Removing Barriers to Green Infrastructure in Municipal Codes

Adding Green Infrastructure to Local Codes

LESSONS FROM TWO ROCKLAND COUNTY PROJECTS

Marcy Denker, Landscape Design and Consulting for Sustainability 2014 Southeast NY Stormwater Conference October 15, 2014

Two Code Reviews in Rockland County

Village of Nyack and Town of Orangetown

- Short time frame
- Limited funds
- Mixture of professional expertise (No planning firm)



Two Code Reviews in Rockland County

Hudson River Watershed Alliance

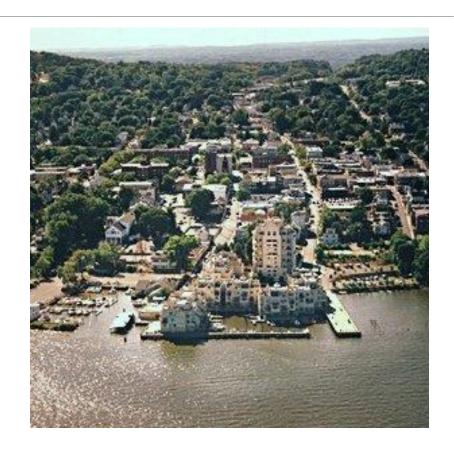
- 2014 project includes case studies and regional survey
- Develop guidance for communities that need support to get started on Code reviews







Nyack Green Infrastructure Committee forms 2011

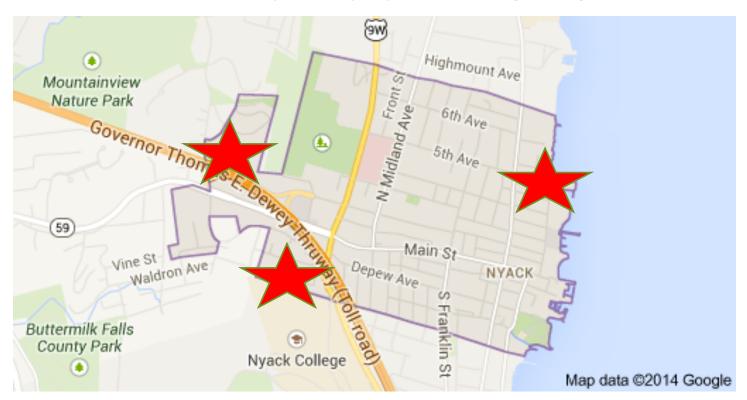


Concerns about flooding and water quality





Concerns about new development projects coming along soon.



Nyack Green Infrastructure Committee

Engaged leadership and capable members

Mayor: Engaged and focused on potential impacts of upcoming redevelopment projects

ZBA Chair: Former Planning Board member, an attorney familiar with the Nyack Code

Riverkeeper Volunteer: Kept the pressure on about all the impacts and got in touch with DEC Estuary Program, local media..

An active senior citizen/graphic artist Created the Downspout Disconnection flyer

Me: Landscape architecture and environmental planning background plus green infrastructure planning experience

Year One for the Committee

Getting organized
Thinking about retrofits and outreach
Deciding on priorities
Choosing the Code Review/Roundtable



Disconnect Your Downspouts! by A. Staff September 21, 2012 by the Nyack Green Infrastructure Committee 66 The public is invited to a Sat 9/22 9a-12n meeting in Nyack's Village Hall for a community discussion about ways to improve the health of our village, our water system, the Hudson River and to help reduce recurrent flooding problems. Outreach campaign about Nyack'€~s recent spate of floods has put stormwater on our minds. Flooding damages buildings, scours pavement, erodes stream banks and causes sewage overflows. The costs are high and the solutions are complex. But like downspouts communities across the region and the country, Nyack is turning to green infrastructure High 66° Low 61° Green infrastructure (GI) is both a planning approach that uses techniques like rain garden green roofs, permeable paving, tree plantings, rain barrels and cisterns to mimic the way

Nyack News & Views

CODE REVIEW ROUNDTABLE Grant for Consulting Services

Barbara Kendall and Hudson River Watershed Alliance grant







Town of Wapping

Recommended Model Development for Conservation of Natural Resou in the Hudson River Estuary Water Consensus of the Local Site Planning Ro



A partnership among:
Town of Wappinger, Dutchess County, New York
Dutchess County Environmental Management Co
Wappinger Creek Watershed Intermunicipal Coun
NYSDEC Hudson River Estuary Program
Center for Watershed Protection, Maryland

Town of Clinton

Recommended Model Development Principles for Protection of Natural Resources in the Hudson River Estuary Watershed Consensus of the Local Site Planning Roundtable





A partnership among:
Town of Clinton, Dutchess County, New York
Dutchess County Environmental Management Council
Wappinger Creek Watershed Intermunicipal Council
NYSDEC Hudson River Estuary Program
Center for Watershed Protection, Maryland





















Tune 2006

CODE REVIEW ROUNDTABLE KICKOFF September 2012

- 1- Outreach general and targeted
- 2- Introduce Green Infrastructure and the Roundtable
- **3- Form Two Committees**

Green Village and Clean Hudson



NYACK GREEN INFRASTRUCTURE ROUNDTABLE

Public Kickoff

Saturday, September 22, 2012 9am until noon

WHAT IS GREEN INFRASTRUCTURE?

Green infrastructure is a planning approach using techniques that mimic the way nature manages water. Rain gardens, green roofs, permeable paving, tree plantings, bioretention systems, rain barrels and cisterns filter runoff and allow it to infiltrate into the soil rather than flowing into roadways and sending pollution to our waterways.

Public and and private properties can benefit from green infrastructure, and the Village of Nyack is creating a process to promote and incentivize these practices.

WHAT IS THE ROUNDTABLE?

Volunteer committees will meet this fall to review the local codes and develop a set of proposed changes that reflect a green infrastructure approach for new and existing development.

PROGRAM

Welcome - Jen Laird White, Mayor of Nyack

Introduction to Green Infrastructure-

Marcy Denker, Coordinator/Chairperson, Nyack Green Infrastructure Committee

Nyack's Results on the

Low Impact Development Code Review Worksheet Catherine Friesen, Chairperson, Nyack Zoning Board of Appeals

The Roundtable Process

Barbara Kendall, CPESC, CMS4S, Hudson River Watershed Alliance

A&O

Committee Set up and Coordination Roundtable Team

Nyack Village Hall 9 North Broadway, Nyack, NY

Contact: Marcy Denker, Coordinator mbdenker@gmail.com

WHO SHOULD PARTICIPATE? Village Trustees, Land Use Board Members, Code Enforcement Officers, Department of Public Works, Engineers, Landscape Architects, Architects, Planners, Business Leaders, Developers, Environmental Groups, and Interested Citizens from all the River Villages



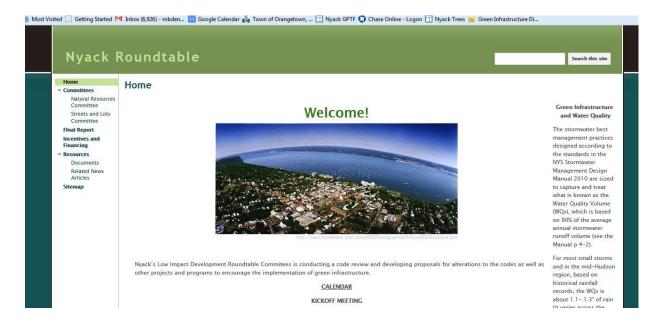
TWO ROUNDTABLE COMMITTEES

(Based on the Code Review Worksheet and the model reports)

- 1. Natural Resources: Trees, steep slopes, wetlands, etc.
- 2. Streets and Lots: The impervious built landscape

CODE REVIEW ROUNDTABLE Original Plan 4 months 10/12-1/13 and then...

- Committee meetings
- Hurricane Sandy slows us down
- Barbara Kendall takes a new job
- I become the Project Coordinator



The Committee's Google Site

CODE REVIEW ROUNDTABLE and REPORT October 2012 - June 2013

Who participated throughout the project?

Marcy Denker, Roundtable Coordinator and Nyack Green Infrastructure Committee Chair

Jen Laird White, Mayor, Village of Nyack

Doug Foster, Trustee, Village of Nyack

Robert Galvin. Village of Nyack Planner

James Politi, Village Administrator

Donald Yacopino, Village of Nyack Building Inspector

Paul Curley, Alternate Member, Nyack Architectural Review Board

Alan Englander, Member, Nyack Planning Board

Catherine Friesen, Chair, Nyack Zoning Board of Appeals

Pearl Gray, Resident

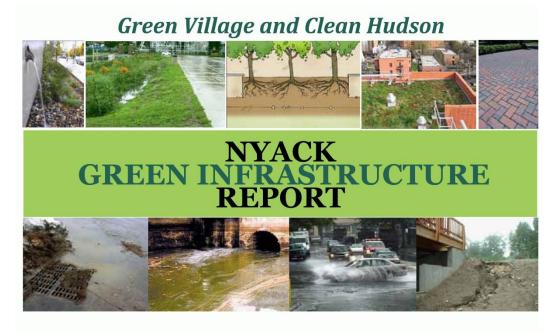
Stephanie Hughes, Resident

Peter Klose, Chair, Nyack Planning Board

Mary Ann Armano, Member, Nyack Zoning Board of Appeals

Ann Donzella Owens, Science teacher Ps 277, Adjunct Professor, Lehman College

Katherine Schwarz, Environmental Educator



CONSENSUS OF THE NYACK GREEN INFRASTRUCTURE ROUNDTABLE VILLAGE OF NYACK, NY

The State of Nyack's Code

Code was updated in 2010

Natural Resource Protection Chapter:

- Steeps slopes protection
- Tree protection
- Net zero runoff provision

The Definition of Land Development Activity stronger than state requirement (10,000 sf threshold for SWPPP)

Key Recommendations

- Consolidate for clarity—Merge Stormwater Management and Erosion and Sediment Control Chapters
- Add **explicit descriptions** of green infrastructure practices
- Map watersheds and stormwater infrastructure
- Refine **tree protection** ordinance based on a tree inventory and community forestry plan
- Add parking lot design standards: Promote alternative layouts, permeability, bioretention and tree planting
- Allow land banked parking
- Require runoff reduction on impervious sites below 10,000 sf: Investigate strategies that would be appropriate
- Offer density incentive for green infrastructure

New Chapter of Nyack Code

§360-4.14 Sustainability

Developed during the process, alongside the Roundtable.

Density incentives (based on density or Floor Area Ratio depending on the district)

- Brownfield remediation.
- Thirty-percent permeable surfaces.
- Exceeding the New York State Energy Code by 10%,
- Provision of rain gardens and/or water harvesting techniques.
- Provision of solar collection panels and/or geothermal energy.
- Daylighting of Nyack Brook where appropriate and applicable based on review by the Planning Board.
- Provision of green extensive eco-roof

Where we are now:

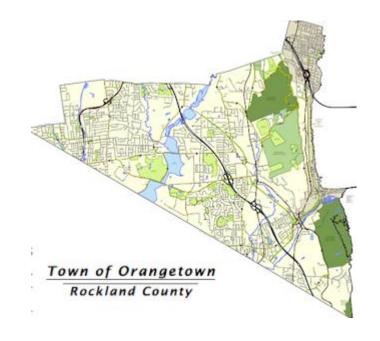
Escrow for engineering and landscape architecture from the beginning stages Hiring a part time engineer?
Escrow for maintenance
Assessing, refining and integrating all sustainability planning

Other benefits of developing the report:

Greenway Grant
Urban Forestry Grant
Climate Smart Communities

GENESIS OF THE PROJECT

Town Supervisor, key staff and others recognize the need to audit the code, but staff time is limited.



FAST TRACK PROCESS AND NO ROUNDTABLE

- I. First draft developed based on input (on worksheet and rough drafts) from key staff
- II. Final draft to include input from environmental groups, land use boards and tree commission

MODIFED WORKSHEET Orangetown Worksheet was based on the Albany County Stormwater Consortium's Worksheet, the EPA Water Quality Scorecard, and Nyack Green Infrastructure Report.

- Not a scorecard.
- Spaces for comments (to help make up for lack of roundtable discussion)
- Priority rating for issues

There were no comments provided and limited opportunities for discussion.

KEY ISSUES

- 1. Significant gaps in Natural Resources Protection and other relevant areas
- 2. NYS requirements for green infrastructure is the standard (No stronger local laws)
- 3. Anticipated resistance to constraining or burdening developers and private property owners
- 4. Need some professional planning advice to lay out alternative approaches and help set priorities
- 5. Need engaged advocates to help carry out and promote next steps

1 - Significant gaps in Natural Resources Protection

Recommend a new chapter that includes wetlands and waterbodies, trees and vegetation, buffers, and steep slopes.

BUT

Consider adding separate provisions in other parts of the existing code.

2 - NYS requirements for green infrastructure is the standard (No stronger local laws)

Find simple revisions that would easily gain acceptance:

Examples:

- Revise the code to require that cul de sacs if ----be landscaped, and _____
- Revise the parking lot design specifications to include a reference to "Design specifications as per the NYS Stormwater Management Design Manual
- Revise the code to recommend the use of permeable paving where feasible and appropriate

3 - Anticipated resistance to constraining or burdening developers, private property owners, and departments

Examples:

More requirements = more engineering

- Establish escrow accounts
- Recognize the costs of stormwater on municipal infrastructure when making the rules.
- Make clear rules. Clarity in the application and review process matters to developers

Consider impacts on small property owners

Work and keep working on outreach and education

TOWN of ORANGETOWN Green Infrastructure Planning

- 4 Need some professional planning advice to lay out alternative approaches and help set priorities
- Orangetown should develop strategy for with the help of a professional planner.

5 - Need engaged advocates to help carry out and promote next steps

- Orangetown Environmental Committee would like to revisit the idea of becoming a Conservation Action Council
- Tree Commission and Architectural and Community Appearance Board roles and past experience in tree protection will be acknowledged and the report will aim to provide concrete actions that would support and help to achieve
- Sparkill Creek watershed Coalition have been asked to comment on the proposed ways to protect the creek

Lessons (in the rough)

- Recognize that some revisions will be easy if knowledgeable staff are asked to identify them with a little help.
- Acknowledge that stormwater matters and that stormwater management crosses over so many parts of the code and community goals.
- Aim to be have a real roundtable as much as possible.

Contact

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