NY Rising Community Reconstruction (NYRCCR) Program
Public Meeting #3

Narrowing Our Project Focus in SHANDAKEN AND HARDENBURGH

February 18, 2014
7:00 p.m.
Shandaken Town Hall
Welcome

• Meet Your Local NY Rising Community Planning Committee Members
  ➢ Shandaken Members
  ➢ Hardenburgh Members

• Meet the NY Rising/ DOS/ Tetra Tech Team
What’s This About?

• NY Rising Community Reconstruction Program
  ➢ Provide additional rebuilding and revitalization assistance to communities severely damaged by Hurricanes Sandy and Irene, and Tropical Storm Lee
  ➢ Facilitate community redevelopment planning and community resilience
  ➢ Provide up to $3 million/community for community reconstruction and resiliency projects

• The Power of Regional Collaboration
  ➢ Teaming Shandaken and Hardenburgh
## What’s Been Done So Far?

<table>
<thead>
<tr>
<th>Task</th>
<th>Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>Planning Committee Meetings</td>
<td>✓</td>
</tr>
<tr>
<td>Visioning, Needs Assessment</td>
<td>✓</td>
</tr>
<tr>
<td>Conceptual Plan</td>
<td>✓</td>
</tr>
<tr>
<td>Critical Asset Inventory</td>
<td>✓</td>
</tr>
<tr>
<td>Public Meetings</td>
<td>✓</td>
</tr>
<tr>
<td>Qualitative Outreach, Analysis</td>
<td>✓</td>
</tr>
<tr>
<td>Hydraulic Modeling</td>
<td>✓</td>
</tr>
<tr>
<td>Risk Assessment</td>
<td>✓</td>
</tr>
<tr>
<td>Cost-Benefit Analysis</td>
<td></td>
</tr>
<tr>
<td>Prospective Funding Matrix</td>
<td></td>
</tr>
</tbody>
</table>

- **Spring/Winter 2014**

- **Spring/Winter 2014**
How Is a Project Funded?

Understanding the Community Development Block Grant Disaster Recovery Assistance (CDBG-DR)
Qualifying for CDBG-DR

• Is the project eligible under traditional CDBG?
  ➢ Public facilities and improvements, and privately-owned utilities
  ➢ Relocation planning, capacity building
  ➢ Acquisition of real property
  ➢ Clearance, rehabilitation, reconstruction, and construction of buildings
  ➢ Economic development assistance

• Is there a direct link between the project and the disaster?
  ➢ Does it address damage caused or exacerbated by a storm?
  ➢ Does it address emerging issues that have been exposed and identified as a result of the storm?
  ➢ Does it create greater resiliency against future storms?
Qualifying for CDBG-DR

• Does it contribute to CDBG National Objectives?
  - Benefits low/moderate income households
  - Removes blight conditions
  - Urgent need

• Can it be completed/funds spent in two years?

• Does each project cost less than $3M?
  (specific to NY Rising Community Reconstruction Program)

• Has it already commenced?

• Does the project have unmet needs not funded through other recovery programs?
How Did We Get To This Point?

200+ Initially Suggested Projects

24 Featured, Other Projects

Preliminary Priority Projects

10 Shandaken
10 Hardenburgh

QUALITATIVE ANALYSIS
What the Community Told Us

QUANTITATIVE ANALYSIS
What the Science Told Us
Qualitative Input, Analysis

What the Community Told Us
What the Community Told Us

- Repair, Improve Infrastructure
- Improve Stream Management
- Continue Recovery Efforts
- Improve Access to Critical Facilities (shelter, food, health care, emergency services, utilities, government facilities)
- Enhance Economic Development
- Protect, Enhance Natural and Cultural Resources
- Improve Local/Regional Connectivity
- Improve Safety
Public Meeting #2 Voting Results

- **Hardenburgh**
  - Infrastructure, 51.8%
  - Cultural and Natural Resources, 9.8%
- **Shandaken**
  - Infrastructure, 47.0%
  - Housing, 7.4%
  - Economic Development, 20.3%
  - Health, Human Services, 10.8%
  - Vulnerable Populations, 2.9%
  - Community Toolbox, 10.0%
  - Economic Development, 17.0%
  - Health, Human Services, 5.4%
  - Housing, 2.7%
  - Community Toolbox, 4.5%
  - Vulnerable Populations, 8.9%
Quantitative Input, Analysis

What the Science Told Us
Applying the Science: Hydraulic Analysis

- Used US Army Corps of Engineer’s Hydrologic Engineering Center River Analysis System (HEC-RAS)
- Created effective models from existing

**SHANDAKEN MODELS**
- Esopus Creek
- Fox Hollow Creek
- Peck Hollow Creek
- Beaver Kill
- Woodland Creek
- Stony Clove Creek

**HARDENBURG MODELS**
- Dry Brook Creek
- Rider Hollow
- Mill Brook Creek
Example Hydraulic Analysis
Existing Water Surface Elevations
Inundation Map
Preliminary Priority Projects

SHANDAKEN

- Muller Road Bridge Upgrade
- Lower Birch Creek Bridge Upgrade and Road Alignment
- Peck Hollow Road Bridge Replacement
- Little Peck Hollow Road Bridge Replacement
- Pantherkill Road Bridge Replacement
- *Phoenicia Stream Restoration & Recreation Trail*
- Municipal Emergency Operations, Evacuation and Health Center
- Improved Data Collection, Storage
- Fire District Improvements
- Back-up Power Generator – Fixed Installation

*Potential move to “Featured Project”*
Shandaken Preliminary Priority Projects

Town of Shandaken Ulster County New York
Project Location Map

Legend
- Planning Area
- Priority Project
- US Highway
- State Highway
- State Road
- Railroad
- Linear Hydrography
- Water
- County

This map is for reference only. Project locations are approximate.

Data Sources:
- ESR - Topp
- NYS - Railroad, Water Bodies, Boundaries
- Talis Tech - Project Locations
Muller Road Bridge Upgrade

Description
- Widen distance between abutments and raise deck elevation

Benefits
- Allow conveyance of 1% annual chance of flood flow
- Increase vehicular safety
- Increase local road access

CDBG-DR Eligibility
- Meets an urgent community need
- Public facility improvement

Est. Total Cost: $350,000
Lower Birch Creek Bridge Upgrade and Road Alignment

Description
• Realign Lower Birch Creek Rd.
• Reconstruct/enhance bridge
• Widen distance between abutments and raise bridge deck

Benefits
• Address deteriorating bridge
• Alleviate existing roadway flooding
• Improve stream flow
• Increase road safety
• Increase local road access

CDBG-DR Eligibility
• Meets an urgent community need
• Public facility improvement

Est. Total Cost: $377,000
Peck Hollow Road Bridge Replacement

Description
- Replace bridge

Benefits
- Flood risk mitigation
- Improve flow capacity
- Convey flood waters
- Increase key assets resiliency
- Strong community support
- Increase road safety, access

CDBG-DR Eligibility
- Meets urgent unmet community need
- Public facility improvement

Est. Total Cost: $396,000
Little Peck Hollow Road Bridge Replacement

Description

- Replace bridge

Benefits

- Flood risk mitigation
- Improve flow capacity
- Convey flood waters
- Strong community support
- Increase road safety, access
- Increase local road access

CDBG-DR Eligibility

- Meets urgent unmet community need
- Public facility improvement

Est. Total Cost: $382,000
Pantherkill Road Bridge Replacement

Description
• Reconstruct, enhance bridge and abutment

Benefits
• Improve flow capacity
• Convey flood waters
• Increase vehicular safety
• Increase local road access

CDBG-DR Eligibility
• Meets an urgent community need
• Public facility improvement

Est. Total Cost: $350,000
Phoenicia Stream Restoration & Recreation Trail
Phase II: Realignment/Replacement of Bridge St. Bridge

Description
• Create recreational trail network
• Replace Bridge St. Bridge with longer, higher elevated structure

Benefits
• Flood risk mitigation in biz district
• Protects, enhances economic dev.
• Connectivity with/protection of historic, cultural elements
• Increases access, safety

Est. Total Cost: $2,800,000

CDBG-DR Eligibility
• Meets urgent community need
• Public facility improvement
Municipal Emergency Operations, Evacuation and Health Center

Description

- Convert Town-owned library to multi-purpose Center
- Relocate EMS Ambulance Garage from floodplain
- Include modern weather monitoring systems, communications
- Solar energy/generator for uninterrupted power capability

Benefits

- Community wellness/conferencing center during non-disasters
- Increase capacity for sheltering
- Increase functionality of essential services
- Increase capability and response times
- Provide extra secure storage facilities for recovery materials

CDBG-DR Eligibility

- Public facility improvement, meets an urgent community need

Est. Total Cost: $1,300,000
Improved Data Collection, Storage

Description
- Install elevation monuments/markers in public locations to lower costs associated with obtaining elevation certificates

Benefits
- Provide more detailed elevation in relation to flood elevations
- Provide earlier notification/warning of flooding
- Increase safety during hazard events
- Drive economic growth
- Address short/medium/long-term risks
- Promote obtaining elevation certificates
- Easier, efficient tracking of disaster-damaged properties
- Enable immediate permit issuance to assist in a quicker recovery

CDBG-DR Eligibility
- Meets an urgent community need
- Public facility improvement

Est. Total Cost: $100,000
Fire District Improvements

Description

• Provide funding for up to three volunteer fire districts’ upgrades to better serve first responders and support command posts during and immediately after disasters.
• $ 90,000 for 3 generators
• $258,000 for Big Indian Fire Company

Benefits

• Increase safety and efficiency
• Fire and Emergency Medical Services serve as localized response centers due to the large geographic area of the Town.

CDBG-DR Eligibility

• Meets urgent community need
• Public facility improvement

Est. Total Cost: $348,000
Back-up Power Generator –
Fixed Installation for Shandaken Town Hall

Benefits

- Ensures essential services
- Supports municipal functionality during disasters
- High community support to advance
- Would provide uninterrupted service to Incident Command Center and Dept. of Public Works garage

CDBG-DR Eligibility

- Meets an urgent community need
- Public utility improvement

Est. Cost: $50,000
Preliminary Priority Projects

HARDENBURGH

- Hinkley Road Bridge Replacement
- Ploutz Road/Millbrook Road Bridge Construction
- Millbrook Road Bridge Replacement
- Millbrook Road Bridge Abutment Stabilization
- Rider Hollow Road Culvert Replacement
- Rider Hollow Road Culvert-to-Bridge Replacement
- Beaverkill Road Embankment Stabilization
- Back-up Power Generators/Fixed Installation
- Grants Mill Covered Bridge Relocation
- Old Baker Road/Rider Hollow Road Culvert-to-Bridge Replacement
Hinkley Road Bridge Replacement

Location: on Hinkley Rd. near intersection of Hinkley Rd. and Millbrook Rd.

Description
• Proposed widening from 39-ft. to 45-ft., single-span replacement bridge
• Conveys the 1% annual chance flood flow without roadway over-topping

Benefits
• Flood risk mitigation
• Improve stream flow
• Increase road safety
• Increase local road access

CDBG-DR Eligibility
• Meets an urgent community need
• Public facility improvement

Est. Total Cost: $325,000
Grants Mill Covered Bridge Relocation

Location: on Millbrook Rd., crosses Millbrook Creek

Description
- Relocate Millbrook Covered bridge from present location to a "dry dock" location approx. 300 ft. to the east and place on concrete abutments.
- On NYS and National Historical Site list

Benefits
- Mitigate water surface elevation
- Reduce bridge tail water conditions
- Protect historic structure
- Increase access, safety

CDBG-DR Eligibility
- Meets an urgent community need
- Public facility improvement

Est. Total Cost: $350,000
Ploutz Rd./Millbrook Rd.
Bridge Construction

Location: Intersection of Ploutz Road and Millbrook Road

Description
- New structure with 20' span to cross unnamed tributary of Mill Brook Creek; replaces two undersized culverts that restrict road access during storm events

Benefits
- Flood risk mitigation
- Increase local road access

CDBG-DR Eligibility
- Meets an urgent community need
- Public facility improvement

Est. Total Cost: $250,000
Millbrook Road Bridge Replacement
Location: on Millbrook Rd. near intersection of Hinkley Rd. and Millbrook Rd.

Description
• New, 20 ft.-span bridge

Benefits
• Flood risk mitigation
• Improve stream function
• Improve local road access and safety

CDBG-DR Eligibility
• Meets urgent community need
• Public facility improvement

Est. Total Cost: $400,000
Millbrook Road Bridge Abutment Stabilization

Description
- West abutment stabilization

Benefits
- Address erosion under the west abutment
- Safety improvement

CDBG-DR Eligibility
- Meets urgent community need
- Public facility improvement

Est. Total Cost: $35,000

This image does not depict the Millbrook Rd. Bridge abutment scouring, but is shown here as a visual example of what scouring can do to destabilize a bridge abutment. (Wikimedia Free Images)
Rider Hollow Road Culvert Replacement

Location: Intersection of Rider Hollow Rd./Todd Mountain Rd.

Description

- Replace antiquated 6’x6’ heavy rock abutments and damaged concrete deck w/bridge structure constructed w/sheet piling, engineered strong stone precast abutments, and concrete re-enforced deck sized to hydraulic needs.

Benefits

- Alleviate roadway flooding
- Improve stream function
- Allow floating debris to pass
- Improve local road access and safety

CDBG-DR Eligibility

- Meets urgent community need
- Public facility improvement

Est. Total Cost: $75,000
Rider Hollow Road
Culvert-to-Bridge Replacement
Location: Intersection of Rider Hollow Rd./Todd Mountain Rd.

Description
- Proposed 40-ft. single-span replacement bridge that conveys the 1% annual chance of flow without roadway overtopping

Benefits
- Alleviate roadway flooding
- Improve stream function
- Allow debris to pass
- Improve local road access, safety

CDBG-DR Eligibility
- Meets urgent community need
- Public facility improvement

Est. Total Cost: $900,000
Beaverkill Rd. Embankment Stabilization

**Description**
- Stabilize road embankment

**Benefits**
- Increase road safety

**CDBG-DR Eligibility**
- Meets urgent community need
- Public facility improvement

**Est. Total Cost:** $225,000
Back-up Power Generators (Fixed Installation)

Description

- Install back-up propane generators for key community facilities
- Include back-up propane generators for Town Hall and 2 Hwy Garages

Benefits

- Supports municipal functionality, ensures essential services during disasters

CDBG-DR Eligibility

- Meets an urgent community need
- Public utility improvement

Est. Cost: $75,000
Old Baker Rd., Rider Hollow Rd.
Culvert, Bridge Replacement
Location: Intersection of Old Baker and Rider Hollow Roads

Description
• Replace antiquated 6’x6’ heavy rock abutments and damaged concrete deck w/bridge structure constructed w/sheet piling, engineered strong stone precast abutments, and concrete re-enforced deck sized to hydraulic needs.

Benefits
• Alleviate roadway flooding
• Improve stream function
• Allow floating debris to pass
• Improve access and safety

CDBG-DR Eligibility
• Meets urgent community need
• Public facility improvement

Est. Total Cost: $75,000
Next Steps

February
» Complete Projects Cost-Benefit Analysis (CBA)

March
» Final Project Selection and Profile Submission
» Pre-application Submission
» Begin preparations for implementation strategies
» Submit Final Plan

April - May
» NYRCR Posts Final Plan on Community Web Site (April)
» Public Meeting - Focus on projects and implementation strategies (May)
Public Comment
Adjournment

Thank you for joining us to improve our Towns’ resiliency.

Visit the NYRCR Community Website