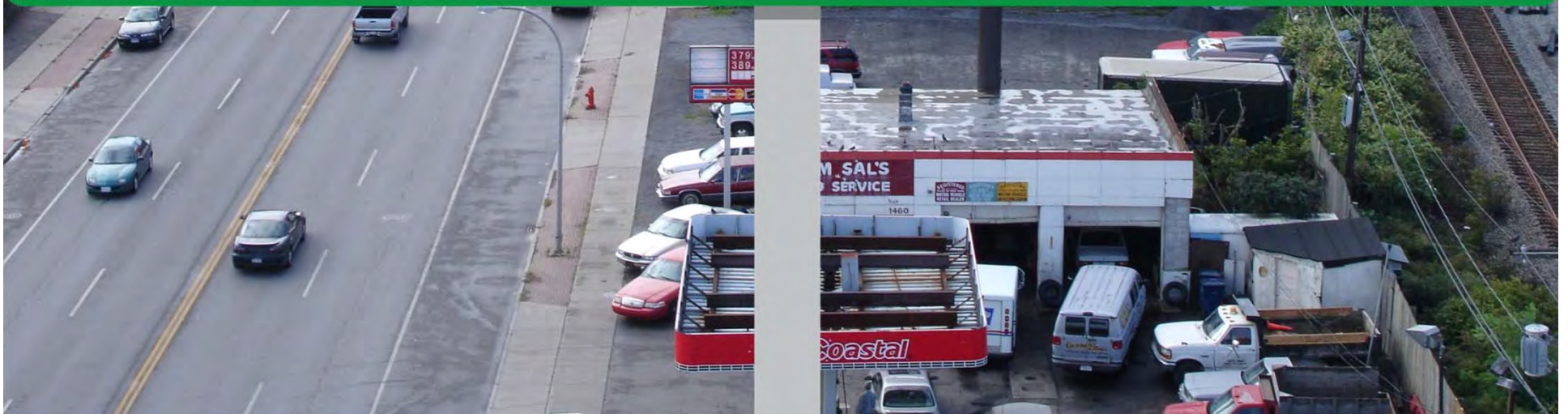


DESIGN & GREEN INFRASTRUCTURE UPDATE

December 13, 2016



NIAGARA STREET NOW

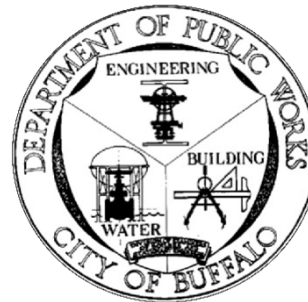




Welcome & Introduction

Michael J. Finn, P.E.

City Engineer



Summary of Public Outreach to Date



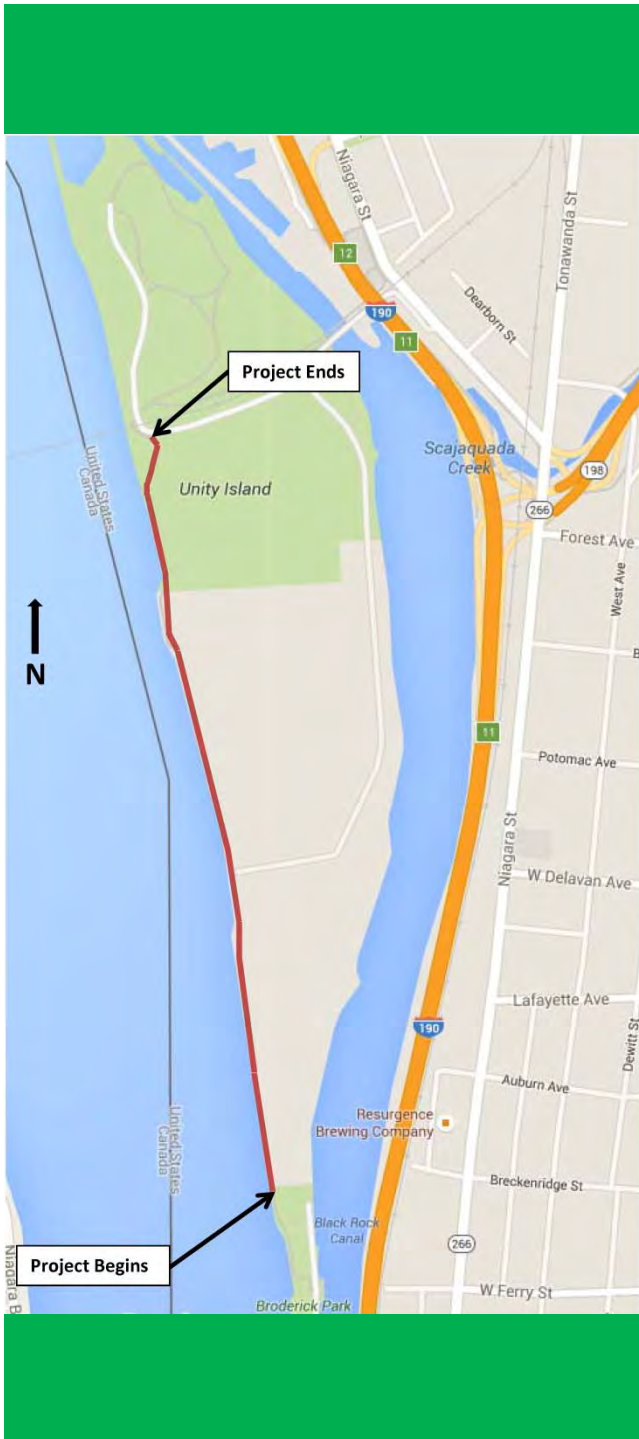
- **Ground the work** in established principles
December 2015
- **Survey** residents, business owners, and stakeholders
December 2015 – January 2016
- **Community Workshops** to re-imagine the streetscape
February 2016
- **Summarize Feedback** for the designers, engineers and community in a Vision Document
March 2016
- **Identify Priorities**
April 2016
- **Preliminary Design Update**
Summer 2016

Website: www.NiagaraStreetNow.org

Tonight's Objectives

- Shoreline Trail Project update
- Update on design progress
- Presentation of landscaping possibilities at property frontage
- Update on project cost, budget and schedule
- After presentation, discuss visuals on display and have questions answered with the design team
- Opportunity to select a landscaping option at **your** property





Shoreline Trail

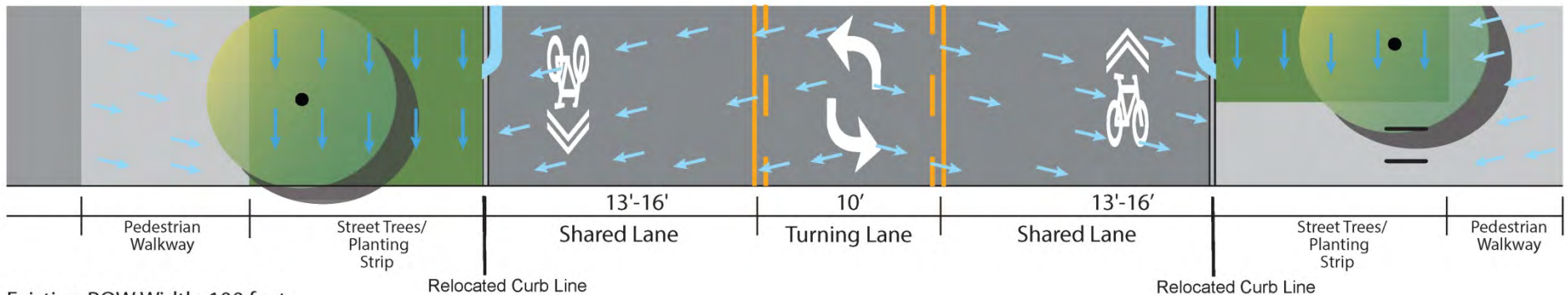
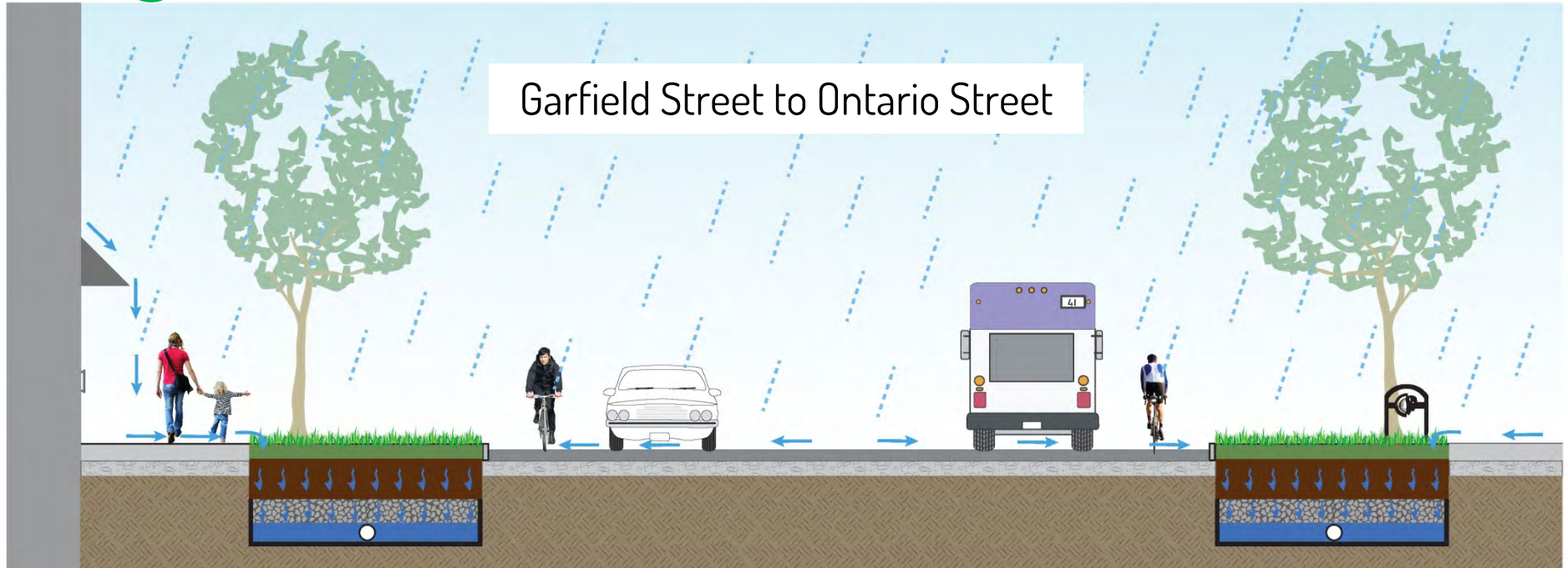
- **Formal award to contractor**
February 2017
- **Begin construction**
Spring 2017

Niagara Street Phases 3 & 4

Ontario Street to Porter Avenue

Proposed

Niagara Street Section



Existing ROW Width: 100 feet

Existing Curb-to-Curb Width: 50 - 58 feet

Proposed Curb-to-Curb Width: 42 feet

Existing

Niagara Street

Arthur Street intersection looking north



Proposed

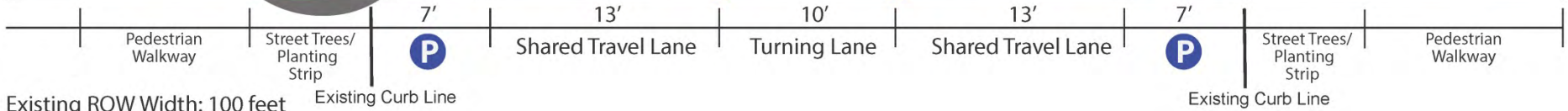
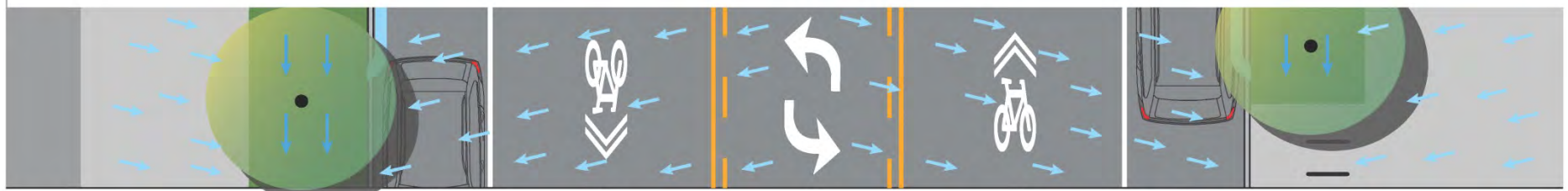
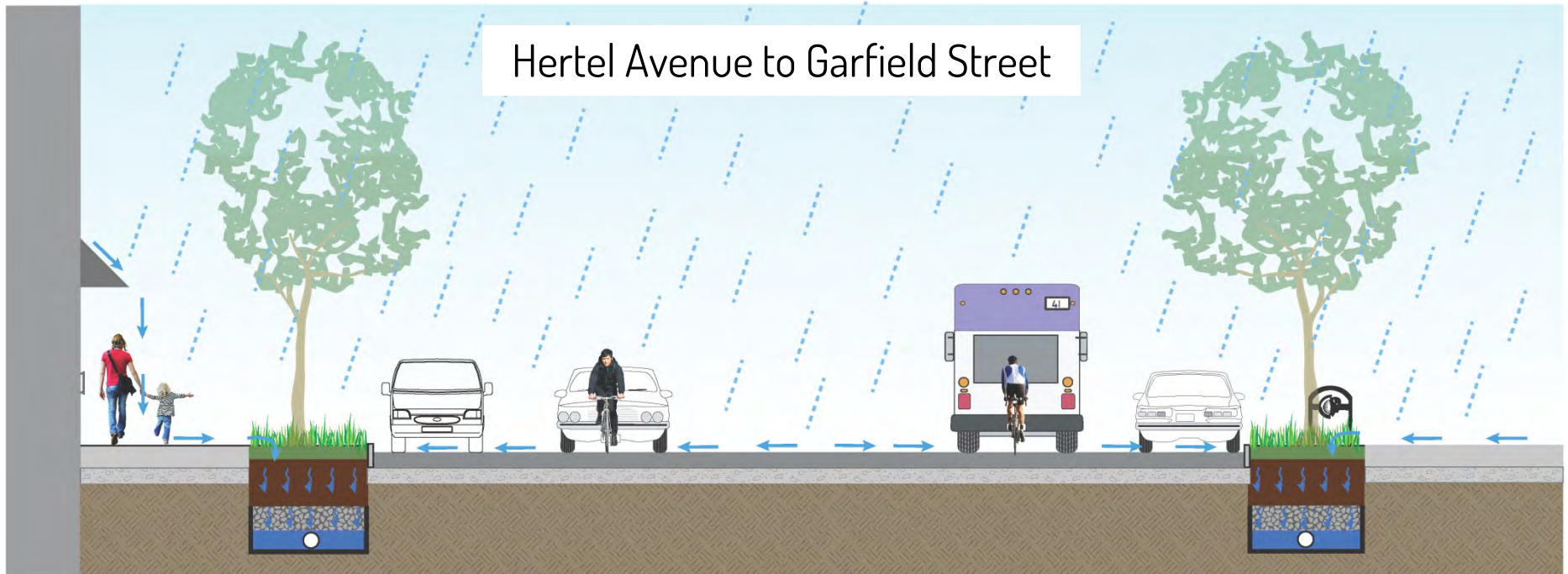
Niagara Street

Arthur Street intersection looking north



Proposed

Niagara Street Section



Existing ROW Width: 100 feet

Existing Curb-to-Curb Width: 50 feet

Existing

Niagara Street

Looking south at 1660 Niagara Street



Proposed

Niagara Street

Looking south at 1660 Niagara Street



Existing

Niagara Street

Tonawanda Street intersection looking south



Proposed

Niagara Street

Tonawanda Street intersection looking south



Existing

Niagara Street

Northbound Niagara beneath Route 198 Viaduct looking west



Proposed

Niagara Street

Northbound Niagara beneath Route 198 Viaduct looking west



Existing

Niagara Street

Southbound Niagara beneath Route 198 Viaduct looking west



Proposed

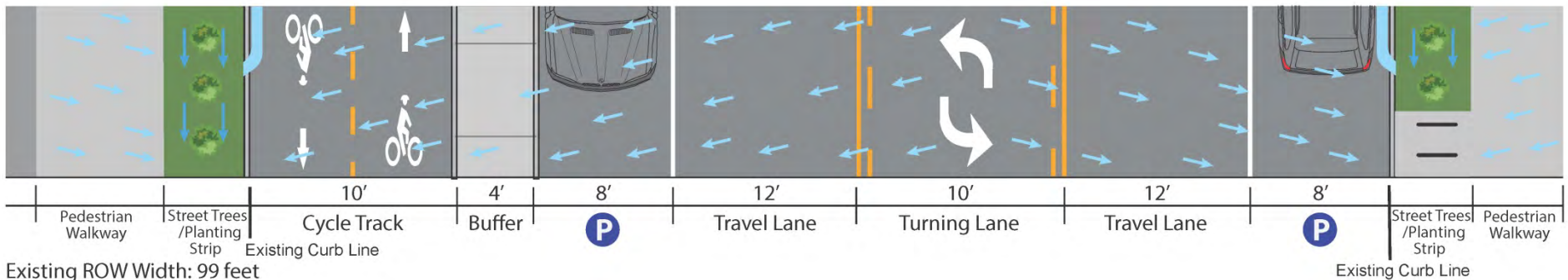
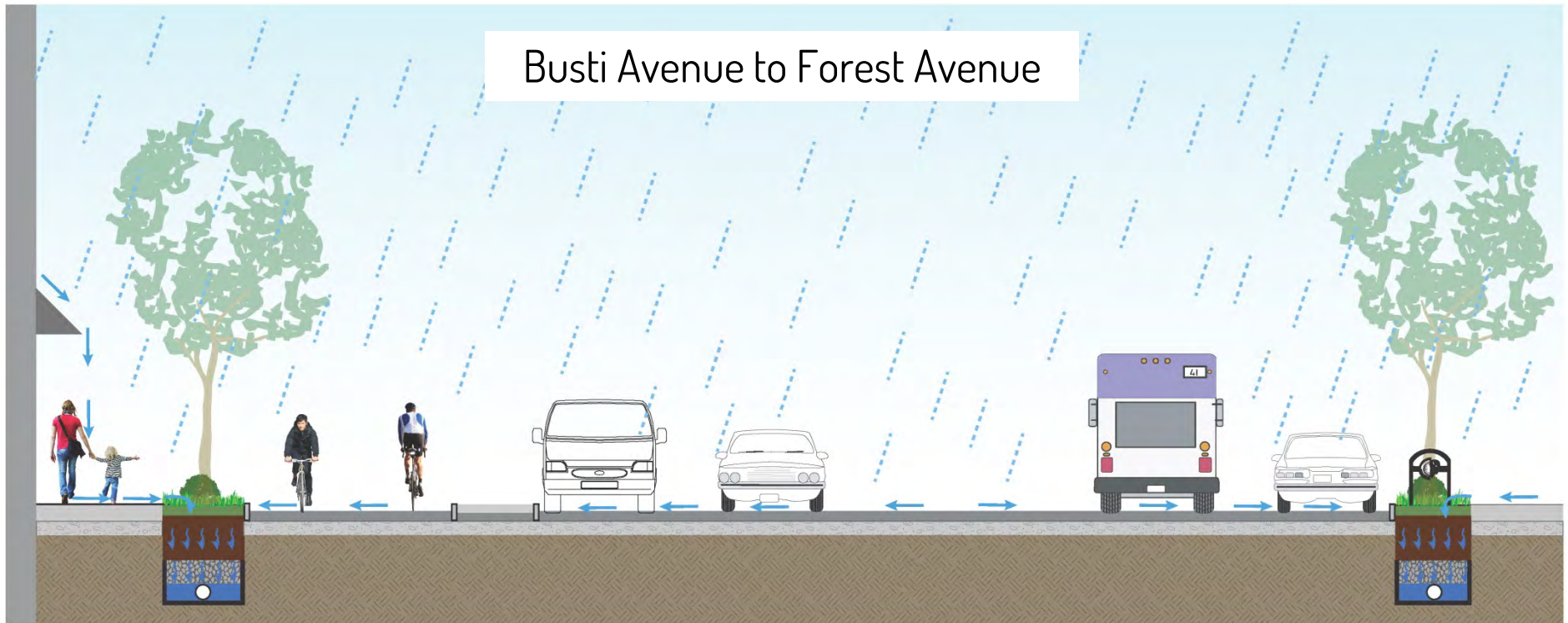
Niagara Street

Southbound Niagara beneath Route 198 Viaduct looking west



Proposed

Niagara Street Section



Existing ROW Width: 99 feet

Existing Curb Line Width: 64 feet

Existing

Niagara Street

West Ferry Street intersection looking south



Proposed

Niagara Street

West Ferry Street intersection looking south



Existing

Niagara Street

Robert Rich Way looking west



Proposed

Niagara Street

Robert Rich Way looking west



Existing

Niagara Street

Albany Street intersection looking west



Proposed

Niagara Street

Albany Street intersection looking west



Existing

Niagara Street

Busti Street intersection looking north



Proposed

Niagara Street

Busti Street intersection looking north



Existing

Niagara Street

Triangle between Busti, Hampshire and Niagara looking west



Proposed

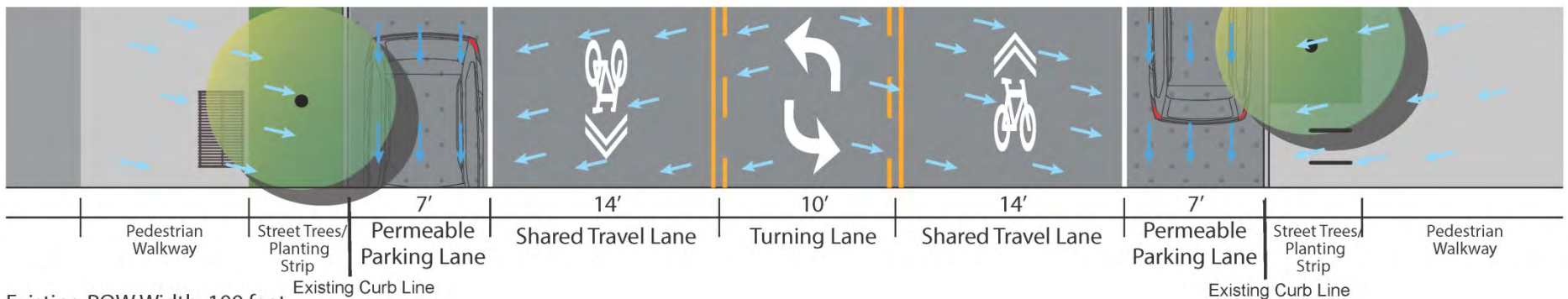
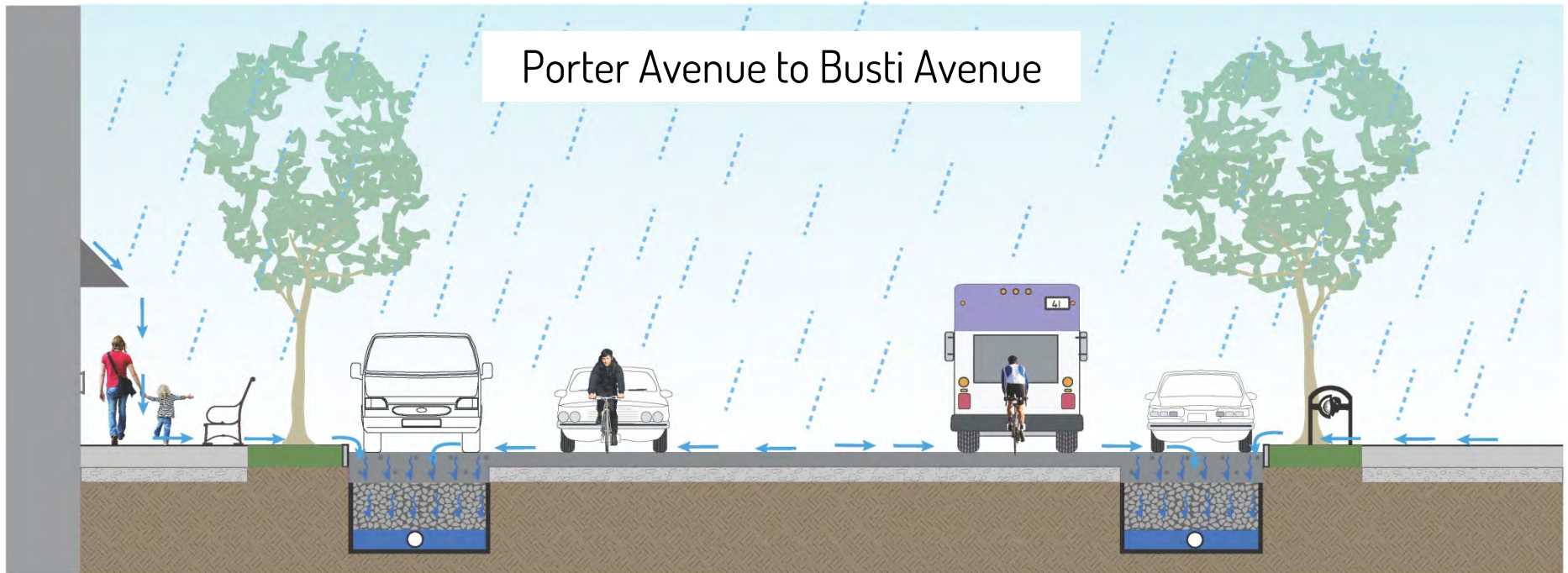
Niagara Street

Triangle between Busti, Hampshire and Niagara looking west



Proposed

Niagara Street Section



Existing ROW Width: 100 feet

Existing Curb-to-Curb Width: 52 feet



Green Infrastructure

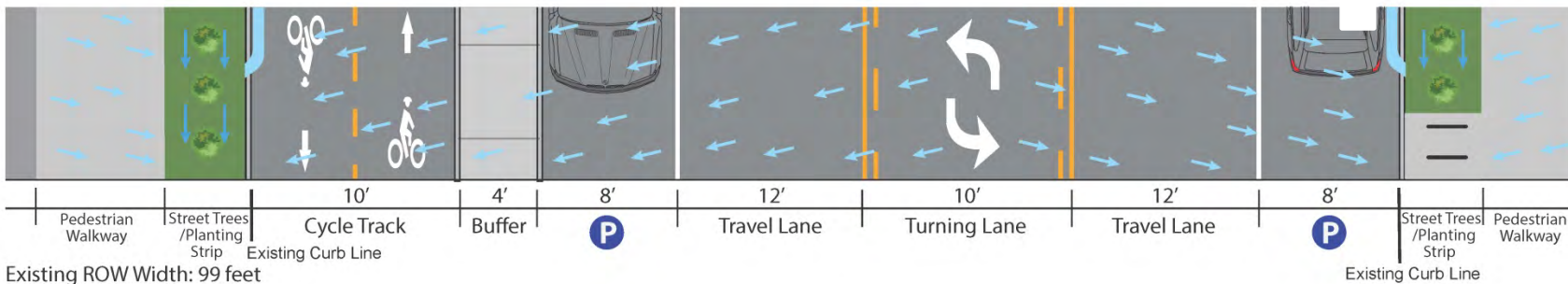
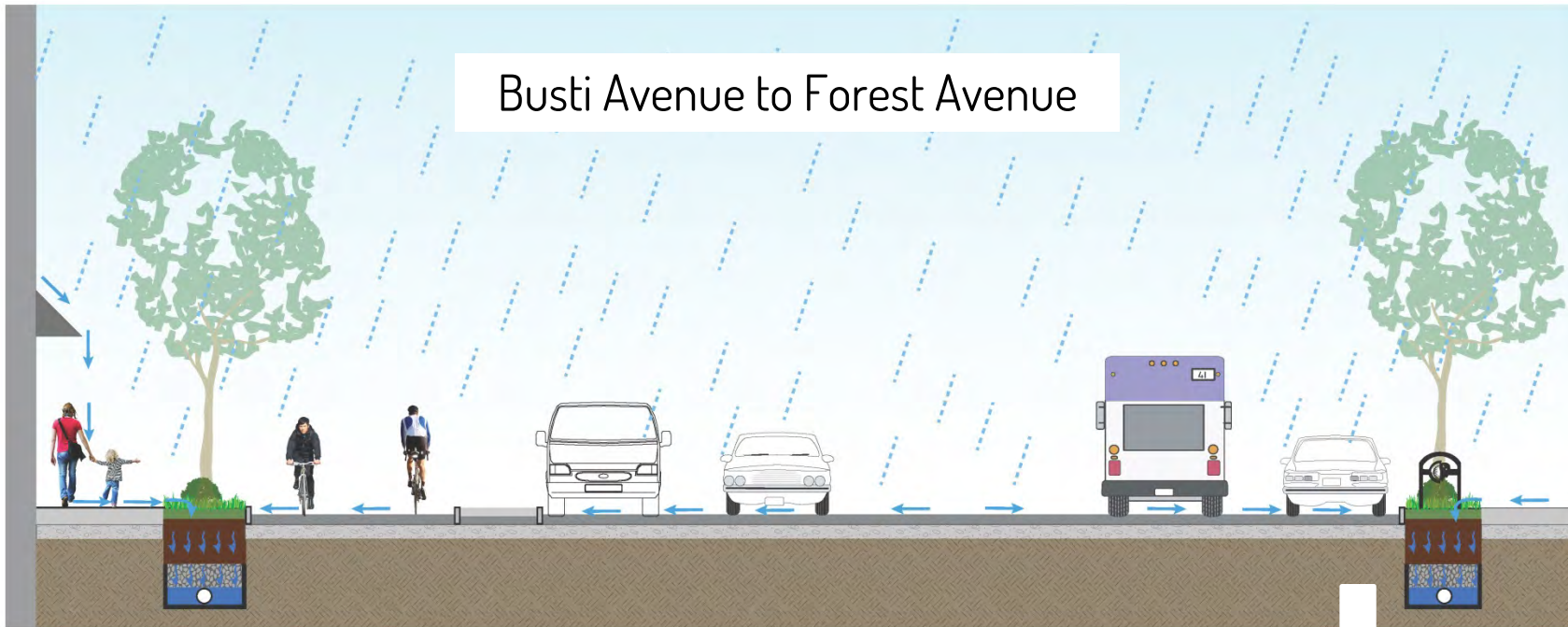
Julie Barrett O'Neill

General Counsel

Buffalo Sewer Authority



Green Infrastructure



Existing ROW Width: 99 feet
Existing Curb-to-Curb Width: 64 feet

Existing

Niagara Street

Typical landscaping at property frontage



Proposed – Option 1 (turf)

Niagara Street

Typical landscaping at property frontage



Proposed - Option 2 (hardscape)

Niagara Street

Typical landscaping at property frontage



Proposed - Option 3 (garden 1)

Niagara Street

Typical landscaping at property frontage



Proposed - Option 4 (garden 2)

Niagara Street

Typical landscaping at property frontage



Proposed - Option 5 (garden 3)

Niagara Street

Typical landscaping at property frontage



Project Cost Estimate

<i>Construction Item</i>	BSA	DPW	Total
Paving		\$ 1,550,000	\$ 1,550,000
Sidewalks, Driveways and Snow Storage		\$ 1,700,000	\$ 1,700,000
Curb		\$ 200,000	\$ 200,000
Bump Outs/Road Diet	\$ 50,000	\$ 1,150,000	\$ 1,200,000
Signals		\$ 1,600,000	\$ 1,600,000
Drainage Structures	\$ 1,100,000		\$ 1,100,000
Green Infrastructure Stormwater Controls			
- Permeable Pavement (Porter to Busti)	\$ 1,800,000		\$ 1,800,000
- Stormwater Planters (Busti to Ontario)	\$ 2,200,000		\$ 2,200,000
- Plantings	\$ 500,000		\$ 500,000
Trees		\$ 275,000	\$ 275,000
Public Art		\$ 65,000	\$ 65,000
Robert Rich Way		\$ 510,000	\$ 510,000
Amenities (wayfinding signage, street furniture, etc.)		\$ 750,000	\$ 750,000
Signs, Striping, & Other Essential Work		\$ 750,000	\$ 750,000
Lighting		\$ 2,900,000	\$ 2,900,000
Cycle Track		\$ 2,500,000	\$ 2,500,000
Survey		\$ 200,000	\$ 200,000
Work Zone Traffic Control (WZTC)		\$ 500,000	\$ 500,000
Field Change		\$ 700,000	\$ 700,000
Mobilization		\$ 500,000	\$ 500,000
Construction Inspection & Administration		\$ 2,800,000	\$ 2,800,000
TOTALS	\$ 5,650,000	\$ 18,650,000	\$ 24,300,000

Available Funding

Federal	USDOT	\$7,300,000
	EPA	\$400,000
	LWRP	\$4,200,000
State	CFA Award 2013	\$510,000
	DASNY	\$2,900,000
	NYSERDA	\$1,500,000
	WQIP	\$937,500
Local	City of Buffalo	\$1,720,000
	Buffalo Sewer Authority	\$4,712,500
	TOTALS	\$24,180,000
COST VS. FUNDING DIFFERENTIAL		-\$120,000

Project Schedule

Design approval (including finalized environmental review)

January 2017

Final design presented to the public

February/March 2017

Ready for Bid

April 2017

Anticipated Construction Start

July 2017

Anticipated Construction Completion

Spring 2019



Next Steps

Review & offer feedback on **Design Progress**

- Discuss visuals on display and have questions answered with the design team following this presentation
- Select a landscaping option at **your** property
- Give feedback on available comment sheets or on the NiagaraStreetNow.org website over the next week

