

PROJECT GOALS ADAPTED FROM CITY OF RICHFIELD'S GUIDING PRINCIPLES AND SWEET STREETS INITIATIVE

I. Multimodal Design

Utilize innovative and non-traditional design standards in a way that is equitable for all modes/users, including bicycle, pedestrian, transit, and intermodal travel.

II. Connectivity and Public Realm

Connect public realm amenities so that a range of inter-modal activities support how neighborhood residents travel to and from destinations

III. Local Economy

Support all businesses in the local economy and provide a safe and more convenient way to access and connect across all modes.

IV. Design for People

Consider how people will use community amenities and facilities, addressing universal accessibility and the comfort, safety, and convenience of all users.





V. Community Character & Identity

Recognize and respond to community character and features with appropriate design, speeds, wayfinding, and amenities.

VI. Sustainable Solutions

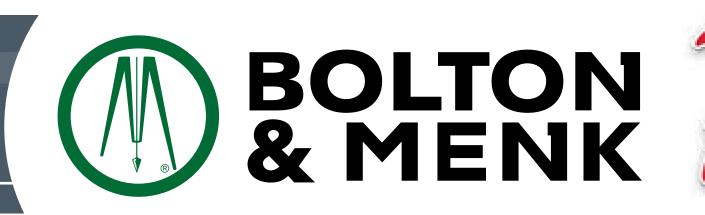
Utilize solutions that are adaptable, flexible, built to last, and consider implications of long term maintenance.

VII. Health and Active Lifestyles

Incorporate elements that encourage comfortable corridors and places to walk and bike to, via safe and well-landscaped routes that connect the community.

VIII. Unique Location

Support a well-designed and functional system which complements local land use and capitalizes on Richfield's unique location through access to regional multimodal system.



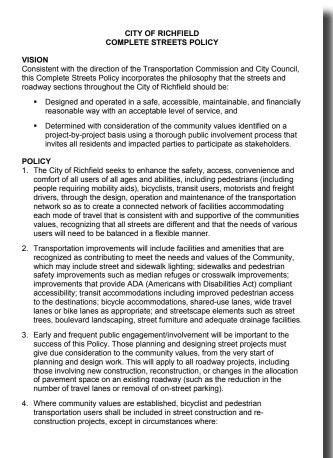




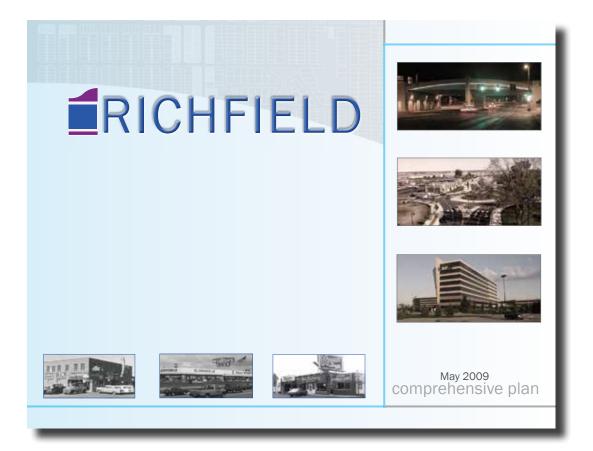
PLANS & POLICIES



Sweet **Streets** Initiative



Complete **Streets Policy**



Comprehensive **Plan Update**

LYNDALE AVENUE RECONSTRUCTION PROJECT



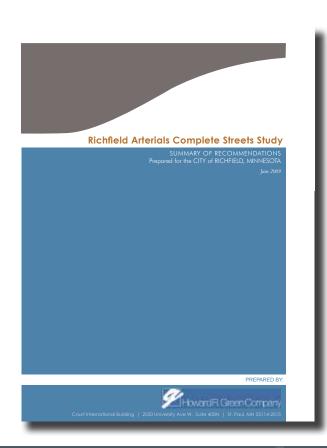


Bicycle Master Plan (2012)



Lyndale Avenue

Richfield Arterials Complete Streets Study (2009)



Sidewalk Standards and Snow Plowing Policies

dewolk should be provided on only one side of collector street be provided on only one side of roadways on n

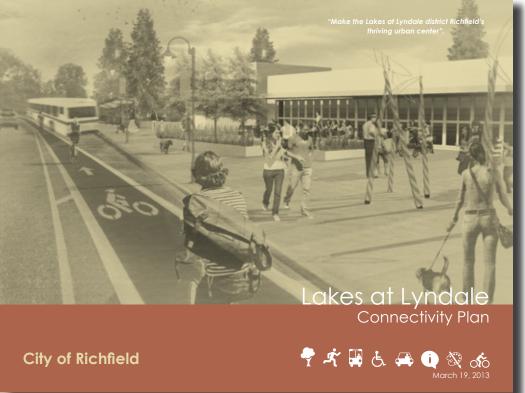
CITY OF RICHFIELD Sidewalk Standards July 2006

- New sidewalks will be considered based on residents submit cost of the sidewalk may be assessed to the adapted proper artains all sidewalks on public right of wa
- a of Non-Compliance with Ourset Policy exception of 69th Street between Penn and Xexes, all roadways within th ply to the current policy. This portion of 69th Street does not have a sidew a porometry of a parallel retaining wall.
- Problems with Sciencelia.
 Limited right-of-way on arterial streets causes a safety concern by peer room for shoulders on the toadway. Legally the City may not plow snow onto privat snow storage is inadequate and maintaining si
- Utility poles are an obstacle and create maintenance problems. As well as safety concerns. . Boulevard trees are an obstacle and cause upheaval of sidewalk panels
- The current policy is missing a flexible standard for right-of-way use.
- nt City policy to maintain sidewalks is costly and snow removal takes

Distracted Driving Initiative













PROJECT OVERVIEW

I. About the Project

As part of its Sweet Streets initiative, The City of Richfield is planning for the reconstruction of Lyndale Avenue South in 2019. The project will extend from 66th Street on the north end to 76th Street on the south end. The project will evaluate corridor improvements to balance mobility, access, and non-motorized uses along the roadway, as well as improvements to the public utilities.

The City has recognized this as a unique opportunity to revisit the street's design and function, to ensure they represent the best approach to meet the community's transportation needs into the future.

II. Project Contacts

Have **Questions**? Want to Provide us **Feedback**? Please reach out to these contacts and let us know what you think!

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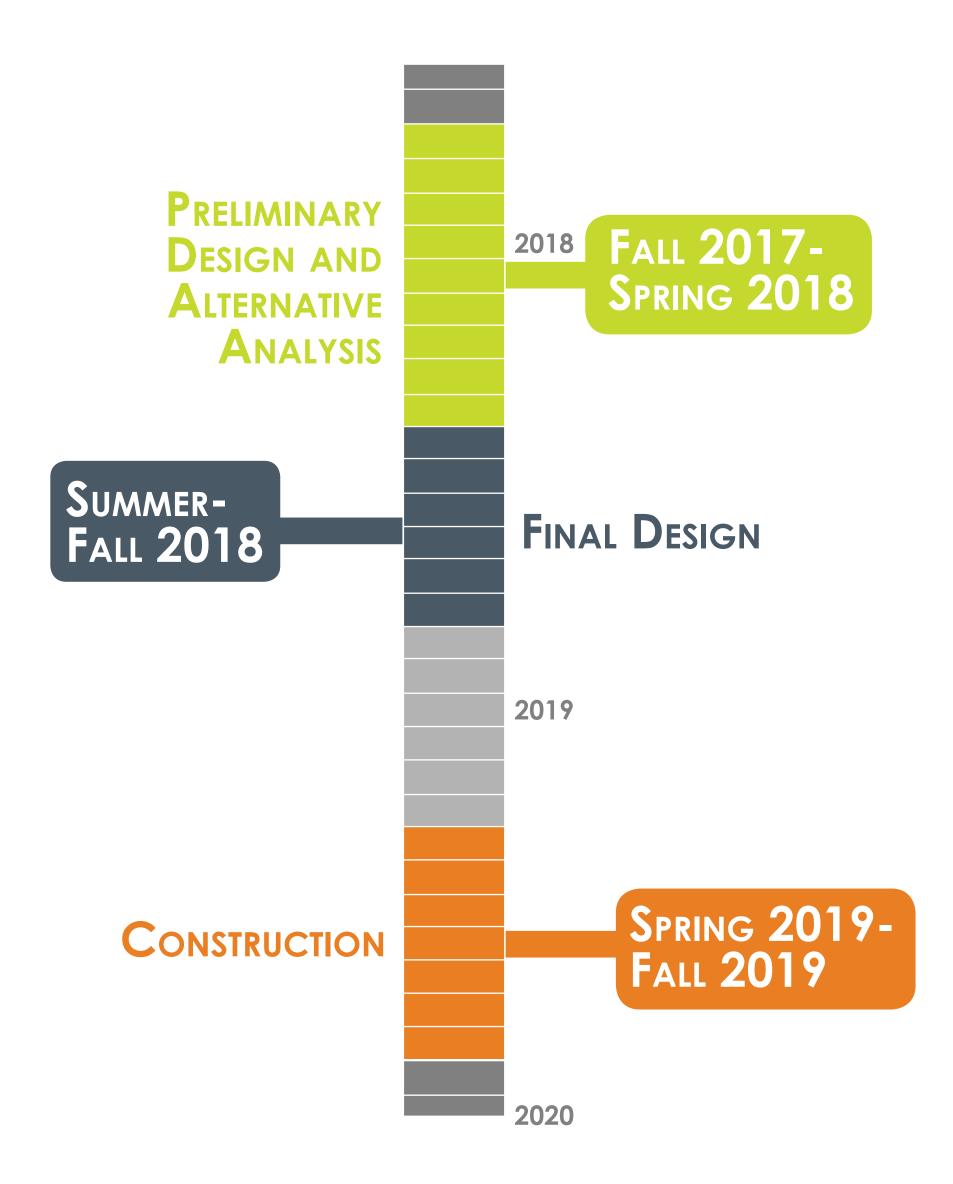
LYNDALE AVENUE RECONSTRUCTION PROJECT



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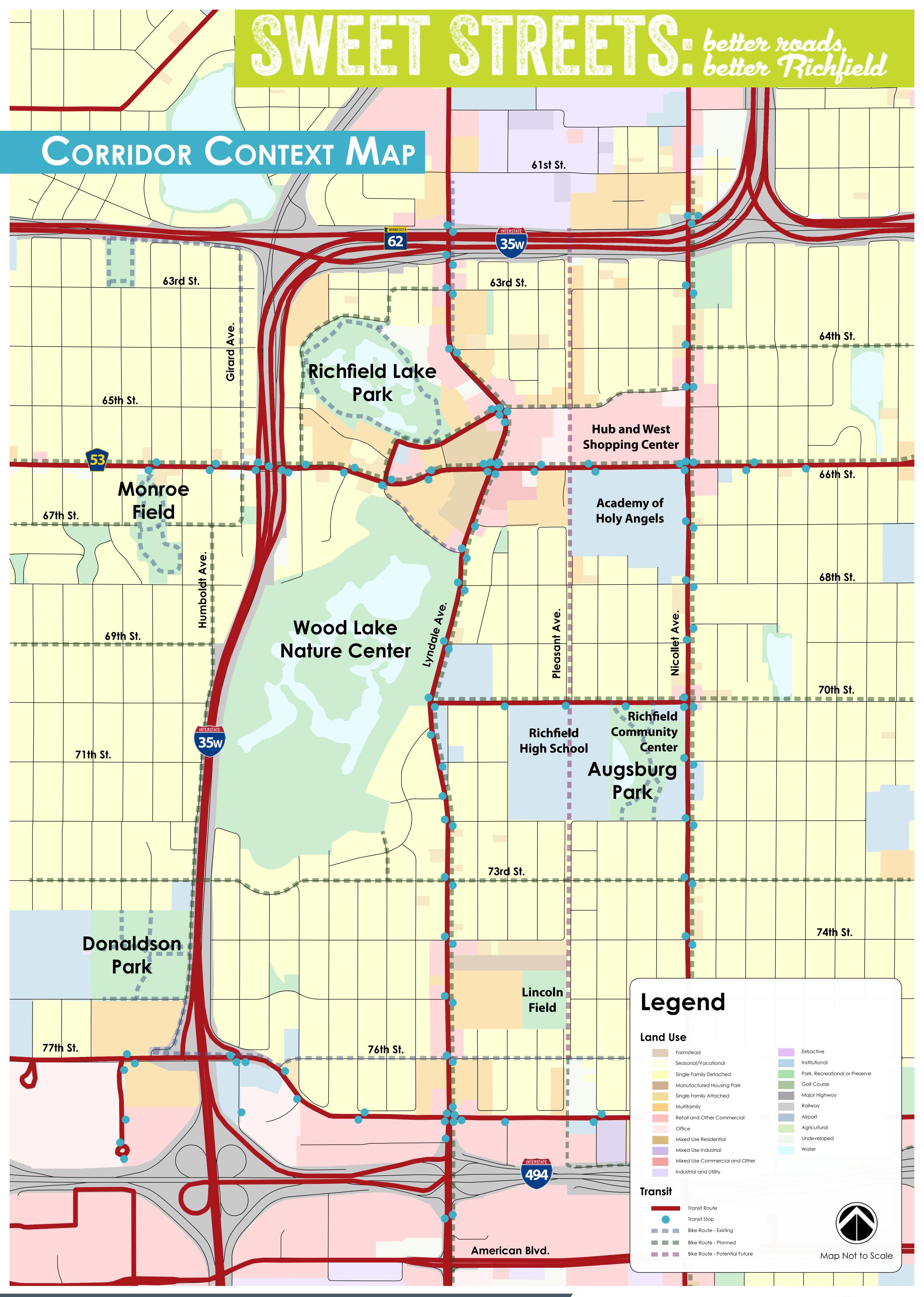
III. Project Timeline

The approximate timeline for this project is:









LYNDALE AVENUE RECONSTRUCTION PROJECT



WHAT WE'VE LEARNED

Common Themes from Open House #1 & #2 (October/November 2017)

INPUT RECEIVED

- Sidewalks are too close to the roa
- Sidewalks are not well-maintained
- Not enough space to store snow
- High traffic volumes and speeds r crossing the road difficult
- Traffic is noisy and sometimes cau vibrations/impacts to property
- Traffic volumes and speeds discoubicycling
- Not enough space for bicycling
- Too much delay and congestion
- High traffic volumes make it difficutors the corridor and turn from/o corridor
- Signal Timing slows down corridor
- Signal Maintenance issues
- Not enough parking near business

Lyndale Avenue Reconstruction Project



	Users Affected	Po
adway d making Jses	Pedestrians Transit Users Adjacent Property Owners	 Pedestrian along or a for a bus Poor main difficult, so sidewalks Unhappy h Compromi
urage	Bicyclists	 Bicyclists d corridor Those who
eult to onto the traffic	Drivers	 Affects modulated and a straight of the straight of t
SSES	Parking	 Unhappy k Neighborh parking

TENTIAL RESULT

ns do not feel safe walking across the corridor, or waiting

tenance makes walking people don't use the

homeowners nised sense of community

do not feel safe in the

b may wish to bike, do not

obility and travel time; ay seek alternative routes eighborhoods crashes/conflicts

business owners & patrons hood impacts from overflow





ADDRESSING THE PROBLEM

Combining the Guiding Principles and public input, we've identified the following:



COMMUNITY PROBLEM STATEMENT:



GOAL: TO ADDRESS SAFETY IN DESIGN THROUGH **CONSIDERATION OF:**

- points.

LYNDALE AVENUE RECONSTRUCTION PROJECT



 Safety and comfort for pedestrians, transit users, bicyclists, and drivers is compromised and users are not satisfied with the way the existing road operates.

• Speed - Reduce vehicle speeds along the corridor.

Reduce crash severity by slowing traffic, reduce crashes by reducing conflict

 Reallocate Space - Allocate space for walking, bicycling, bus stops, parking, snow storage and green space while maintaining adequate traffic capacity for motor vehicles.





WHAT WE'VE DONE

CONDUCTED SPEED STUDIES:

- Vehicle travel speeds along Lyndale Avenue typically exceeded posted speed limits
- Travel time study shows corridor is not congested
 - AM Avg. Travel Time = 147 sec.; 30 MPH Avg. Speed
 - PM Avg. Travel Time = 138 sec.; 32 MPH Avg. Speed

SPEED ANALYSIS:

- Over 40% of traffic is speeding between 4am and 8pm
- Over 50% of traffic is speeding for 4 hours of the day

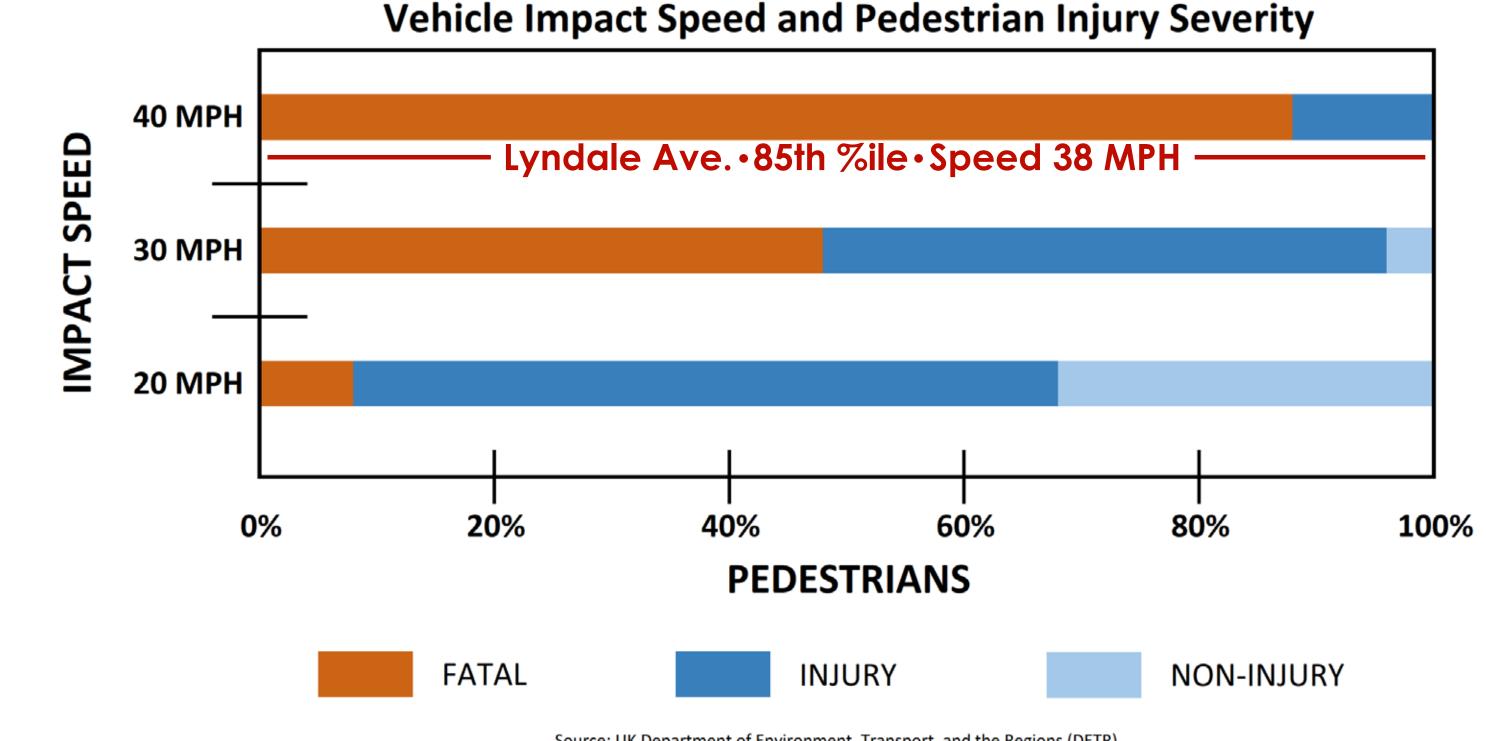
CONDUCTED CRASH ANALYSIS:

- Lyndale Avenue is below critical and statewide average crash rates, but exceeds the critical severity crash rate by **<u>3</u>** times the state average
- Intersection of Lyndale Avenue/Lakeshore Drive exceeds critical severity rate by <u>12</u> times the state average
- The intersections of Lakeshore Dr., 75th St. & 76th St. exceed state average crash rates
- Crashes within business area warrant access control

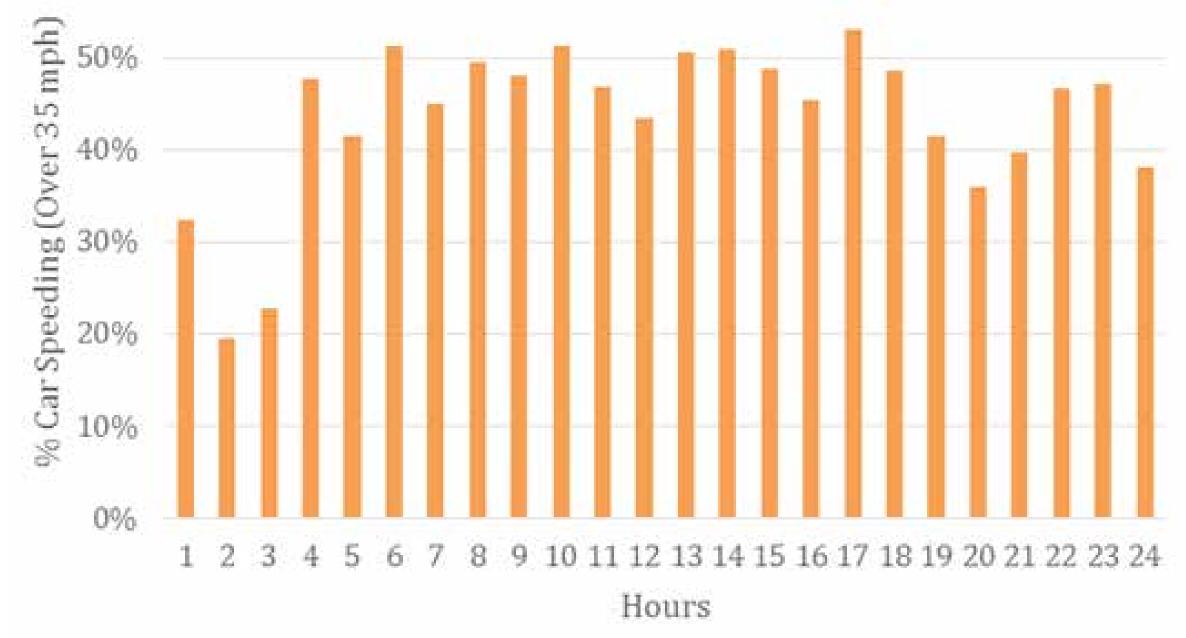
As speeds increase, the number of pedestrian fatalities also increases.

LYNDALE AVENUE RECONSTRUCTION PROJECT

Figure 2. Vehicle Impact Speed and Pedestrian Injury Severity



in. (2)40% 10% 8 0%





Source: UK Department of Environment, Transport, and the Regions (DETF

Figure 1. Percent of Vehicles Traveling Over the Speed Limit







EVALUATION PROCESS

- **ENVIRONMENT** Provide green space
- **MAINTENANCE** Provide room for snow storage



V PEDESTRIAN Improve pedestrian experience both across & along the roadway

RECREATIONAL BICYCLING Provide space for comfortable recreational bicycling

COMMUTER BICYCLING Provide dedicated space for commuter bicyclists

VEHICLE Reduce the frequency and severity of crashes, maintain mobility along and across the roadway

V PARKING Provide vehicle and bicycle parking for better access to businesses and homes along the corridor

LYNDALE AVENUE RECONSTRUCTION PROJECT

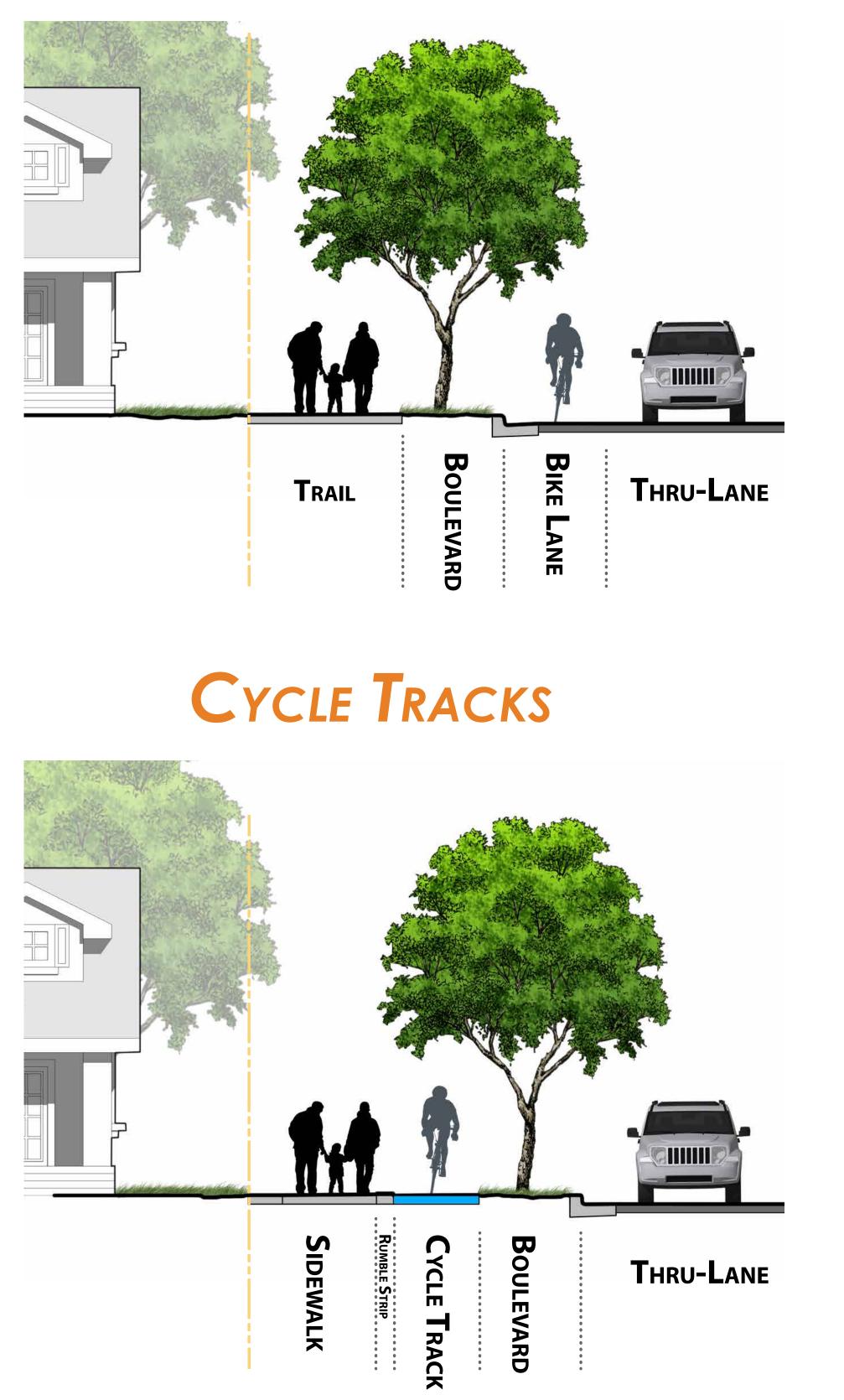






BICYCLE ALTERNATIVES

BIKE LANES

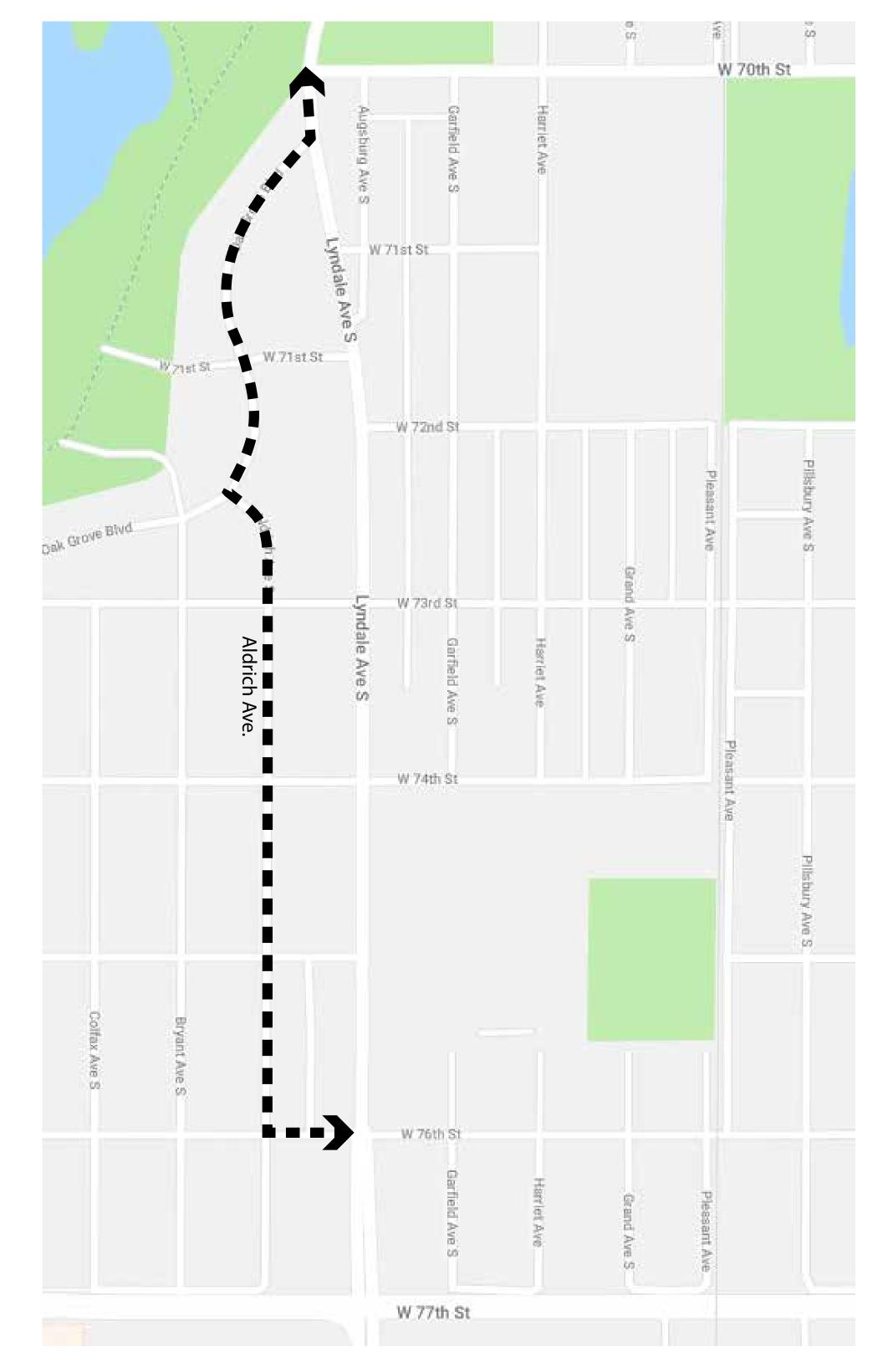


Re-rout Cycles to Aldrich

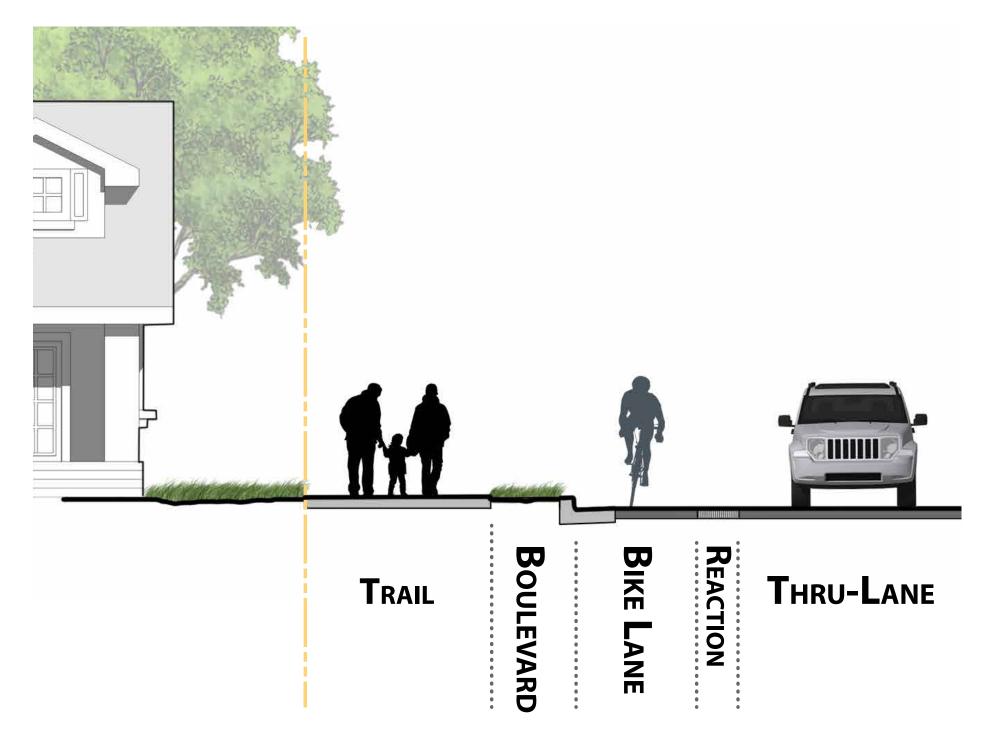


BUFFERED BIKE LANES

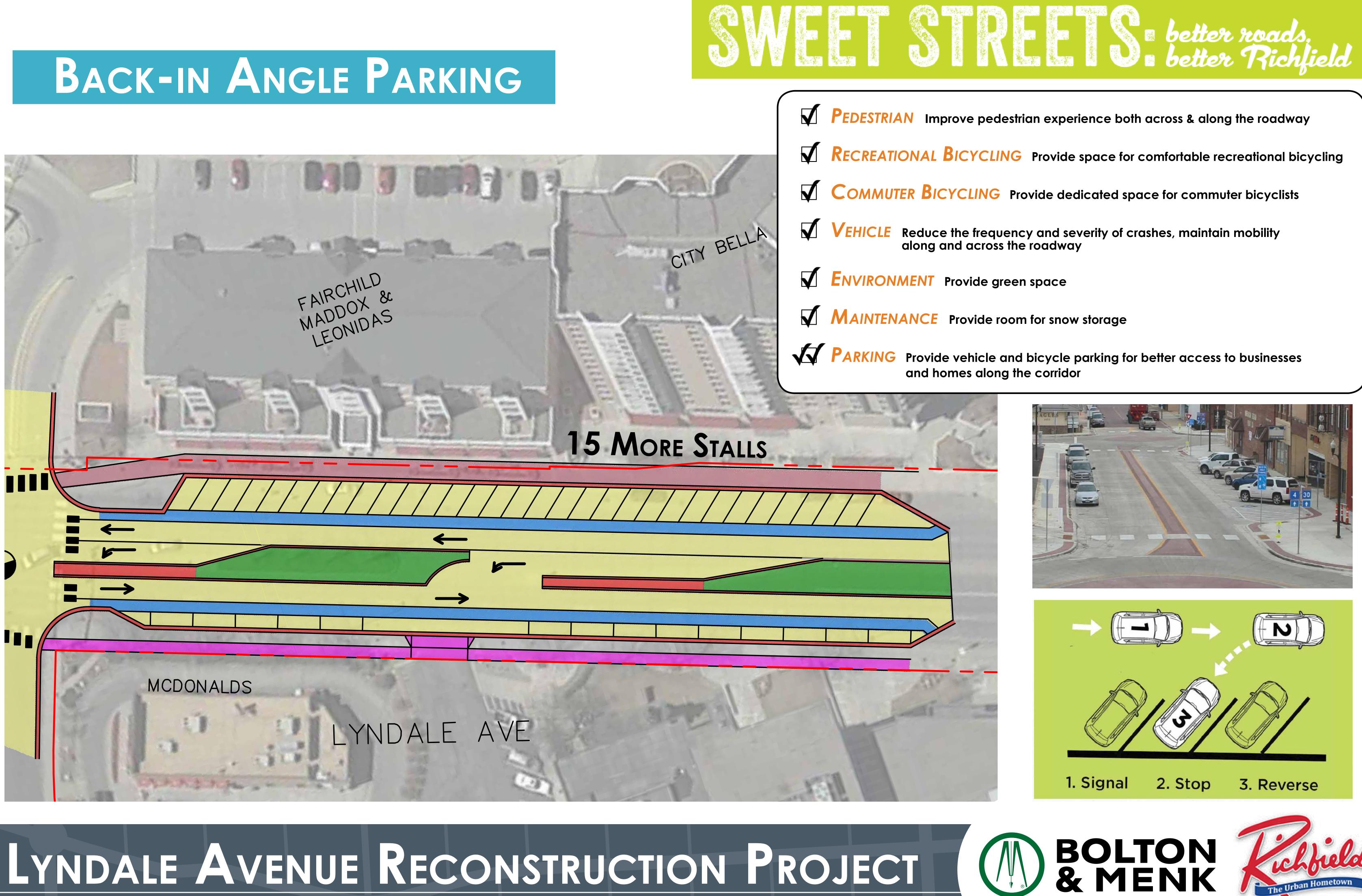




Lyndale Avenue Reconstruction Project







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