



RainReady Oak Park 2016-17 Pilot Program

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RainReady Oak Park Pilot Program

Site
Assessment

Scope Design
+ Education

Construction
Support +
Verification

Monitoring +
Evaluation



Program Design

Program Objectives

- Reduce runoff to sewer system
- Reduce residential drainage problems

Applicant Selection

- Scofflaw review
- Applicant prioritization

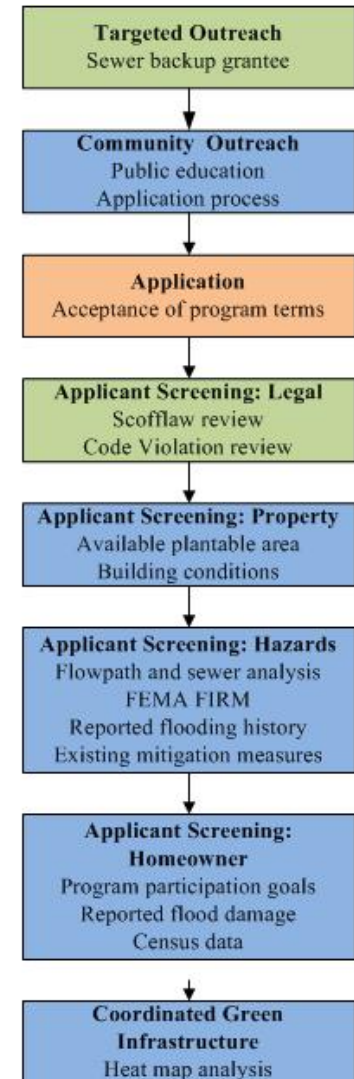
Eligible Measures

- Rain gardens + Bioswales
- Depaving + Permeable pavement
- Cisterns + Dry wells
- Other approved green infrastructure

Program Financing

- 50% match up to \$1,300

Task Lead
Municipality
CNT
Homeowner



Outreach + Education

Your Location

Map Satellite

Linden Ave, Oak Park, IL 60302, USA

Year Built: 1925
Land Square Feet: 6250
FEMA Flood risk: Minimal Risk

Do your neighborhood [streets flood](#) when it rains?

Yes No I don't know

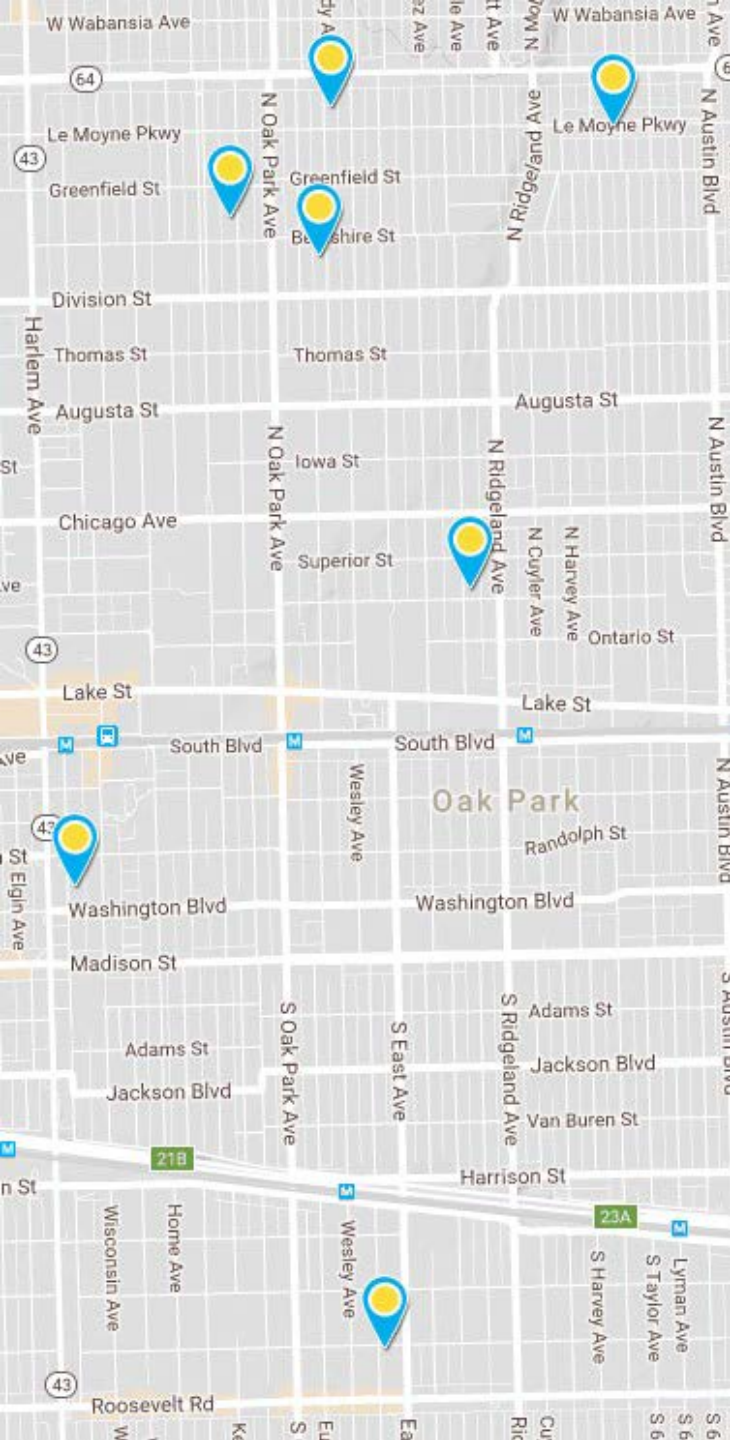
Tip: Take a look at your street when it next rains, and take photographs. Look to see if it is flooding in areas where there is a street [sewer grate](#). This might help identify the cause of the street flooding. The sewer grate could be clogged with litter or leaves. If the sewer grates are clear, but street flooding still occurs, your municipality may have installed restrictor valves in the street's sewer inlet. The purpose of these devices is to slow the flow of water entering the sewer system. This reduces the risk of sewage and stormwater runoff backing up into your basement.

Program Outreach

- Village direct email
- Village newsletter + website
- RainReady social media + website
- Community meeting

Flood Education

- My RainReady
 - Parcel-specific data
 - Guided questionnaire
 - Flood protection tips



Program Participation

- 23 applicants
- 10 participants
 - 60% - 220% Oak Park AMI
 - Representative racial/ethnic
- 7 installations
 - 6 Rain Gardens
 - 1 Depaving
- Reasons for not completing green infrastructure construction:
 - 2 plan to sell home
 - 1 expensive unexpected home repair





Investment

LEVERAGE ACHIEVED

1 : 1.8

Average Project Cost: \$3,845

Average Grant: \$1,300

Average Private Investment: \$2,345

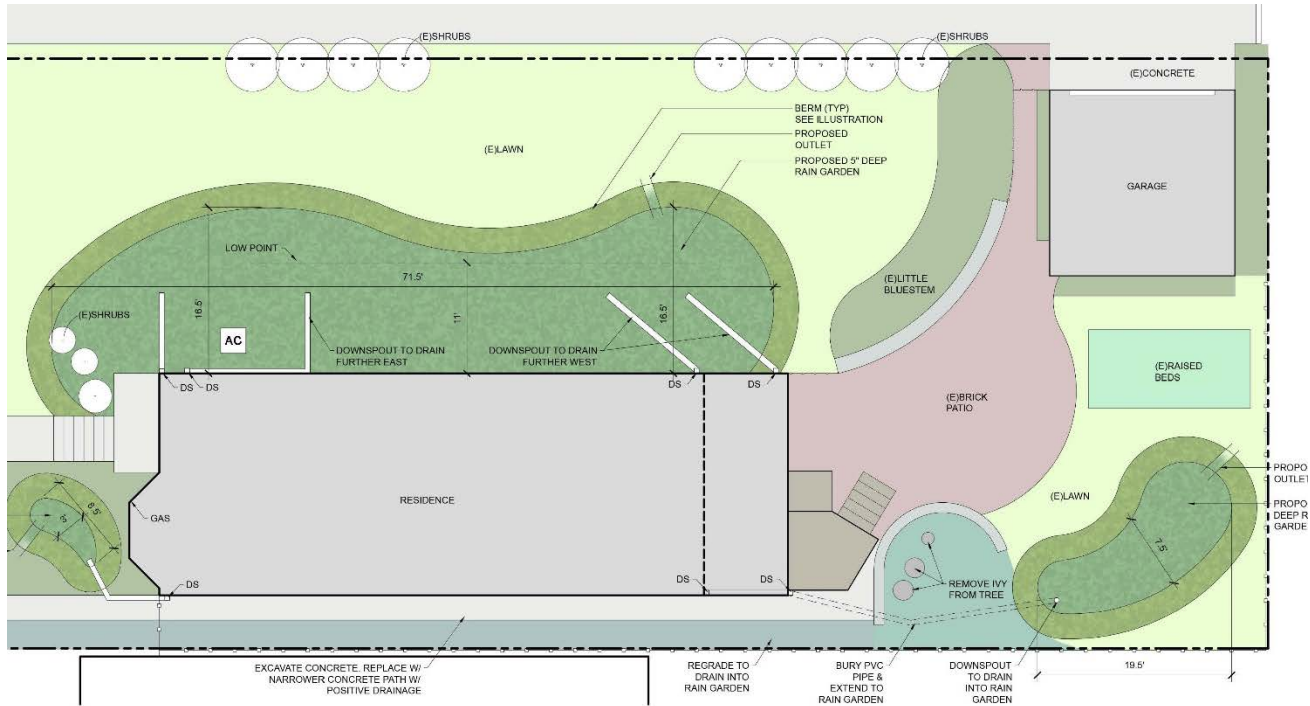
Total Private Investment: \$26,914

Site Assessment



- **Key Concerns**
 - Seepage / Mold
 - Sustainability
 - Beautification
- **Homeowner Education**
 - Benefits of green infrastructure
 - Correcting site drainage issues
 - Building + flood protection system maintenance

Scope Design



PLANT LIST for PART SUN & CLAY:

Great Blue Lobelia (*Lobelia siphilitica*)
 Shootingstar (*Dodecatheon meadia*)
 Red milkweed (*Asclepias incarnate*)
 White turtlehead (*Chelone glabra*)
 New England aster (*Symphotrichum novae-angliae*)
 Ohio goldenrod (*Solidago ohioensis*)

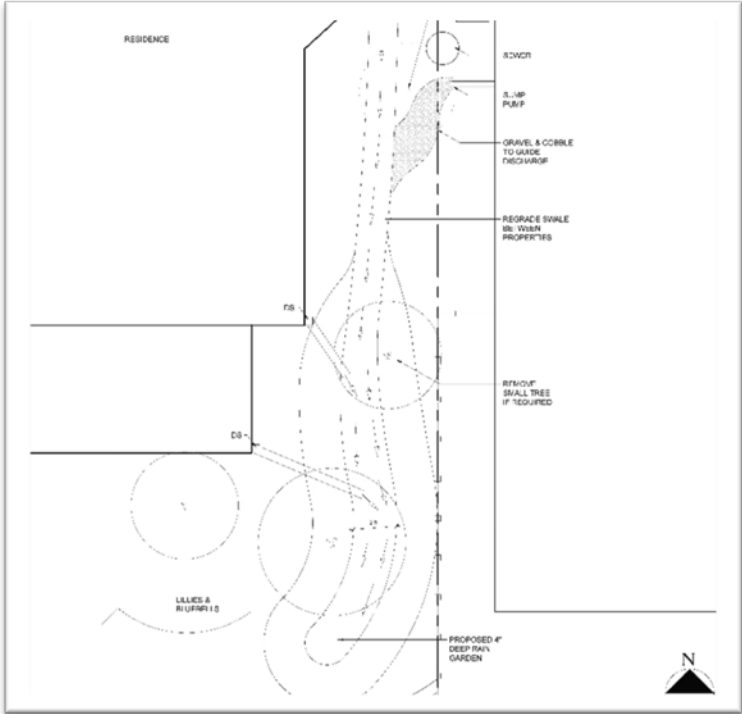
Landscape and Building Exterior Observations

- The south yard is unevenly graded.
- The downspouts are discharging into low spots that can trap and hold water against the south foundation wall.
- The soil texture is a clay loam.



Construction Verification

Drainage Permit



Rain Garden



Construction Verification

Before



After



Construction Verification

Before



After



Construction Verification

Before



After



Program Evaluation

SITE ASSESSMENT

4 out of 5
Extremely or Very Satisfied
1 of 5 Moderately Satisfied



















GREEN INFRASTRUCTURE PERFORMANCE

5 out of 6 Extremely or Very
Satisfied
1 out of 6 Slightly Satisfied

“so much rain this month
but no signs of water
inside!”

“Given the volume of rain
on 10.14.17, our yard
flooded”

Community Benefits

Benefit	Reduces Stormwater Runoff				Increases Available Water Supply	Increases Groundwater Recharge	Reduces Salt Use	Reduces Energy Use	Improves Air Quality	Reduces Atmospheric CO ₂	Reduces Urban Heat Island	Improves Community Livability					Improves Habitat	Cultivates Public Education Opportunities
	Reduces Water Treatment Needs	Improves Water Quality	Reduces Grey Infrastructure Needs	Reduces Flooding								Improves Aesthetics	Increases Recreational Opportunity	Reduces Noise Pollution	Improves Community Cohesion	Urban Agriculture		
Practice																		
Green Roofs	●	●	●	●	○	○	○	●	●	●	●	●	◐	●	◐	◐	●	●
Tree Planting	●	●	●	●	○	◐	○	●	●	●	●	●	●	●	●	◐	●	●
Bioretention & Infiltration	●	●	●	●	◐	◐	○	○	●	●	●	●	●	◐	◐	○	●	●
Permeable Pavement	●	●	●	●	○	◐	●	◐	●	●	●	○	○	●	○	○	○	●
Water Harvesting	●	●	●	●	●	◐	○	◐	◐	◐	○	○	○	○	○	○	○	●



Yes



Maybe



No

Recommendations

- Maintain existing grant levels
- Conduct contractor outreach
- Create a database of GI contractors registered in Oak Park
- Add a FAQ section on permitting requirements
- Conduct a rain garden maintenance workshop
- Continue to encourage participants to perform non-grant eligible flood mitigation improvements
- Refer applicants experiencing sewage backup to the Sewer Backup Protection Grant program
- Streamline scofflaw and grant reimbursement review periods

