events. Also, the resulting stormwater improvements may benefit the Lawrence Number 6 School which is located on Peninsula Boulevard and identified as a health and social asset by the Community.
- **Environmental:** Based on the study results, the projects recommended would reduce the flooding risk to the Village of Cedarhurst, which would help to secure many environmental assets in the area. Types of assets include Johnny Jack Park and Cedarhurst Park as well as natural areas and riparian habitat.

Village of Lawrence

- **Risk Reduction and Increased Resiliency:** The study would identify deficiencies to the existing stormwater disposal system and provide feasible alternatives to address the system deficiencies in order to prevent or minimize flooding. Depending on the options recommended by the study upgrading the system could include increasing pipe capacity and the installation of check valves to prevent backflow. As a result stormwater should discharge faster which would enable the community to recover quicker and be more resilient. The study's recommendation is expected to reduce vulnerability of assets in the Community and secure locally significant stormwater infrastructure assets, including the pipes and outfalls. Although specific areas are identified for particular attention (see table on pg. 4), the interconnectivity of the stormwater system results in a reduction of risk to all residents in Lawrence.
- **Economic:** The addition of stormwater upgrades will positively impact Lawrence's existing infrastructure by reducing erosion and strain on the stormwater infrastructure system. Improving stormwater system efficiency will reduce property damage and government expenditures for emergency response as a result of storm events.

PROJECT NAME: The Five Towns: Drainage Study

PROJECT DESCRIPTION: Page 6 of 11

- **Cost:** Improvement to the stormwater infrastructure system would, over time, save the Village the additional expenses for maintenance and replacement of system components.
- **Health and Social:** The proposed project impacts the Meadow Lane/Marbridge Road, Harborview, Lakeside Drive South portion of Lawrence with a population of approximately 3,307 residents. This project when implemented can help with providing better access for emergency vehicles during and after flooding events. Also, the nearby Lawrence Middle School, which is identified as a health and social services asset, may benefit from the recommended projects.
- **Environmental:** The proposed improvements to the stormwater infrastructure system would increase the resiliency of the Lawrence area, which would help to secure many environmental assets (e.g., open spaces and other natural areas, wetlands, etc.) in the immediate vicinity. The infrastructure improvements would also have beneficial effects on the water quality of Bannister Bay, helping to protect this environmental asset. New York State Department of Environmental Conservation has identified three types of significant natural communities along portions of the Lawrence shoreline in this area as well as in Bannister Bay: (1) low salt marsh at Hempstead Bay Wetlands; (2) high salt marsh at Hempstead Bay Wetlands; and (3) salt panne at Hempstead Bay Wetlands. These significant natural communities would also benefit as a result of the proposed recommendations.

Village of Hewlett Neck

- **Risk Reduction and Increased Resiliency:** The drainage study would identify deficiencies with the existing system and provide feasible alternatives to address the system deficiencies in order to reduce flooding. Depending on the options recommended in the study further actions could include upgrading pipe capacity, cleaning and upgrading existing stormwater management system, and increasing infiltration by addition of green infrastructure. This would allow for stormwater to dissipate faster, reducing vulnerability of assets in the vicinity of the project. This would make it possible for the community to recover quicker and to be more resilient during and after storm events. It will secure locally significant stormwater infrastructure assets, including the pipes, outfalls, and Woodbine Ditch. The proposals, when implemented, should provide a reduction of risks to all populations in Hewlett Neck. Improving the stormwater system should reduce flooding throughout the community given the interconnectivity of the system. Although specific areas are identified for particular attention (see table on pg. 4), the interconnectivity of the stormwater system results in a reduction of risk to all residents in Hewlett Neck.
- **Economic:** The addition of stormwater upgrades will positively impact Hewlett Neck's existing infrastructure by reducing erosion and strain on the stormwater infrastructure system. Improving stormwater system efficiency will reduce property damage and government expenditures for emergency response as a result of storm events.

PROJECT NAME: The Five Towns: Drainage Study

PROJECT DESCRIPTION: Page 7 of 11

- **Cost:** Improvement to the stormwater infrastructure system would, over time, save Hewlett Neck the additional expenses for maintenance and replacement of system components.
- **Health and Social:** The implementation of recommendations from the drainage study will benefit the Hewlett Neck population of approximately 454 residents. This project can help with providing better access for emergency vehicles during and after flooding events.
- **Environmental:** The implementation of the recommendations of this drainage study will help the secure many of the various environmental assets in the Village of Hewlett Neck including water bodies such as: Hewlett Harbor/Hewlett Bay and Brosewre Bay; Woodbine Ditch, a natural area subject to flooding; Woodmere Dock, a Town of Hempstead park/recreational facility; and Boorman's Island, a protected island/marsh/wetland area. Proposed upgrades to the Village of Hewlett Neck's stormwater infrastructure would increase the resiliency of the area in general, protecting environmental assets such as Woodmere dock and Woodbine Ditch.

Woodmere

- **Risk Reduction and Increased Resiliency:** Assets in Woodmere are susceptible to flooding because of poor drainage of precipitation through stormwater sewer system, inundation by seawater back flowing through the stormwater sewer system, and the generally low elevations in portions of the community. The recommendations from the drainage study, when implemented, would reduce the vulnerability of assets in Woodmere by addressing these problems and thus reducing the frequency and severity of flooding during precipitation events. In turn the recommendations of the study will enable the community to recover quicker and be more resilient during and after storm events. Although specific areas are identified for particular attention (see table on pg. 4), the interconnectivity of the stormwater system results in a reduction of risk to all residents in Woodmere.
- **Economic:** The addition of stormwater upgrades will positively affect Woodmere's existing infrastructure by reducing erosion and strain on the stormwater infrastructure system. Improving stormwater system efficiency will reduce property damage and government expenditures for emergency response as a result of storm events.
- **Cost:** Improvement to the stormwater infrastructure system would, over time save the Village the additional expenses for maintenance and replacement of system components.
- **Health and Social:** The implementation of the drainage study impacts the Hamlet of Woodmere with a population of approximately 17,490 residents. This project can help with providing better access for emergency vehicles during and after flooding events. Also, it may improve the community's access to multiple health and social services assets such as the DRS Yeshiva High School, Woodmere Middle School and the Hebrew Academy for Special Children.
- **Environmental:** Solutions proposed would include upgrades to Woodmere's stormwater infrastructure system, increasing the resiliency of the entire community and helping to

PROJECT NAME: The Five Towns: Drainage Study

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secure all environmental assets such as North Woodmere Park and Doxey Brook Park. Proposed improvements would also be expected to have beneficial effects on the water quality and condition of water resources in the area including Motts Creek, Doxey Brook,

Cedar Point Lake, Hook Creek and Lagoon, and Fosters Brook Lower. Aquatic and Riparian habitats supported by these water bodies would also be expected to benefit from the proposed upgrades.

Hewlett:

- **Risk Reduction and Increased Resiliency:** The study would identify deficiencies to the existing system and provide feasible alternatives to address the system deficiencies to help prevent and/or minimize flooding. Depending on the options recommended by the study, further action could include the upgrading of the stormwater discharge system and the installation of check valves. As such, the project would decrease the vulnerability of assets in Hewlett by improving stormwater management and securing locally significant stormwater infrastructure assets, including the pipes and outfalls. The resulting reduction in flooding during storm events will allow residents and businesses to recover quicker and for the community to be more resilient. Although specific areas are identified for particular attention (see table on pg. 4), the interconnectivity of the stormwater system results in a reduction of risk to all residents in Hewlett.
- **Economic:** The addition of the stormwater upgrades should positively impact Hewlett's existing infrastructure by reducing erosion and strain on the stormwater infrastructure system. Improving stormwater system efficiency will reduce property damage and government expenditures for emergency response as a result of storm events.
- **Cost:** Improvement to the stormwater infrastructure system would, over time, save Hewlett the additional expenses for maintenance and replacement of system components.
- **Health and Social:** The proposed project impacts the Hamlet of Hewlett with a population of approximately 6,800 residents. This project can help with providing better access for emergency vehicles during and after flooding events. Also, improving stormwater management within Hewlett may benefit health and social services assets such as the Hewlett Fire Department.
- **Environmental:** The proposed project entails upgrades to the Hewlett stormwater infrastructure system. The project would result in reduced flooding risk to the Hamlet of Hewlett, helping to secure many environmental assets within the area and improvements in water quality of the stormwater being discharged into Hewlett Bay including Doxy Brook. Types of environmental features that would be protected include parks and other open spaces and natural areas in Hewlett, such as Grant Park and the Hewlett House property/grounds.

Inwood

- **Risk Reduction and Increased Resiliency:** The drainage study will identify deficiencies with the existing system and provide feasible alternatives to address the system deficiencies in

PROJECT NAME: The Five Towns Drainage Study

PROJECT DESCRIPTION: Page 9 of 11

order to reduce flooding and increase resiliency. Depending on the options recommended by the study further action could include upgrading pipe capacity, cleaning and upgrading existing stormwater management system, and increasing infiltration by addition of green infrastructure. This would allow stormwater to dissipate faster, reducing vulnerability of assets in the vicinity of the project, thus enabling the community to recover quicker and be more resilient during and after storm events. As such, it will secure locally significant stormwater infrastructure assets, including the pipes, outfalls, and Woodbine Ditch. The proposals, when implemented, should provide a reduction of risks to all populations in Inwood. Although specific areas are identified for particular attention (see table on pg. 4), the interconnectivity of the stormwater system results in a reduction of risk to all residents in Inwood.

- **Economic:** The addition of stormwater upgrades will positively impact Inwood's existing infrastructure by reducing erosion and strain on the stormwater infrastructure system. Improving stormwater system efficiency will reduce property damage and government expenditures for emergency response as a result of storm events.
- **Cost:** Improvements to the stormwater infrastructure system would, over time, save the Town of Hempstead and/or Nassau County the additional expenses for maintenance and replacement of system components.
- **Health and Social:** The implementation of the drainage study impacts the Bayswater Boulevard portion of Inwood with a population of approximately 2,414 residents. This project can help with providing better access for emergency vehicles during and after flooding events. Also, stormwater improvements in this area may provide a benefit to the Inwood Fire Department, identified as a health and social services asset and located nearby on Doughty Boulevard.
- **Environmental:** Proposed upgrades to the stormwater infrastructure would reduce the risk of flooding in general for Inwood, helping to protect many environmental assets that would be protected including parks, other natural areas, and open spaces, such as Inwood Park and town parcels of conserved/protected land. The upgrades would also filter out pollutants and reduce the volume of stormwater released into the area water bodies. Thus it also would improve the water quality of area water resources such as Head of Bay and Motts Basin, helping to secure such assets and improve the overall habitat of the area. Sections of the northern shoreline of Inwood along Head of Bay have been designated by NYS Department of Environmental Conservation (NYSDEC) as a significant natural community for low salt marshes at Jamaica Bay. This significant natural asset would also benefit from the project.

Villages of Hewlett Bay Park and Woodsburgh

The Villages of Hewlett Bay Park and Woodsburgh are part of the portion of Nassau County referred to as the Five Towns. These areas are adjacent to the Village of Hewlett Neck and the hamlet of Woodmere and their watershed and drainage areas are included in the study. Although not included in the NY Rising Community Reconstruction Plan, inclusion of these two municipalities in the study is critical given the interrelatedness and multi-jurisdictional nature

PROJECT NAME:	The Five Towns: Drainage Study
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of the existing stormwater collection, conveyance and discharge system. This portion of the study, including an assessment of existing conditions, analysis and development of mitigation recommendations will be funded using \$120,809.00 in local funds from Nassau County.

Recovery Rationale:

The surge from Superstorm Sandy caused severe tidal flooding and widespread backups within the stormwater system. Documented storm surge varied from 6 feet to 11 feet in each of the Villages and Hamlets in the Five Towns, inundating low lying areas with tidal water. The mixture of stormwater drainage flooding and surge flooding makes it difficult to assess whether the flooding resulted from water back-up in the storm drains or overtopping of lower elevations. To achieve recovery from Superstorm Sandy now and prepare the Five Towns communities for future storm events, this drainage study is necessary to identify the causes of the flooding and how best to mitigate them.

Description of Construction Involved:

As a study and planning effort does not involve construction, the level of NEPA and SEQRA environmental review will be exempt under Section 58.34(a) (12).

Responsibility for Operation and Maintenance:

As this is a study and planning effort, there will be no operation or maintenance of the project after completion.

Description of Acquisition Involved:

As this is a study and planning effort, no acquisition will be involved.

Mitigation Plan:

The drainage study will analyze all alternatives that will evaluate results to identify existing system deficiencies and develop stormwater and tidal-flow management options to address those deficiencies. Projects that might be implemented as a result of the study will help to reduce risk to public and private properties and infrastructure.

The goal of the project is to facilitate improvement of the Five Towns community's natural and engineered storm water management and flood control systems to mitigate flood risk and improve water quality that will provide resiliency for future flooding events.

CDBG-DR Eligibility:

The project involves a drainage feasibility study for the Five Towns community that will inform the design and construction of significant drainage improvements to prevent future significant flooding in the community as which occurred during Superstorm Sandy.

PROJECT NAME: The Five Towns: Drainage Study

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As such, the initial planning activity, as identified in the GOSR approved pre-application, has been updated to reflect a phased infrastructure CDBG Public Facilities and Improvements activity pursuant to Section 105(a)(2) of the Housing and Community Development Act (HCDA). This Act stipulates

Community Development Block Grant – Disaster Recover (CDBG-DR) funds may be used by the grant recipient for “acquisition, construction, reconstruction, or installation (including design features and improvements).”⁵

CDBG-DR National Objective:

The national objective for this project is *urgent need*.

Pursuant to 24 CFR 570.483(d), activities under this project are “designed to meet community needs having a particular urgency,” qualifying the project under the national objective of *urgent need*. As noted in the relevant HUD guidance, to comply with this national objective, an activity must be designed to alleviate existing conditions which the local government certifies and the state determines:

- Pose a serious and immediate threat to the health or welfare of the community;
- Are of recent origin or recently became urgent;
- The state grant recipient is unable to finance the activity on its own; and
- Other sources of funding are not available to carry out the activity.

Pursuant to FR-5696-N-01, HUD waived the certification requirements for this national objective for CDBG-DR funding. Instead, each grantee receiving an award under the notice must document how all programs and/or activities funded under the *urgent need* national objective respond to a disaster-related impact. Grantees must reference in their action plan the type, scale, and location of the disaster-related impacts that each program and/or activity is addressing.⁶

⁵ Federal Register Notice, Vol. 78, No. 43, March 5, 2013, pages 14340-14341.

⁶ Federal Register, Volume 78, No. 43, March 5, 2013.

ARCHITECT/ENGINEER'S COST ESTIMATE	
Estimated Number of Parcels to be Acquired:	Not Applicable
Anticipated Approvals/Permits to be Acquired:	Not Applicable

PROJECT BUDGET

Completion of the Five Towns: Drainage Study	\$1,258,072.00
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Nassau County will procure the necessary engineering services and enter into a lump sum contract not to exceed \$1,085,575.00. Nassau County is also applying for \$51,688 of CDBG-DR funds to cover Project Delivery (\$49,688.00) and Administrative (\$2,000.00) costs. Nassau County will contribute \$120,809.00 to be sure that the watershed and drainage of the Villages of Hewlett Bay Park and Woodsburgh are included in the study. These costs are also presented in the tables on pages 2 and 7 of this Final Application.

Applicant/Recipient Disclosure/Update Report

U.S. Department of Housing
and Urban Development

OMB Approval No. 2510-0011 (exp. 8/31/2009)

Instructions (See Public Reporting Statement and Privacy Act Statement and detailed instructions on page 2.)

Applicant/Recipient Information Indicate whether this is an Initial Report or an Update Report

1. Applicant/Recipient Name, Address, and Phone (include area code): Nassau County 1550 Franklin Avenue Mineola, NY 11501 Phone: (516) 571-3131	2. Social Security Number or Employer ID Number: 11-600463
3. HUD Program Name Community Development Block Grant – Disaster Recovery Program	4. Amount of HUD Assistance Requested/Received \$1,137,263.00
5. State the name and location (street address, City and State) of the project or activity:	

Part I Threshold Determinations

- | | |
|--|---|
| 1. Are you applying for assistance for a specific project or activity? These terms do not include formula grants, such as public housing operating subsidy or CDBG block grants. (For further information see 24 CFR Sec. 4.3).
<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | 2. Have you received or do you expect to receive assistance within the jurisdiction of the Department (HUD), involving the project or activity in this application, in excess of \$200,000 during this fiscal year (Oct. 1 - Sep. 30)? For further information, see 24 CFR Sec. 4.9
<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No. |
|--|---|

If you answered "No" to either question 1 or 2, **Stop!** You do not need to complete the remainder of this form. **However,** you must sign the certification at the end of the report.

Part II Other Government Assistance Provided or Requested / Expected Sources and Use of Funds.

Such assistance includes, but is not limited to, any grant, loan, subsidy, guarantee, insurance, payment, credit, or tax benefit.

Department/State/Local Agency Name and Address	Type of Assistance	Amount Requested/Provided	Expected Uses of the Funds
(Local Agency) Nassau County 1550 Franklin Avenue, Mineola NY 11501	Grant	\$120,809.00	Public Facilities and Improvements

(Note: Use Additional pages if necessary.)

Part III Interested Parties. You must disclose:


- All developers, contractors, or consultants involved in the application for the assistance or in the planning, development, or implementation of the project or activity and
- Any other person who has a financial interest in the project or activity for which the assistance is sought that exceeds \$50,000 or 10 percent of the assistance (whichever is lower).

Alphabetical list of all persons with a reportable financial interest in the project or activity (For individuals, give the last name first)	Social Security No. or Employee ID No.	Type of Participation in Project/Activity	Financial Interest in Project/Activity (\$ and %)

(Note: Use Additional pages if necessary.)

Certification

Warning: If you knowingly make a false statement on this form, you may be subject to civil or criminal penalties under Section 1001 of Title 18 of the United States Code. In addition, any person who knowingly and materially violates any required disclosures of information, including intentional non-disclosure, is subject to civil money penalty not to exceed \$10,000 for each violation. I certify that this information is true and complete.

Signature: X 	Date: (mm/dd/yyyy) 8/14/2015
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Edward P. Mangano, Nassau County Executive

APPENDIX A:

Duplication of Benefits Certification(s)



GOVERNOR'S OFFICE OF STORM RECOVERY

Andrew M. Cuomo
Governor

James Rubin
Executive Director



NY Rising Community Reconstruction Program

DUPLICATION OF BENEFITS QUESTIONNAIRE

Subrecipient: Nassau County

Project Name: Five Towns Drainage Study

Federal regulations require a duplication of benefits (DOB) analysis for projects receiving U.S. Department of Housing and Urban Development (HUD) Community Development Block Grant-Disaster Recovery (CDBG-DR) support to ensure that subrecipients do not receive more funds for a project than are needed. Subrecipients must report all assistance they have received for a project from such sources as insurance, Small Business Administration (SBA), Federal Emergency Management Agency (FEMA), and other local, State, or Federal programs, and private or nonprofit charitable organizations. Any funds received from these sources for this project must be considered when the amount of the CDBG-DR grant is determined. While inclusion in a long-term capital plan does not constitute a DOB, if a project has been included in the subrecipient's annual budget, there may be DOB. CDBG-DR is a funding source of last resort, and should funds become available for a project in the future such that some or all of the CDBG-DR funds budgeted for the project would constitute a duplication of benefits, those CDBG-DR funds will be disallowed or, if outlaid, must be returned to the Governor's Office of Storm Recovery (GOSR). Please consult with GOSR staff if you have any questions regarding whether a potential DOB exists. Please use the chart below to describe the funds the subrecipient has received and/or committed for the project.

FUNDS RECEIVED OR BUDGETED FOR THE PROJECT

SOURCE OF FUNDS	Amount received for the project	Additional funds expected
FEMA	\$0.00	\$0.00
Other Federal Agencies (Describe)	\$0.00	\$0.00
State Agencies	\$0.00	\$0.00
Budgeted Subrecipient Funds (Annual Budget)	\$120,809.00	\$0.00
Private Insurance	\$0.00	\$0.00

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2-24-2015



GOVERNOR'S OFFICE OF STORM RECOVERY

Andrew M. Cuomo
Governor

James Rubin
Executive Director



National Flood Insurance	\$0.00	\$0.00
Nonprofit Organizations (Describe)	\$0.00	\$0.00
Other Funds (Describe)	\$0.00	\$0.00
TOTAL	\$120,809.00	\$0.00

Documents Needed:

Please provide documents that show the amounts received for the project from each source listed above. Note that all documents, including the subrecipient's budgets, must be retained produced for review on the request of GOSR or HUD.

SUBRECIPIENT CERTIFICATION

I certify that the information provided in this questionnaire is true and accurate to the best of my ability. I understand that if this information is not correct, it may affect the amount of any grant I may receive or may lead to the recapture of disbursed funds by GOSR and/or HUD.

Subrecipient: Nassau County

Signature of Chief Elected Official or
Authorized Certifying Official

Edward P. Mangano
Printed Name

May 21, 2015
Date

WARNING: The information provided on this form is subject to verification by the State of New York and the Department of Housing and Urban Development (HUD) at any time. Title 18, Section 1001 of the U.S. Code states that knowingly and willingly making a false or fraudulent statement to a department of the United States Government can result in termination of assistance and civil and criminal penalties.

APPENDIX B:

Proof of Publication of Public Notice

Requesting Public Comment on Submission of Application for Funding

21109721
3x68

PUBLIC NOTICE

New York State CDBG-DR Application Available Review

The County of Nassau, NY announces that it intends to submit an application for New York State Community Development Block Grant-Disaster Recovery (CDBG-DR) Program funds on or about August 27, 2015 for the following project: Five Towns Drainage Study

Si usted no habla Inglés, se puede consultar una copia de este aviso en el sitio web de Nassau County Department of Public Works (DPW) en: <http://www.nassaucountyny.gov/1865/Public-Works>

영어를 할 수 없는 경우 나스 카운티 공공 관계부서(DPW) 웹사이트 <http://www.nassaucountyny.gov/1865/Public-Works> 에서 본 공고의 사본을 확인할 수 있습니다.

Se non parlate inglese, è possibile consultare una copia di questo avviso sul sito Web del Dipartimento dei lavori pubblici (Department of Public Works) della Contea di Nassau all'indirizzo: <http://www.nassaucountyny.gov/1865/Public-Works>

Si ou pa pale leng Anglè, ou kapab wè yon kopi avi sa a sou sitwèb Depatman Travè Piblik (DPW) Konte Nassau nan: <http://www.nassaucountyny.gov/1865/Public-Works>

如果您無法使用英語交談，可以造訪拿騷郡工務處 (DPW) 網站檢視此通知的副本。網址為：
<http://www.nassaucountyny.gov/1865/Public-Works>

در این آگهی DPW به زبان انگلیسی صحبت نمی کند، یک نسخه از این اعلامیه را در وب سایت فعالیت های عمومی ایالت ناساو (DPW) در این آدرس مشاهده کنید: <http://www.nassaucountyny.gov/1865/Public-Works>

Activity: Nassau County is proposing a drainage study of the villages and hamlets in the southwestern portion of Nassau County commonly referred to as the Five Towns. New York State CDBG-DR funds totaling \$1,085,575 would be used for the drainage study. In addition, Nassau County would provide funding of \$120,809. The villages and hamlets included in the proposed drainage study are the Villages of Cedarhurst, Lawrence, Hewlett Harbor, Hewlett Neck, Hewlett Bay Park and Woodburgh and the Hamlets of Woodmere, Hewlett, and Inwood in the Town of Hempstead. The report produced will document and map the stormwater drainage infrastructure systems in the region, identify system limitations and provide recommendations for system improvement to mitigate stormwater and tidal flooding

Objective: The deliverables from the Five Towns drainage study will identify a collection of stormwater management system improvement projects including a configurable watershed model that compiles available GIS data, delineates drainage basins, and defines drainage parameters. Potential future design and implementation of projects will address the limitations to water flow and drainage and will reduce the flooding risk to residents, businesses, institutional facilities and emergency responders, thus strengthening the area's overall ability to recover following a major storm event.

Location: The Five Towns Drainage study includes the Villages of Cedarhurst, Lawrence, Hewlett Harbor, Hewlett Neck, Hewlett Bay Park and Woodburgh and the Hamlets of Woodmere, Hewlett, and Inwood.

Amount: Table 1 shows each CDBG-DR activity and the corresponding dollar amounts for the Five Towns Drainage Study.

Table 1. Five Towns Drainage Study Funding Sources, Corresponding Dollar Amounts and Activity

Funding Source	Amount	Activity
CDBG-DR	\$1,085,575	Planning
CDBG-DR	\$49,688	Project Delivery
CDBG-DR	\$2,000	Administration
Local Funds/Nassau County	\$120,809	Planning
TOTAL Drainage Study	\$1,258,072	

A copy of the application will be available for review at Nassau County Executive Building, 1 West Street, 4th Floor, Mineola, NY 11501, Monday through Friday between the hours of 8 a.m. to 5 p.m. The application is also available on the Nassau County Department of Public Works (DPW) website at: <http://www.nassaucountyny.gov/1865/Public-Works>

All citizens, particularly persons of low and moderate income and residents of blighted areas, as well as those affected by the project are encouraged to submit their views and proposals by August 26, 2015 to the County of Nassau at the following address:

Nassau County Executive Building
1 West Street, 4th Floor
Mineola, NY 11501

Additional information regarding the availability and use of CDBG-DR funds is available upon request.

NEWSDAY PROOF

Advertiser: NASSAU CO DEPT PUBLIC WORKS
Agency: NASSAU CO DEPT PUBLIC WORKS
Ad Number: 0021109721
Start Date: 08/19/2015
End Date: 08/19/2015
Price: \$804.00
Ordered By: Legaladv@newsday.com

Phone: 5165716892
Contact: kelly simmons
Section: Legals
Class: 11100
Size: 3 x 68 **Times:** 1
Date: 8/14/2015
Zone(s): C-Nassau

Signature of Approval: _____

Date: _____

8/17/15

NOTICIA PÚBLICA

Estado de Nueva York CDBG-DR Revisión de Solicitud Disponible

El Condado de Nassau, NY anuncia que tiene la intención de presentar una solicitud al Estado de Nueva York al programa de fondos de Subsidio de Desarrollo Comunitario - Recuperación de Desastres (CDBG-DR) en o alrededor de Agosto 27, 2015 para el siguiente proyecto: Estudio de Drenaje de Five Towns.

Actividad: El Condado de Nassau está proponiendo un estudio de drenaje en las ciudades y poblados en la porción suroeste del Condado de Nassau comúnmente referidas como Five Towns. Fondos del Estado de Nueva York CDBG - DR con totalidad de \$1,085,575 serán usados para el estudio de drenaje. Adicionalmente el Condado de Nassau proveerá fondos de \$120,809. Las Villas y los pueblos incluidos en el estudio propuesto de drenaje son las ciudades de Cedarhurst, Lawrence, Hewlett Harbor, Hewlett Neck, Hewlett Bay Park and Woodsburgh y los pueblos de Woodmere, Hewlett, Inwood en la población de Hempstead. El reporte producido se utilizará para documentar y para trazar un mapa de la infraestructura de drenaje de aguas pluviales en la región, identificar limitaciones del sistema y proveer recomendaciones de mejora del sistema para aliviar las aguas pluviales e inundaciones de aguas de mareas.

Objetivo: Los resultados del estudio de drenaje de Five Towns permitirá identificar una colección de proyectos de manejo de mejora al sistema pluvial incluyendo un modelo de línea divisora de agua configurable que compila datos de GIS disponibles, delinea cuencas de drenaje y define parámetros de drenaje. Futuro diseño potencial y ejecución de proyectos abordará las limitaciones al flujo de agua y drenaje y reducirá el riesgo de inundaciones a residentes, negocios, instalaciones institucionales y personal de emergencias, fortaleciendo así la capacidad total de la zona a recuperarse después de un evento grande de tormenta.

Localidad: El Estudio de Drenaje de Five Towns incluye la Villa de Cedarhurst, Lawrence, Hewlett Harbor, Hewlett Neck, Hewlett Bay Park y Woodsburgh y los pueblos de Woodmere, Hewlett, e Inwood.

Cantidad: La tabla 1 muestra la actividad del CDBG-DR y las cantidades correspondientes en dólares para el El Estudio de Drenaje de Five Towns.

Tabla 1. Fuente de Fondos de El Estudio de Drenaje de Five Towns, Cantidades Correspondientes en Dólares y la Actividad.

Fuente de Fondo	Cantidad	Actividad
CDBG-DR	\$1,085,575	Planificación
CDBG-DR	\$49,688	Ejecucion del proyecto
CDBG-DR	\$2,000	Administración
Fondos locales/Condado de Nassau	\$120,809	Planificación
Estudio de Drenaje TOTAL	\$1,258,072	

Una copia de la solicitud estará disponible para su revisión en el Condado de Nassau Edificio Ejecutivo, 1 West Street, 4to Piso, Mineola, NY 11501, de Lunes a Viernes entre el horario de 8 a.m. A 5 p.m. La notificación también está disponible en el Departamento de Obras Públicas del Condado de Nassau (DPW) página de internet: <http://www.nassaucountyny.gov/1865/Public-Works>.

Se anima a todos los ciudadanos, especialmente las personas de ingresos bajos y moderados y los residentes de las zonas deterioradas, así como a los afectados por el proyecto a presentar sus opiniones y propuestas para la **FECHA** (siete días antes del suministro de aplicaciones sin incluir fechas de publicación) al Condado de Nassau en la siguiente dirección:

Nassau County Executive Building
1 West Street, 4th Floor
Mineola, NY 11501

Información adicional sobre la disponibilidad y uso de los fondos de CDBG-DR está disponible bajo petición.

APPENDIX C:

Intermunicipal Agreement