

Oak Park Bike Plan Update









DRAFT



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The project team would like to acknowledge the time and contributions of the following groups along with all the community members that gave their time and input to help shape this Bike Plan Update.

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The Oak Park Bike Plan Update builds on the Village's foundational work over the past two decades in creating a safer and more accessible community to bike. The Bike Plan Update serves as an update to previous bicycle planning efforts while setting out to achieve a welcoming network to support a continually growing bicycle culture.

PLAN OBJECTIVES

By bringing together perspectives across the Oak Park community, this plan defines the Village's objectives for growing and maintaining a bicycle network today and into the future:

- This Bike Plan Update is the next generation plan for the Village. Oak Park is ready to start taking on more ambitious infrastructure to support a continually growing bicycle culture.
- This is an All Ages and Abilities plan, meaning we are focused on a network where old residents, young residents, and less-confident cyclists see bicycling as a safe and comfortable option.
- This plan aims to provide specific **infrastructure recommendations** with prioritized timelines and cost estimates to help guide implementation.
- This plan will surface **ambitious and creative ideas** for the community to give their feedback on.

ENGAGEMENT SUMMARY

The Bike Plan Update network was the result of input from community members, community groups, Village staff, and stakeholders. There was a lot of feedback about the growing number of youth traveling by bike and the need to make bicycling safer for children in Oak Park. It was consistently heard that bike safety and traffic calming should be prioritized around schools and parks and that there is a strong desire for more bicycle infrastructure to improve the sense of safety and comfort, especially protected bike lanes. Additionally, it was highlighted that improvements are needed at intersections where neighborhood streets cross major streets.

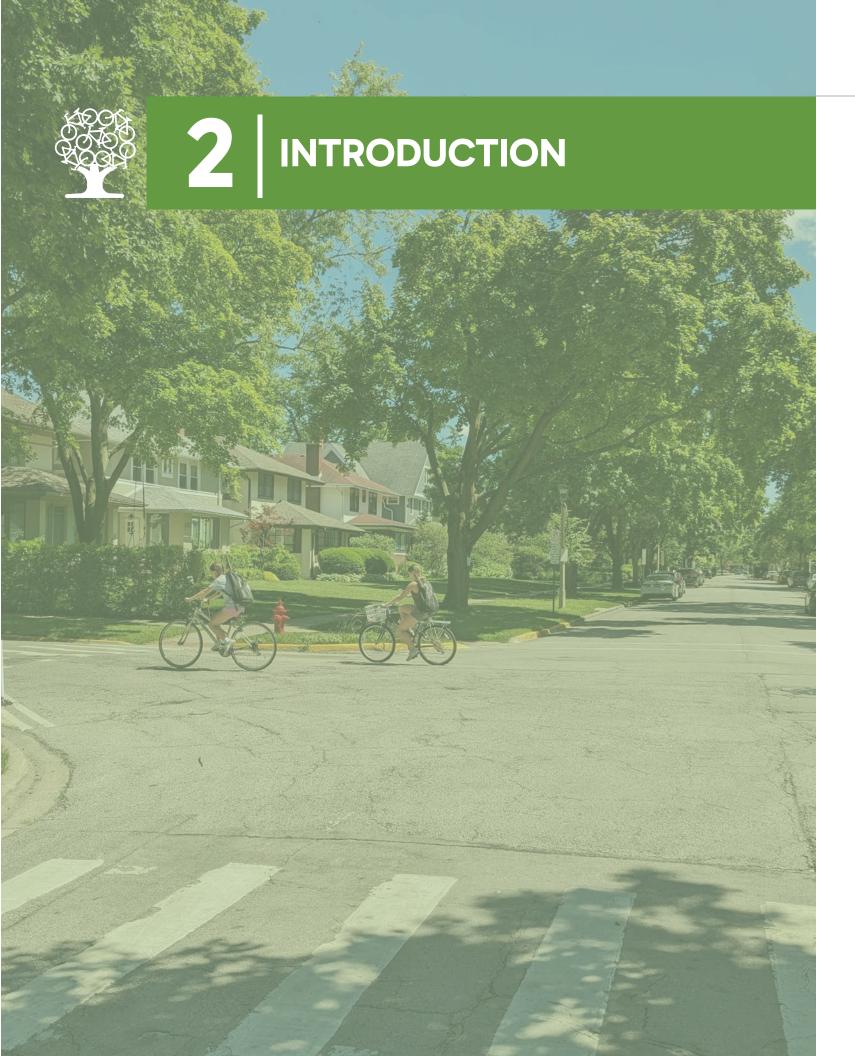
NETWORK UPDATES

The Bike Plan Update network recommendations detail actions along 20 corridors we will pursue over the coming years, with short-, mid-, and long-term timelines. To meet the plan's objectives, we must act on different scales – at the intersection, corridor, and Village-wide while considering regional connections. While this plan focuses on infrastructure, we will embrace a holistic approach. The Village must upgrade our infrastructure, test new street designs, and continue to support new policies and programs that promote a culture of safety.

BIKE SHARE ANALYSIS

Assessing past trends and the current state of the shared micromobilty industry, the Bike Plan Update provides initial information and recommendations intended to help the Village of Oak Park decide whether and how to pursue future bikeshare service in the Village.





PROJECT BACKGROUND, PROCESS, AND PURPOSE

Oak Park's first bicycle plan set the Village's goals to increase bicycle use and cultivate a more bicycle-friendly community. Over the years, the Village has advanced its goals, pioneering a Neighborhood Greenway plan, installing bicycle infrastructure, and building a bicycle culture. The Oak Park Bike Plan Update builds on the strong groundwork established over the past two decades. This plan serves as an update to previous bicycle planning efforts while setting out to achieve a bike network welcoming to people of all ages and abilities.

By analyzing various data, studying successful best practices, collaborating with stakeholders, and engaging with community members, Oak Park has created a **plan update that will guide the evolution of its bicycle network and system** for the next 10 years.

Oak Park's first comprehensive bike plan was published in 2008, followed by the 2015 Neighborhood Greenways plan. This update is the **next generation plan** for the Village. Oak Park is ready to start taking on more ambitious infrastructure to support a continually growing bicycle culture. This is also not the last bike plan ever, but it lays out the next steps for the Village.

This is an **all ages and abilities plan**, meaning we are focused on a network where older residents, younger residents, and less-confident bicyclists see bicycling as a safe and comfortable option. We have heard a lot about a growing number of children in Oak Park bicycling. This plan needs to establish streets and bikeways that are safe for children.

PLANNING PROCESS

Data Collection & Analysis

Stakeholder Meetings & Focus Groups

Online Engagement

Transportation
Commission
Engagement

Draft Network Recommendations

Draft Bike Share Study

Community Open House

Transportation Commission Engagement **Draft Report**

Final Report

Transportation
Commission
Engagement

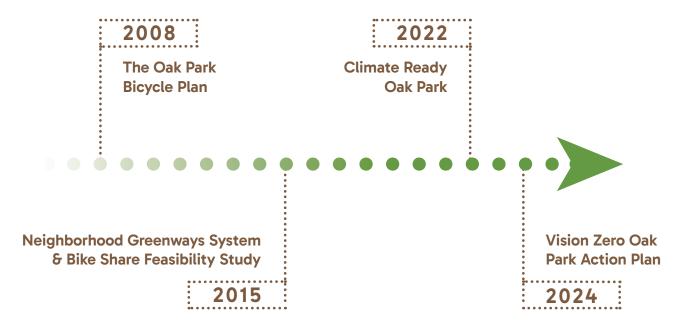


INTRODUCTION

EXISTING AND PAST PLANS REVIEW

The Village of Oak Park has a strong foundation of planning to build upon. Four relevant plans served as guideposts throughout the Bike Plan Update planning process:

OAK PARK PLAN OVERVIEW



VILLAGE OF OAK PARK PLANS

OAK PARK BICYCLE PLAN (2008)1

The original Oak Park Bicycle Plan laid out goals to increase bicycle use and make Oak Park a more bicycle-friendly community. The plan envisioned a safe, accessible, and connected bikeway network that would ensure every resident and key destination are within two blocks of a designated east-west or north-south bikeway. The plan recommended bike lanes, shared lane markings, and bicycle boulevards tailored to the specific needs of each street while also planning for complementary infrastructure such as signage and bicycle parking.

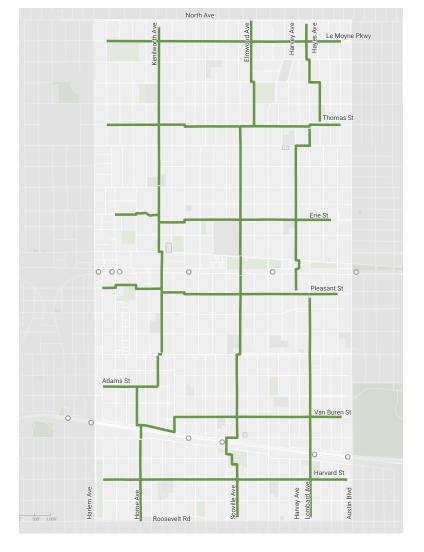
The plan also set forth programmatic and educational campaigns, such as Safe Routes to School and Bike to Work Day, that would raise awareness and promote greater bicyclist safety. The robust series of network recommendations helped further a vibrant, multimodal transportation environment and set the stage for the current updates to the Village's growing bicycle culture.

OAK PARK NEIGHBORHOOD GREENWAYS SYSTEM STUDY & BIKESHARE FEASIBILITY STUDY (2015)²

This study built on the progress of the 2008 Bicycle Plan by providing insights on how to create a family-friendly, inclusive, and sustainable bicycling environment in Oak Park. A centerpiece of the plan is the development of Neighborhood Greenways, a network of low-traffic, residential streets designed to prioritize bicycle travel and improve safety for cyclists of all ages and abilities. These greenways are intended to calm vehicular traffic, enhance street crossings, and provide seamless connections to key destinations like schools, transit hubs, and local businesses.

The study identified an initial series of east-west and north-south routes and a toolbox of infrastructure components that can help prioritize bike travel through the community. Separately, this study also explored the feasibility of implementing a bike share system in Oak Park by profiling key destinations, analyzing local demand, and considering criteria for future station siting.

AT A GLANCE: PROPOSED NEIGHBORHOOD GREENWAYS



INTRODUCTION

CLIMATE READY OAK PARK (2022)3

The Climate Ready Oak Park plan outlines a bold, long-term vision for achieving a net-zero greenhouse gas emissions community by 2050 while fostering resilience, equity, and environmental justice. Key commitments include reducing community-wide greenhouse gas emissions by 60% by 2030, achieving net-zero emissions by 2050, and allocating 40% of climate funding to the most vulnerable populations.

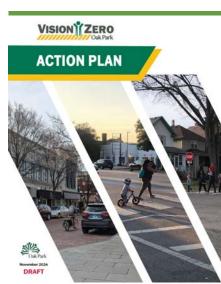
The Climate Ready Oak Park plan emphasizes the critical importance of reducing transportation-related emissions, which account for 27% of the community's carbon footprint, and highlights bicycling as a key strategy to transition local trips and commutes to low-carbon, active modes. Supporting more bicycling in Oak Park can also enhance community resilience by improving air quality and promoting equitable mobility choices for all residents.

VISION ZERO OAK PARK ACTION PLAN (2025)4

This Action Plan commits the Village of Oak Park to eliminate fatalities and serious injuries from traffic crashes while creating safer, more connected, and more equitable streets for all. The plan prioritizes improvements along high-risk corridors by expanding traffic calming measures and creating more walkable and bikeable neighborhoods.

The plan highlights equity as a cornerstone of its approach to safer streets, acknowledging that Black and Hispanic or Latino community members are significantly more exposed to traffic violence than White residents. Additionally, bicyclists of any race are 12 times more likely to be involved in serious or fatal crashes than motorists – as a result, the plan centers people bicycling as vulnerable users that must be protected.





Additionally, the project team reviewed advocacy organization plans and reports, such as the Walk Bike Oak Park Safety Report District 97.11

NEIGHBORING COMMUNITY PLANS

FOREST PARK ACTIVE TRANSPORTATION PLAN (2011)⁵

The Forest Park Active Transportation Plan outlines a comprehensive approach to making walking, bicycling, and transit use safer and more convenient. Key goals include improving access to parks, schools, municipal buildings, commercial corridors, and regional trail connections while integrating with the bike networks of neighboring municipalities. Coordination with neighboring municipalities, including Oak Park, is prioritized to enhance regional connectivity.

RIVER FOREST BICYCLE PLAN (2020)⁶

The River Forest Bicycle Plan establishes a vision for a safe, comfortable, and defined network of bicycle facilities that accommodates all ages and abilities while connecting to key destinations within the Village, neighboring communities, Forest Preserves, and regional trails. The plan supports the Village's Comprehensive Plan goal of creating a multimodal network that is safe, sustainable, and supports both residential neighborhoods and commercial areas. Recommendations include on-street and off-street bike facilities designed for River Forest's roadways, prioritizing connectivity to schools, parks, transit stations, and commercial centers. As Oak Park's neighbor to the west, connections to River Forest are prioritized to enhance intercommunity bicycling opportunities.

BERWYN ACTIVE TRANSPORTATION PLAN (2011)7

The Berwyn Active Transportation Plan focuses on enhancing walking, bicycling, and transit access through targeted infrastructure improvements, policies, and programs. Prioritizing connections to neighboring communities, including Oak Park to the north, the plan emphasizes creating a safe, convenient active transportation network. Key recommendations include wayfinding signage, bike route markings, improved crossings at critical intersections, and safer access to schools, parks, the Depot District, MacNeal Hospital, and Metra stations. Policies such as Safe Routes to School, a Complete Streets policy, and ordinances for bike parking and bike lane protection aim to facilitate active transportation. Programming highlights education, community events, and enforcement to encourage use and awareness. Implementation includes a phased timeline, funding strategies, and engagement with stakeholders to achieve the plan's long-term goals.

CHICAGO DEPARTMENT OF TRANSPORTATION CYCLIST STRATEGY UPDATE (2023)8

The Chicago Cycling Strategy outlines a comprehensive, equitable, and dynamic approach to expanding the city's cycling network, prioritizing connections within neighborhoods and to regional destinations, including Oak Park and other adjacent communities. It emphasizes creating low-stress bikeways—protected bike lanes, neighborhood greenways, and off-street trails—to serve all users and trip types. With a goal of adding 150 miles of bikeways, the plan focuses on filling gaps, upgrading existing infrastructure, and expanding access, particularly on the south and west sides, where bike facilities have historically been underdeveloped. Implementation leverages community partnerships, local and regional funding, and advanced design standards, including protected lanes with concrete barriers



INTRODUCTION INTRODUCTION

and bus boarding islands. The strategy reflects Chicago's commitment to building the best bike network in the county and making bicycling a safe, accessible, and integral part of the city's transportation system.

REGIONAL PLANS

COOK COUNTY BIKE PLAN (2023)9

The Cook County Bike Plan outlines strategies to improve bicycling conditions and expand access to low-stress bike routes across the county, building on the vision of Connecting Cook County. Key goals include increasing everyday bicycling by connecting bike infrastructure to major destinations, creating a core low-stress bike network, and promoting equitable investments in bike lanes and paths. The plan emphasizes supporting municipalities in designating bike routes on residential streets and ensuring connections to neighboring communities, including Oak Park. Implementation focuses on constructing bike infrastructure along County roads, conducting feasibility studies for off-street trails, and enhancing safety at intersections of bike routes and major roads. The plan prioritizes creating comfortable, accessible routes, while addressing challenges such as limited local resources and historical underinvestment in some areas. Key routes recommended in Oak Park and connecting to other neighboring communities include Washington Boulevard, Lombard Avenue, and Augusta Street, among others.

CMAP ON TO 2050¹⁰

CMAP's ON TO 2050 plan emphasizes creating a safe, equitable, and resilient multimodal transportation system. It prioritizes Complete Streets policies, safety-focused street design, and expanded active transportation networks to improve mobility and connectivity. The plan advocates for reducing roadway speeds to protect pedestrians and bicyclists, integrating active transportation into broader mobility systems, and fostering collaboration across jurisdictions to achieve these goals.

EXISTING PROGRAM REVIEW

TRAFFIC CALMING TOOLBOX

Since the Neighborhood Greenways Systems Study (2015), the Village developed a traffic calming toolbox and petition process in which residents can help identify neighborhood traffic issues.¹² Resident requests go through public review, the Transportation Commission, and Village Board. Locations along bikeways are given supplemental points in the scoring system. Through this process, the Village has installed various treatments along neighborhood streets.

COMMUNITY EVENTS, EDUCATION, AND ADVOCACY

The Oak Park community holds various programs and events educating, advocating, and promoting safe bicycling. From Bike Walk Oak Park advocacy to Oak Park Cycle Club and Oak Park Kidical Mass bicycle rides, there is a movement for a welcoming, family-friendly bicycle community and culture.

EXISTING POLICY REVIEW

license decal, which shall be attached to the bicycle

Department [...] which may be carried by the owner and displayed when requested by a police officer

to verify ownership of the bicycle. (1981 Code; amd.

and an identification card as prescribed by the Police transfer of ownership.

The Village of Oak Park Municipal Code, along with previous plans' policy recommendations, were carefully reviewed. Select, relevant municipal codes are included below.

SELECT MUNICIPAL CODES

EXISTING CODE NOTE **15-2-1:** A bicycle is defined as any device propelled There is no reference to electric bikes (e-bikes) or by human power upon which any person or persons other micromobility devices within the municipal may ride, having two (2) or more wheels, any of code. Municipalities throughout the country have which is more than sixteen inches (16") in diameter. updated definitions within codes to account for growing use of the mobility devices. Illinois has implemented a three-class system for e-bikes (Class 1, Class 2, Class 3) based on pedal assist and speed.¹³ 15-2-6(B): No person fifteen (15) or more years of The ordinance requires that parent(s) or guardian(s) age shall ride a bicycle upon any sidewalk in any accompanying children on the sidewalk are zoning district. required to ride in the street. Some municipalities allow exceptions to sidewalk riding where adults accompanying a child are allowed to ride on sidewalks.14 15-2-7(A): Every person operating a bicycle upon a The Neighborhood Greenways System Study (2015) roadway shall ride as near to the right hand side of recommended to allow bicyclists to use the full the roadway as practicable exercising due care when lane on a Neighborhood Greenway. In Chicago, passing a standing vehicle or one proceeding in the relevant pavement markings and signs indicate a same direction. bicyclist's right to use the full travel lane.15 15-2-7(C): Persons riding bicycles upon a roadway The Neighborhood Greenways System Study shall not ride other than single file except on paths (2015) recommended to allow bicyclists to ride two or parts of roadways set aside for the exclusive use abreast on a Neighborhood Greenway, or roadway specifically designed for bicycles. of bicycles. Many states and municipalities require a bicycle to **15-2-11(B):** No person shall operate a bicycle unless it is equipped with a bell or other device capable of be equipped with a bell (Georgia, New Jersey, New giving a signal audible for at least one hundred feet York, South Carolina). However, many state and (100'), except that a bicycle shall not be equipped local governments have repealed the requirement. with, nor shall any person use upon a bicycle, any While the use of a bike bell is encouraged, the siren or whistle. (1981 Code) repeal prohibits ticketing if a person does not have a bike bell. 15-2-13(B): Whenever authorized signs are erected This ordinance requires bicyclists to dismount indicating that no right or left turn or a turn in the bicycles at traffic diverters which are aimed to guide vehicular traffic versus bicyclists. opposite direction is permitted, no person operating a bicycle shall disobey the direction of any such sign, except where such person dismounts from the bicycle to make any such turn, in which event such person shall then obey the regulations applicable to pedestrians. (1981 Code) 15-2-16: The Village Clerk [...] is authorized to issue a The Village Clerk no longer oversees bicycle

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license issuance, retention of bicycle records, nor

CURRENT INFRASTRUCTURE CONDITIONS

The proposed network updates within this plan build off of the Village's existing bike network and carefully consider other roadway factors including but not limited to vehicle traffic volumes, emergency routes, and street jurisdiction. The following pages provide maps to reflect roadway factors.

EXISTING BICYCLE NETWORK

The existing bicycle network offers nearly ten miles of bikeways, including four miles of bike lanes and one mile of protected bike lanes. There are several upcoming implementation plans for various types of bikeways that originated from previous planning efforts.

VEHICLE TRAFFIC VOLUMES

Vehicular traffic volumes impact a bicyclist's sense of safety and comfort. The average daily traffic volumes were evaluated in developing network recommendations, and guided where facilities should go and what type of facilities should be installed.

EMERGENCY ROUTING

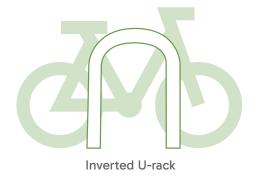
Emergency and fire routes were reviewed to ensure recommendations do not restrict medium- or high-use routes.

ROAD JURISDICTION

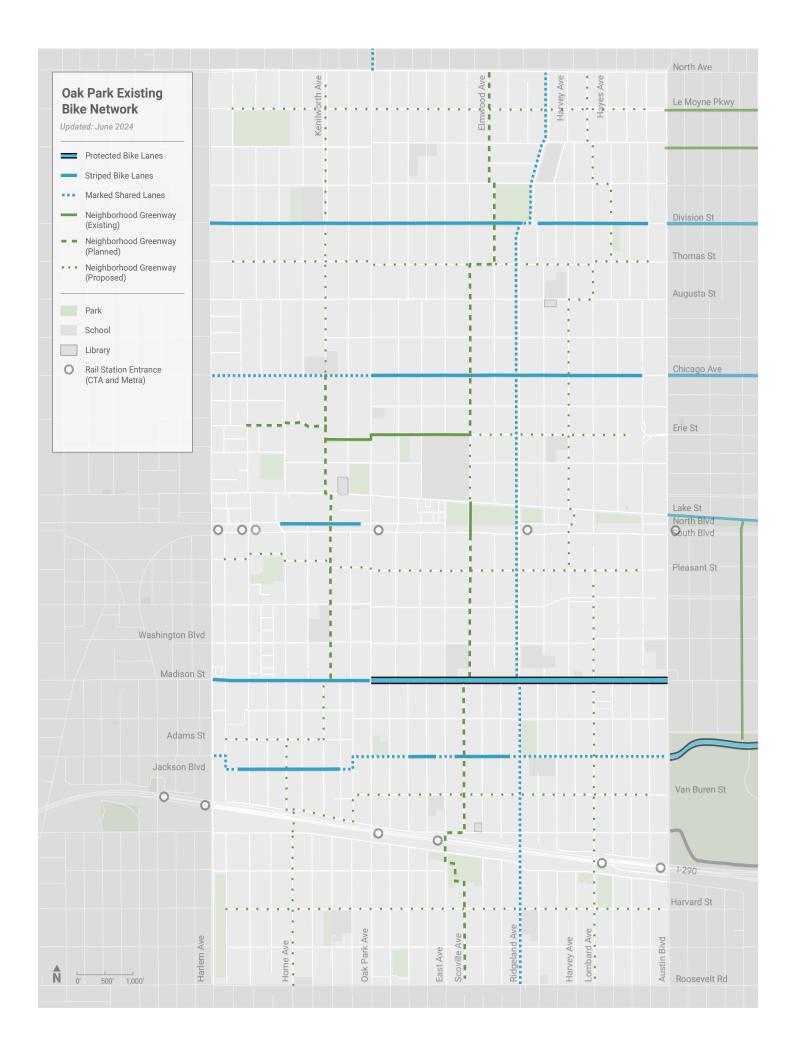
The majority of streets within Oak Park are owned by the Village, with the exception of state-owned roads (North Avenue, Harlem Avenue, parts of Ridgeland Avenue, Washington Boulevard, and Roosevelt Road) and the east side of Austin Boulevard (shared with the City of Chicago). The jurisdiction map visualizes the routes managed by the Illinois Department of Transportation (IDOT). Improvements along streets not owned by the Village will require additional coordination and communication with the State or City of Chicago.

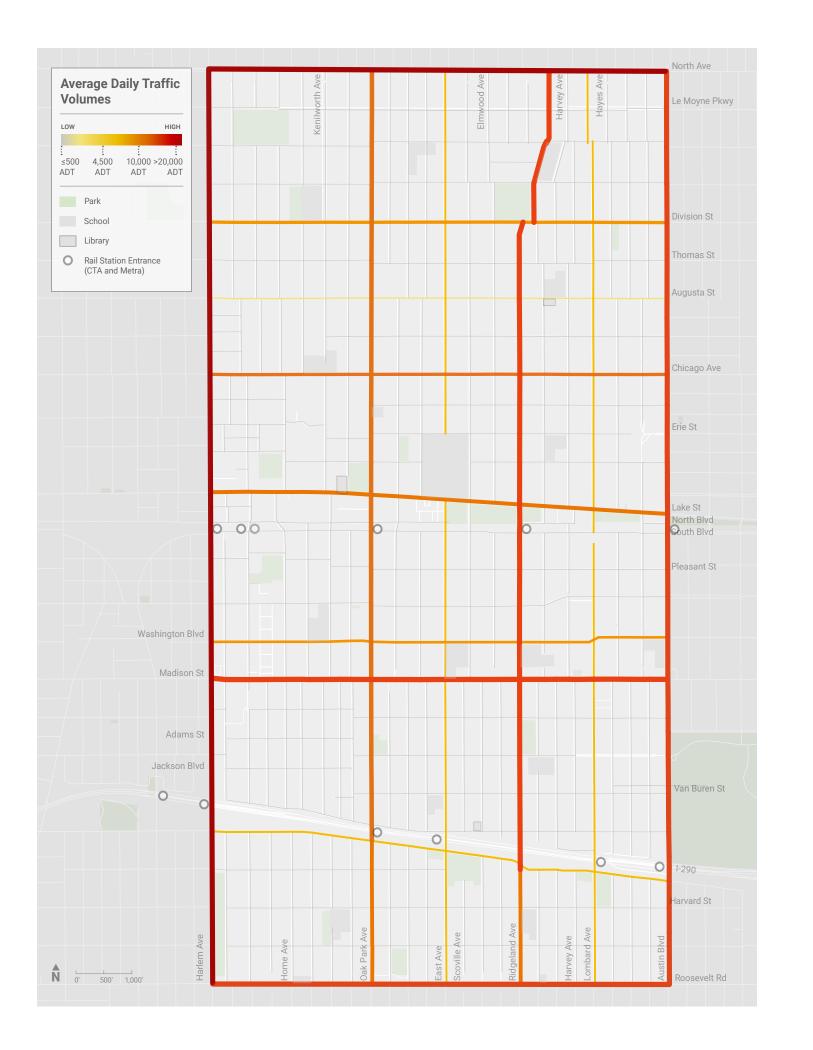
BIKE RACKS

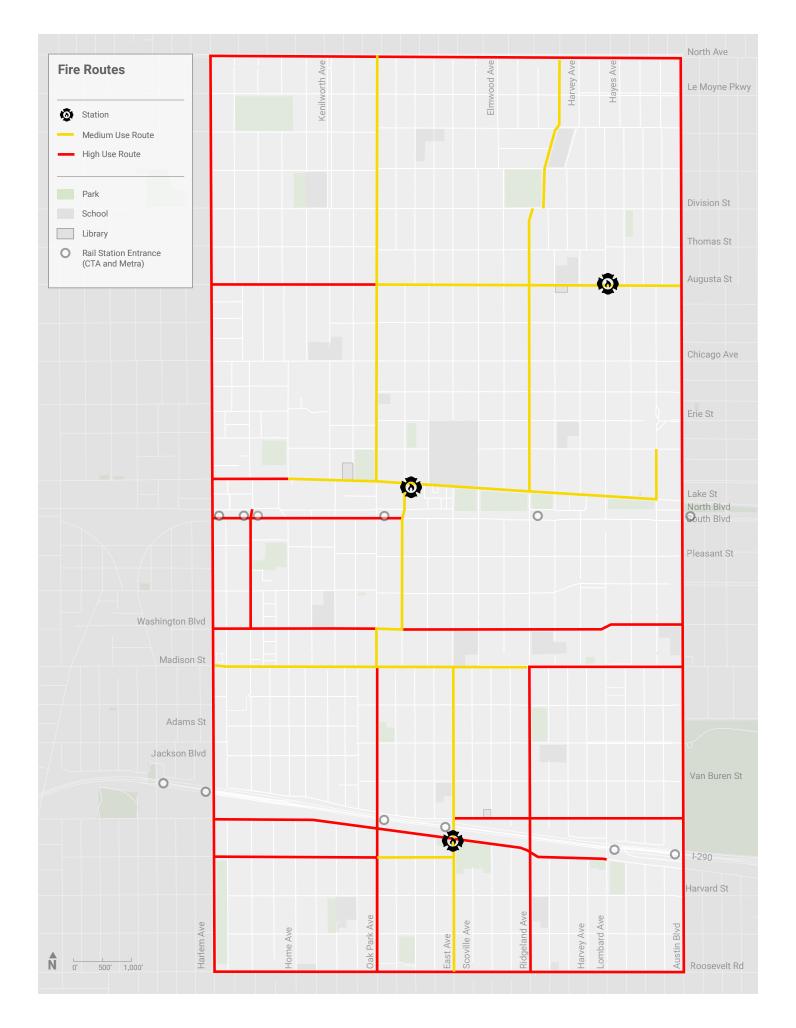
Over 700 off-street public bike racks have been installed throughout the Village primarily along commercial corridors and adjacent to public properties, such as parks and libraries. Inverted U-racks are the preferred rack for short-term bike parking throughout the Village, while stainless steel circle racks are preferred in Downtown Oak Park.¹⁶

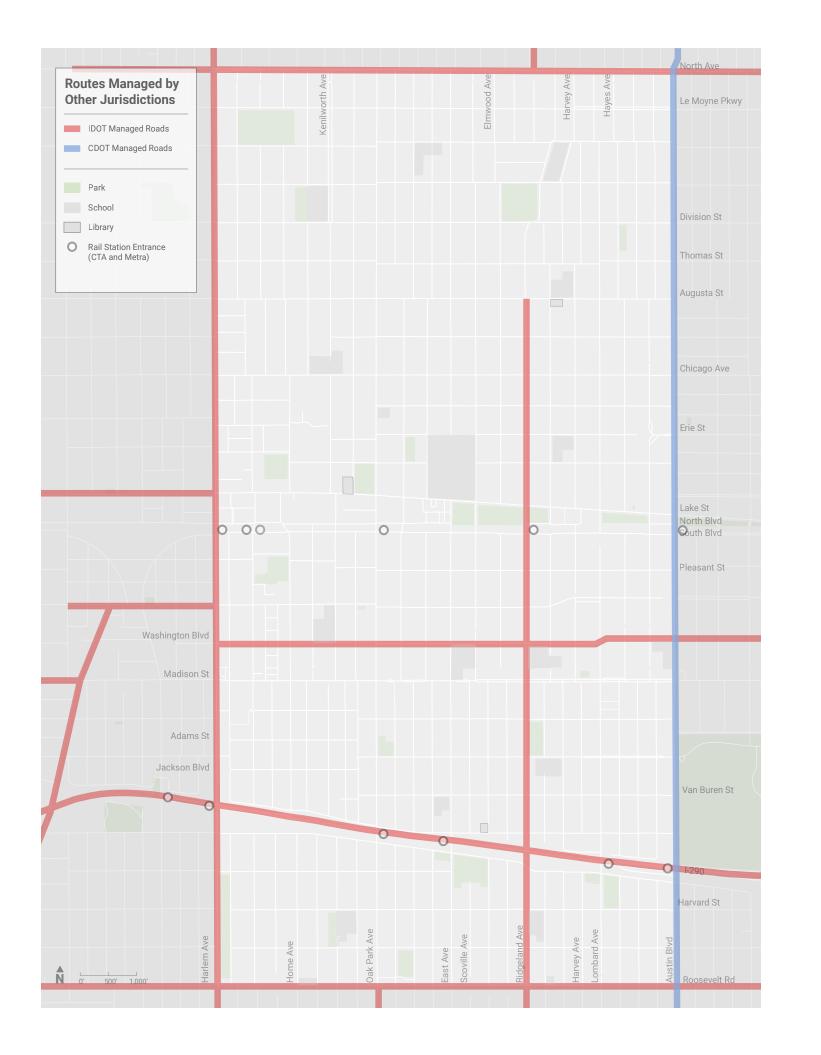


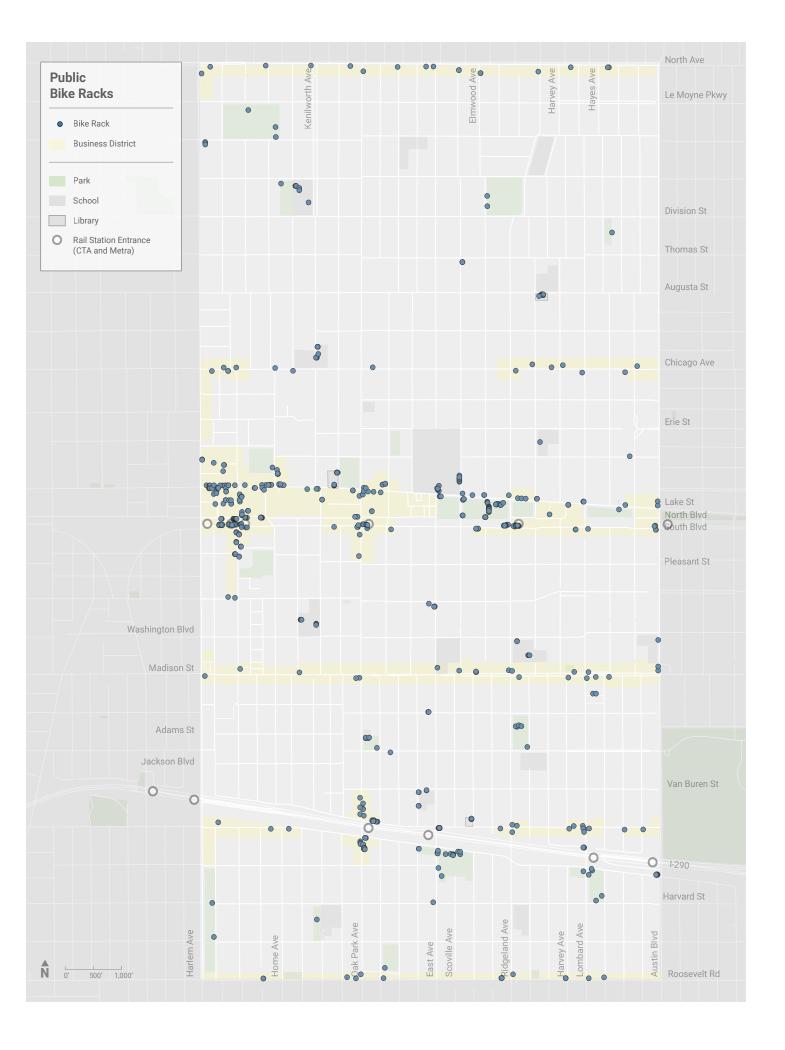














CONCURRENT PLANNING EFFORTS

The project team learned about opportunities and challenges around bicycling in Oak Park through various forms of stakeholder and community engagement. The project team launched an online interactive map and survey and had conversations with residents, advocates, Village staff, the Transportation Commission, and school district representatives.

VISION ZERO SAFETY ACTION PLAN

The Village of Oak Park underwent a concurrent planning process, Vision Zero Oak Park, to develop a safety action plan. The project team reviewed Vision Zero Oak Park's engagement for relevant active mobility feedback. Overall, engagement efforts found there is a desire for more bicycle infrastructure to improve the sense of safety and comfort for people bicycling, and to prioritize bicycle safety near schools and parks. Many community members shared feedback around the need for safer driving behavior to create a safer, more welcoming environment for people bicycling.

WHAT THEY HEARD

- I would never have biked on Madison Street [before the protected bike lane] but I do now.
- Traffic calming in neighborhoods, targeting diverted rush hour traffic.

OTHER PLANNING EFFORTS

Throughout the planning process, the project team communicated with Village staff about planned and proposed projects. Concurrently, the Village conducted the Ridgeland Avenue Bike Lane Feasibility Study independent from the Bike Plan Update. At the December 9th, 2024 Transportation Commission meeting, the Transportation Commission recommended to terminate the current feasibility study and not pursue dedicated or protected bike lanes on Ridgeland Avenue at this time. They recommended Ridgeland Ave be re-evaluated for bike lanes in the future when there is a more robust bicycling culture to help justify and support traffic, parking, and access impacts.

STAKEHOLDER ENGAGEMENT & FEEDBACK
STAKEHOLDER ENGAGEMENT & FEEDBACK

TRANSPORTATION COMMISSION

The project team met with the Transportation Commission four times throughout the planning process. Two representatives from the Plan Commission were in attendance at these meetings. In July 2024, the project team introduced the planning effort and learned more about current and future opportunities and challenges for bicycling in the Village. In October 2024, the project team reviewed and received feedback on draft short-, medium-, and long-term networks. In January 2025 and February 2025, the project team presented the draft Oak Park Bike Plan Update. And, in March 2025, a final version was presented.

Overall, the Transportation Commission emphasized the Bike Plan Update should seek to make streets safer for everyone, prioritize bicycle safety around schools, identify intersection improvements along the bicycle network, and understand how bike share could be successfully implemented in Oak Park.

PUBLIC ENGAGEMENT

ONLINE ENGAGEMENT

The Village of Oak Park hosted a travel survey and interactive map on the Village's Engage Oak Park platform that received hundreds of responses. The travel survey asked community members about their bicycle habits, how comfortable they are bicycling on different types of streets, and experiences. In the interactive map, community members identified locations where they felt safe and comfortable bicycling, and vice versa. Overall, community members emphasized schools and parks as key destinations where safety, traffic calming, and the overall bike network should be prioritized.



Online engagement social media post





WHAT WE HEARD

- Protected bike lanes on busy streets and a truly connected network.
- My 6 year old just asked if he could bike to middle school when he's old enough. I couldn't think of a good route for him to do it safely.

KEY FINDINGS

- People feel bikeways need to be safer, especially for children. 70% of respondents with children living in their household felt unsafe about their children bicycling in Oak Park.
- Generally, people would like an easy-to-follow bicycle network of comfortable, low-stress streets. 66% of respondents said it wasn't always easy to figure out the safest and most comfortable streets to bike on. Meanwhile, most respondents, 87%, prefer to take an indirect route that keeps them on more comfortable and lower stress streets for bicycling.
- There is a desire for more bicycle infrastructure to improve the sense of safety and comfort for people bicycling. 55% of respondents said infrastructure was most important to make Oak Park a better place to bike, followed by 20% who listed traffic enforcement.
- Improvements are needed at intersections where neighborhood streets cross major streets. Two-thirds of the locations people identified as places where they feel unsafe or uncomfortable bicycling were along major streets.

FOCUS GROUPS

The project team held two focus groups with Village residents. The project team asked focus group members about bicycling in Oak Park, strategies that could be used to improve the bicycling environment, and their familiarity with different types of bike facilities and infrastructure. Generally, focus group members highlighted schools as key locations for investment, encouraged traffic calming along neighborhood greenways, and supported more protected bike lanes throughout the network.

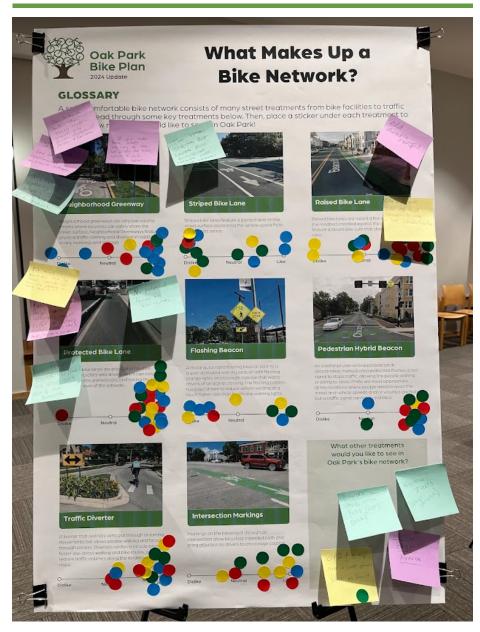
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STAKEHOLDER ENGAGEMENT & FEEDBACK
STAKEHOLDER ENGAGEMENT & FEEDBACK

COMMUNITY OPEN HOUSE

The Village and project team held a community Open House in October 2024. Community members shared feedback on the drafted short-, mid-, and long-term bicycle networks. Additionally, community members rated their support for various bicycle network treatments, such as flashing beacons, traffic diverters, and different types of bicycle facilities.

The project team listened to and collected comments on network routing, signals and crossings, facility types, and traffic calming which guided the refinement of network recommendations.



Community members shared feedback on bike facility treatments.





Project team and Village staff listened to community comments on draft short-, mid-, and long-term networks along with bicycle facility treatments.

WHAT WE HEARD

Definitely looking forward to seeing more traffic calming measures in neighborhoods. We need more infrastructure to slow speeds down.

ADDITIONAL STAKEHOLDER ENGAGEMENT

SCHOOL ENGAGEMENT

The project team met with staff from Oak Park River Forest High School (OPRFHS) and Oak Park Elementary School District 97 (D97) to understand key challenges and opportunities for bicycling to/from/near schools. OPRFHS staff shared that Scoville Avenue is the preferred bicycle route for students riding a bicycle to school. Meanwhile, D97 staff stressed the need for people driving to slow down along streets adjacent to schools, supporting traffic calming efforts.

NEIGHBORING COMMUNITIES

The Village and project team communicated with representatives from Village of River Forest, Village of Forest Park, and the City of Chicago about Oak Park's Bike Plan Update, the respective Villages' future plans for bicycle improvements, and opportunities for future collaboration. Future engagement will continue to reach out to and collaborate with neighboring communities, including the Town of Cicero and City of Berwyn.



LEVEL OF TRAFFIC STRESS

For over a decade, the Village of Oak Park has fostered a culture that supports bicycling. From neighborhood greenways to re-imagining Madison Street through protected bike lanes, Oak Park has and continues to invest in bicycle facilities. Yet, bicycling on many streets can still feel uncomfortable or stressful due to vehicle speeds, traffic volumes, or dangerous travel behaviors. The online survey found that 87% of respondents who bike prefer to take an indirect route that keeps them on lower-stress bikeways.

Creating a safe, comfortable, and low-stress bicycle network is necessary for fostering a bicycle environment that is friendly to people of all ages and abilities — including schoolaged children bicycling to schools, parks, and around town. Going forward, the Village will only plan for low- to lower-stress bikeways.

A low-stress bikeway is a facility, or street, that feels comfortable, safe, and friendly for any person riding a bicycle.

The stress level of a bikeway can be assessed through a 'level of traffic stress' (LTS) analysis, a quantitative approach that categorizes street segments based on factors such as speed limit, traffic volume, and the presence of a bicycle facility.¹⁷ While this analysis does not fully capture the lived experiences of people who bike, particularly at intersections, it guides the design and level of separation a planned bikeway needs.



Neighborhood greenway on Erie Street.



LEVEL OF TRAFFIC STRESS CATEGORIES













COMFORTABLE FOR MOST BICYCLISTS

COMFORTABLE FOR BICYCLISTS OF ALL AGES & ABILITIES

Level of Traffic Stress



HIGH

Level of traffic stress (LTS) typically scores a street based on four categories where LTS 1 is comfortable for bicyclists for all ages and abilities and LTS 4 is comfortable for the few fearless riders. This plan aims for bikeways that offer low-stress riding, LTS 1 or 2 facilities. As such, streets along the bike network with higher speeds or traffic volumes call for additional accommodations (traffic calming, physical barriers or separation, and intersection improvements).



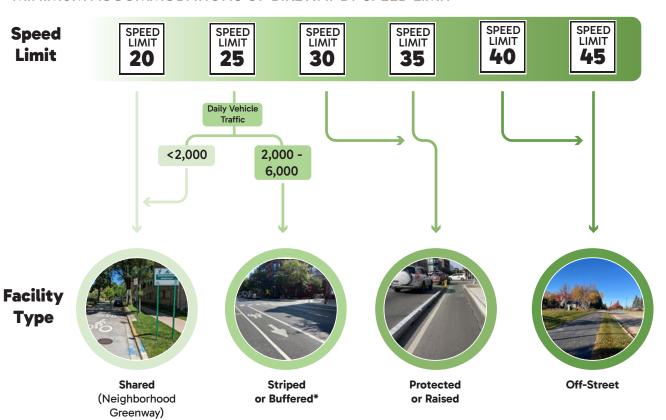


The images above show Madison Street before and after corridor improvements. To the left, the lack of a bicycle facility, 30 MPH speed limit, and number of travel lanes equated to a high level of traffic stress for people bicycling prior to improvements. To the right is a lower stress facility with fewer travel lanes, a parking protected bike facility, and a lower speed limit.

BIKEWAY TYPOLOGIES

Developing a low-stress bicycle network for all ages and abilities requires careful planning and design tailored to the context of each street. With a toolbox of resources at hand (previous planning efforts, existing conditions data, and engagement findings), the project team applied national best practice guidance to aid in determining what bicycle facilities may be most appropriate for a given street.

MINIMUM ACCOMMODATIONS OF BIKEWAY BY SPEED LIMIT



* Buffer recommended for daily vehicle traffic between 3,000 and 6,000

Adapted from the National Association of City Transportation Officials' (NACTO) Designing for All Ages and Abilities guide.18

As a companion to the bikeway selection criteria, the project team outlined bikeway typologies for implementing a comfortable network. The bikeway typologies presented in the following pages provide a description, best practice standards, and considerations for the respective bikeway tool. Additional treatments, from curb extensions to raised crossings, are expected to complement the typologies. For more information on the bikeway typologies and additional treatments, the National Association of City Transportation Officials (NACTO) provides useful guides and resources like the Urban Bikeway Design Guide, Designing for All Ages and Abilities: Contextual Guidance for High-Comfort Facilities, and Don't Give Up at the Intersection: Designing All Ages and Abilities Bicycle Crossings.

OFF-STREET TRAILS

An off-street trail (shared use path, sidepath) is a facility physically separated from vehicular travel - through an open space or barrier - and commonly shared by people bicycling, rolling, and walking. Off-street trails are recommended for streets with high vehicle speeds and/or traffic volumes. Compared to other types of facilities, off-street trails offer superior safety by providing physical separation that protects bicyclists from vehicle traffic, reducing the likelihood of crashes.19

STANDARDS & GUIDANCE²⁰

- Desired width: 10 to 14 feet
- Minimum width: 8 feet if space is constrained.
- A 6 foot physical separation is recommended between the trail and road. A minimum of two feet is permitted when space is constrained. When truck volumes exceed 5% of the traffic mix, additional space should be provided.



CONSIDERATIONS

- Depending on levels of activity, space may need to be delineated for people walking and
- Special attention: At driveways, curb cuts, and intersections. Potential visibility and sight distance issues, along with other safety conflicts, should be assessed.

PROTECTED BIKE LANES

Protected bike lanes are on-street facilities that provide physical protection between people bicycling and driving through barriers such as concrete curbs, parked cars, planters, flexible delineators or bollards, or raising the bike lane to the level of the sidewalk. With physical barriers, protected bike lanes reduce the likelihood of crashes between people bicycling and driving.²¹

STANDARDS & GUIDANCE²²

- Minimum width: 5 feet with a desired buffer of 3 feet between the bike lane and vehicle traffic or parking. The width must accommodate anticipated resurfacing. For example, facilities less than 5 feet in width may require hand paving if standard equipment cannot fit.
- Conflict markings should be installed where the bicycle path of travel intersects with vehicle path of travel (e.g., intersections, transit stops, driveways, and alleys). See: Conflict Markings
- Physical separation may include a painted buffer with flexible delineators or bollards, curb or concrete medians, planters, or parking lanes. The type of physical separation may vary based on curbside or street activity and demand, right-of-way space available, or implementation timeline.

CONSIDERATIONS

- Protected bike lanes can be installed along the stretch of a corridor or applied as a spot treatment in a high-conflict area.
- Special attention: To areas where lanes intersect with vehicles or pedestrians, such as bus stops, driveways, alleys, and intersections. Locations should be examined for potential visibility and sight distance issues, curbside conflicts and other safety conflicts.
- Intersection evaluations should be conducted to ensure clarity and comfort throughout the crossing. Carrying a protected bike lane through an intersection is critical for maintaining bicyclist safety. Extending the protection eliminates gaps where bicyclists might be forced to merge into mixed traffic, reducing confusion and conflict points.

PROTECTED BIKE LANES (CONTINUED)



Intersections are where most bicycle-vehicle collisions occur.²⁴

The Oak Park Vision Zero Plan found that 77% of crashes involving people walking or bicycling occurred at the intersection.

Sweeping and snow/ice removal should be included in routine operations, especially during autumn and winter.

CONSIDERATIONS (CONTINUED)

SIDEWALK-LEVEL FACILITY

Sidewalk-level bike lanes, or raised cycle tracks, are at the level of, and often adjacent to, the sidewalk. If raised bike lanes are designed to be at sidewalk level, use of varying pavement types, markings, or tactile warning indicators are helpful in preventing conflicts between people bicycling and walking. Additionally, sidewalk-level bike lanes are recommended to have a minimum 6.5 foot lane.²³



CURB-PROTECTED FACILITY

Protected bike lanes can be constructed through cast-in-place, or pour-in-place, concrete curbs or installed with pre-cast concrete curbs.

- Cast-in-place concrete curbs are typically more durable. However, maintenance can be more challenging because repairing damage may require full removal and replacement. Cast-in-place curbs include drainage gaps where inlets and other drainage structures are present.
- Pre-cast concrete curbs typically take less time to install and can be replaced after damage fairly easily by simply swapping out the individual damaged unit. Pre-cast concrete curbs leave 4 foot gaps approximately every 40 feet to allow proper drainage.



PARKING-PROTECTED FACILITY

Parking-protected bike lanes position a bike lane between the curb and a row of parked cars, using the parked vehicles as a physical barrier to separate bicyclists from moving traffic. This design enhances safety and comfort for bicyclists by creating a dedicated, protected space, reducing the risk of "dooring". However, they require careful design to ensure proper visibility at intersections and crossings and sufficient ADA-compliant parking spaces.



RAISED BIKE LANES

Raised bike lanes are raised a few inches from the roadbed, installed against the curb and feature a mountable curb that slopes at a 4-to-1 ratio. Separated from vehicular traffic, raised bike lanes give the bicyclist an elevated riding position and are more comfortable to bicyclists of all ages and abilities than a striped or marked shared lane. Through its raised nature and sloping mountable curb, the facility reduces drainage issues. The raised bike lane is mountable for emergency access.

STANDARDS & GUIDANCE²⁵

- Minimum width: 5 feet
- Mountable curb is not included within rideable width of lane.
- Mountable curb should have 4:1 slope (1 inch wide on 4 inch rise).
- Flexible delineators may be installed, as needed.
- Vertical separation between the roadway and the raised bike lane should be between 1 and 6 inches (higher separation values discourage illegal parking); vertical separation between the raised bike lane and the sidewalk should be between zero and 5 inches (a separation of 3 inches or greater discourages conflicts with pedestrians).



Image of bi-directional raised bike lane in Atlanta, GA.



CONSIDERATIONS

- Raised bike lanes may be used where there is not enough right-of-way for a protected bike lane, yet separation from vehicular traffic is desired.
- To account for drainage issues, raised bike lanes generally require reconstructing the roadway and existing curbs.
- Special attention: At driveways, alleys, and intersections. Potential visibility and sight distance issues, along with other safety conflicts, should be assessed. Daylighting should be provided for a minimum of 20 feet from a minor crossing and 10 feet from a driveway.
- At intersections and storm drains, the raised bike lane can go back down to street level with green paint. However, the raised bike lane may be maintained at alleyways and driveways.
- Two-stage turn boxes should be provided to assist in making left-turns from the raised bike lane facility onto an intersecting street.



Two-stage turn box in Chicago, IL.

NEIGHBORHOOD GREENWAY

Neighborhood greenways are very lowvolume, low-speed streets where bicyclists can safely share the street surface. Neighborhood greenways feature physical traffic calming and diversion in addition to markings and signage. The facility provides a more pleasant, less stressful alternative to bicycling on busy roads and encourages more people, including children and less experienced riders, to bike.



STANDARDS & GUIDANCE

- Use clear and consistent signage indicating the presence of a neighborhood greenway (e.g., shared bike lane markings with symbols and arrows, advance warning signs for upcoming intersections).
- Incorporate wayfinding directing people bicycling to and from the network.

CONSIDERATIONS

- Neighborhood greenways should always be accompanied by robust traffic calming measures, and, where possible, traffic diversion, to encourage safe speeds and discourage vehicular through trips. Tools such as diverters, curb bumpouts, and speed tables create safer environments for all road users.
- Neighborhood greenways are prime candidates for incorporating additional features such as green infrastructure and enhanced landscaping.
- Special attention: At major street crossings, particularly at uncontrolled locations.

CONTRA-FLOW LANE

Neighborhood greenways along one-way streets often feature contra-flow lanes, which allow bicyclists to travel in the opposite direction of vehicular traffic. In addition to necessary striping, contra-flow lanes require appropriate signage and traffic controls.



Neighborhood greenway with contra-flow bike lane in Chicago, IL.



Contra-flow bike lane signage in Chicago, IL.



STRIPED BIKE LANES

Striped bike lanes feature a painted lane on the street surface designating space for bicyclists. They are relatively inexpensive to implement since they only require pavement markings and signs, utilizing existing road space without the need for significant infrastructure changes. Striped bike lanes can be adapted to a variety of roadway types and widths, making them a versatile option. While less protective than other facilities, striped bike lanes still provide dedicated space for bicyclists.



Minimum width: 5 feet



CONSIDERATIONS

- Green (methyl-methacrylate, MMA) paint can be used to draw additional attention to the bicycle lane or specific conflict points (e.g., intersection approaches, bus stops, crosswalks, driveways).
- If space is available, marking a buffer can increase comfort for people bicycling.
- If space is limited, the stripe shared with the travel lane can be dashed, creating an Advisory Bike Lane. This permits drivers to enter the bike lane if needed and safe, while still designating space for bicyclists.









MARKED SHARED LANES

Marked Shared Lanes, or "sharrows," are road markings used to indicate a shared space for people driving and bicycling. Marked shared lanes remind and reinforce the presence of bicyclists to all road users. Marked shared lanes encourage bicyclists to position themselves safely in travel lanes too narrow for a motor vehicle and a bicyclist to comfortably travel side by side within the same traffic lane.



STANDARDS & GUIDANCE

 Marked shared lanes are a pavement marking with a variety of uses to support a complete bikeway network; it is not a facility type and should not be considered a substitute for bike lanes, cycle tracks, or other separation treatments where these types of facilities are otherwise warranted or space permits.

CONSIDERATIONS

- Marked shared lanes can be used as a standard element in the development of neighborhood greenways to identify streets as bikeways and to provide wayfinding along the route.
- Marked shared lanes should be monitored and evaluated for bikeway facility promotion.

TRAFFIC DIVERSION

The goal of traffic diversion is to create high-comfort routes for bicyclists of all ages and abilities by filtering unnecessary vehicle traffic while maintaining access for emergency vehicles and local traffic. This plan aims to use traffic diversion techniques at targeted locations adjacent to major roadways to direct non-essential and non-local traffic away from the bicycle network. Staff will evaluate potential traffic impacts for proposed diverters prior to implementation.

TRAFFIC DIVERTERS

Traffic diverters help disrupt lengthy vehicle straightaways that can lead to high speeds and volumes on neighborhood streets, thus allowing for low-stress bikeways.²⁷ The design of traffic diverters should limit conflict between bicyclists and drivers. While diverters improve safety by reducing traffic and congestion, they may require emergency services to navigate detours or use alternative routes. Traffic diverters can delay emergency response vehicles by blocking direct routes but designs like collapsible barriers and permeable diverters can mitigate these challenges. To minimize delays, it is essential to involve emergency services in the planning process and incorporate features that accommodate their vehicles while allowing designs to facilitate bicyclist travel in all directions.

FULL DIVERTERS

Physical barriers that completely block motor vehicle traffic at intersections or mid-block but allow bicyclists, pedestrians, and, where required emergency vehicles, to pass.

BENEFITS

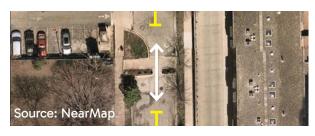
- Effectively eliminates through traffic, reducing congestion and noise.
- Enhances pedestrian and bicyclist safety by reducing vehicle conflicts.
- Prevents cut-through traffic in residential areas.

DIAGONAL DIVERTERS

Barriers placed diagonally across intersections, forcing vehicles to turn while allowing pedestrian and bicyclists to continue through.

BENEFITS

- Reduces through traffic effectively without fully blocking streets.
- Maintains local access for residents and businesses.
- Encourages safer speeds and improved neighborhood livability.



CONSIDERATIONS

- Can increase travel time for local residents who need to reroute.
- May divert traffic to adjacent streets, potentially causing issues elsewhere.



CONSIDERATIONS

- Can confuse drivers unfamiliar with the area.
- Increases travel distances for some trips.
- May push traffic to surrounding streets.

MEDIAN BARRIERS DIVERTERS

Raised medians placed at intersections to block left turns and through traffic while allowing right turns.

BENEFITS

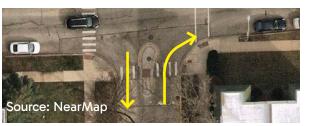
- Reduces conflict points at intersections, improving safety.
- Limits cut-through traffic while maintaining general accessibility.
- Cost-effective compared to full diverters.

PARTIAL OR PERMEABLE DIVERTERS

Barriers or signage that block one direction of motor vehicle travel on a two-way street while allowing pedestrian and bike access.

BENEFITS

- Reduces traffic volume and speed while preserving some access.
- More affordable than full diverters.
- Can be removable or temporary to accommodate emergency vehicles



CONSIDERATIONS

Increases travel distances for some trips.



CONSIDERATIONS

- Can confuse drivers or lead to illegal driving behaviors.
- Less effective at eliminating cut-through traffic compared to full diverters.
- May still impact nearby streets with traffic diversion.

CUL-DE-SAC

Cul-de-sacs offer benefits such as reduced traffic, enhanced safety, funneling traffic to concentrated access points, and a strong sense of community, making them appealing for families and improving property values. However, they can create challenges like limited connectivity, increased car dependency, longer travel distances, and higher infrastructure costs.

While ideal for quiet residential areas, their impact on emergency response, walkability, and environmental sustainability must be carefully considered when planning.

If cul-de-sacs are used, they should always maintain through-access for pedestrians and bicyclists.



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CONFLICT MARKINGS

Conflict markings are highly visible pavement markings used in bicycle facilities at potential points of interaction or conflict between bicyclists and motor vehicles, such as driveways, intersections, or merge zones. Their purpose is to alert all road users to potential crossing or merging situations, improving safety and clarity. Typically, they use bright green paint with diagonal or dashed white striping, making them easily recognizable to both bicyclists and motorists.









ONE-WAY BIKE LANE PAIRS

A one-way bike lane pair is a system in which directional bike lanes are provided on two complementary, directly adjacent one-way streets – streets that are one-way for all roadway users. The conversion of a two-way street to one-way gives additional right-of-way space for designated bike facilities while maintaining on-street parking.

CONSIDERATIONS

- The conversion of two-way to one-way traffic flow requires traffic engineering analysis.
- Additional traffic signal installation may be required.
- Cul-de-sacs or traffic diverters may require reconstruction to accommodate bike lane pairs.

MAINTENANCE CONSIDERATIONS

Creating a culture of bicycle safety and comfort does not stop at network installation. It is an ongoing effort to maintain low-stress bikeways. Infrastructure requires routine upkeep and preventative maintenance, such as sweeping, debris removal, minor surface repairs, and snow removal that occur monthly or at least annually, along with larger maintenance such as markings resurfacing and sign replacement, which may be required every few years. Maintenance efforts, such as resurfacing, snow-removal and debris and leaf collection, should be fully integrated into operations:

• The Village should **continue regular inspection standards for bicycle infrastructure,** recording and tracking maintenance needs and requests.

The City of Chicago sweeps protected and raised bicycle lanes typically monthly, sith extra sweepings if a resident reports debris or blockages.

 Keeping infrastructure in a state of good repair requires regular and dedicated funding. The Village should assess existing maintenance funding, identify funding gaps and needs, and look to longer term needs as the network is expanded.

SNOW REMOVAL

In order for protected bike lanes to be a reliable, year-round transportation option for Oak Park community members, the facilities must be well-maintained and accessible throughout the year – including the winter. The Village should clarify regulations for snow and ice removal on public sidewalks. For example, cleared snow and ice must not be shoveled into the right-of-way, which includes bike facilities and bike racks. The Village should revisit priority snow routes, ensuring bikeways are prioritized as they are implemented.

Protected and raised bike lanes must be at least as wide as the narrowest snow removal and street sweeping vehicle available. The Village of Oak Park currently has 3 smaller-format units to remove snow, remove ice, and sweep: Multihog Sweeper and Snow Removal; Avant Snow Removal; Trackless Snow Removal. The City of Chicago currently uses a fleet of Multihog vehicles that are approximately 4-feet wide. In addition to width, note the specifications for the lowest height of the sweeper, which may impact design related to any raised portion of a bike lane or curb that the sweeper would need to navigate. NACTO provides more information and case studies on small-format maintenance options.

POLICY CONSIDERATIONS

The Village of Oak Park has various policies and programs that set a pathway for bikeway network improvements. From the Village's Complete Streets policy to its traffic calming petition process and commitment to Vision Zero, Oak Park has laid the groundwork to ensure bicycling grows as a viable, welcoming option for community members.

In addition to the design and toolkit guidance above, the Village can continue to support the safety and comfort of the bicycle network through the following policies:

POLICY AMENDMENTS

- Define e-bikes and e-scooters. Currently, Section 15-2-1 does not define e-bikes or other micromobility devices. The definition of a bicycle should be expanded to account for e-bikes and other micromobility devices. Given the ranging operating speeds of micromobilty devices, a safe speed limit should be set.
- Allow bicyclists to ride on the sidewalk space designated for bikes. Section 15-2-6(B) prohibits people 15 years or older from riding on sidewalks. However, there are spaces of sidewalks that are designated for bikes - such as connecting across a culde-sac. This rule should be amended to allow bicyclists to access these spaces.
- Allow adult bicyclists accompanying a child to ride on the sidewalk. Section 15-2-6(B) prohibits people 15 years or older from riding on sidewalks. This rule should be amended to allow adult bicyclists accompanying qualifying children to ride on the sidewalk within a designated area.
- Allow bicyclists to use the full lane. Section 15-2-7(A) prohibits bicyclists from using the full lane when traveling on the street. This rule should be amended to allow bicyclists to use the full travel lane when on a Neighborhood Greenway or Marked Shared Lane.
- Allow bicyclists to ride two abreast. Section 15-2-7(C) only permits single file except on paths or parts of roadways set aside for the exclusive use of bicycles. Riding two abreast on the slow-moving Neighborhood Greenways allows for further traffic calming and enables parent/guardian(s) to ride alongside children. This rule should be amended to allow bicyclists to use the full travel lane when on a Neighborhood Greenway or Marked Shared Lane.
- Reassess the bike bell requirement. Section 15-2-11(B) requires all bicycles to be equipped with a bike bell or device capable of an audible signal. While bike bells serve as a safety measure, a universal requirement can deter people from riding.
- Do not require bicyclists to dismount. Section 15-2-13(B) prohibits bicyclists to make right or left turns or to turn in the opposite direction at signed locations, such as a right turn only traffic diverter. Section-15-2-13(B) requires bicyclists to dismount their bicycle and make the desired turn as a pedestrian. This rule should be amended to allow bicyclists turning onto a bicycle facility where restrictions exist to make necessary turns without dismounting from their bicycle.

Update license issuance and record processes. Section 15-2-16 designates the Village Clerk with authorization to issue a license decal and maintain records. The code should be updated to reflect current day practices as the Village Clerk office no longer oversees these processes.

Additionally, the Village should develop a schedule for bicycle plan progress and evaluation. While the Village regularly evaluates condition of roadways and bikeways, it is recommended to set a routine schedule for evaluation.

BIKE PARKING POLICY

The Village holds minimum requirements for bike parking at specific zoning uses. As the bikeway network and bicycle culture grows, it is recommended to re-visit the zoning ordinance and support increased minimum required bicycle spaces. Additionally, the Village should routinely evaluate bicycle parking demand and install U-racks as needed. A bike parking study can assess utilization and capacity needs.

SCHOOL POLICY & PROGRAMMING

There is currently no D97 district-wide policy allowing and promoting bicycling to school. It is recommended the Village support D97 in developing a district-wide policy to permit and encourage bicycling to school.



Bike parking at OPRFHS.

5 PROPOSED NETWORK UPDATES



PROCESS FOR IDENTIFYING NETWORK UPDATES

The development of the bike network updates was an iterative process. With the existing network and conditions data serving as the foundation, the project team identified network updates which received many rounds of feedback from the community, Village staff, and Transportation Commission input, along with additional analysis to inform refinement and adjustments. Ultimately, the bike network needs to be part of a **broader**, **overall balanced mobility network**. This Bike Plan Update's bike network is a next generation plan. And, it is likely not the last. The iterative process will carry on into the future to confirm it meets the community's needs.

NETWORK DEVELOPMENT PROCESS



OVERALL NETWORK MAPS

SHORT-TERM CONCEPTS

These are key next steps for Oak Park's bicycle network. A more intensive amount of analysis has already been conducted on these corridors, including vehicle parking counts on several corridors. These are concepts that the Village feels most confident in tackling in the next five years, but they still include ambitious ideas. The Village solicited direct input from residents along the new updated routes with proposed parking loss. Proposed diverters will be reviewed by Village staff for potential, unanticipated impacts prior to implementation.

MID-TERM CONCEPTS

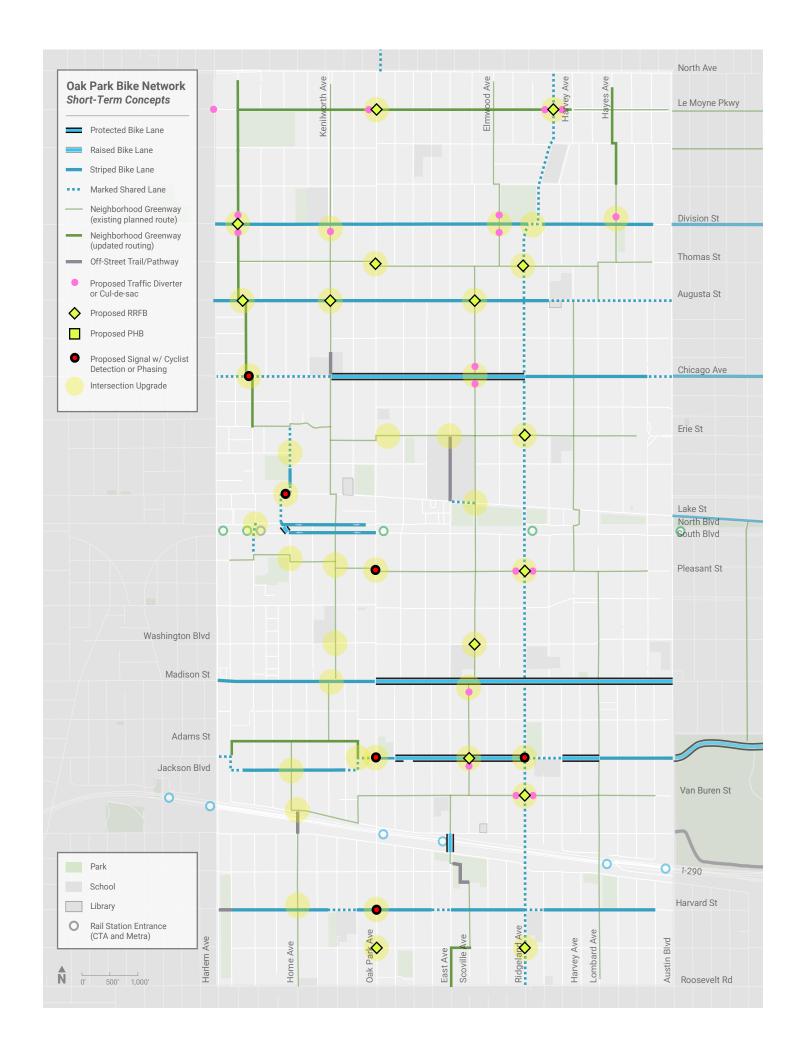
These include ideas that initial analysis has deemed feasible but will take more conversation and analysis. These concepts will build off the success of short-term projects, which aim to drive additional bicycling demand. They upgrade short-term infrastructure to higher levels of comfort, fill gaps, and extend bikeways. These concepts aim to take advantage of concurrent roadway projects as they arise in the next 5-10 years. These concepts also aim to take advantage of learning from the implementation of short-term projects and adjusting as needed.

Future engagement and review of the mid-term concepts will be completed in part of individual corridor project designs or as part of a future update to the Bike Plan. Within the review, opportunities for one-way bike lane pairs should be evaluated and considered as an option to preserve on-street parking, as needed.

LONG-TERM CONCEPTS

These projects represent ambitious ideas that are key to creating a comprehensive all ages and abilities bike network but require larger conversations about the broader transportation network, further detailed analysis, more substantial reconstruction, and potentially a reallocation of existing high-demand vehicle parking. Some of these projects raise complex questions that we do not have all the answers to yet, but it is important to capture more ambitious ideas—otherwise they will never happen. Planning for these ambitious projects should start in the short-term, but implementation is likely to take several years of analysis and coordination.

More detailed review and public engagement regarding the more ambitious and long-term concepts will be planned as part of future updates to the bike plan. In particular, the Village should re-evaluate feasibility for more robust bikeways along Ridgeland Avenue.





PROPOSED NETWORK AND INFRASTRUCTURE UPDATES

LE MOYNE PARKWAY

Home to Lindberg Park, Le Moyne Parkway is an important east-west connector on the north side of the Village. Short-term recommendations establish a Neighborhood Greenway across the corridor.

OVERVIEW

JURISDICTION

TRAFFIC VOLUME ~1,000 - 1,500 Average Daily Traffic (ADT) Harlem to Ridgeland

~30 FEET

VILLAGE

EXISTING CURB RIGHT-OF-WAY

EMERGENCY ROUTING

SHORT-TERM PARKING

IMPACT MARKED



Install Neighborhood **Greenway** between Marion Street and Austin Boulevard

Oak Park Avenue, TRAFFIC Harlem Avenue

Oak Park Avenue, Ridgeland Avenue, FLASHING Ridgeland Avenue

Install periodically, with center gap for bicyclist path of travel



Greenfield Street

Evaluate opportunity and feasibility of one-way pair vehicular and bicycle traffic on Le Moyne Parkway and Greenfield Street.

EVALUATE

Work with the Village of River Forest to identify best routing options west of Harlem Avenue

Collaborate with Fenwick High School to support safety improvements Work with **IDOT** to upgrade striping, signals, and/or curb cuts

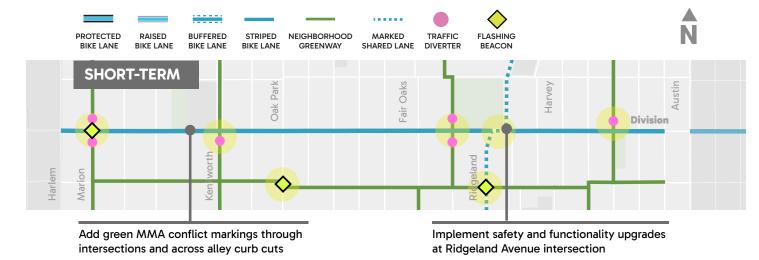
DIVISION STREET

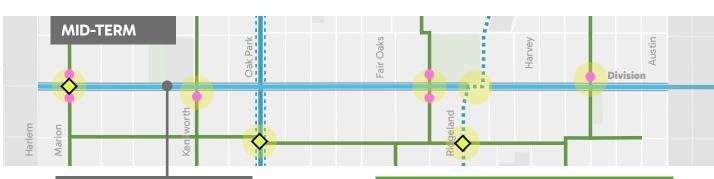
Division Street currently has striped bike lanes across the Village. Short-term recommendations include adding green conflict markings across intersections and alley curb cuts to bring attention to the striped bike lane at conflict points.

OVERVIEW

IMPACT

TRAFFIC VOLUME 9,500 - 9,800 ADT **EXISTING CURB RIGHT-OF-**~30 FEET **EMERGENCY ROUTING JURISDICTION VILLAGE** SHORT-TERM PARKING





Upgrade Striped Bike Lanes between Harlem Avenue and Austin Boulevard to Raised Bike Lanes





PEDESTRIAN

between Harlem Avenue

to Woodbine Avenue as a

Marked Shared Lane

AUGUSTA STREET

Augusta Street does not have a delineated bikeway but is designated as a bike route along the Grand Illinois Trail. Future bikeways along Augusta Street require careful planning due to nearby traffic generators such as Oak Park Public Library - Dole Branch and Whittier Elementary School. Home to the Oak Park Fire Station #2, Augusta Street is a medium-use fire route from Austin Boulevard to Oak Park Avenue, and high-use between Oak Park Avenue to Harlem Avenue.

OVERVIEW

TRAFFIC VOLUME	4,300 - 7,200 ADT
EXISTING CURB RIGHT-OF- WAY	~30 FEET
EMERGENCY ROUTING	MEDIUM & HIGH USE
JURISDICTION	VILLAGE
SHORT-TERM PARKING	HARLEM - CUYLER



Remove parking between Harlem Avenue and Cuyler Avenue and install **Striped Bike Lanes**

Installed **Marked Shared Lanes** between Cuyler Avenue and Austin Boulevard



Upgrade Striped Bike Lanes between Harlem Avenue and Cuyler Avenue to **Raised Bike Lanes** Upgrade Marked Shared Lanes between Harvey Avenue and Humphrey Avenue to **Raised Bike Lanes**

PROJECT COORDINATION

WORK &

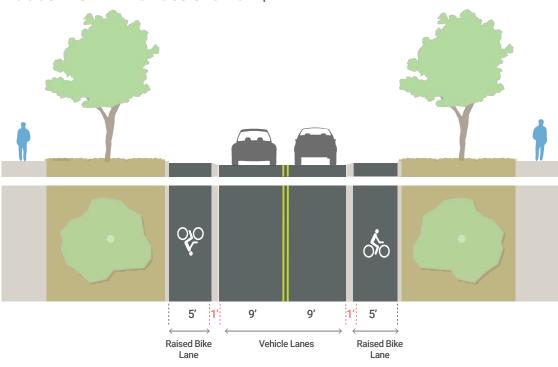
Work with the **Village of River Forest** to identify best routing options west of Harlem Avenue

Work with the **City of Chicago** to identify best routing option

Work with the **City of Chicago** to identify best routing options east of Harlem Avenue

Work with **IDOT** to upgrade striping, signals, and/or curb cuts





Upgrade Striped Bike Lanes between Harlem Avenue and Cuyler Avenue to Raised Bike Lanes The above cross section upgrades the striped bike lanes on Augusta Street from short-term recommendations to raised bike lanes. The raised bike lanes involve a one-foot mountable curb, separating bicyclists from drivers.





Upgrade Marked Shared Lanes between Cuyler Ave and Harvey Ave to **Protected Bike Lanes** at sidewalk level, preserving at least some parking

PROJECT COORDINATION



Coordinate with the Oak Park Public Library - Dole Branch and Whittier Elementary School

A sidewalk level protected bike lane in Boston, MA.

CHICAGO AVENUE

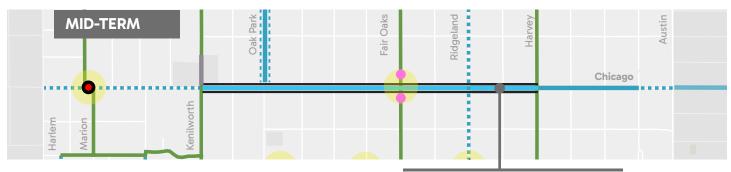
Chicago Avenue currently offers a striped bike lane from Humphrey Avenue west to Euclid Avenue and marked shared lanes on remaining parts of the corridor. Chicago Avenue holds various uses: residences, commercial districts, Oliver Wendell Homes Elementary School and park, and Frank Lloyd Write Home & Studio. Future implementation should be in coordination with Vision Zero recommendations.

OVERVIEW

TRAFFIC VOLUME	~12,000 - 16,000 ADT
EXISTING CURB RIGHT-OF- WAY	45 FEET
EMERGENCY ROUTING	-
JURISDICTION	VILLAGE
SHORT-TERM PARKING IMPACT	KENILWORTH - RIDGELAND

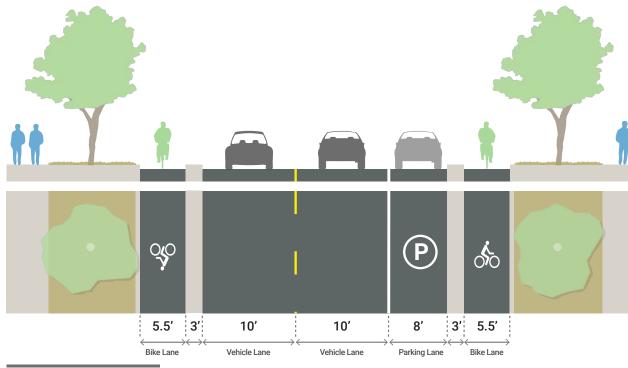


Remove parking on one side of the street between Kenilworth Avenue and Ridgeland Avenue and install **Protected Bike Lanes**

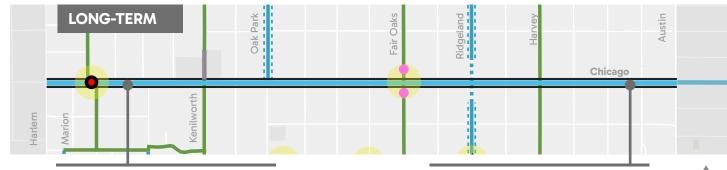


Remove parking on one side of street between Ridgeland Avenue and Harvey Avenue and install **Protected Bike Lanes**

CHICAGO AVENUE CROSS SECTION | SHORT-TERM



Remove parking on one side of the street between Kenilworth Avenue and Ridgeland Avenue and install **Protected Bike Lanes** The above cross section represents parking removal on one side of the street to accommodate concrete-protected bike lanes.



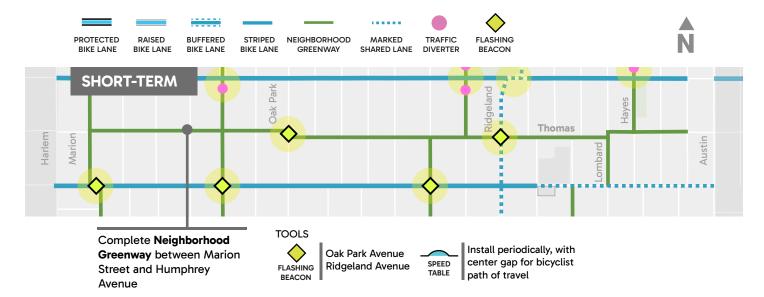
Install **Protected Bike Lanes** between Kenilworth Avenue and Harlem Avenue - prioritize installing until at least Marion Street Remove parking on one side of street between Harvey Avenue and Austin Boulevard and install **Protected Bike Lanes** N

THOMAS STREET

Thomas Street provides a calm east-west corridor sitting between the busier Division Street and Augusta Street. Whittier Elementary School has a sidewalk connection to Thomas Street through the Greenleaf Garden. The route follows the Neighborhood Greenways System Study recommendations, with proposed intersection improvements at Oak Park Avenue and Ridgeland Avenue.

OVERVIEW

TRAFFIC VOLUME	<600 ADT
EXISTING CURB RIGHT-OF-WAY	30 FEET
EMERGENCY ROUTING	-
JURISDICTION	VILLAGE
SHORT-TERM PARKING IMPACT	-

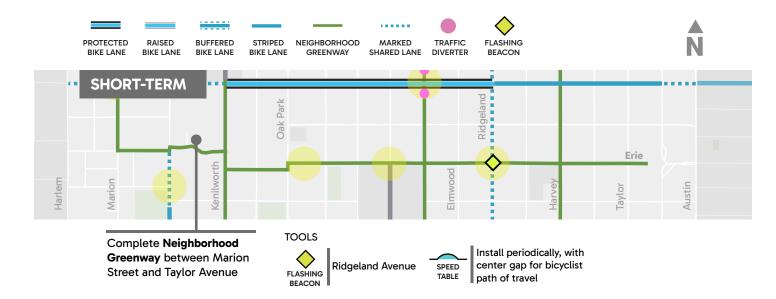


ERIE STREET

Erie Street offers one of the Village's first Neighborhood Greenways. From Scoville Avenue to Kenilworth Avenue, Erie Street has bike boulevard markings, signage, 20 MPH speed limit, and, near Oak Park River Forest High School, traffic calming. The Bike Plan Update looks to complete and bolster the Neighborhood Greenway, particularly at key crossings.

OVERVIEW

TRAFFIC VOLUME	500 - 1,900 ADT
EXISTING CURB RIGHT-OF- WAY	30 FEET
EMERGENCY ROUTING	-
JURISDICTION	VILLAGE
SHORT-TERM PARKING IMPACT	-





PROJECT COORDINATION

Work with the Village of River Forest to identify best routing options west of Harlem Avenue Work with Oak Park Tennis Center and Forest Preserve of Cook County to explore short trail connection from Ontario Street to Quick Avenue between tennis courts and Harlem Ave sidewalk Work with **IDOT** to upgrade striping, signals, and/or curb cuts



DOWNTOWN ACCESS

Downtown Oak Park brings people of all modes of transportation - walking, rolling, bicycling, taking transit, and driving - together. The following recommendations aim to make bicycling comfortable and safe while also working within the spatial constraints and other needs required of downtown services. Proposed network updates are focused around Forest Avenue and North and South Boulevards.

OVERVIEW

TRAFFIC VOLUME **VARIES VARIES EXISTING CURB RIGHT-OF-EMERGENCY ROUTING** SOUTH BLVD **JURISDICTION VILLAGE** SHORT-TERM PARKING **IMPACT**

TOOLS

TRAFFIC

Formalize bicycle access through

and Ontario Street

existing diverter at Forest Avenue

TRAFFIC PROTECTED RAISED BUFFERED STRIPED NEIGHBORHOOD MARKED FLASHING BIKE LANE BIKE LANE BIKE LANE Install Marked Shared Lanes on Install Marked Shared Lanes on Forest Forest Avenue between North Avenue between Erie Street and Boulevard and Lake Street and Ontario Street for southbound cyclists Striped Lanes between Lake Street and contraflow Striped Bike Lane for and Ontario Street northbound cyclists SHORT-TERM Ontario North Connect North/South Install westbound **Striped** Boulevards facilities with Bike Lane on South

Protected Bike Lanes under Home Avenue viaduct **ADDITIONAL**

Improve lighting under Home Ave LIGHTING | viaduct

Boulevard between Home Avenue and Oak Park Avenue

SIGNAL

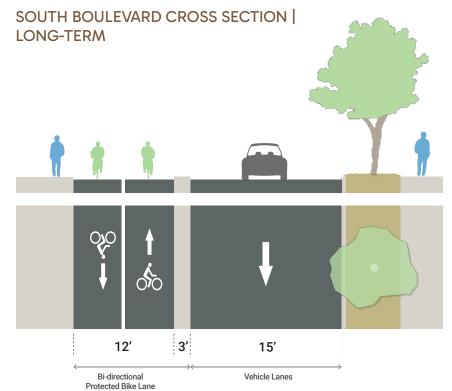
Upgrade signal at Lake Street and Forest Avenue for either automatic or actuated cyclist detection to provide cyclists a leading interval into intersection to position themselves for left turns



Install bi-directional Protected Bike Lanes on North Boulevard between Home Avenue and Marion Street by converting portion of existing parking lot to enhanced downtown and transit active transportation mobility hub + public

Install bi-directional Protected Bike Lanes on South Boulevard between Kenilworth Avenue and Home Avenue by converting vehicle parking on north side.

Alternative: Continue Protected Bike Lanes on South Boulevard between Home Avenue and Marion Street



Install bi-directional Protected Bike Lanes on South Boulevard

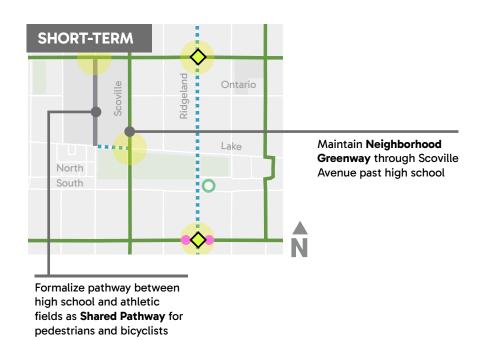
The above cross section demonstrates bi-directional protected bike lanes along South Boulevard. The protected bike lanes would require vehicle parking conversion.

OAK PARK RIVER FOREST HIGH SCHOOL ACCESS

Oak Park River Forest High School (OPRFHS) is a high traffic generator near downtown Oak Park. During drop-off and pick-up hours, OPRFHS not only brings vehicles towards the campus, but also many pedestrians and bicyclists. OPRFHS staff shared that Scoville Avenue is the preferred bicycle route for students riding a bicycle to school with bike parking near the pathway. Recommendations aim to address both student and community-wide needs.

OVERVIEW TRAFFIC VOLUME **VARIES VARIES EXISTING CURB RIGHT-OF-EMERGENCY ROUTING** VILLAGE **JURISDICTION** SHORT-TERM PARKING **IMPACT**

TRAFFIC PROTECTED RAISED STRIPED NEIGHBORHOOD MARKED FLASHING BUFFERED SIGNAL GREENWAY BIKE LANE BIKE LANE **BIKE LANE** BIKE LANE SHARED LANE DIVERTER BEACON





Install Protected Bike Lanes on Scoville Avenue between South Boulevard and Lake Street

Install Protected Bike Lanes on Lake Street between Scoville Avenue and East Avenue



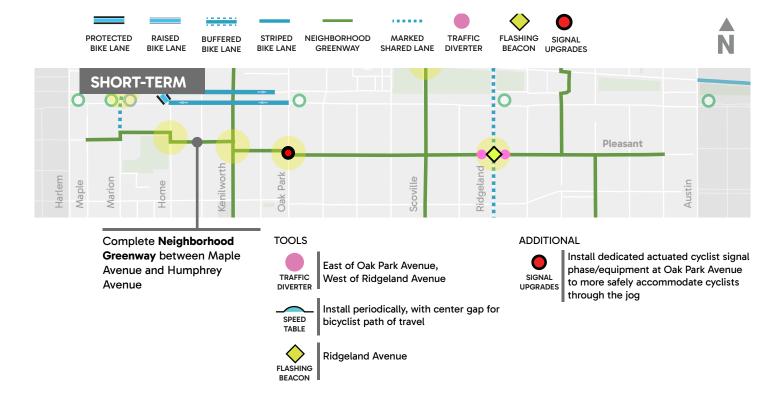
Remove parking and install **Protected Bike Lanes** on South Boulevard between Ridgeland Avenue and Scoville Avenue

PLEASANT STREET

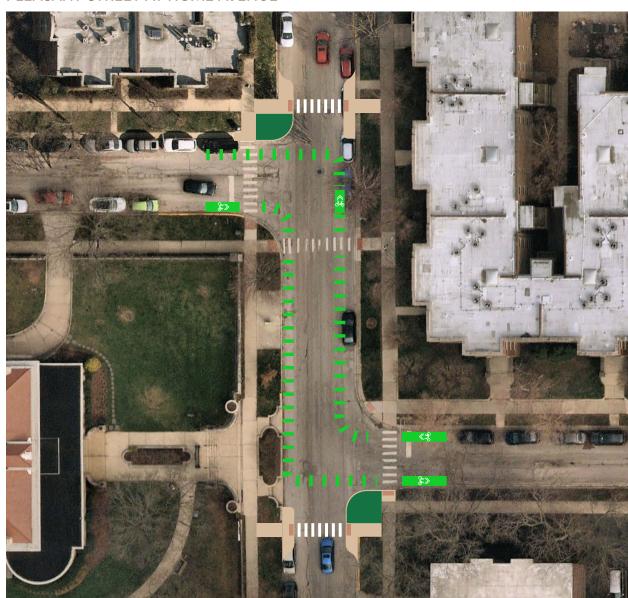
While Pleasant Street is an existing planned route from previous planning efforts, there are opportunities to bolster the comfort along the corridor and improve the safety at intersections. In addition to traffic calming tools, recommendations include upgrading stop-control and traffic-controls at select locations.

OVERVIEW

TRAFFIC VOLUME	~600 - 3,000+ ADT
EXISTING CURB RIGHT-OF-WAY	~25 FEET
EMERGENCY ROUTING	-
JURISDICTION	VILLAGE
SHORT-TERM PARKING IMPACT	-



PLEASANT STREET AT HOME AVENUE



- Allows for high-quality pedestrian crossing improvements as well
- Could add raised crosswalks to further improve vehicle yielding

MADISON STREET

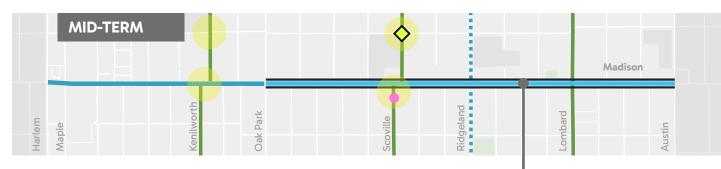
Madison Street has buffer bike lanes or parkingprotected bike lanes from Austin Boulevard to Oak Park Avenue. Short- and mid-term recommendations work to bolster the existing bike lanes and intersection crossings.

OVERVIEW

TRAFFIC VOLUME	~22,000 ADT
EXISTING CURB RIGHT-OF-WAY	~80 FEET
EMERGENCY ROUTING	MEDIUM TO HIGH USE
JURISDICTION	VILLAGE
SHORT-TERM PARKING IMPACT	-



Install pre-cast concrete curbs along all buffer markings to enhance bicyclist protection



Upgrade bike lane design at Lombard Avenue, Ridgeland Avenue, East Avenue, and Oak Park Avenue



Example of pre-cast concrete curbs



Example of a protected intersection.

JACKSON BOULEVARD

Jackson Boulevard currently offers striped bike lanes or marked shared lanes, depending on the segment. Jackson Boulevard connects to several parks, Fox Center & Park, Longfellow Center & Park east to Columbus Park in the City of Chicago, and to the protected bike lanes on east of Austin Boulevard. Jackson Boulevard jogs at Grove Avenue and Maple Avenue, with limited right-of-way for road users.

OVERVIEW

TRAFFIC VOLUME	6,000 - 7,000 ADT
EXISTING CURB RIGHT-OF-WAY	VARIES, ~38 FEET
EMERGENCY ROUTING	-
JURISDICTION	VILLAGE
SHORT-TERM PARKING IMPACT	-



Upgrade existing bike facilities to **Protected Bike Lanes** between Euclid Avenue and Ridgeland
Avenue and between Highland Avenue and
Lombard Avenue – removing planted median
between Harvey Avenue and Lombard Avenue;
Remove left turn lanes at East Avenue to allow **Protected Bike Lanes**

Where turn lanes preclude Protected Bike Lanes, install green MMA-marked **Striped Bike Lanes** (as wide as possible but no narrower than 4 feet) or green MMA-marked **Marked Shared Lanes**

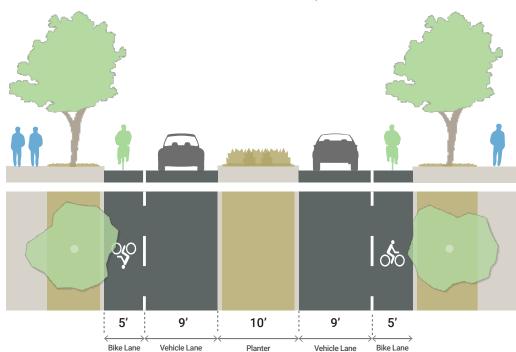
ADDITIONAL

SIGNAL UPGRADES

Upgrade signals at Ridgeland Avenue and Oak Park Avenue for either automatic or actuated cyclist detection to provide cyclists a leading interval through intersections Install **Striped Bike Lanes** between Lombard Ave and Austin Blvd

JACKSON BOULEVARD (CONTINUED)

JACKSON BOULEVARD CROSS SECTION | SHORT TERM OPTION 1

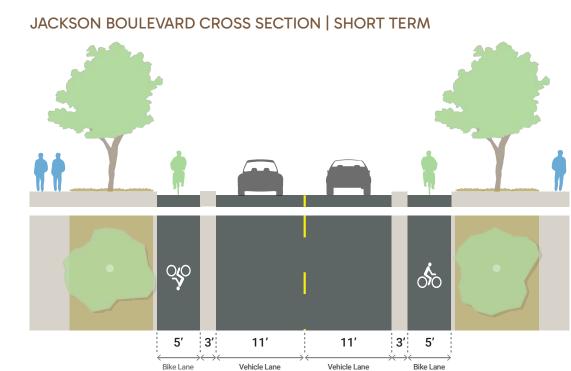


Install **Striped Bike Lanes** between
Lombard Avenue and
Austin Boulevard

OPTION 1 ADVISORY LANES

Evidence that advisory bike lanes do improve space vehicles give to cyclists.

Larger vehicles allowed to take the full lane.

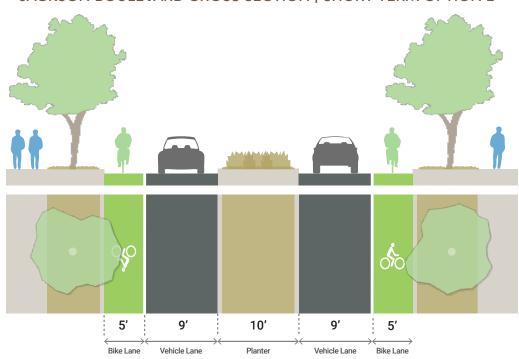


Upgrade existing bike facilities to **Protected Bike Lanes**

Can utilize pre-cast concrete curbs to reduce permanent curb work.

Install conflict markings at driveways and alleys that require gaps in curbs.

JACKSON BOULEVARD CROSS SECTION | SHORT TERM OPTION 2



OPTION 2 PAINTED STRIPED LANES

Painted lanes clearly emphasize cyclist space.

Vehicle lanes narrowed, encouraging slower speeds.

Largest vehicles may need to still infringe on bike lanes.



Installation of pre-cast curbs to form a protected bike lane.

JACKSON BOULEVARD (CONTINUED)

JACKSON BOULEVARD AT GROVE AVENUE



Where turn lanes preclude Protected Bike Lanes, install greenbacked Marked Shared Lanes

Give westbound bicyclists a jump at the light at Oak Park Avenue to get out ahead.

Enhance existing shared lane markings with green MMA behinds sharrow.

Could explore automatic cyclist detection that would trigger warning lights.

Assess if plantings cause visibility issues.

Opportunities for signage emphasizing to watch for bicyclists.



JACKSON BOULEVARD AT MAPLE AVENUE



Where turn lanes preclude Protected Bike Lanes, install green-backed Marked Shared Lanes

36 foot right-ofway through most of Maple Avenue;

Could include some pre-cast curbs, but likely not within curves themselves. This would require parking removal.

Utilize green MMA to guide bicyclists through curve.

At curb extensions, follow markings currently used

67



JACKSON BOULEVARD (CONTINUED) \Diamond FLASHING SIGNAL BEACON UPGRADES RAISED TRAFFIC PROTECTED RUFFERED STRIPED NEIGHBORHOOD MARKED SHARED LANE DIVERTER **BIKE LANE MID-TERM** Jackson Reconfigure intersection of Grove Reconstruct Jackson Boulevard Install Neighborhood Greenway on Adams Street from Maple Avenue and Jackson Boulevard to from Ridgeland Avenue and Highland Avenue to provide Avenue to Grove Avenue as a accommodate cyclist transition to low-stress alternative to Jackson and from Adams/Jackson continuous Protected Bike Lanes **Boulevard**

PROJECT COORDINATION

Work with institutions along Jackson Boulevard, including Longfellow Elementary School and Longfellow Center & Park, to accommodate parking a collaborate needs while filling gaps in Protected Bike Lanes Center & Park, to accommodate parking and loading



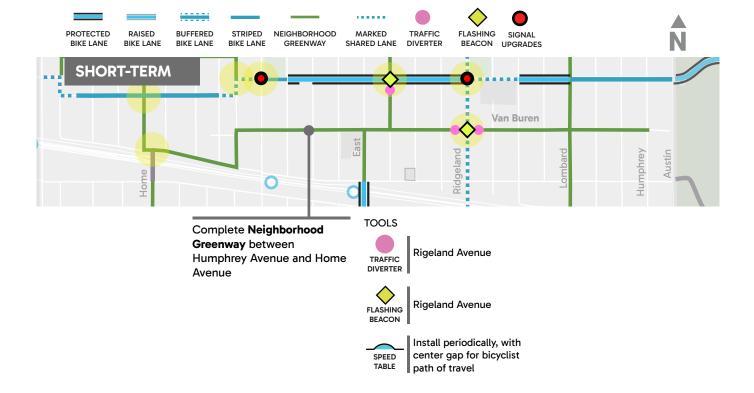
Reconstruct Jackson Boulevard between Grove Avenue and Euclid Avenue and between Lombard Avenue and Austin Boulevard to provide continuous Protected Bike Lanes

VAN BUREN STREET

Van Buren Street provides an east-west connection from Humphrey Avenue west to Home Avenue via Harrison Street. The route follows the Neighborhood Greenways System Study recommendations, with proposed intersection improvements at Ridgeland Avenue.

OVERVIEW

TRAFFIC VOLUME	<600 ADT
EXISTING CURB RIGHT-OF-WAY	30 FEET
EMERGENCY ROUTING	-
JURISDICTION	VILLAGE
SHORT-TERM PARKING IMPACT	-



HARVARD STREET

Harvard Street connects to several parks and schools, including Maple Park, Carroll Center & Park, Abraham Lincoln Elementary School, Washington Irving Elementary School, and Barrie Park. Future bikeways adjacent to schools will require close coordination and planning. In addition to facilities on Harvard Street, rectangular rapid flashing beacons or pedestrian beacons are recommended on Fillmore Street.

OVERVIEW

TRAFFIC VOLUME	800 - 2,000 ADT
EXISTING CURB RIGHT-OF- WAY	VARIES
EMERGENCY ROUTING	-
JURISDICTION	VILLAGE
SHORT-TERM PARKING IMPACT	MAPLE - HUMPHREY WITH EXCEPTIONS



flashing beacons (RRFBs) on Fillmore FLASHING Street at Oak Park Avenue as well as UPGRADES Ridgeland Avenue

Avenue for either automatic or actuated cyclist detection to provide cyclists a leading interval through intersections

SIGNAL



Install new bicycle and pedestrian crossing PEDESTRIAN and pedestrian hybrid beacon signal at Harlem Avenue

Humphrey Avenue – with exception of corridor

segments in front of schools, where Marked

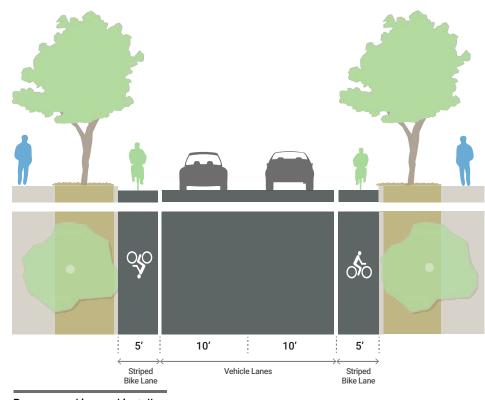
Shared Lanes will be installed

Evaluate opportunity and feasibility of one-way pair vehicular and bicycle traffic on Harvard Street and EVALUATE Fillmore Street

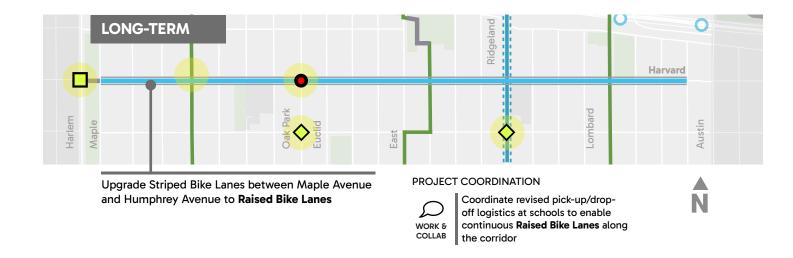


Work with the Village of Forest Park to identify best routing options west of Harlem Avenue Work with **IDOT** to upgrade striping, signals, and/or curb cuts

HARVARD STREET CROSS SECTION | SHORT-TERM



Remove parking and install Striped Bike Lanes on Harvard Street



MARION STREET

Marion Street offers a north-south connection on the west side of the Village between North Avenue and Erie Street. The corridor connects Lindberg Park south towards downtown Oak Park. The corridor requires improvements at key intersections to sure the safety and comfort of bicyclists.

OVERVIEW

TRAFFIC VOLUME

800 - 1,300 ADT north of Division 600 - 700 ADT Chicago to Division ~4,300 ADT Erie to

~28 FEET

VILLAGE

Chicago

\Λ/Δ\

EMERGENCY ROUTING

JURISDICTION

EXISTING CURB RIGHT-OF-

SHORT-TERM PARKING IMPACT

PROTECTED BIKE LANE

RAISED BIKE LANE

.....

STRIPED IE BIKE LANE

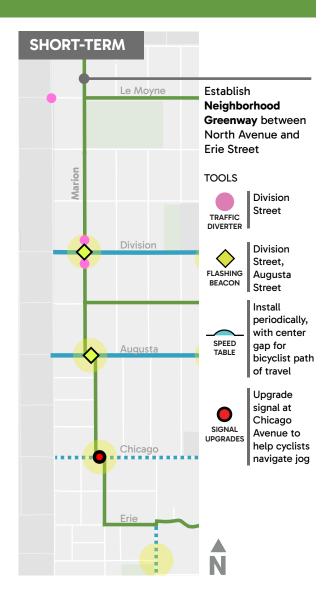
NEIGHBORHOOD MARKED
GREENWAY SHARED LANE



TRAFFIC DIVERTER







KENILWORTH AVENUE / HOME AVENUE

Together, Kenilworth Avenue and Home Avenue offer a north-south connector through the center of the Village. While the corridor is predominantly north-south, it requires a few jogs to maintain thru-access at key points. Additional wayfinding signage to guide cyclists must accompany the route. A component of the corridor includes improving key crossings, such as the Home Avenue Bridge across I-290.

OVERVIEW

TRAFFIC VOLUME 600 - 4,000 ADT

EXISTING CURB RIGHT-OFWAY

EMERGENCY ROUTING
JURISDICTION VILLAGE

SHORT-TERM PARKING IMPACT

PROTECTED RAISED STRIPED BIKE LANE BIKE LANE BIKE LANE

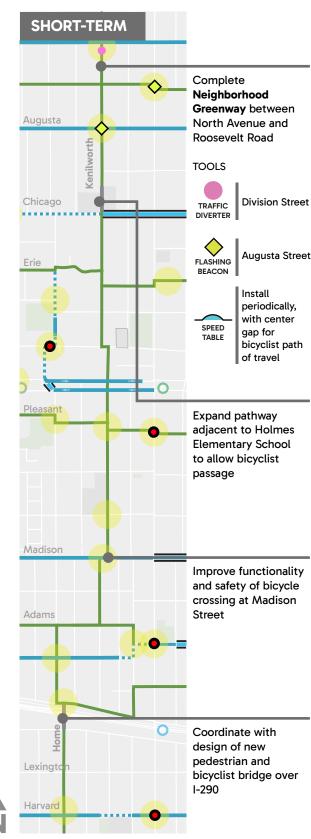
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NEIGHBORHOOD MARKED GREENWAY SHARED LANE









73

KENILWORTH/ HOME (CONTINUED)

HOME AVENUE BRIDGE | NORTH SIDE



Coordinate with design of new pedestrian and bicyclist bridge over I-290

Allow more sidewalk space on Harrison Street to navigate safe bicycle turning maneuvers.

LONG-TERM

Several long-term bikeway concepts were explored for the Home Avenue/Kenilworth Avenue corridor, including:

Establishing raised or protected bike lanes by converting existing two-way streets to one-way traffic:

- Home Avenue and Clinton Avenue from Roosevelt to Garfield
- Clinton Avenue and Kenilworth Avenue from Harrison to South Blvd

Ultimately, this concept would require removing existing cul-de-sacs at Kenilworth Avenue and Madison Street and at Clinton Avenue and Madison Street, which could have substantial impact on the flow of traffic on these streets

Establishing a two-way raised or protected bikeway on Home Avenue: This concept would require either one-way traffic conversion (which could have substantial traffic impacts on surrounding streets), and/or partial or complete parking removal on most blocks. The magnitude of these impacts would require more in-depth analysis.

Establishing a two-way raised or protected bikeway on Grove Avenue: This concept would require either one-way traffic conversion and partial loss of vehicle parking or a complete loss of vehicle parking. This concept would also require navigating the complex intersections with Jackson Boulevard. The magnitude of these impacts would require more in-depth analysis.

OAK PARK AVENUE

Oak Park Avenue offers a direct northsouth thoroughfare in the Village. Mid-term recommendations include a buffered bike lane on the north side of the Village.

OVERVIEW

TRAFFIC VOLUME ~12,000 ADT

EXISTING CURB RIGHT-OFWAY

EMERGENCY ROUTING MEDIUM-USE

JURISDICTION VILLAGE

SHORT-TERM PARKING IMPACT

PROTECTED RAISED BIKE LANE BIKE LA

RAISED BUFFERED BIKE LANE BIKE LANE

.....

STRIPED NEIGHBORHOOD MARKED BIKE LANE GREENWAY SHARED LANE

TRAFFIC DIVERTER

FLASHING BEACON Install Buffered Bike
Lanes from North
Avenue to Chicago
Avenue

PROJECT COORDINATION

Work with the Cit
Chicago to identi
best routing optic
north of North Av

Work with the City of Chicago to identify best routing options north of North Avenue Work with IDOT to upgrade striping, signals, and/or curb cuts at North Avenue

MID-TERM

A

SCOVILLE AVENUE / FAIR OAKS AVENUE / ELMWOOD AVENUE

Together, Scoville Avenue / Fair Oaks Avenue / Elmwood Avenue offer a north-south connector across the Village. While the corridor is predominantly north-south, it requires a few jogs to maintain thru-access at key points. Additional wayfinding signage may accompany the route. The corridor includes a connection on Lake Street to access the OPRFHS shared path and bike parking.

OVERVIEW

TRAFFIC VOLUME VARIES 400 - 2,000 ADT **EXISTING CURB RIGHT-OF-VARIES** WAY **EMERGENCY ROUTING JURISDICTION** VILLAGE SHORT-TERM PARKING

PROTECTED BIKE LANE

IMPACT

RAISED **BIKE LANE**

STRIPED **BIKE LANE**

NEIGHBORHOOD MARKED SHARED LANE **GREENWAY**

TRAFFIC

DIVERTER

FLASHING **BEACON**

SIGNAL

UPGRADES





RIDGELAND AVENUE

In 2024, the Village conducted a feasibility study for installing bikeways on Ridgeland Avenue. While bike facilities are a desirable goal for the Village, the Transportation Commission recommended to not move forward with enhanced bikeways at the current time and that the feasibility study should be revisited as a long-term option. This plan recommends to revisit the study at a later date, visualizing a hybrid of protected and buffered bike lanes due to concerns about emergency response's ability to navigate the corridor with substantial gaps in facilities at most signalized intersections. Visit the Appendix for more information.

OVERVIEW

TRAFFIC VOLUME VARIES 9,100 - 17,800 ADT

EXISTING CURB RIGHT-OF- VARIES
WAY

EMERGENCY ROUTING

JURISDICTION VILLAGE (NORTH - THOMAS)

STATE (THOMAS -ROOSEVELT)

SHORT-TERM PARKING IMPACT

PROTECTED BIKE LANE RAISED BIKE LANE

.....

STRIPED BIKE LANE

NEIGHBORHOOD MARKED
GREENWAY SHARED LANE



TRAFFIC

DIVERTER









LOMBARD AVENUE / HARVEY AVENUE / HAYES AVENUE

Together, Lombard Avenue, Harvey Avenue, and Hayes Avenue offer a north-south connector on the east side of the Village. While the corridor is predominantly north-south, it requires a few jogs to maintain thru-access at key points. Additional wayfinding signage to guide cyclists must accompany the route. The route follows much of the Neighborhood Greenways System Study, with slight rerouting on the northern end to allow cyclists to cross Division Street at a traffic signal.

OVERVIEW

TRAFFIC VOLUME VARIES

EXISTING CURB RIGHT-OFWAY

EMERGENCY ROUTING
JURISDICTION VILLAGE

SHORT-TERM PARKING -

PROTECTED BIKE LANE

IMPACT

RAISED BIKE LANE

.....

NEIGHBORHOOD MARKED GREENWAY SHARED LANE



TRAFFIC FLASHING DIVERTER BEACON



STRIPED

BIKE LANE

SHORT-TERM Division Augusta 0 Madison Jackson Harvard

Complete **Neighborhood Greenway** between North
Avenue and Roosevelt
Road



Division Street



Install periodically, with center gap for bicyclist path of travel

PLANNING-LEVEL COST ESTIMATES

Provided cost estimates are planning-level based on IDOT 2024 pricing for material and construction with a 10% contingency fee. Planning-level cost estimates for facility types and tools noted in above pages. They are not tailored to field constraints, utility conflicts, or contracting pricing which may affect costs cited. As long-term concept projects require further analysis and conversations, cost estimates are not included.

SHORT-TERM CONCEPTS

Route	Extent	Facility Type	Length, miles	Cost Estimate
Augusta Street	Cuyler to Austin	Marked Shared Lanes	0.38	\$26,290
Augusta Street	Harlem to Cuyler	Striped Lanes	1.12	\$160,710
Chicago Avenue	Kenilworth to Ridgeland	Protected Bike Lanes	0.66	\$633,930
Division Street	Harlem to Austin	Add Conflict Markings to Existing Striped Lanes	1.50	\$1,780,350
East Ave	I-290 Bridge	Protected Bike Lanes	0.06	\$52,800
Elmwood Ave/ Fair Oaks Ave/ East Ave/ Scoville Ave	North to Roosevelt	Neighborhood Greenway	3.19	\$566,170
Erie Street	Marion to Taylor	Neighborhood Greenway	1.37	\$181,720
Forest Avenue	North to Lake	Marked Shared Lanes	0.10	\$4,180
Forest Avenue	Lake to Ontario	Striped Lanes	0.10	\$50,270
Forest Avenue	Erie to Ontario	Marked Shared Lanes with contraflow	0.12	\$10,450
Harvard Street	Maple to Humphrey	Striped Lanes (Marked Shared Lane at school blocks)	1.44	\$156,530
Hayes Avenue/ Harvey Avenue/ Lombard Avenue	North to Roosevelt	Neighborhood Greenway	3.28	\$402,930
Home Avenue	Viaduct	Protected Bike Lanes	0.03	\$26,400
Jackson Boulevard	Euclid to Ridgeland	Protected Bike Lane	0.44	\$466,620
Jackson Boulevard	Highland to Lombard	Protected Bike Lane	0.12	\$115,280
Jackson Boulevard	Lombard to Austin	Striped Lanes	0.24	\$44,440
Kenilworth Avenue/ Clinton Avenue/ Home Avenue	North to Roosevelt	Neighborhood Greenway	3.19	\$412,170
Lake Street	Scoville to East	Marked Shared Lanes	80.0	\$3,300
Le Moyne Parkway	Marion to Austin	Neighborhood Greenway	1.45	\$295,790
Madison Street	Oak Park to Austin	Pre-Cast Curbs to Buffer	0.40	\$352,000
Marion Street	North to Erie	Neighborhood Greenway	1.23	\$251,900
Pleasant Street	Maple to Humphrey	Neighborhood Greenway	1.48	\$254,870
South Boulevard	Home to Oak Park	Striped Lanes	0.30	\$18,920
Thomas Street	Marion to Humphrey	Neighborhood Greenway	1.40	\$202,840
Van Buren Street	Humphrey to Home	Neighborhood Greenway	1.30	\$178,750

MID-TERM CONCEPTS

Route	Extent	Facility Type	Length, miles	Cost Estimate
Augusta Street	Harlem to Cuyler	Raised Bike Lanes	1.12	\$1,298,110
Chicago Avenue	Ridgeland to Harvey	Protected Bike Lanes	0.17	\$163,240
Erie Street	Marion to Harlem Ct	Neighborhood Greenway	0.12	\$15,730
Harlem Court	Erie to Ontario	Marked Shared Lanes	0.09	\$3,740
Ontario Street	Harlem to Harlem	Marked Shared Lanes	0.04	\$1,650
Scoville Avenue	South to Lake	Protected Bike Lanes	0.10	\$88,000
Lake Street	Scoville to East	Protected Bike Lanes	0.08	\$70,400
Greenfield Street	Harlem to Marion	Marked Shared Lanes	0.07	\$104,170
Adams Street	Maple to Grove	Neighborhood Greenway	0.43	\$50,600
Jackson Boulevard	Ridgeland to Highland	Protected Bike Lane	0.13	\$397,870
Harvard Street	Maple to Humphrey	Raised Bike Lanes	1.44	\$1,570,360
Division Street	Harlem to Austin	Raised Bike Lanes	1.50	\$1,659,460
Oak Park Avenue	North to Chicago	Buffered Bike Lane	1.00	\$62,920
Harrison Street	East to Scoville	Protected Bike Lanes	0.06	\$52,800
Scoville Avenue	Harrison to Van Buren	Protected Bike Lanes	0.12	\$105,600

LONG-TERM CONCEPTS

Route	Extent	Facility Type	Length, miles
Augusta Street	Harvey to Humphrey	Raised Bike Lanes	0.27
Augusta Street	Cuyler to Harvey	Protected Bike Lanes	0.08
Chicago Avenue	Harvey to Austin	Protected Bike Lanes	0.50
Chicago Avenue	Harlem to Kenilworth	Protected Bike Lanes	0.38
South Boulevard	Kenilworth to Home	Protected Bike Lanes	0.16
North Boulevard	Home to Marion	Protected Bike Lanes	0.09
South Boulevard	Ridgeland to Scoville	Protected Bike Lanes	0.17
Jackson Boulevard	Home to Grove	Protected Bike Lane	0.22
Jackson Boulevard	Lombard to Austin	Protected Bike Lane	0.24
Harvard Street	Schools	Raised Bike Lanes	0.11
Ridgeland Avenue	North to Roosevelt	Buffered Bike Lane	3.06



BIKESHARE OVERVIEW & GOALS

Bikeshare systems provide shared bikes for rent that can be picked up and dropped off at different locations throughout a service area. Bikeshare systems are typically designed to serve shorter trips and charge fees based on the duration of the trip. Bikeshare systems are commonly used both by people who do and don't own a personal bike. For those who own personal bikes, bikeshare can be a convenient option for one-way trips, can provide access to pedal-assist electric bikes (e-bikes), and can remove personal device security concerns.

In 2023, more than 370 US cities had either a bikeshare or shared scooter program,²⁸ demonstrating the continued popularity of these programs since they first arrived in North America in the late-2000s. Bikeshare systems provide increased mobility options for residents they serve and can provide the following specific benefits:

- Increased access and connectivity to transit service
- Trip mode shift away from more environmentally harmful modes
- Opportunities for increased physical activity
- Increased access to local businesses and other community destinations.

This analysis provides an overview of the history of bikeshare in the region and in Oak Park, industry trends since 2017, bikeshare operational options available to Oak Park, a review of potential demand, an overview of station network concepts, and a draft cost estimate analysis. This report is intended to be a starting point for evaluating the future of bikeshare in Oak Park, and additional analysis is likely required to make decisions on a potential future system.

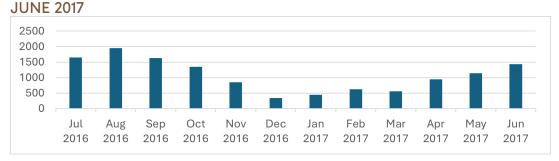
HISTORY OF BIKESHARE IN THE REGION & OAK PARK

The Divvy bikeshare system launched in Chicago in June 2013, initially deploying around 300 stations and several thousand pedal bicycles in the Central Business District and nearby residential neighborhoods. The system grew gradually in the following years, including an expansion to Evanston and Oak Park in coordination with the Chicago Department of Transportation (CDOT) in July 2016. Thirteen docking stations with a total of 207 docks were installed in Oak Park, between Augusta St and Garfield St, funded by a grant from the Illinois Department of Transportation (IDOT) and a 20% local share match.

OAK PARK DIVVY RIDERSHIP TRENDS²⁹

In the first full year of operation, the Divvy system generated 12,925 trip origins in the Village of Oak Park, an average of 35.4 trips per day. Following similar trends seen in the City of Chicago, Divvy trips peaked in late summer, with 1,952 trips in August 2016, and fell in the winter months.

FIGURE 1. DIVVY TRIP ORIGINS FROM VILLAGE OF OAK PARK STATIONS: JULY 2016-



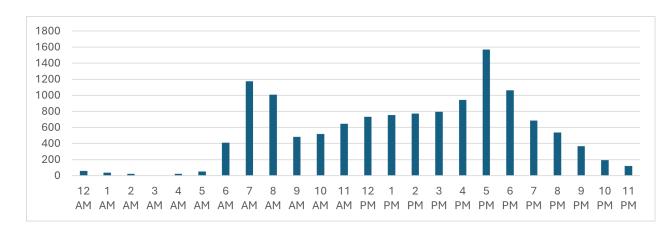
As Figure 2 shows, the most popular Divvy stations were at the Harlem/Lake CTA station (16% of all trips) and at the Frank Lloyd Wright Home and Studio (12% of all trips).

FIGURE 2. OAK PARK DIVVY STATIONS AND TRIPS: JULY 2016-JUNE 2017

Station Name	Trips
Marion St & South Blvd	2,035
Forest Ave & Chicago Ave	1,617
Oak Park Ave & South Blvd	1,275
Forest Ave & Lake St	1,195
Wisconsin Ave & Madison St	1,137
East Ave & Madison St	904
Ridgeland Ave & Lake St	882
Cuyler Ave & Augusta St	846
Lombard Ave & Garfield St	825
Oak Park Ave & Harrison St	776
East Ave & Garfield St	749
Lombard Ave & Madison St	457
Humphrey Ave & Ontario St	276

The average length of a Divvy trip in Oak Park was just under 15 minutes, and trips saw clear peaks between 7:00-9:00am and 5:00-7:00pm, suggesting that the service was used to facilitate work commuting trips.

FIGURE 3: DIVVY TRIP ORIGINS FROM VILLAGE OF OAK PARK STATIONS BY TIME OF **DAY: JULY 2016-JUNE 2017**



OAK PARK DIVVY COST STRUCTURE

The Village of Oak Park paid a monthly fee of \$125/dock to operate the system and was entitled to revenues that included the membership fees of all Oak Park residents, 24-hour pass revenue (if purchased in the Village), and all overage fees related to 24-hour passes purchased in the Village. Oak Park also received a portion of the system's advertising revenue. The operator retained all other revenue. According to an analysis of the first nine months of operation provided by Village staff, these revenues amounted to just under \$9,900/month. Meanwhile, costs equaled just over \$26,600/month. In its first nine months of operation, the system cost the Village of Oak Park approximately \$16,700 per month, on net.

OAK PARK DIVVY PROGRAM END

In January 2018, the Village of Oak Park Board of Trustees voted 4-3 to end the Divvy program in the Village. Trustees who voted to end the program cited high costs and low ridership, but other Trustees expressed a desire to give the system more time to develop and grow. Several residents have expressed the opinion³⁰ since the program ended that the small number of stations in limited parts of the Village was a contributing factor to low ridership.

DIVVY SINCE 2017

In 2019, Lyft acquired Divvy operator Motivate and took over both management and sponsorship of the system. In the years since Divvy service ended in Oak Park, the system has continued a substantial expansion in the City of Chicago. As of March 2025, there are more than 1,000 stations in Chicago, across nearly every neighborhood. The Divvy system now borders Oak Park on both the east and north sides of the Village. Pedal-assist electric bikes (e-bikes) were added to the Divvy fleet in 2020, and electric scooters (e-scooters) were added in 2022. Both e-bikes and e-scooters have the capability to end trips outside of stations by locking to bike racks and street signs, although pedal bikes must still be returned to docking stations. Currently, Divvy e-scooters only operate in a limited portion of the service area.

The Divvy system saw a substantial ridership jump in 2021 (which has since been sustained), potentially attributable to a range of factors including the introduction of e-bikes, changing mobility patterns due to the pandemic, and reduced transit service frequency during the pandemic. This jump in ridership also coincided with an increase in the share of non-member trips, indicating a shift in who was using the system. In 2019, non-members accounted for 23% of bike trips, compared to 36% in 2023. In 2023, the Divvy system recorded a record number of total trips, at just over 6.6 million (compared to 3.8 million trips in 2017). In 2023, Divvy trips by device type were as follows:

Pedal Bikes: 41.4%
E-Bikes: 44.6%
E-Scooters: 14%

Since 2017, the cost of Divvy rides and memberships have increased, and the cost of a 15-minute e-bike or e-scooter trip is about twice the cost of a 15-minute pedal bike trip, which is likely a key factor in the sustained popularity of pedal bikes. Although some bikeshare systems have gone fully to e-devices, the Divvy system plans to continue offering pedal bikes, adding several thousand new units in recent years.

CURRENT STATE OF THE SHARED MICROMOBILITY INDUSTRY

When Oak Park last hosted bikeshare, the industry was relatively straightforward—dedicated bikeshare operators entered into contracts with government agencies or nonprofits to deploy systems comprised of docking stations and pedal bikes that could only be rented from and returned to those docking stations.

In 2024, the industry has become much more diverse, with a broader "shared micromobility" ecosystem emerging. Key evolutions since 2017 include:

- The introduction and popularity of e-bikes and e-scooters
- The introduction of "dockless" systems accessed by mobile apps
- The introduction of devices that can end trips outside docking stations
- The rise of private companies operating dockless shared bike and scooter services in municipalities under the authority of permits or licenses
- The consolidation of shared micromobility equipment providers and operators
- The failures of several nonprofit bikeshare systems
- The expansion of shared micromobility to service areas beyond urban cores and dense urban neighborhoods
- The increasing number of bikeshare systems folded into transit systems
- The rise in more regional system cooperation and administration

COST & FUNDING

North American bikeshare systems have traditionally been expected to pay for themselves through rider and sponsorship revenue. In recent years, as the industry has matured and expanded into more diverse service areas, this philosophy has begun to change. Shared micromobility systems are increasingly seen as "public transit." Several systems, such as Bluebikes in the Boston region and Capital Bikeshare in the DC region, now have operating costs directly subsidized by public agencies to maintain lower rider fees.

RIDERSHIP GROWTH

Since 2017, shared micromobility systems have seen massive ridership growth. According to NACTO, trips in the US increased from 35 million in 2017 to 133 million in 2023.³¹

The North American Bikeshare & Scootershare Association (NABSA) 2023 State of the Industry Report found that 37% of shared micromobility trips replaced a car trip. And, in 2023, shared micromobility trips offset approximately 81 million pounds of carbon dioxide emissions by replacing car trips.³²

DOCKED VS. DOCKLESS TRENDS

The North American shared micromobility industry has seen two major swings in dockless vs docked operational trends since 2017. Between 2017-2021, the industry saw a major shift to dockless operations, with the expectation that removing station infrastructure would reduce operational costs and that increasing parking flexibility would attract more riders. These dockless services also largely emerged from companies who were heavily subsidized by venture capital funding and were willing to pay fees to municipalities for the right to operate. Since 2022, there has been a shift back towards an emphasis on docked-based systems. Operators learned that re-balancing and replacing batteries on dockless devices scattered throughout a service area while maintaining overall high system standards is costly. In Chicago, Divvy is currently investing in 400 additional docking stations, and Lyft requires that all devices be returned to stations in many of their major systems (Divvy being an outlier).

BIKESHARE OPERATIONS OPTIONS

The Village of Oak Park has three primary bikeshare operations options:

- 1. Re-join the Divvy system
- 2. Create a new bikeshare system
- 3. Develop a permit/license program that allows shared micromobility companies to operate

Further, the Village of Oak Park must decide whether to pursue any of these options either independently or as part of a larger regional coalition of municipalities.

DECISION POINT: SOLE OPERATION VS. REGIONAL COORDINATION

Oak Park could decide to go it alone and develop a unique service that operates only within the boundaries of the Village. Alternatively, Oak Park could coordinate a service with neighboring municipalities and/or several municipalities in the region. Given its small footprint, Oak Park is likely to see higher ridership if coordinating a system with neighboring municipal and/or regional partners. Broader cooperation is likely to result in increased trip opportunities (across municipal boundaries) and improved leverage in negotiating operational terms and equipment costs. This coordination could include either co-operation with other municipalities or joining a partnership organized under a regional coordinating body such as Cook County, the RTA, or CMAP. As of the end of 2024, Cook County is actively conducting a study on the feasibility of expanding bikeshare in the county beyond its existing footprint in Chicago and Evanston.

OPTION 1: RE-JOIN THE DIVVY SYSTEM

There are several potential benefits and drawbacks to re-joining the Divvy system. Key benefits include:

- Divvy has existing operations that could (relatively) simply be expanded into Oak Park.
- There are potential economies of scale with operational and equipment costs.
- Divvy already operates north and east of Village boundaries.
- Residents are already familiar with the Divvy system.
- Divvy service appears in the Ventra app.

Key drawbacks include:

- Control of major system decisions, including pricing, operator, service levels, and equipment, would likely be largely bound by CDOT's priorities and their primary contract with the operator.
- Divvy's operational and cost model may not be the best fit for Oak Park's needs.

Conversation with Lyft:

To help understand what re-joining Divvy might look like, the project team engaged in a conversation with system operator, Lyft. Although Lyft was unable to engage in many specifics, they pointed to the Boston region's Bluebikes system as a likely model for how Oak Park would join Divvy. In the Bluebikes system, which is comprised of Boston and nine regional municipalities, Lyft retains most revenue, while the municipalities own the equipment. The Boston area's regional planning agency, The Metropolitan Area Planning Council (MAPC), plays a key role coordinating the contract and system operations. Boston and three original neighboring municipalities comprise of the "legacy" system whereby they pay no fee to operate service. However, other municipalities that have joined the system in more recent years pay a fixed fee for service and do not receive revenues.

Conversation with Boston Region:

The project team interviewed staff at both the City of Somerville, MA (a legacy municipality in the system), as well as MAPC. Key information learned includes:

- Non-legacy municipalities pay a monthly fee of \$55-per-dock to operate the system.
- That monthly fee is reduced if a municipality hits certain ridership targets.
- · Communities generating high ridership tend to have strong local champions.
- Non-legacy municipalities need strong marketing and outreach to grow ridership.
- MAPC sees its role as critical to helping bring municipalities together and helping them negotiate with the operator collectively.

OPTION 2: CREATE A NEW BIKESHARE SYSTEM

The Village of Oak Park could contract with a bikeshare system operator to establish a brand new service, either independently or with a collation of regional partners. Creating a new system would likely require substantial upfront effort and coordination, but the benefit would be the opportunity to establish a system tailored to the needs of Oak Park. This would also open an opportunity for a dockless system if so desired (Lyft is unlikely to expand Divvy into Oak Park without stations, per Lyft's comments on committing to dock-based systems moving forward). The key downside of this option is that Oak Park residents would be unable to use this service to access Chicago and would need to use multiple systems when riding in Oak Park versus when riding in Chicago.

OPTION 3: ESTABLISH A SHARED MICROMOBILITY PERMIT OR LICENSE PROGRAM

The Village of Oak Park could establish a permit or business license program that would allow shared micromobility operators to deploy vehicles for rent within the Village. The terms of this permit/license may include collecting a fee for the right of these companies to operate, although a low-fee or zero-fee permit/license would attract more interest and could allow Oak Park to set more specific operational standards. These companies would likely offer exclusively dockless operations. The key upside of this option is potentially much lower financial risk to the Village (these operators tend to supply equipment at no cost to municipalities). However, the key downside is less Village control over operations and outcomes and less long-term stability. Permit/license programs can also ultimately require intensive regulation to enforce established rules.

PROJECTING BIKESHARE DEMAND

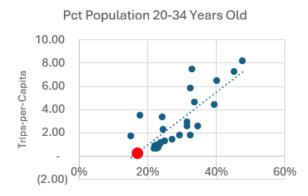
A key decision point for ending bikeshare service in the Village in 2018 was demand for the service. Understanding potential demand for a future service is important to make any decisions moving forward.

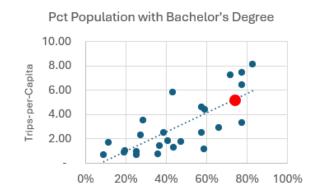
PREDICTORS OF DEMAND

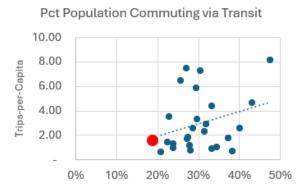
The project team began by reviewing a 2019 academic paper³³ identifying the factors that can be used to model bikeshare demand:

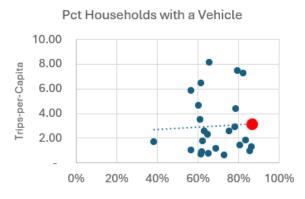
- Age: Specifically, share of 20–34-year-olds
- Education: High school diplomas and Bachelor's degrees
- Public Transportation: Commuting to work using transit
- Car Ownership: Number of vehicles not considered
- Income: Median household income
- Density: Population density

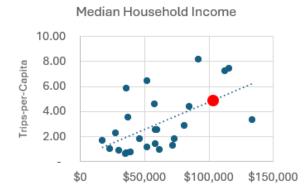
Utilizing the Chicago Metropolitan Agency for Planning (CMAP)'s Community Data Snapshots, the project team collected Divvy trips-per-capita data as well as data on the predictors of demand for each of Chicago's Community Areas that have had Divvy service since at least 2017. The graphs below show relationships for each of these factors based on local data.

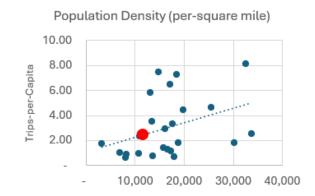












The red dots along the trendlines represent where Oak Park falls on each X axis. For predicting bikeshare demand, the Village sits on the low end of percent of 20-34-year-olds (16.7%), transit commuting (18.8%), and population density (11,454). However, the Village sits on the high end of college education (76.8%), and median household income (\$103,264). Vehicle ownership (87.5%) appears to be a relatively weak predictor. This analysis indicates Oak Park has characteristics that would both indicate relatively low bikeshare demand and relatively high bikeshare demand.

SIMILAR COMMUNITY AREAS

Utilizing CMAP Community Snapshots data, the project team next developed an analysis to assign a "similarity score" to Oak Park for each Community Area in Chicago, based on the predictors of bikeshare demand and the observed magnitude of each factor's relative influence. Figure 4 lists the Chicago Community Areas ranked as the most similar to Oak Park in regards to factors predicting bikeshare demand:

FIGURE 4. SIMILARITY SCORE RANKING

Rank	Community Area	Similarity Score	Divvy Bikeshare Summary
1	Edison Park	7.24	Limited service, no stations in place yet
2	Beverly	7.23	Full station network still being built out
3	Mount Greenwood	7.01	Full station network still being built out
4	Norwood Park	6.92	Limited service, no stations in place yet
5	Jefferson Park	6.86	Full station network still being built out
6	North Center	6.86	Top 16% of trips-per-capita among Community Areas
7	Dunning	6.65	Full station network still being built out
8	Portage Park	6.62	Full station network still being built out
9	Calumet Heights	6.59	Bottom 21% of trips-per-capita among Community Areas
10	Forest Glen	6.59	Limited service and stations in place yet

As Figure 4 shows, of the 10 Community Areas with the highest "similarity scores," eight are either relatively new to the Divvy system and have few or no stations in place or their full station network is still being built out. These Community Areas therefore lack sufficient data to make predictions. Two other Community Areas that do have long-established Divvy service show opposite predictions.

In summary, Oak Park does not have sufficient peer Chicago neighborhoods (with regards to bikeshare predictive factors) with a meaningful history of Divvy service to make useful bikeshare demand projections based on the existing performance of the Community Areas.

RIDERSHIP GROWTH TRENDS

In 2017, the last full year of Divvy service in Oak Park, a total of 27 Community Areas in Chicago were either completely or nearly completely included in the Divvy service area. Comparing ridership in 2017 to 2023 in those Community Areas can provide a clue as to what Oak Park ridership may have looked like in 2023 if it had maintained service. Collectively, those 27 Community Areas saw a median growth rate of 226% between 2017-2023. Given Oak Park's 2017 ridership of 11,114 trips, this data indicates that if Oak Park had trended along the median growth rate of the rest of the service area, it may have seen 25,080 trips in 2023.

What explains this growth? A maturing system, increased resident familiarity, altered mobility habits during the pandemic, improved bike infrastructure, and the introduction of e-bikes are all potentially responsible for growth in Divvy ridership between 2017-2023. Oak Park would have experienced many of these factors as well within that six-year period.

INCREASING FUTURE RIDERSHIP

Data and research indicate several factors could increase ridership in a future bikeshare system over Oak Park's initial participation in Divvy:

- Introducing e-bikes, which provide increased utility to more riders for more trip purposes.
- Building a denser station network, including within residential areas.
- Building out enhanced bicycle infrastructure.
- Enhanced marketing and outreach.

Other unknown future factors may also have an impact on ridership demand, including:

- Whether adjacent municipalities are also in the service area.
- Trip pricing structures.
- Quality of devices.
- Quality of user-interface (mobile app and/or station kiosk).
- Enhanced integration with transit system.

BIKESHARE STATION NETWORK PLANNING

Station-based bikeshare can improve user reliability and help keep bikes well-organized while parked. One of the key downsides of dockless systems is cluttered parking that is unsightly, potentially dangerous for pedestrians, and very difficult to control and regulate, even with strict parking standards and corrals.

In a station-based system, the key questions in establishing a station network are determining the number of stations and where they will be installed. Oak Park's 2015 Bikeshare Feasibility Study approached the station network question using a traditional method for bikeshare system planning: gathering detailed demand indicator data (such as population density, commercial employment density, proximity to transit, and population age) to determine "which destinations have the highest potential for bikeshare use." This analysis led to the placement of 13 stations in 2016.

An alternative station network planning process approaches the problem not from the premise of only identifying the most high-demand station locations, necessarily, but from the perspective that bikeshare should serve an entire defined area. While identifying the highest-demand locations for stations is still eventually important, this alternative process aims to develop a complete network for an entire defined service area.

Key to this premise are two considerations:

- 1. Riders need access to both trip origin points and destination points.
- 2. The closer a potential rider is to a station at the start of their trip and the closer their destination is to a station, the more likely they are to use bikeshare.

STATION DENSITY

This second consideration can be quantified using station density. The denser a station network is (assuming the network is relatively evenly distributed), the closer more stations will be to a potential rider and to their destinations.

A 2022 study of San Francisco's bikeshare program concluded: "Ease of availability as indicated by station density is the single most important factor that increases utilization."34 Research on Paris' bikeshare program from the University of Chicago concluded that "a 10% reduction in travel distance to bikeshare stations can increase system use by 6.7%."35

So how dense should a bikeshare network be to generate high ridership? The answer ultimately is: The denser the better. For system planning purposes, however, it's important to identify concrete numbers. A 2015 NACTO Equity Practitioner Paper on bikeshare station siting reported that people appear to be willing to walk up to 5 minutes to reach a bike.³⁶ The NACTO paper also reported a strong correlation between high station density and high ridership. Typical human walking speed equates to covering approximately 0.25 miles in 5 minutes. Therefore, if stations are placed 0.5 miles apart, a person standing directly

between those two stations would be no more than 5 minutes from a station (assuming a perfect network). What's key to this premise is that proximity to a station is important no matter the surrounding population density. High- and low-density population areas each need the same minimum station network density to accommodate potential riders' willingness to walk to a station.

Figure 5 shows hypothetical stations on a perfect grid placed 0.5 miles away from every other nearest station in an offset fashion. In this arrangement, 100% of the service area is within 5 minutes of a station. This half-mile offset grid equates to a density of 8 stations per square mile.

FIGURE 5. STATION SPACING CONCEPT | 8 PER SQUARE MILE

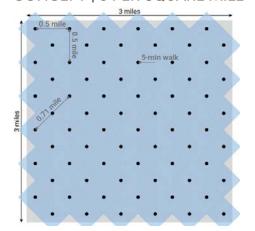
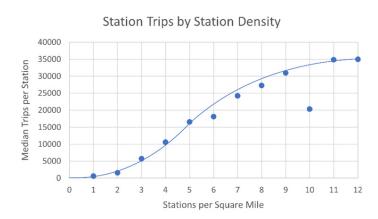


FIGURE 6. 2022 DIVVY TRIPS-PER-STATION, BY STATION DENSITY



To increase ridership and system utility, NACTO's 2015 paper recommends an even higher optimal density—stations approximately every 0.2 miles, or 28 per-square-mile. While this density reflects a highly usable system, it's also unrealistic and cost-prohibitive for most cities. Chicago's Loop features a station density of 16 per-square-mile, and northside neighborhoods including Lincoln Park, Lake View, Uptown, and Edgewater feature station densities around 8 per-square-mile. Stations in these neighborhoods all see very high ridership compared to the system overall (station densities are closer to 4.0 per-square mile in most other neighborhoods).

Chicago's Divvy network offers a further clue to station density targets. An analysis was run to compare 2022 Divvy station trip data and station network density.³⁷ Figure 6 shows that trips-per-station continue to increase as density increases, but the curve is steepest as density increases between 4-5 stations-per-square-mile and begins to taper more substantially past 8-9 stations per-square-mile.

Collectively, these data points indicate the highest per-unit rates of return at approximately 5 stations per-square-mile with continued strong returns up to 8-10 stations per-square-mile.

STATION DENSITY TRADE-OFFS

Determining the proper station network density ultimately comes down to a series of trade-offs: a denser network is likely to generate more trips, but this network is also more costly to maintain (especially if an operator charges on a per-dock basis). Installing more stations also increases the financial risk if ridership ultimately does not meet expectations. However, what data from Chicago shows is that meager station density is unlikely to generate high ridership. Although high station densities do not guarantee success, they are necessary for success to be possible. Based on the data above, it is recommended that an initial station network of 5.0 per-square-mile be established, with additional stations likely to generate additional ridership.

DETERMINING A SERVICE AREA

A bikeshare service area needs to be large enough to provide potential riders with many potential origin and destination points. Given Oak Park's relatively compact total size (4.7 square miles), it is recommended that a future bikeshare station network serve the entire Village. A service area smaller than Village boundaries risks providing insufficient origin and destination points to be a useful system.

STATION SIZE

Station size is a trade-off in maximizing resources and system reliability. Installing a network of smaller stations could allow for more total stations to be installed—increasing access to and from stations. However, too-small stations can create system reliability issues because the rental or return of only a small number of bikes can more quickly impact bike or dock availability. Therefore, a station size of approximately 11-15 docks is recommended, with stations potentially smaller than 11 docks likely okay in some residential neighborhoods and larger stations in highest-demand locations, such as transit stations and downtown.

OAK PARK FUTURE BIKESHARE STATION NETWORK CONCEPT

Oak Park's 2016 Divvy station network placed infrastructure at many expected high-demand locations, such as transit stations, parks, libraries and commercial areas. Figure 2 also provides insight into what stations proved more or less popular. A future station network would likely include many of the original 2016 locations but several additional stations as well to achieve a complete network throughout the Village. Per the analysis above, a Village-wide station network at a density of 5.0 per-square-mile would equate to 24 total stations.

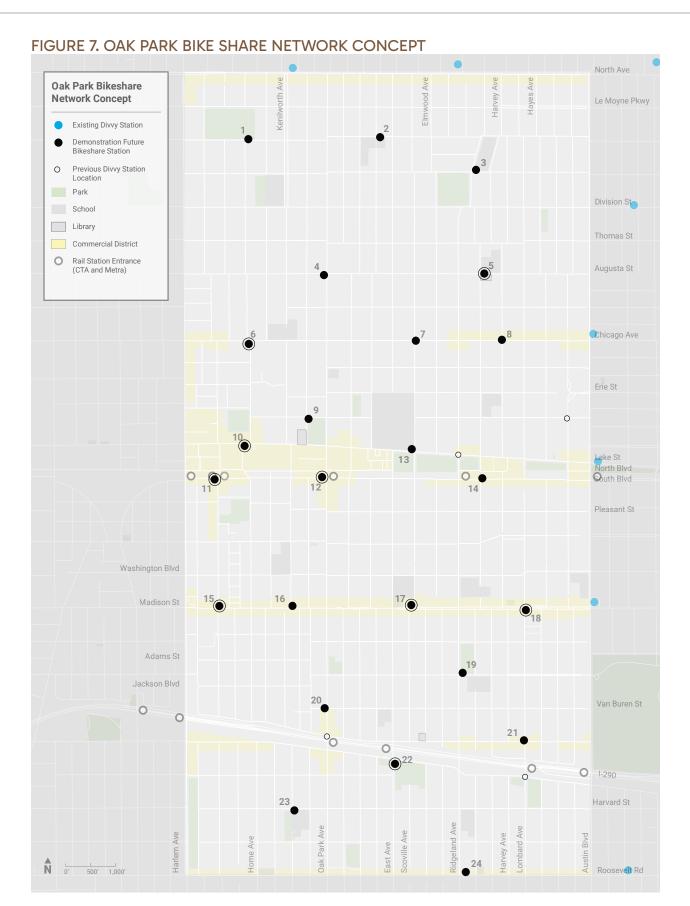
Figure 7 details a concept station network that spreads the 24 stations out relatively evenly to maximize access while also locating stations at key destinations. Many of the stations are along existing or proposed bikeways.

IDENTIFYING STATION LOCATIONS

In general, stations should be installed in highly visible and well-lit areas and as close as possible to any key destinations. At transit stations, bikeshare stations should be installed near entrances/exists for streamlined transfers.

Among the most complex tasks in a station siting process is identifying installation locations in highly-residential neighborhoods. The concept in Figure 7 shows how parks and future bikeway infrastructure could be used to minimize the installation of stations directly in front of homes.

Additionally, newer station designs available from several operators in recent years have provided increased siting flexibility, particularly modular docking configurations that allow stations to be more easily split around obstructions. Finally, cities including Washington, DC, Chicago, and New York allow on-street bikeshare stations to be placed in vehicle "clear zones" at intersections. Stations act to physically prevent vehicles from standing in these clear zones (typically within 20-30' of a crosswalk), which helps maintain clear pedestrian sight lines. These placements also reduce the potential number of on-street parking spaces that need to be removed to install an on-street bikeshare station.



DRAFT SYSTEM COST ESTIMATES

A draft cost estimate for a dock-based bikeshare system was developed for both system equipment and operations. Exact costs are highly dependent on a variety of factors, including contractor service level agreements, potential regional system efficiencies, and equipment desired.

EQUIPMENT COSTS

Equipment costs are largely one-time fixed costs. Although station repairs and the replacement of lost bikes will be necessary throughout the life of a system, these costs are often baked into the system operating costs. Compared to operating costs, there are more opportunities available for government grants to cover the cost of equipment.

The Divvy system provides a sponsorship program whereby a developer or institution can purchase a bikeshare station (which includes 10 additional bikes). The cost of a new sponsorship station, with 15 docks, plus 10 bikes, is currently \$56,000. For purposes of a draft estimate, this figure will be used to price out the equipment cost of one 15-dock station, including sufficient bikes to operate the system.

- Scenario A: 24 stations (5-per-sq-mile) with an average of 15 docks: \$1,344,000
- Scenario B: 38 stations (8-per-sq-mile) with an average of 15 docks: \$2,128,000

These estimates are for equipment only. Additional system start-up costs may include system planning, permitting, and installation.

CHARGING STATIONS

Several bikeshare systems, including Divvy, feature charging stations that charge e-bikes while they are docked. These stations reduce the need for the operator to travel around the system swapping batteries, which reduces the environmental footprint of operations and can bring down operational costs. Charging stations themselves are more costly, and the cost of connecting them to the electrical grid can be costly as well. But these extra costs may pay for themselves.

One potential benefit of installing charging stations is the opportunity to negotiate lower fees paid to the system operator due to reduced operational costs. Higher upfront costs for equipment, which have more opportunities for grant funding, can potentially lower regular system operating costs, which are more likely to come out of local budgets.

OPERATING COSTS

North American dock-based bikeshare systems have traditionally bee expected to pay for themselves through rider and sponsorship revenue. In recent years, as the industry has matured and expanded into more diverse service areas, this philosophy has begun to change. Shared micromobility systems are increasingly seen as "public transit." Several systems, such as Bluebikes in the Boston region and Capital Bikeshare in the DC region, are now directly subsidized to control the cost of rider fees. Today, it should be expected that a high-quality bikeshare system outside the core and densest neighborhoods in a region is unlikely to pay for itself and will require operating subsidies—similar to public transit systems.

When Oak Park last hosted Divvy stations, the fee owed to the operator was \$125/dock with relatively modest revenue opportunities. According to a conversation with Lyft, if Oak Park re-joined Divvy, they expect the cost model would be similar to the Bluebikes program in the Boston region, which charges \$55/dock with no revenue sharing for non-legacy municipalities. These monthly fees can be reduced if municipalities hit certain ridership targets. Figure 8 illustrates draft cost estimates for three system and station size scenarios, using the \$55/dock metric. For reference, when Divvy service was last available in Oak Park, the net average monthly system cost over the first nine months was approximately \$16,700.

FIGURE 8. ESTIMATED OPERATING COSTS

System Operating Costs	Scenario A	Scenario B	Scenario C
Station Density (per sq mi)	5.0	5.0	8.0
Total System Stations	24	24	38
Average Docks/Station	15	11	15
Total System Docks	360	264	570
Monthly Per-Dock Fee	\$55	\$55	\$55
Total Monthly Cost	\$19,800	\$14,520	\$31,350
Total Annual Cost	\$237,600	\$174,240	\$376,200



CONCLUSION & RECOMMENDATIONS

While Oak Park's previous bikeshare experience was short-lived, it did demonstrate at least some demand for the service in the Village. Future demand is highly dependent on operations and pricing decisions, but the Divvy system's growth since 2017 and the introduction of new, popular e-devices point to the potential for a future Oak Park bikeshare system that generates more trips than the first iteration. One potential key lesson from Oak Park's previous bikeshare experience and from relevant research is that system success relies on strong initial network investment. A modest system is unlikely to deliver strong results.

BIKESHARE RECOMMENDATIONS

- 1. Ideally, Oak Park would join a regional system that includes the City of Chicago, but it remains to be seen whether there's a pathway to re-joining Divvy that would allow Oak Park to meet its operational and financial needs.
- 2. Oak Park should **partner** with other regional municipalities and/or a regional coordinating agency **to implement bikeshare service.**
- 3. A future system should **utilize an operator contract model**—business permit/license models typically provide lower-quality service and can be intensive to regulate.
- 4. A future system should **include e-bikes** that have proven popular in bikeshare systems, allow riders to take longer trips than on pedal bikes, bring new riders into the system, and can generate more premium fees.
- 5. A future system should be **station-based** to improve user reliability, keep down operational costs, and maintain orderly device parking.
- 6. A future system should **cover the entire Village**, including residential neighborhoods, and aim to maximize the number the residents within a 5-minute walk of a station. This will require a higher station density than Oak Park's previous station network. Scenario A represents an 85% increase in system capacity than the previous station network.
- 7. Most stations should feature 11-15 docks, with lower dock counts in mostly-residential areas and higher dock counts in high-demand areas, such as transit stations.
- 8. Oak Park should **pursue grant funding for infrastructure costs.** If possible, Oak Park should pursue enough funding to install charging stations, which could allow the Village to potentially negotiate lower system operating costs.
- 9. Oak Park should assume that a bikeshare system will require operational subsidies but should negotiate contract terms that reduce Village costs with higher ridership. A system with enough ridership can pay for itself, and contractual terms should reflect that.
- 10. Oak Park should continue to build out a high-comfort bikeway network as a strategy for generating higher bikeshare ridership.



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Bike Lane Feasibility Study Summary: Ridgeland Avenue from Roosevelt Road to North Avenue (2025)