# **Resilient Corridors** January 5, 2018



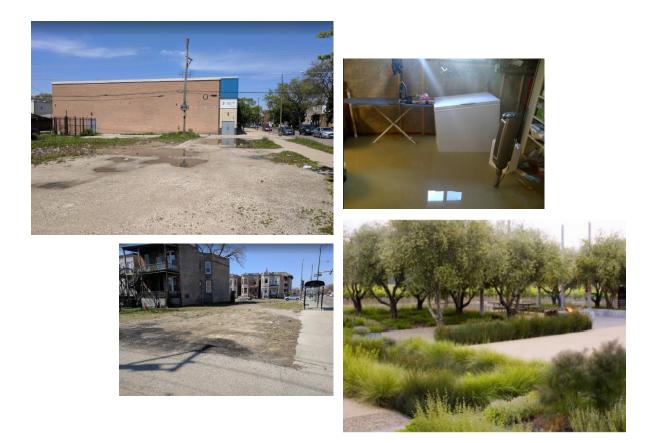
#### **Project Background**



Initiated by HUD grant related to April 2013 flood event

project location

#### Challenge



#### Objectives

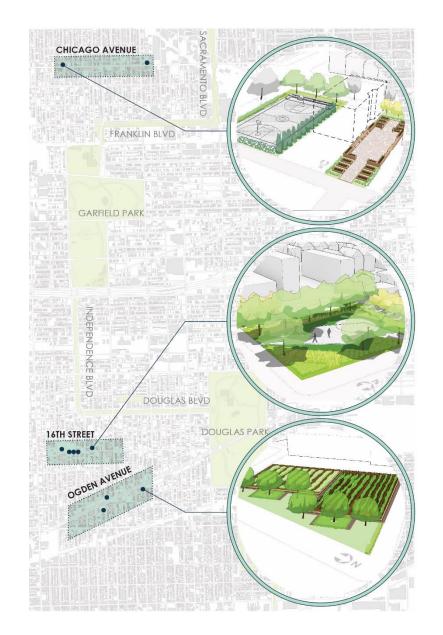
Reduce basement flooding risk by activating cityowned, vacant lots

Create beautiful public spaces that can be maintained by local stewards

Design and construct in 2017

### Approach Runnel Rain Garden Plaza Basketball Court Urban Farm PERMEABLE PAVER SURFACE WATER FLOW Choose sites with best opportunity to -14 0! reduce basement flooding 98 **Green Infrastructure Underground Storage** Bring water from the ROW into sites 3 AVE.

#### **Resilient Corridors**

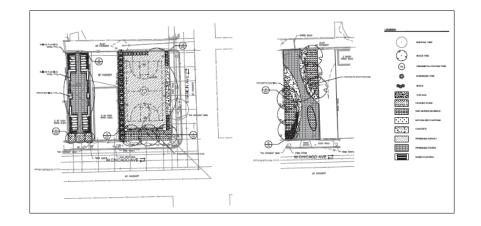


3 corridors10 project areas23 parcels





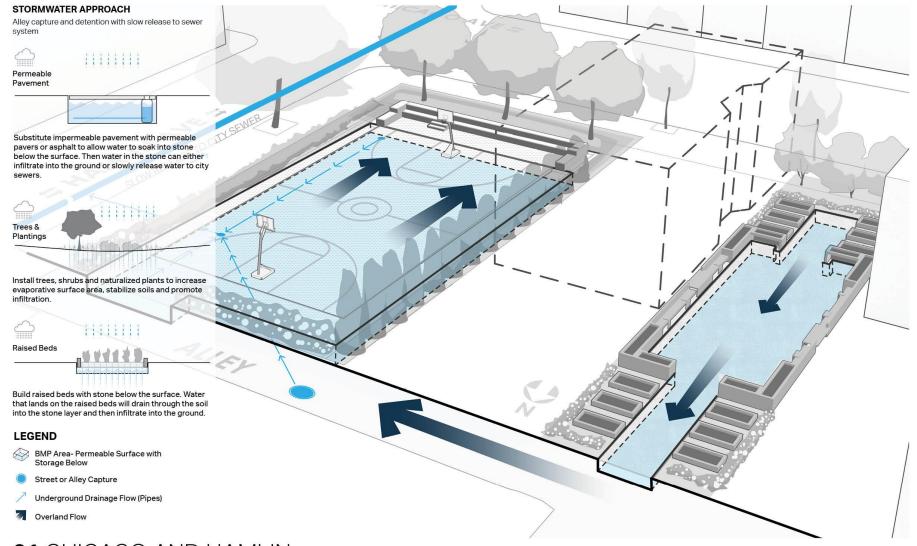
## Chicago Avenue





Site #	Community Group	Complimentary Projects	Brief Description	Stormwater Approach
1a	Kelly YMCA & Franciscan Brothers	New youth and senior programming	Multi-use permeable hardscape	Alley capture and detention with slow release to sewer system
1b	Kelly YMCA & Franciscan Brothers	New youth and senior programming	Multi-use permeable hardscape and vegetable garden	Zero discharge site
02	West Humboldt Development Council	Future CPD skatepark	Gateway to future skatepark	Zero discharge site

City of Chicago Department of Planning and Development



**01** CHICAGO AND HAMLIN

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#### **Basement Flooding**



#### **Basement Flooding**



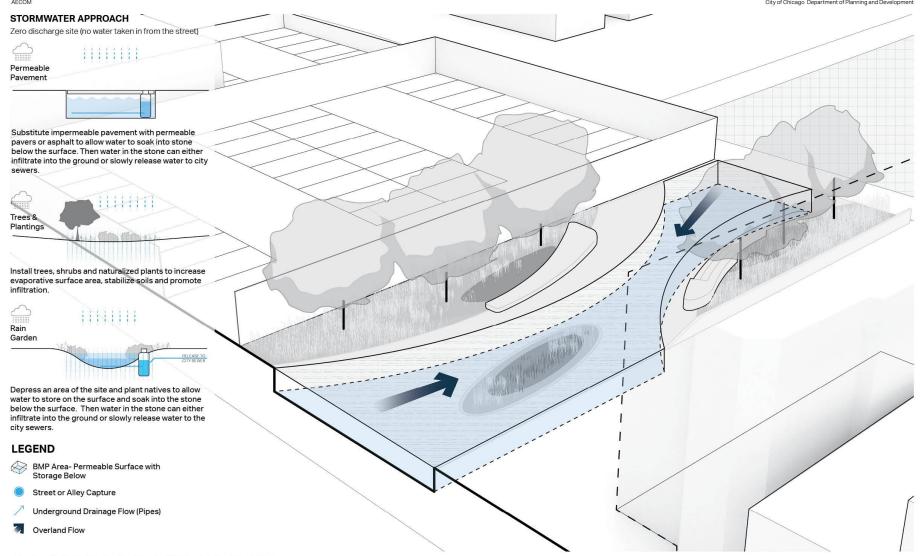
#### Chicago Avenue & S Hamlin Avenue





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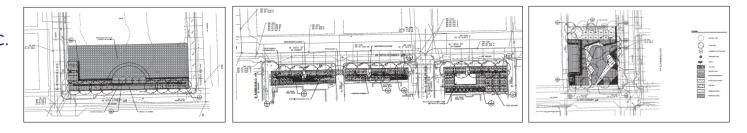
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#### **02** CHICAGO MID BLOCK



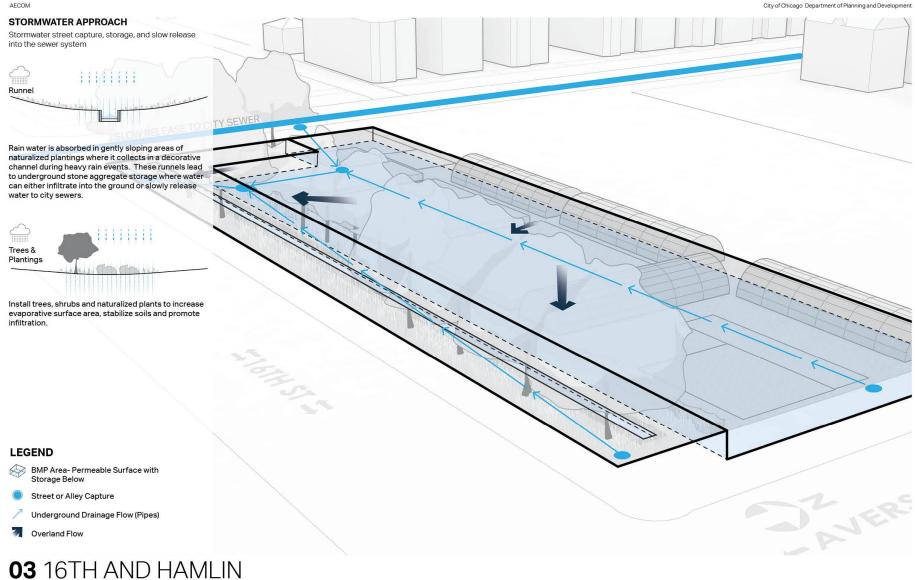
DEL KAR PHARMACY INC.



16<sup>th</sup> Street



Site #	Community Group	Complimentary Projects	Brief Description	Stormwater Approach
03	Gardeneers	Youth training and education about edible trees and shrubs	Landscape and edge treatment	Stormwater capture, storage and slow release to sewer system
04-06	MLK Bloom Gardens	Youth training and education about edible trees and shrubs	Streetscape passive garden and adventure play	Downspout disconnection and passive alley runoff capture
07	Delkar Pharmacy non-profit	New restaurant and hair salon	Community gathering flex space	Stormwater storage for onsite runoff with restricted discharge

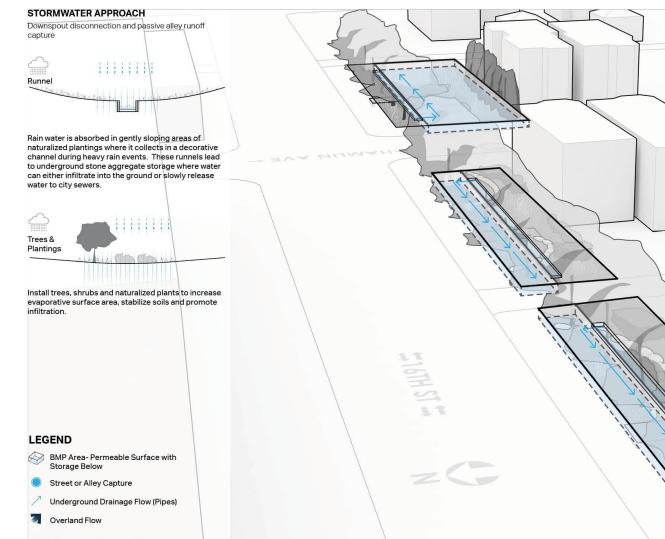


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#### 16<sup>th</sup> Street & Springfield Avenue

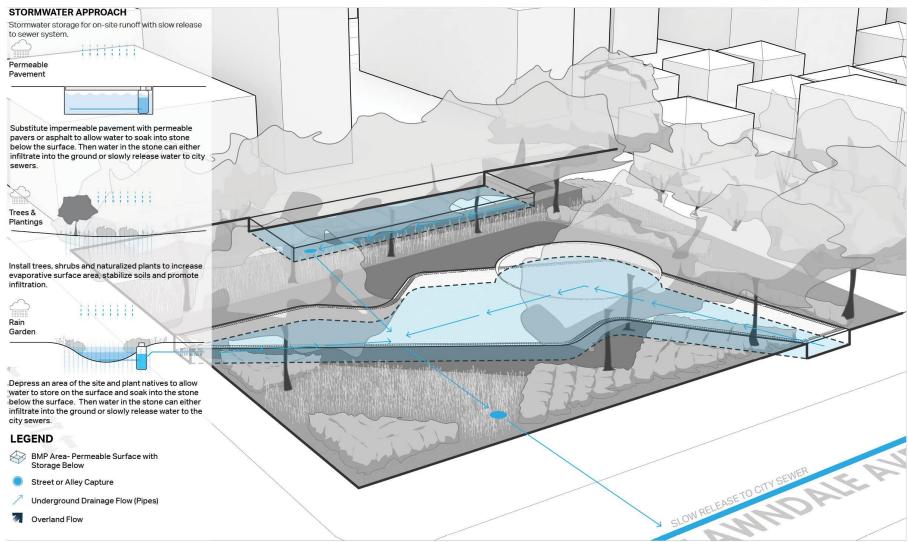






#### 04-06 16TH AND HAMLIN

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#### 07 16TH AND LAWNDALE

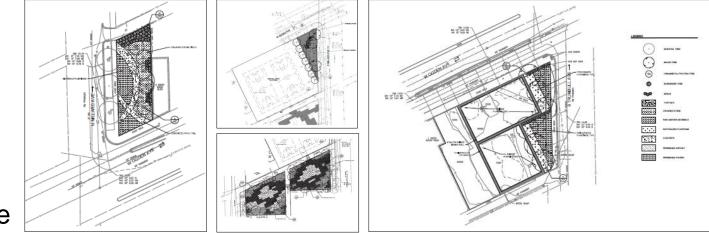
#### 16<sup>th</sup> Street & South Lawndale







CHICAGO BOTANIC GARDEN







Site #	Community Group	Complimentary Projects	Brief Description	Stormwater Approach
08	Lawndale Christian Health Center		Passive garden and block	Stormwater landscape feature
			gateway	with stormwater capture
09	Lawndale Christian Health Center	Two basketball courts with	Leisure garden adjacent to future basketball venue	Stormwater capture, storage, and slow release into sewer
		bleachers to be used for		
		tournament and league		
		play		system
10	Chicago Botanic Garden	New production garden for	Production garden for incubator training garden	Stormwater capture, storage,
		graduates of training		and slow release into sewer
		garden		system

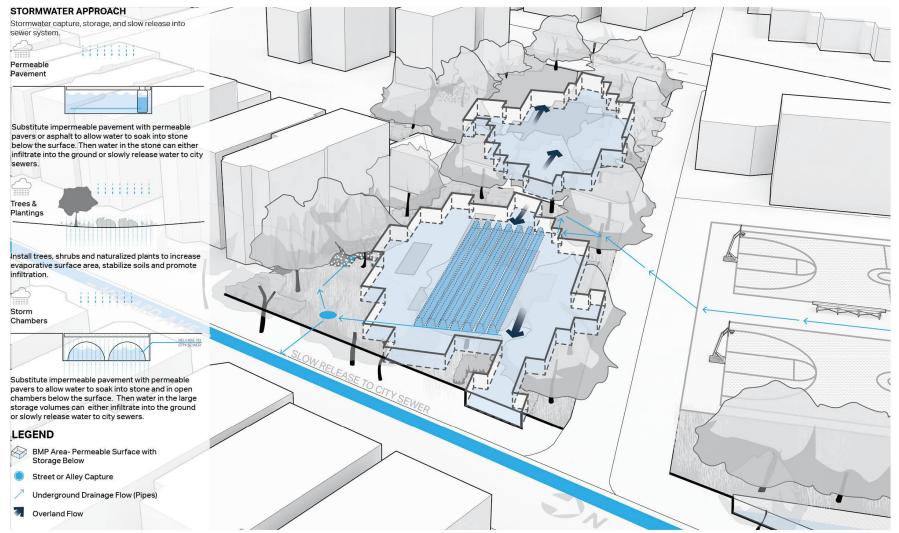
STORMWATER APPROACH Stormwater street capture and slow release into the city sewer system. Trees & Plantings Install trees, shrubs and naturalized plants to increase evaporative surface area, stabilize soils and promote infiltration. Rain Garden Depress an area of the site and plant natives to allow water to store on the surface and soak into the stone below the surface. Then water in the stone can either infiltrate into the ground or slowly release water to the MILLARDAVE city sewers. LEGEND BMP Area- Permeable Surface with CITY SEWER Storage Below Street or Alley Capture Underground Drainage Flow (Pipes)

Overland Flow

#### **08** OGDEN AND N. MILLARD

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#### **09** OGDEN AND S. MILLARD

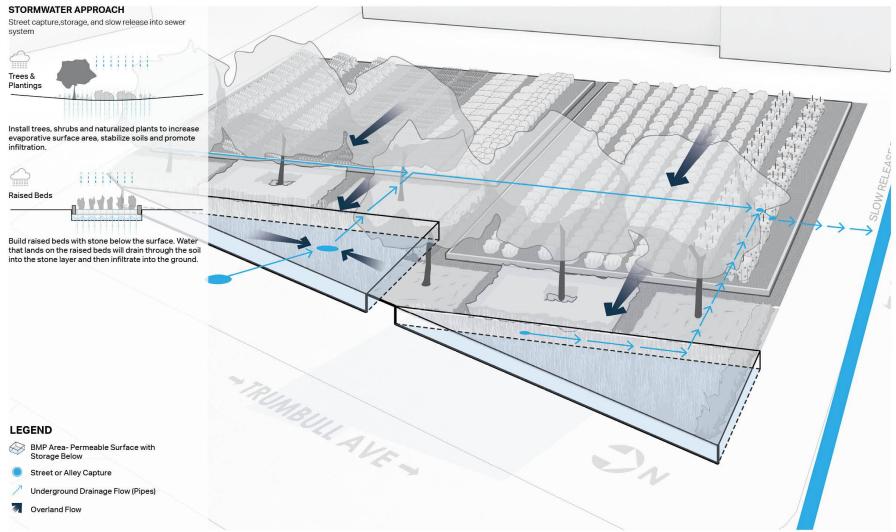
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#### Ogden Avenue & South Millard





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#### **10** OGDEN AND TRUMBULL

#### **Design Conclusions**

Construction cost for building 10 project areas: \$4.8 million

Community engagement

New stormwater strategies

















