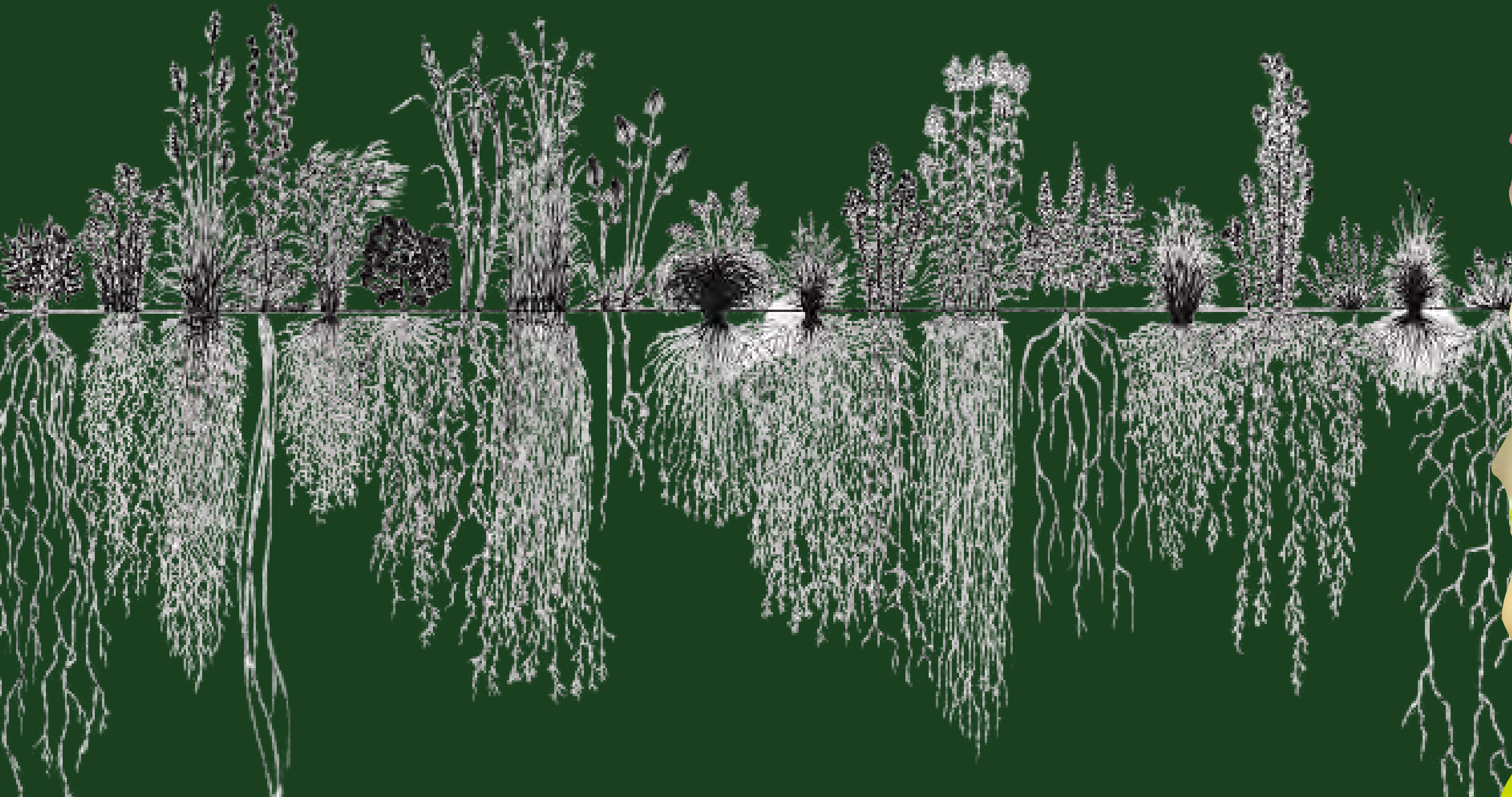


VILLAGE OF DOWNERS GROVE

Stormwater & Green Infrastructure





COMMUNITY RESILIENCE

- Flooding has been identified as a leading climate related risk in our region
 - Climate Action Plan for the Chicago Region
 - DuPage County Natural Hazard Mitigation Plan
 - Climate projections from CROCUS (ClimRR)
 - CMAP Urban Flood Susceptibility
- Flooding is the most expensive type of natural disaster
- Reducing the risk of flooding takes a combination of strategies
 - Nature-based solutions have multiple benefits



BACKGROUND

- Village of Downers Grove created a stormwater utility in 2013
 - Passed via referendum (utility creation and bond issue)
- Property owners are billed based on amount of impervious surface on their property
 - Included with water bill
 - Average residential stormwater utility bill about \$17/mo
- About \$60 million in capital projects over past 10 years
 - Significant reduction in urban flooding and improved LPDA's
- Upgraded to Class 5 in FEMA's Community Rating System
 - 25% discount for resident's flood insurance

A blue rain barrel is mounted on a stone wall next to a window. The barrel is connected to a downspout from the window. The wall is made of rough-hewn stones in various shades of brown, tan, and grey. The window has a white frame and is partially visible. The barrel has a white cap and a red spigot at the bottom.

STORMWATER INCENTIVES & REGULATIONS

- Modifications to building and zoning codes to require stormwater improvements on private property
 - On-site storage
 - Post-construction best management practices
- One-time bill credits
 - Rain barrel purchase
 - Rain garden installation
 - Permeable paver installation
 - Other residential improvements (e.g. dry well)
- On-going credits
 - water quality improvements (sediment removal)
 - on-site storage



BIOSWALE PROGRAMS

- Village partners with residents that have drainage ditches to install bioswale
- Village funded and installed - resident maintained
 - Annual budget funds about 5-10 bioswales per year
- Residents get to provide input on the types of plants that they would like in their bioswale
- 50 installed so far with another 30 residents on waiting list



NATURALIZED DETENTION

- Located on Village-owned or Park District properties
- 15 naturalized detention facilities installed to date



2ND & CUMNOR

- Land acquisition through floodplain buyout
- Partnership with Park District
- Significant reduction in LPDA in adjacent neighborhood





ST. JOSEPH CREEK





Belmont Rd. Underpass

POLLINATOR & RAIN GARDENS

- Underutilized spaces that require regular maintenance are being planted with natives
 - Habitat restoration
 - Reduced emissions
 - Aesthetic improvement
- 30 natural areas installed so far



Belmont Rd. Underpass



LOOKING FORWARD

- Continue to partner with Park District to utilize open spaces for naturalized detention
- Continue to improve on the bioswale and stormwater incentives programs
- Use streetscapes as native landscaping demonstration gardens
- Promote the Conservation@Home and Conservation@Work programs
 - Resident participation can help restore habitat connectivity in a built-out community