



# AHS CADD - Envision Broadway

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# Analysis and Results

## Student Input

- We have chosen to center our Arlington designs around student ideals.
- We believe that Arlington's future should be in the hands of its future residents
- We have gathered input from Arlington High School students about what they would like to see in Arlington in the future

# Student Input

- We published two surveys to the students of AHS

First survey:

[https://docs.google.com/forms/d/1G0h2EYsbj3kR2tbaRXgvIFPUftz0MT12AbuRYN\\_EdnI/edit](https://docs.google.com/forms/d/1G0h2EYsbj3kR2tbaRXgvIFPUftz0MT12AbuRYN_EdnI/edit)

This survey asked vague questions-

- What do you want to have in Arlington?
- What do you see main roads in Arlington looking like in the future?



## What do you want to have in Arlington?

I would like more bike lanes on main roads such as Broadway and Mass ave. A public pool would also be a welcome addition in Arlington. The only pool in town currently is the Boys & Girls club pool. More trees in commercial zones would also be a nice addition. This includes the heights and Arlington center.

Expanded parks/recreational area not attached to schools. More Bluebike/lime bike hubs as well as more public transportation options into Boston. Increased shop space for business to move in creating a more active center.



## What do you see streets in Arlington looking like in the future?



Larger patches of green that break up our crowded sidewalks, like lexington center. Since its 20 years I hope to see more of those rental bike places and less cars on the road

Public transport focused roads, larger bike lanes and sidewalks as well as many shops and leisure activities

We conducted an interactive survey at Arlington High School, asking what matters were important to the high school

## Student Input- survey posters

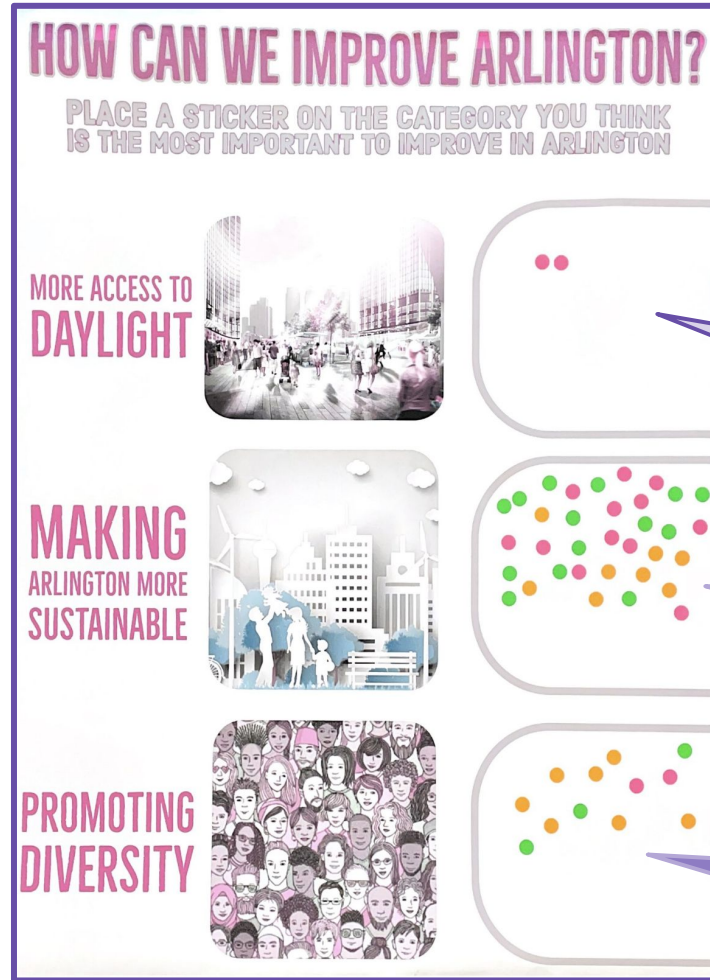


## Student Input- survey posters





## Student Input- survey posters



# Existing Conditions

## Transportation



High bicycle traffic.

No bicycle facilities.



### Pedestrian Hit in East Arlington Crosswalk

The female victim was taken to Mount Auburn Hospital in Cambridge.

Updated Fri, Oct 24, 2014 at 10:25 am ET



Popular walking corridor. Dangerous and unsafe to walk on.



The lack of walkability of Broadway makes transit less desirable all together.



# Synthesis



In the next few slides, we will explore our goals for a new Broadway corridor.

# Synthesis

## Transportation

### Our goal

- Reimagine Broadway as a people-first street.
- Creatively distribute space away from car storage.
- Incentivise transit, walking, and bicycling over driving.





# Synthesis

## Walkability

Our goal

Walking in the Broadway neighbourhood needs to be:

- Safe
- Efficient
- Desirable



# Synthesis

## Sustainability

Our goal

The Broadway neighbourhood needs to have:

- Net-zero emissions
- Green/environmentally friendly policies



# Synthesis

## Diversity

### Our goal

In the future, Broadway should have:

- A diverse residential community
- Representative downtown commerce
- Mixed income groups inhabiting Broadway
- Mixed age groups inhabiting Broadway



# Synthesis

## Housing

Our goal

Houses in the Broadway area should be:

- Affordable
- Mixed-use buildings
- Representative of a more futuristic Arlington





# Synthesis

## Businesses

Our goal

We would like to see:

- Locally run businesses
- Businesses that Arlington residents *want*
- Mixed-use buildings
  - Commercial + Housing
  - Mixed age and income



# Synthesis

## Public Spaces

Our goal









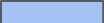

In the future we would like to see

- Public spaces that preserve existing natural areas
- A system that connects new public space to existing, cherished parks
- Open spaces where people can congregate safely
- Green public spaces



# Our Vision - Local Context

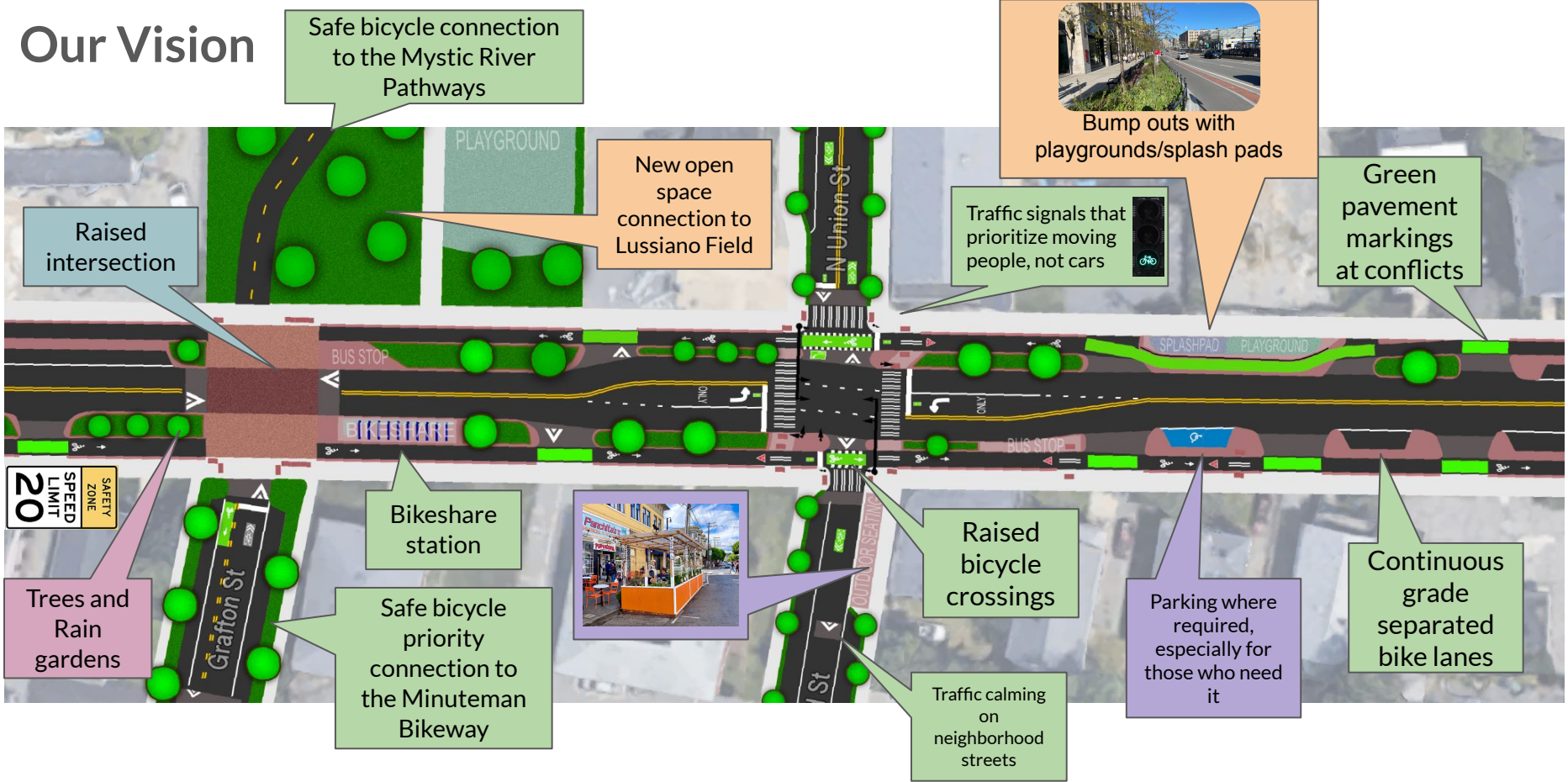
## Key for Our Vision

	Open Space
	Transportation
 Line	Protected bike lane
 Line	Bike lane
 Line	87 Bus route
 Line	Bike connections
	Businesses
	Sustainability
	Walkability
	5 min walk radius



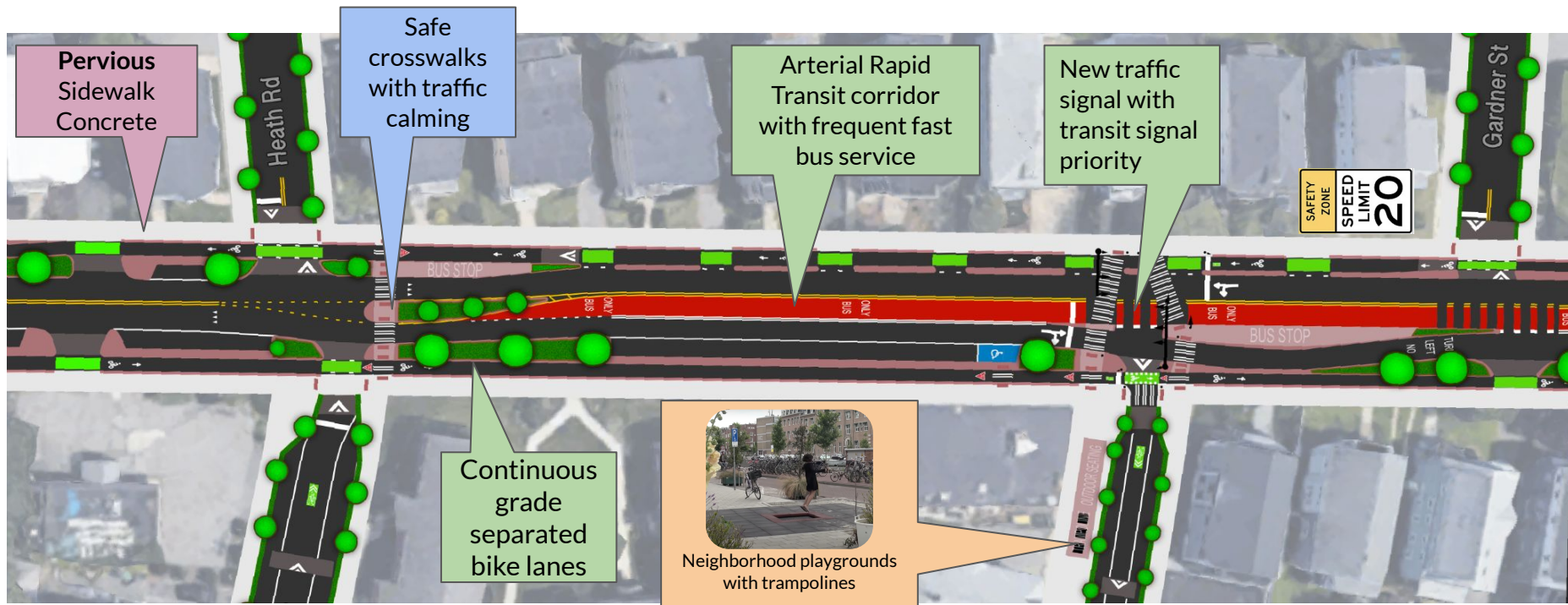


# Our Vision





# Our Vision



# Our Vision - Key features

## Continuous Separated Bike Lanes



- Attract more bicyclists to shop
- Shorten crossing distances and calm traffic
- Prioritize other modes over cars, and help push a modeshift.
- Makes the corridor safer for all users

## Raised crosswalks and curb extensions with Rain Gardens



- Attract more pedestrians to shop and walk around the corridor.
- Adds more public space
- Makes the corridor more attractive
- Shorten crossing distances and calm traffic
- Helps store and attract storm water.

## Arterial Rapid Transit



- Attracts more customers to the area
- Makes transit more reliable
- Shortens crossing distances and calms traffic
- Prioritize other modes over cars, and help push a modeshift.

### What we heard

“the busses can be off schedule”  
“No seating area for people waiting for the bus”  
“Not enough options”

# Our Vision - Key features

## People-first traffic signal timing



- Attract more pedestrians to shop and walk around
- Improves level of service for pedestrians, while increasing safety
- Prioritize other modes over cars, and help push a modeshift.
- Makes the corridor safer and more efficient for all users

## Neighborhood Streets



- Speed tables to slow traffic
- Wide sidewalks for kids to play on
- Low-stress bike connections to major bike routes like Broadway, Mass Ave, the Mystic River Bikeway, and the Minuteman Bike Trail.
- Discourages cut through traffic
- Parking/Seating for businesses on side streets

## Streets for People



- More exciting walking environment
- Reproposes space from cars to people
- Allows kids to play safely in their neighbourhood
- Allows more greenery to be installed
- Increases public space via linear parks.



# Our Vision - Broadway features

## Walkability

- Stores in walking distance
- Pedestrian-friendly traffic signals
- Traffic calming
- Street art
- More street trees to fight the “urban heat effect”
- Outdoor dining and linear parks



### What was suggested

“more crosswalks”

“Larger sidewalks and more traffic calming”

“More benches and a grocery store I could walk to”

## Sustainability

- Rain gardens
- **Pervious** sidewalk concrete
- Rooftop gardens
- Promote walkability so people are more motivated to walk or bike
- Establish composting centers in each district
- More green areas





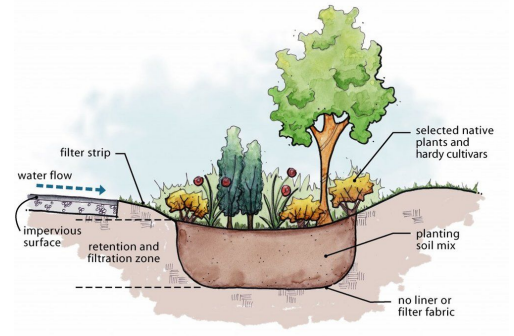
# Our Vision - Broadway features

## Sustainability (Cont.)

### Stormwater resiliency

**Why stormwater management is important:** When stormwater management is done well, streams, rivers, and lakes are cleaner; flood risks are reduced; and community quality of life increases.

- Conserving green space
- Rain gardens
- Bioretention gardens
- Green roofs
- Stormwater swales
- Permeable pavements
- Constructed wetlands
- Rain barrels and Cisterns



# Our Vision - Broadway features

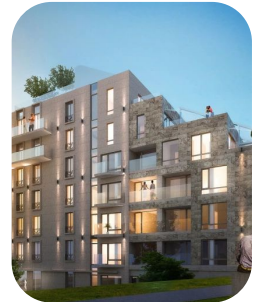
## Diversity

- Ethnic farmer's market and parks are shown to promote diversity
- **Create cheaper housing**
- Promote neighbourhood events
- Provide minority community leadership classes (As Norristown Pennsylvania did, ultimately seeing positive results)
- Add ramps in parks and other public spaces



## Housing

- Mixed use buildings- combines commercial and housing
- More apartment buildings
- Legalize single-family home conversions
- Eliminate parking minimums(as they can increase rent by up 20-30%) and consider parking maximums
- Tax land, not buildings



# Our Vision - Broadway features

## Businesses

- Outdoor seating for restaurants
- Other businesses may request parking repurposing if they have a specific need (bookstore could request parking spaces to set up a reading nook).
- Parking limits of 1-2 hours to encourage parking turnover.
- Walkable streets that encourage residents to shop local.



## Public Spaces

- Public playgrounds and splash pads that encourage “neighborhoodliness”
- Replace unneeded on street parking with public spaces.
- STEMs Spaces
  - Spaces that encourage interest in STEM fields (targeted at younger children)
- More outdoor seating
- Connections to existing parks
- Community Pool
- Residents are allowed to choose what they want in front of their house on the street.
- Creating neighborhood mini forests

