

May 15, 2012

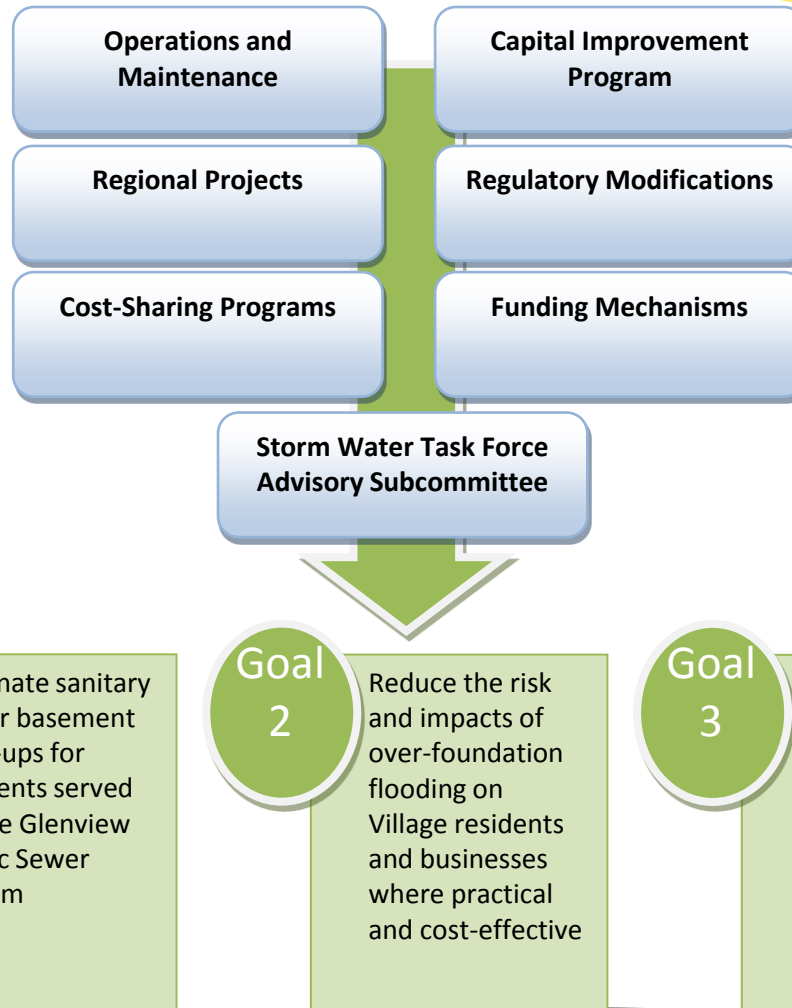
Flood Risk Reduction Program Implementation Update



TONIGHT'S OBJECTIVES

1. Provide an update on the local implementation of the *Flood Risk Reduction Program* (stormwater master plan)
2. Provide context for benefits achieved along with recommended work still outstanding
3. Outline MWRD's progress on regional project development underway

FLOOD RISK REDUCTION PROGRAM



CAPITAL IMPROVEMENT PROGRAM

“QUICK-WIN” BENEFITS

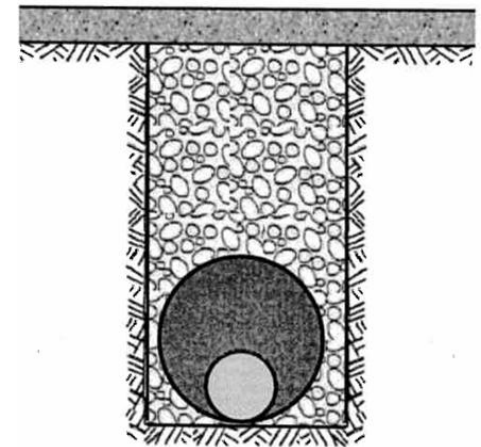
- Increased inlet and storm sewer capacity
- Reduced street flooding
- Allow emergency vehicle access during rain events
- Total cost for “quick-win” stormwater improvements = \$1,092,600
- 14 Village-wide locations improved
- Update of all projects included on Village website
 - Linked from “Village Maps” page
 - http://maps.google.com/maps?q=http://www.glenview.il.us/about/Reports/Storm_project.kml

CAPITAL IMPROVEMENT PROGRAM COMPLETED PROJECTS – 2010-2012

Benefiting Parcels = 273

Inline Detention – 36,150 cubic feet (270,000 gallons)

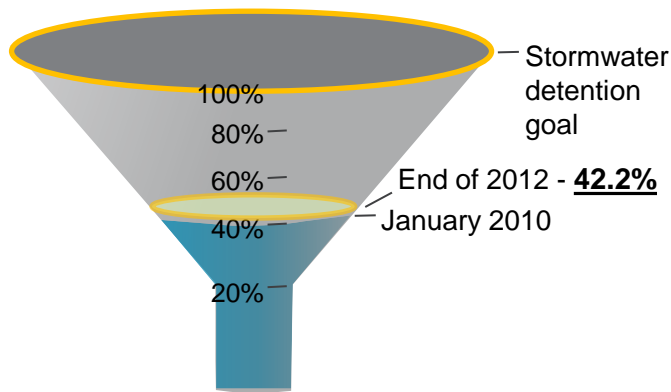
- Pfingsten Road - 2010
- Indian Road and Beverly Lane - 2011
- Indian Road (south of Glenview Road) - 2011
- Hunter Road (north of Glenview Road) - 2011
- Forest Drive (south of Glenview Road) - 2012
- Bel Air and Clavey - 2012



Cost for Inline Detention Improvements = \$650,000

CAPITAL IMPROVEMENT PROGRAM

DETENTION PERFORMANCE METRIC



Program goal: Village-wide detention

2010 baseline: 40% (area) with detention

Annual goal: add 1 – 3% per year

2012 status: 42.2%

Means to achieve:

- Inline detention with roadway reconstruction projects
- Area detention projects (opportunity)
- Regional detention projects

CAPITAL IMPROVEMENT PROGRAM

COMPLETED PROJECTS - 2011

Benefiting Parcels = 163

Storm Sewer Conveyance Improvements – 2,180 feet

- Mary Kay Lane and Pebbleford Lane
- Fontana Drive and Bel Air Drive
- Shermer Road and Robincrest Road
- West Lake Ave and Lehigh Ave
- Pine Street



Cost for Storm Sewer Improvements = \$413,000

CAPITAL IMPROVEMENT PROGRAM

COMPLETED PROJECTS - 2011

Benefiting Parcels = 46

Storm Inlet Capacity Improvements – 11 inlets

- Norwich Court
- Barry Lane and La Fontaine Drive
- Knight Street

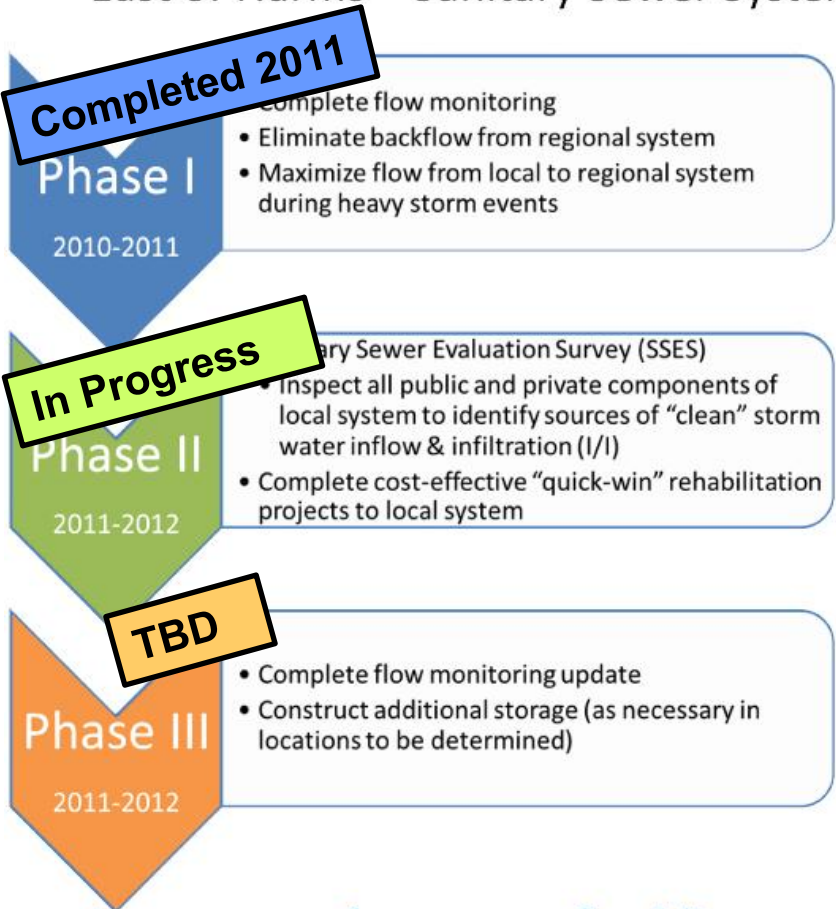
Cost for Inlet Improvements = \$29,600

CAPITAL IMPROVEMENT PROGRAM

ONGOING PROJECTS

Benefiting Parcels = 1,150

East of Harms – Sanitary Sewer System Improvement Project



- Resident's Private Options:**
- Convert old gravity services to “over-head” with Village’s cost-sharing program (2010-2011)
 - Actively (annually) maintain existing flood-control systems
 - Actively maintain existing sewer services to limit leaking into public system

Improve performance of public system affecting > 1,100 homes

CAPITAL IMPROVEMENT PROGRAM

ONGOING PROJECTS

East of Harms Sanitary Sewer System Improvement Project

Phase 2 – Status Update

- Smoke Testing Completed
 - Repairs to be completed in 2012
 - Includes 3,000 feet of lining
 - 52 private downspouts to be reviewed
- Manhole Inspections Completed
 - Manhole epoxy lining to be scheduled (MPI)
- House Inspections – 95% Complete
 - 67 storm sump to sanitary sewer to be reviewed



CAPITAL IMPROVEMENT PROGRAM

ONGOING PROJECTS

2012 Construction Projects

- Navy Bypass Storm Sewer
 - Phase 1 – completed April 2012
 - Phase 2 – under design

- Bel Air & Clavey Inline Detention
 - Additional upstream work with Dist. 34

- Forest Drive Inline Detention

- Waukegan Road (River Drive) Rain Garden
 - \$7,114 IGIG grant for \$11,430 project



CAPITAL IMPROVEMENT PROGRAM

ONGOING PROJECTS

2012 Design Projects

- Glenayre Park SWAMP
- Park District Coordination
 - Flick Park drainage
 - Glenview Park Golf Club drainage
- Harrison/Ronald/Glendale (Niles Coordination)
- Bellwood “Quick-Win”
- Central/Glenwood (Northfield Township Coordination)
- Juniper SWAMP
- Maple SWAMP
- Long Valley SWAMP
- Northfield Woods

OPERATIONS & MAINTENANCE

Public Works 2011 Summary:

- 420,600 feet of sanitary sewer cleaned - *92% of system*
- 1,860 sanitary manholes cleaned - *52%*
- Over 40,000 feet of storm sewer cleaned - *>4%*
- Over 2,000 storm sewer grate and structures cleaned - *>13%*
- Debris removal:
 - 320 tons from streets (by sweeping)
 - 116 cubic yards from storm sewers

Capital Maintenance 2011 Summary:

- \$1,200,000 of storm and sanitary capital maintenance
- Over 18,000 feet (3.5 miles) of sanitary sewer lining
- Over 2,500 feet (0.5 miles) of storm sewer lining

REGULATORY MODIFICATIONS

Community Rating System (CRS) Certification

- Village received Class 6 rating from FEMA in October 2011
- Property owners in 100-year floodplain will receive 20% discount on their flood insurance
 - Average savings for each policy = \$419/year
- Property owners in 500-year floodplain will receive 10% discount on their homeowners insurance
 - Average savings for each policy = \$108/year
- Total savings = \$34,000/year

REGULATORY MODIFICATIONS

Infill Ordinance Amendment

- Original Ordinance adopted April 2008
 - New single-family homes and substantial additions to connect to Village storm sewer
 - Neighbor notification of proposed impervious improvements
 - Grading as-builts required for new single-family homes

- Amendment adopted June 2011
 - Expanded grading “as-built” and neighbor notification requirements
 - Additional tools available to assist staff to proactively handle drainage problems

COST-SHARING PROGRAMS

| Cost Sharing Program | Number of Approved Permits | Resident Reimbursement | Cost Sharing |
|---|----------------------------|------------------------|------------------------|
| Rain Garden (2007-2011) | 34 | \$27,147 | 50/50 up to \$1,000 |
| Overhead Sewer Conversion (2010-2012) | 14 | \$74,423 | 50/50 up to \$7,500 |
| Local Drainage Inspections (2010-2012) | 40 | \$16,000 | 50/50 \$400 |
| TOTAL | 88 | \$117,570 | |

Rain Barrels Provided to Residents (2010-2012) = **152**

FUNDING MECHANISMS

- Village Board committed \$7.05 million for “Quick-Win” Projects
- Illinois Green Infrastructure Grant (IGIG)
 - Waukegan Road Rain Garden (\$7,114)
- DCEO Grants Approved
 - Bel Air and Clavey inline detention (\$100,000)
 - Flick Park drainage (\$50,000)
 - East of Harms sanitary system (\$200,000)
- FEMA-PDM Grant – pending application for Downtown drainage
- Entered into contract with AMEC to perform Stormwater Utility Feasibility Study on October 25, 2011 – **Q3 2012 Workshop**

STORMWATER UTILITY FEE

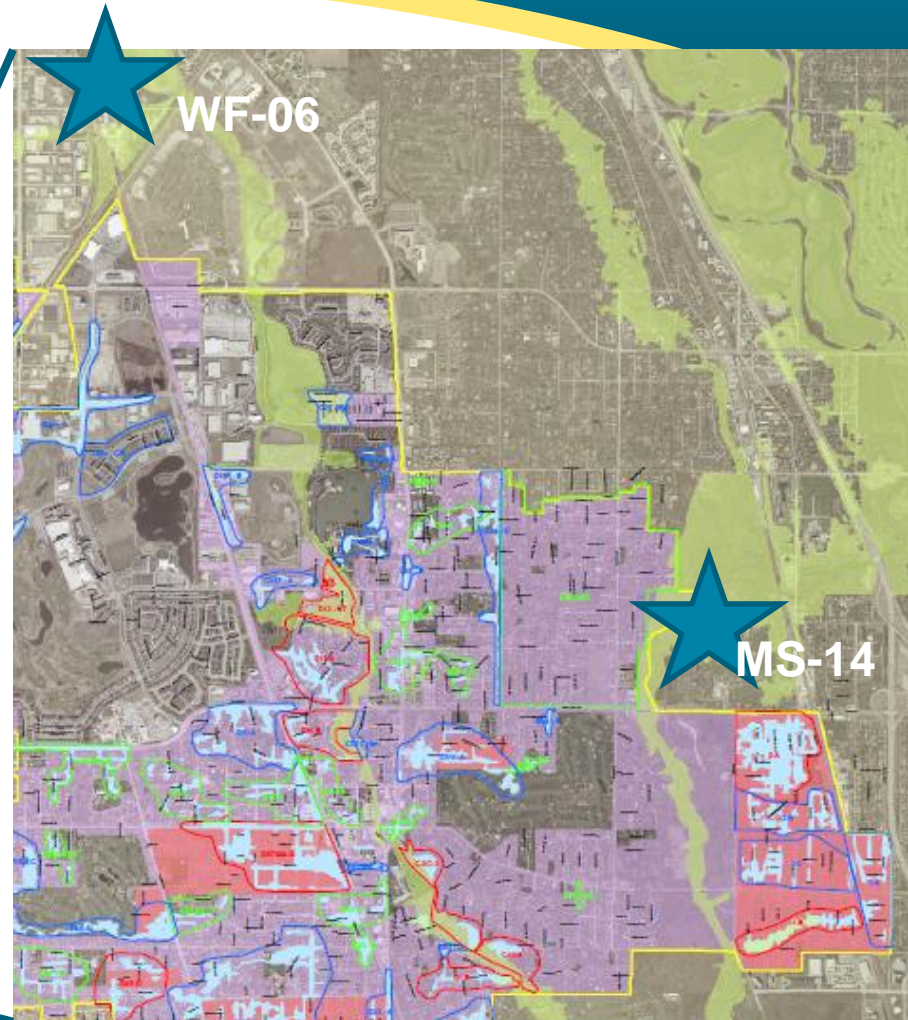
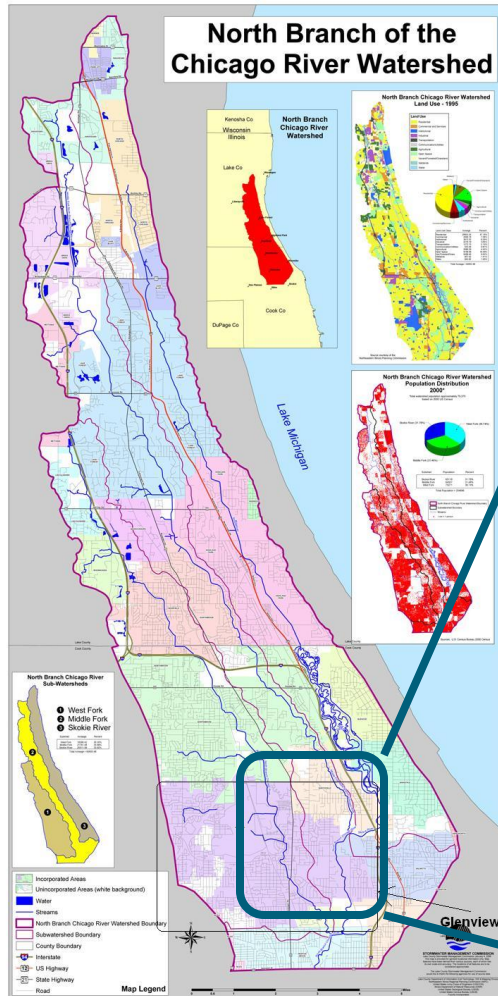
- Current capital maintenance needs per standards = \$1.57 million
 - Historical amount spent 2008-2012 = \$800,000
- Master Plan recommended capital projects (2010) = \$124.8 million
 - Projects to be value engineered
 - Primary coordination with roadway reconstruction schedule (60 years)
- Stormwater Utility Fee is one opportunity to provide a long-term sustainable stormwater funding source
- Over 1,500 implemented nationwide

REGIONAL PROJECTS

MWRD – Regional Detention on West Fork

- WF- 06 will provide an additional 1,100 acre-feet of storage
- Will lower flood elevation of West Fork of North Branch of Chicago River by as much as 2 feet
- Watershed Plan approved March 2011
- Preliminary design for WF-06 approved April 2012
- Stakeholder meetings expected to start shortly
- Cost Estimate = \$108.8 million (*\$146.5 million of benefits*)

REGIONAL PROJECTS



REGIONAL PROJECTS

Conceptual Benefits of Project WF-06



- 100-year Inundation Area With Project
- 100-year Inundation Area Without Project

STORMWATER TASK FORCE ADVISORY SUBCOMMITTEE

- Regional SWTF Subcommittee met on January 10, 2012
- Reviewed MWRD's recommended West Fork project (WF-06)
- Will support Village as stakeholders during MWRD's preliminary engineering process
- 2012 meeting schedule TBD – additional outreach forthcoming
 - First stakeholder meeting expected in mid-June

NEXT STEPS

- Staff will continue progress on 2012 construction and design projects underway
- A **Q3 2012 Board Workshop** will be scheduled to review future implementation of stormwater improvements and potential funding sources
- Contacts:
 - Joe Kenney, joek@glenview.il.us or (847) 904-4313
 - Andrew Mayes, amayes@glenview.il.us or (847) 904-4410
- Questions?