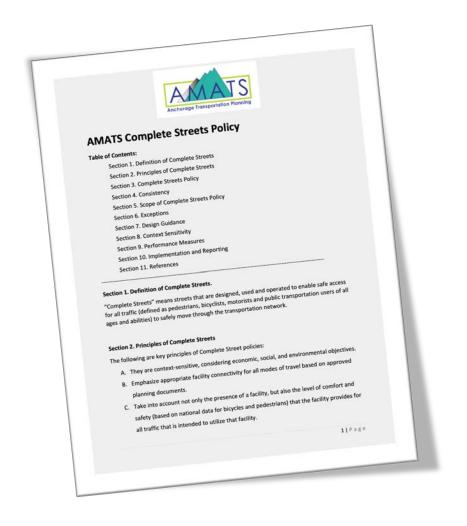


Linking Land Use & Transportation Planning

- **National Trends**
- **Complete Streets Policy**
- **Transit Oriented Development**
- Street Typologies
- Spenard Corridor Plan
- Non-motorized Plan



AMATS Complete Streets Policy: Adopted in November, 2018







Transit Oriented Development

Principles for Transport in Urban Life: Better Together

Successful sustainable cities in the twenty-first century will prioritize people by integrating transport and urban development. Making this happen means putting the Our Cities Ourselves principles into practice to create vibrant, low-carbon cities where people want to live and work.

The Our Cities Ourselves principles show how the future of transport in urban life lies in reinforcing the complementary nature of sustainable urban transport and urban development. In the face of rapid urbanization and climate change, the future of transport in urban life will depend not only on these principles, but how they work together.





Compact

In a compact city, activities are located closer to one another. requiring less time and energy to connect. When all the principles are applied collectively, a thriving compact city is created.



By building up instead of out, cities absorb urban growth in a more compact way. Density supports a lively mix of activities and better transport services, but also requires that the transport systems can handle the increase

Densify



Transit

Public transit connects and of the city. Transit corridors



integrates more distant parts are the natural places where densification should begin. High quality transit is critical to create a prosperous and equitable city that is easily accessible by all.



Connect

A city needs a tight network of streets and paths for pedestrians and cyclists as well as public transit. Creating highly permeable places allows for a variety of mobility options that make trips more direct.



A connected city becomes more animated when there is a mix of activities along the streets and paths. Different uses encourage shorter trips and more lively



Cycle

Like mixed uses, cycling activates streets and provides people with an efficient and convenient way to travel for medium distances. Cycling increases a person's access to a larger area, as well as increases the coverage of transit.



With the above principles in place, getting people out of their cars becomes easier but is not enough. Pricing and traffic reduction tools encourage people to shift away



Walk

When all the principles come together, the results are most keenly felt by the pedestrian. Vibrant, active streets where people feel safe are fundamental to the successful twenty-first century city.





- ✓ Transit
- √ Connect
- ✓ Mix
- √ Cycle
- ✓ Shift
- ✓ Walk

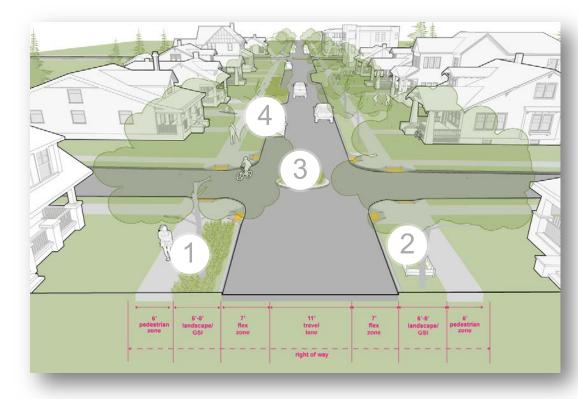




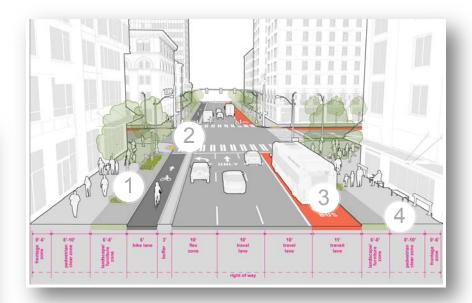




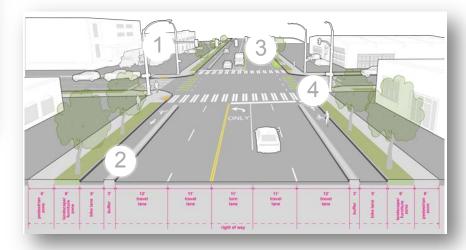
Street Typologies



Neighborhood Yield



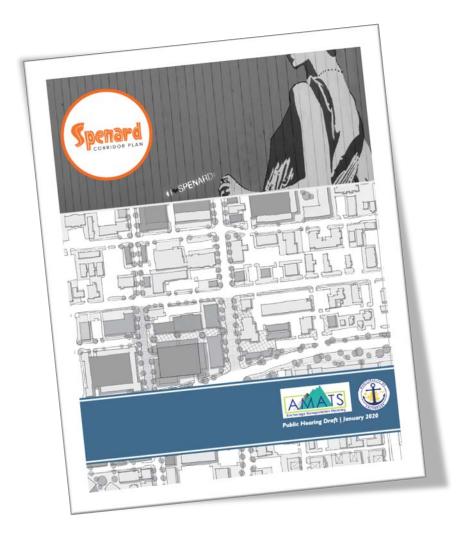
Downtown



Industrial Access



Spenard Corridor Plan: Adopted in November 2020



- √ Transit Oriented Development
- ✓ Transportation & Land Use Plan
- √ FHWA Funding & Local Match
- ✓ AMATS & MOA Long Range Planning



Plan Area











Creating Districts

South District Vision

- Stable neighborhood for local residents
- Lively visitor district
- Tourism focused development that benefits all users (ex. open space, retail, improved connections)
- Gateway design to establish entry into Spenard from the South.

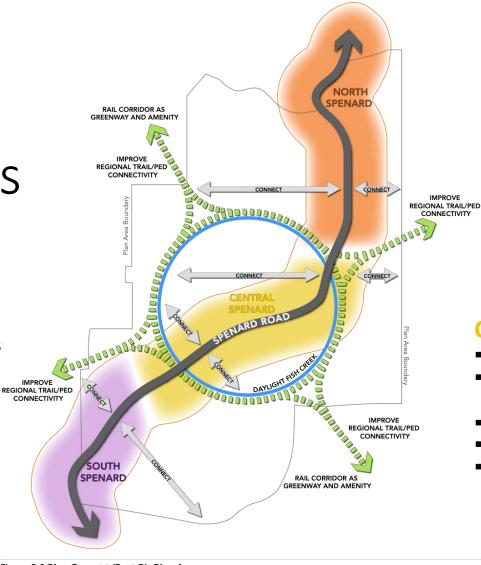


Figure 3.2 Plan Concept (Part B): Plan Area

North District Vision

- Heart of Spenard
- Destination for shopping & entertainment
- Residential, retail, restaurant, employment and creative spaces
- Urban in nature
- Pedestrian-oriented streets and outdoor gathering spaces

Central District Vision

- Neighborhood-serving businesses
- Shallow lot depths that integrate with flanking neighborhood development
- Traditional Neighborhood Design
- Smaller building development
- Some larger scale development

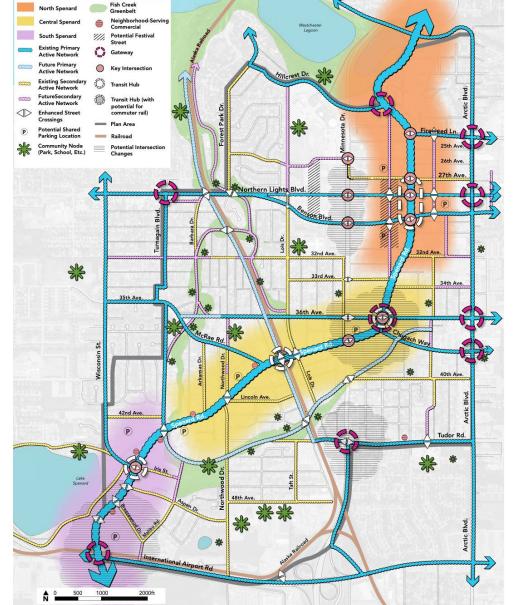


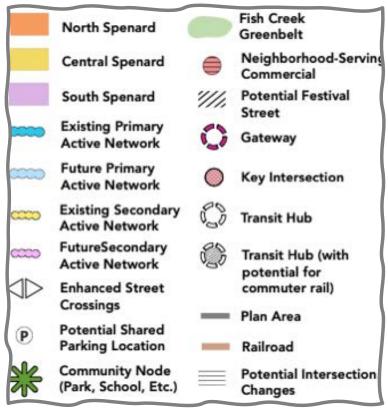




Chapter 3: Plan Framework

Creating the Framework



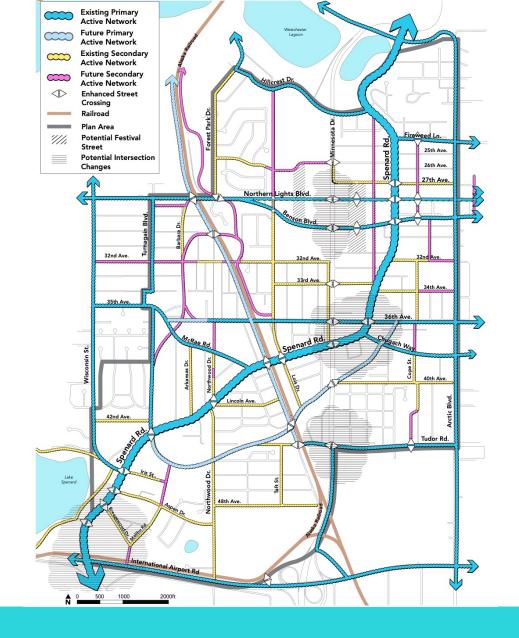


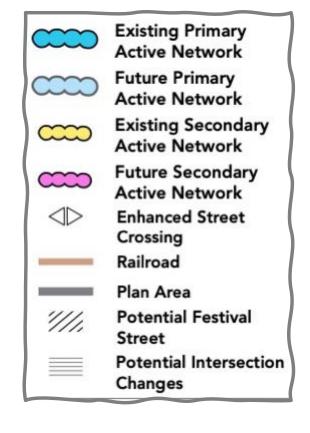






Circulation & Connectivity





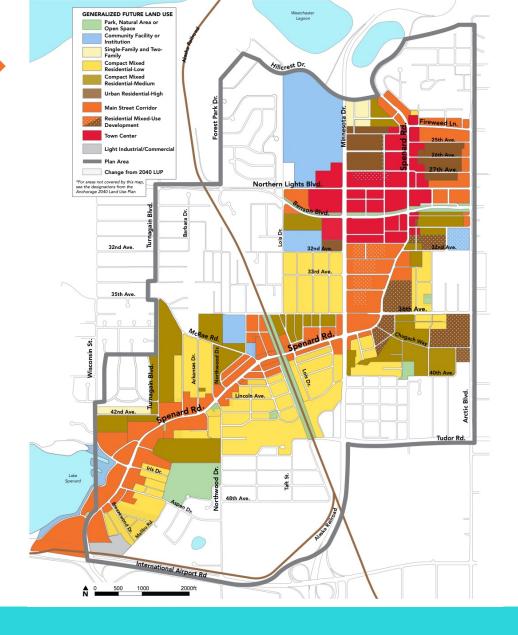






Chapter 3: Plan Framework

Land Use



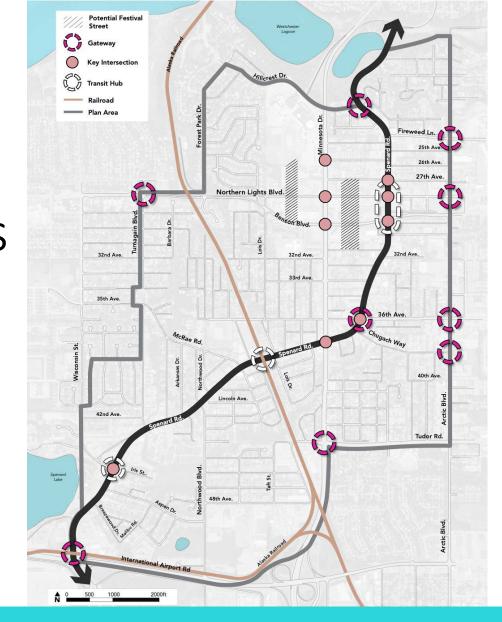


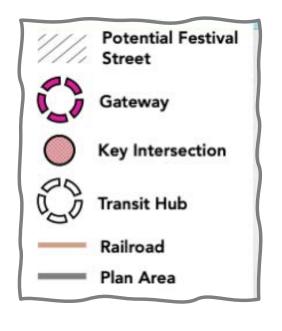






Placemaking Opportunities



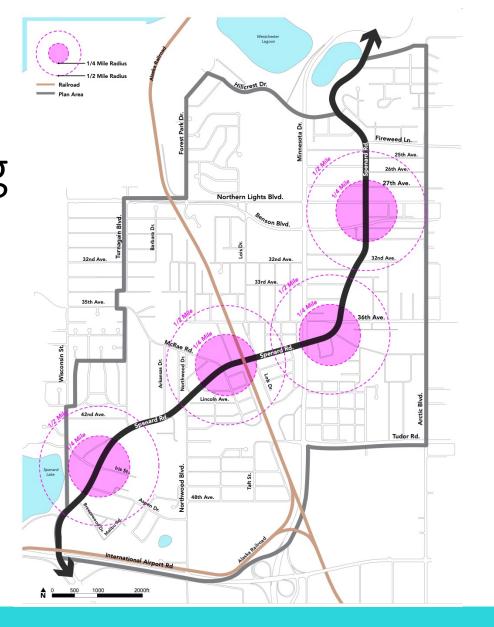


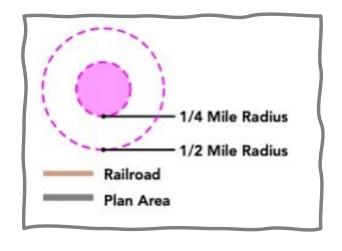






Target Parking Zones



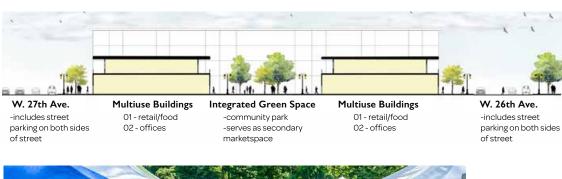




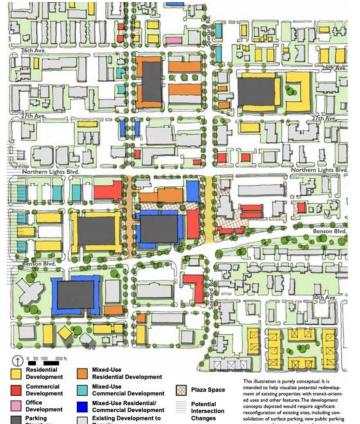




North District



















Chapter 4: District Specific Concepts

Central District



Multiuse Buildings

01 - retail/food 02 - offices

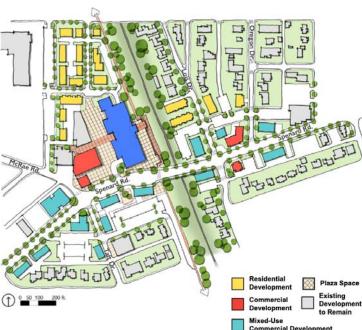
Woodland Dr.

-integrated on-street parking on both sides -emphasized plaza space activating the space between buildings

Multiuse Parking Garage

01 - comm/retail/food 02 - parking garage 03 - parking garage

04 - parking garage













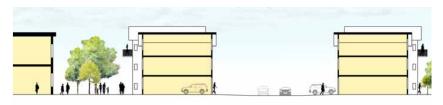






Chapter 4: District Specific Concepts

South District



Work Space

commercial building two stories office space large green space to ront of building w/ :urface parking

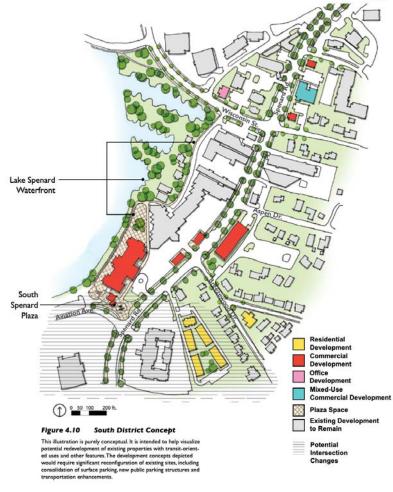
Shared Green Belt

-landscaped transition between commerical and residential zone -resting space for both sides of site

Live Space

-3 level townhouses -single car garages -both sides of townhouses surrounded with open space -maxmized unit count while maintaining tenant privacy

















Circulation Policies

Policy 1: Balanced Street Network

Policy 2: Create a Street Typologies Plan

Policy 3: Design Roadway as a Connected Grid

Policy 4: Manage Access and Mitigate Modal Conflicts

Policy 5: Enhance Bicycle Network

Policy 6: Prioritize Pedestrian Travel







Conceptual Circulation Improvements

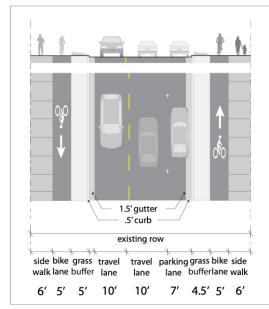


Figure 5.8 Fireweed Ln. 60' ROW - One-way Protected Bike Lane (parking one side) (for use where separated bike lanes are important)

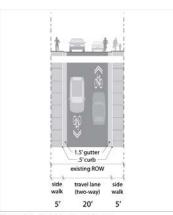


Figure 5.1 Neighborhood Street (Existing Condition - 30' ROW)

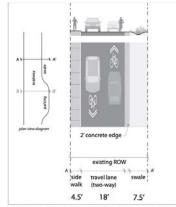


Figure 5.2 Neighborhood Street Expanded ROW - 30' ROW + Natural Drainage Section Cut A (for use where on-street parking is not important)

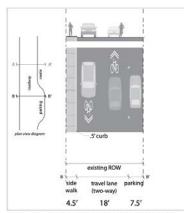


Figure 5.3 Neighborhood Street Expanded ROW -30' ROW + Natural Drainage Section Cut B (for use where on-street parking is important)

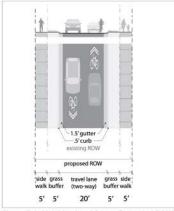


Figure 5.4 Neighborhood Street Expanded ROW 30' ROW + 10'

(for use where 10' of additional ROW is possible)

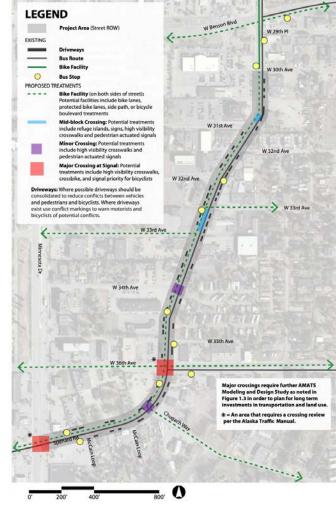


Figure 5.13 Spenard Road Corridor Crossings (Middle Segment)







Bicycle Amenities

- Bicycle Parking
- Bikeshare
- Bicycle Storage and Lockers
- On-site Bicycle Connections













Parking Policies



Join at ripcar.com

TOW ZONE

MACANI

WINDSTANCE

Zipca

In a Trocat.au

Zipca

In a Trocat.au

Zipca

In a Trocat.au

Zipca

- Flexible Parking Requirements
- Compact Parking Design
- Promote Shared Parking
- Promote Efficient Management of Parking









Implementation by Chapter

Chapter 2: Vision and Overarching Goals

Goal 1: Support Transit and Increase Ridership

		Agency	Time Frame F		Funding	
Policy	Action	Partners	S	М	L	Required
Policy 2.1: Buildings, spaces	I. Facilitate private	MOA Planning		X		
and facilities whose users	development that will	MOA Transit				
benefit from and support	increase transit ridership.					
transit service should be	2. Evaluate development					
promoted.	review processes to					
	streamline.					

Goal 2: Recognize Spenard as a Destination

		Agency	Time Frame			Funding
Policy	Action	Partners	S	М	L	Required
Policy 2.2: Expand Spenard's roll as a citywide destination and market it as a destination district.	I. Support branding of Spenard as a special destination.	MOA Office of Economic & Community Development (OECD)	X			
Policy 2.3: Promote preservation of historic resources in the area as landmarks that contribute to its distinct identity.	I. Analyze code for barriers to adaptive reuse and address them.	MOA Planning		X		

Goal 3: Celebrate the Culture of Spenard and Anchorage

	Agency		Tim	e Fra	ame	Funding
Policy	Action	Partners	S	M	L	Required
Policy 2.4: Create spaces that educate, inform and provide experiences that reinforce Spenard as a cultural destination.	I. Study opportunities to include cultural events in public spaces.	MOA OECD OMOA Parks and Recreation		X		

Table 7.2 Implementation by Chapter (continued)









AMATS

Non-Motorized Plan DRAFT



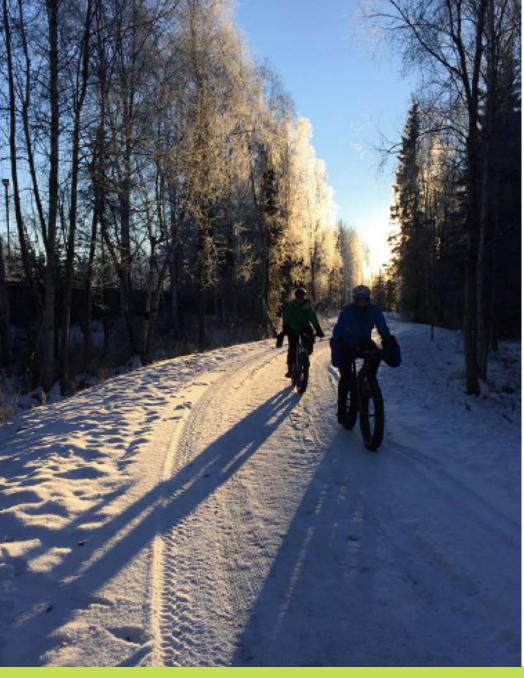


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Chapter 1: Introduction

Non-motorized Facilities

Pedestrian Network

- IDENTIFY PRIORITY CORRIDORS
- PROVIDE FLEXIBLE IMPLEMENTATION
- IMPROVE SAFETY & CONNECTIVITY

Bicycle Network

- CLOSING GAPS
- PROVIDING ON STREET FACILITIES
- CONNECT EXISTING & PLANNED
 INFRASTRUCTURE

Shared Use Path Network

- CONNECT TO EXISTING BICYLE & PEDESTRIAN
 ROUTES
- DEVELOP OFF-STREET CONNECTIONS TO LOW-STRESS ROUTES
- SERVEING RECREATION AND TRANSPORTATION



Chapter 1: Introduction

Vision Statement:

Anchorage is a world-class northern city that has an integrated network of routes accessible for people of all ages and abilities to walk, roll or glide safely on shared use pathways and streets.

GOAL 1: Increase the Use of the Non-motorized System

GOAL 2: Promote & Improve Health & Quality of Life

GOAL 3: Improve Safety & Security

GOAL 4: Optimize Maintenance for All Seasons

GOAL 5: Connect Communities Through All Modes to All Destinations

GOAL 6: Measure Non-motorized Use & Assets

GOAL 7: Build Community Through Education & Involvement



Network Analysis

Vision Zero



Figure 2.5: 4-Year Crash Summary Statistics, reproduced from the 2018 Anchorage Vision Zero Action Plan

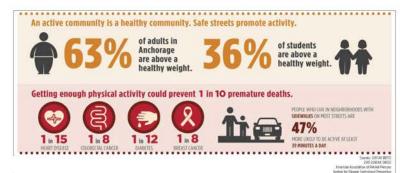


Figure 2.6: Summary health statistics related to active lifestyles, reproduced from the 2018 Anchorage Vision Zero Action Plan

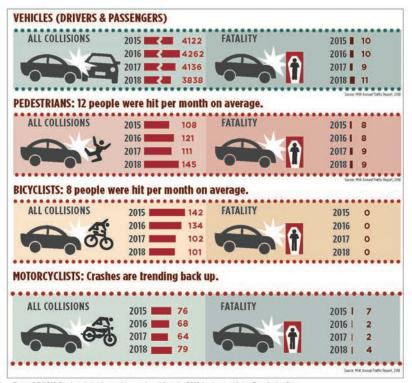
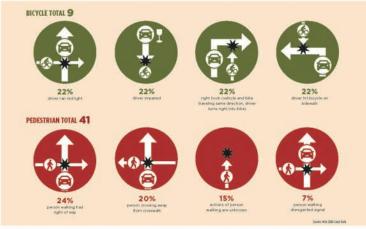


Figure 2.7: 2018 Crash statistics by mode, reproduced from the 2018 Anchorage Vision Zero Action Plan



Figure 2.8: Most vulnerable road users, reproduced from the 2018 Anchorage Vision Zero Action Plan

2018 fatal & severe crashes: what happened?



Flaure 2.9: 2018 Fatal & severe crashes: What happened?, reproduced from the 2018 Anchorage Vision Zero Action Plan

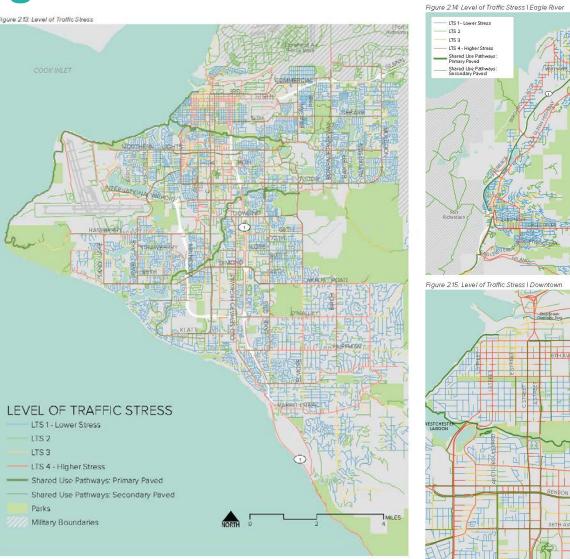


Figure 2.10: 2018 Fatal & severe crashes: What happened?, continued, reproduced from the 2018 Anchorage Vision Zero Action Plan



Network Analysis

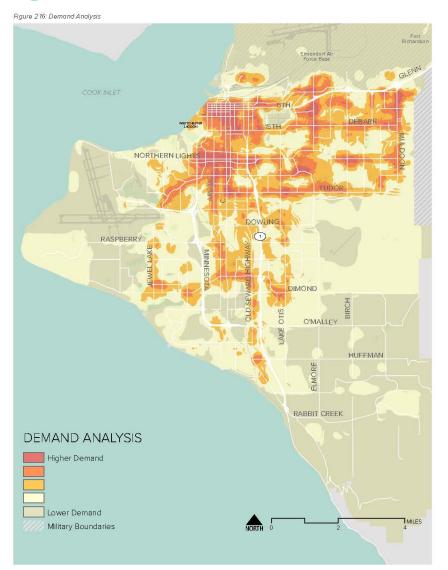
- Level of Traffic Stress
- Posted Speed Limit
- Street Width
- Presence of Bicycle Lanes
- Character of Bicycle Lanes

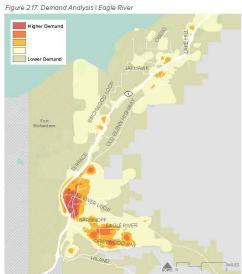




Network Analysis

- Demand Analysis
 - Live
 - Work
 - Play
 - Shop
 - Access Transit
 - Go to School







Health & Equity

Health Indicators



Obesity



Cancer Prevalence



Asthma Prevalence



Coronary Heart Disease



Diabetes Prevalence



Physical Activity



Poor Mental Health Prevalence

❖ In general, areas with poor health scores are found in the same areas that show low equity scores



Health & Equity

Equity Indicators



Age

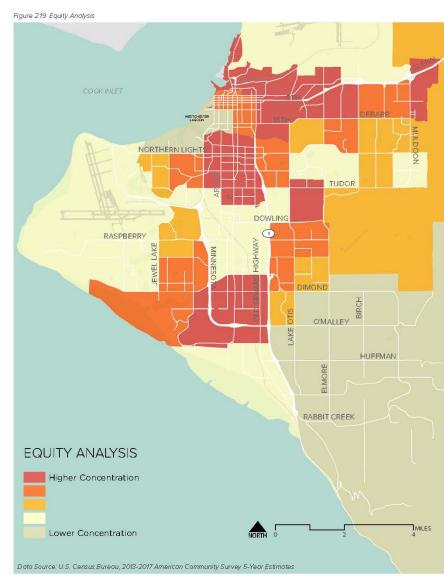


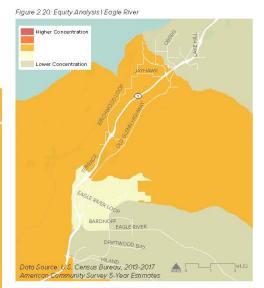


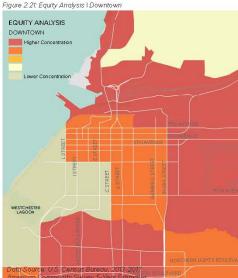












Chapter 3: Public Involvement

Methods

- Workshop
- Presentations
- Mobile Meetings
- Stakeholder Interviews
- Field Data Collection
- Walk Audits
- Online Community Survey













Chapter 3: Public Involvement

Advisory Committees

Citizens Advisory Group (CAG) + Agency Advisory Group (AAG)

- Plan Vision, Goals & Objectives
- Peer Cities Selection
- Public Engagement Strategy
- Network Recommendations
- Design Guidance
- Project Prioritization





Visioning Exercise Results

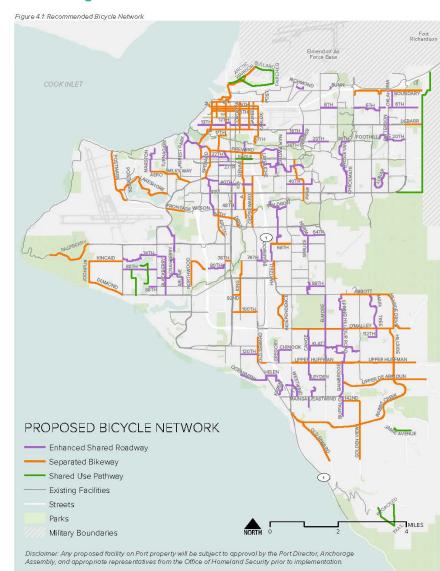


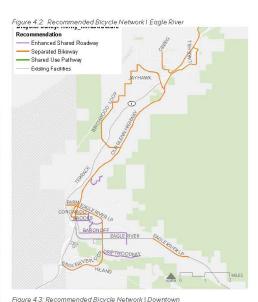


Chapter 4: Network Development

Bicycle Network

- Include on-street and off-street facilities
- Build on existing shared use pathway and sidepath network
- Provide connected, low-stress travel
- Provide upgrades to existing facilities







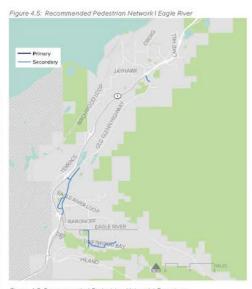


Chapter 4: Network Development

Pedestrian Network

- Identifies Primary and Secondary Corridors
- Includes Vision Zero High Injury Network
- Areas of high demand
- Areas of high need
- Proximity to transit stop locations

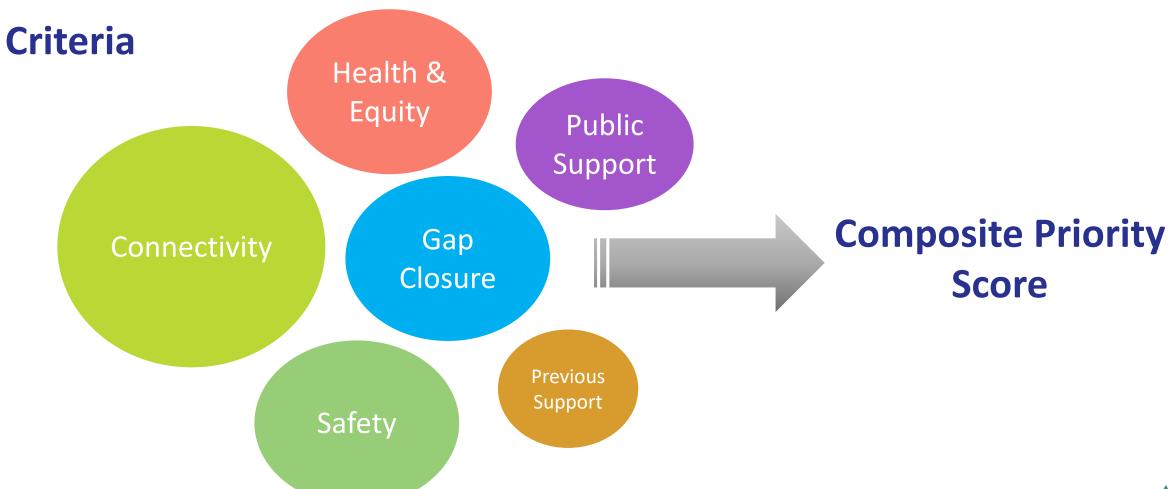






Anchorage Transportation Planning

Chapter 5: Prioritization





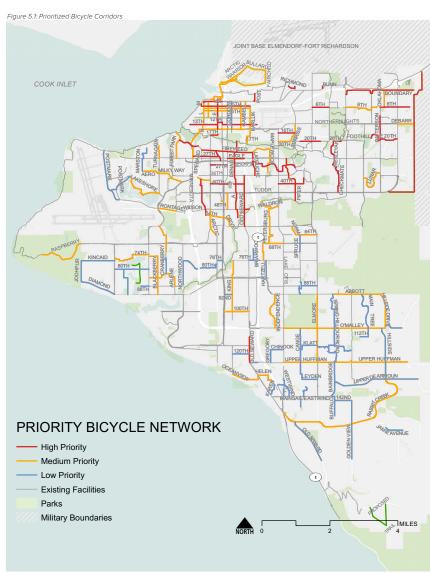
Chapter 5: Prioritization

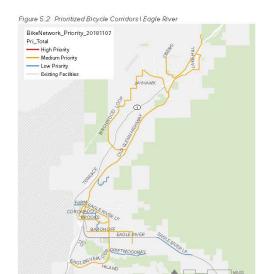
Prioritized Bicycle Network

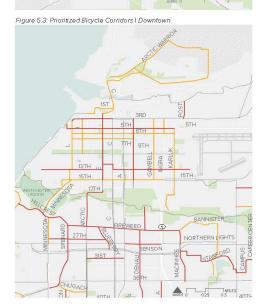
High Priority

Medium Priority

Low Priority









Chapter 5: Prioritization

Prioritized Pedestrian Corridors

High Priority

Medium Priority

Low Priority







Project Examples

- 1. 10th Avenue and Cordova Street Intersection
- 2. Campbell Creek Trail Crossing at Lake Otis Parkway
- 3. Fireweed Lane Bicycle and Pedestrian
- 4. 27th Avenue Bicycle Boulevard
- 5. 40th Avenue Sidewalk Infill
- 6. Coronado Street Separated Multi-Use Pathway

Project Details for Each

- Project description and locator map
- Project Challenges
- Concept design
- Construction cost opinion
- Maintenance cost opinion
- Funding Options
- Timeline



Project Examples: 10th Avenue and Cordova Street Intersection

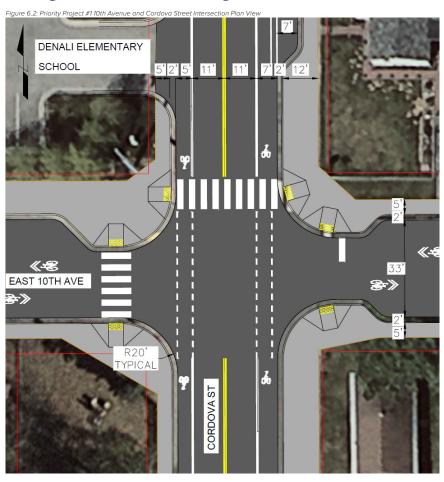


Figure 6.3: Priority Project #1: 10th Avenue and Cordova Street Visualization



PROJECT CHALLENGES

Maintenance and skid resistance: Large area pavement markings are in their infancy in Anchorage. Concerns with longevity, replacement costs, and skid resistance have been brought up. Possible solutions are to use skid resistant inlaid markings or green colored concrete. However, given that roadway pavement provides sufficient friction components, another option includes applying a colored friction surface in accordance with the manufacturer's specifications. If applied during appropriate seasonal conditions, it has been

MAINTENANCE COST OPTION (2018 DOLLARS)

Table 6.1: Priority Project #1: 10th Avenue and Cordova Street

DESCRIPTION	ESTIMATED RECURRING ANNUAL MAINTENANCE COSTS				
Snow Hauling	\$6,000				
Routine Maintenance	\$4,000				
Total (rounded)	\$10,000				



Project Examples: 10th Avenue and Cordova Street Intersection

PROJECT COST OPTION (2018 DOLLARS)

Table 6.2: Priority Project #1: 10th Avenue and Cordova Street Project Cost Options

DESCRIPTION	ITEM	CALCULATION	ESTIMATED COST
Engineering	А		\$200,000
Construction	В		\$520,000
Utility Relocation	С		\$50,000
Right-of-Way Acquisition	D		\$20,000
Subtotal	Е	A+B+C+D	\$790,000
Construction Engineering	F	20% of B	\$104,000
Contingency	G	30% of E	\$237,000
Total (rounded)	Н	E+F+G	\$1,200,000

FUNDING OPTIONS

- » Municipality of Anchorage, Anchorage Roads and Drainage Area (ARDSA) Bonds
- » AMATS funding, Transportation Improvements Program (TIP) and Transportation Alternatives Program (TAP)
- » State Grant: Safe Routes to School funding via DOT&PF Transportation Alternatives Program

IMPLEMENTATION PROCESS

Acquire funding to enable the project to advance through the following project development phases:

- » Application and FHWA approval for experimental traffic control devices
- » 65% Design, associated community involvement and agency review
- » Final Plans
- » Construction of proposed improvements



Implementation Matrix

- **❖ IMMEDIATE (0-2 YEARS)**
- **❖ MID-TERM (2-10 YEARS)**
- **❖ LONG-TERM (10-20 YEARS)**

Table 6.14: Implementation Matrix: Immediate (0-2 year

	IMPLEMENTATION ACTION	RELATED POLICY/GOAL	FUNDING SOURCES	IMPLEMENTATION PARTNERS
Ī	Implement 5 High Priority Bicycle Projects	Goals 1, 2, 3, and 5	AMATS TIP, Municipal Bonds, AMATS TAP & ATAP	ADOT&PF, MOA PM&E, MOA Treffic
	Implement Projects on 3 High Priority Pedestrian Corridors	Goals 1, 2, 3, and 5	AMATS TIP, Municipal Bonds, AMATS TAP & ATAP	ADOT&PF, MOA PM&E, MOA Traffic
	Implement 1 Internal Staff Training	Goals 1, 3, and 7	AMATS PL	ADOT&PF, Local Advocacy Groups, MOA Parks & Rec
RS)	Develop Data Consolidation Program Including Sidepath Evaluation	Goals 1, 5, and 6	MOA OECD, MOA Parks & Rec, MOA IT, AMATS TIP	AMATS, ADOT&PF, MOA Parks & Rec, MOA Traffic
MMEDIATE (0-2 YEARS)	Develop Winter Maintenance Strategy	Goals 1, 3, 4, and 5	AMATS PL, MOA Parks & Rec, MOA M&O, ADOT&PF	AMATS, MOA M&O, ADOT&PF, MOA Parks & Rec, MOA Traffic, Other Organizations Assisting with Winter Maintenance
IMME	Develop a Complete Streets Policy Checklist	Goals 1, 3, 4	N/A	MOA & State Transportation Agencies, MOA Traffic
	Develop Recreational Trails Plan	All Goals	AMATS TIP, AMATS TAP, ATAP, MOA Parks & Rec	MOA Parks & Rec, MOA Traffic
	Continue Open Street/ Parklet Pilot Program	Goal 7		MOA Parks & Rec, Advocacy Organizations
	Continue Safe Routes to School Program	Goals 1, 2, 3, and 7	AMATS TIP, AMATS TAP, ATAP, Alaska Tralis, DHHS, ADHSS	Anchorage School District, Anchorage School District and Parent-Teach Associations, MOA, Local Advocacy Groups

Table 6.15: Implementation Matrix: Mid-term (2-10 years)

	IMPLEMENTATION ACTION	RELATED POLICY/GOAL	FUNDING SOURCES	IMPLEMENTATION PARTNERS
MID-TERM (2-10 YEARS)*	Implement All High Priority Bicycle Projects	Goals 1, 2, 3, and 5	AMATS TIP, Municipal Bonds, AMATS TAP & ATAP, Alaska State Grant Funds	ADOT&PF, MOA PM&E, MOA Traffic
	Implement Projects on All High Priority Pedestrian Corridors	Goals 1, 2, 3, and 5	AMATS TIP, Municipal Bonds, AMATS TAP & ATAP, Alaska State Grant Funds	ADOT&PF, MOA PM&E, MOA Traffic
	Implement 5 medium priority bicycle projects	Goals 1, 2, 3, and 5	AMATS TIP, Municipal Bonds, AMATS TAP & ATAP, Alaska State Grant Funds	ADOT&PF, MOA PM&E, MOA Traffic
	Develop and Expand Non- Motorized Count Program	Goals 1, 6 and 7	AMATS TIP, Municipal Bonds, AMATS TAP & ATAP, Alaska State Grant Funds	MOA Parks & Rec, Alaska DOT&PF, MOA Traffic, Local Advocacy Organizations

Table 6.15: Implementation Matrix: Mid-term (2-10 years) (con't)

	IMPLEMENTATION ACTION	RELATED POLICY/GOAL	FUNDING SOURCES	IMPLEMENTATION PARTNERS
	Develop Program for Regular Internal Staff Training	Goals 1, 3, and 7	AMATS PL	MOA Transportation Agencies
	Develop Driver Education Program	Goals 1, 3, and 7	State of Alaska DMV	Alaska DOT&PF, Alaska Department of Admin, Division of Motor Vehicles, Anchorage public schools, Bike Anchorage
M (2-10 YEARS)"	Expand Safe Routes to School Program	Goals 1, 2, 3, and 7	AMATS TIP, AMATS TAP, ATAP, Alaska Tralis, DHHS, ADHSS	Anchorage School District, Anchorage School District and Parent-Teach Associations, MOA, Local Advocacy Groups
MID-TERM	Continue Open Street/ Parklet Pilot Program	Goal 7		MOA Parks & Rec, Advocacy Organizations Businesses
	Continue Safe Routes to School Programs	Goals 1, 2, 3, and 7	AMATS TIP, AMATS TAP, ATAP, Aleske Trells, DHHS, ADHSS	Anchorage School District, Anchorage School District and Parent-Teach Associations, MOA, Local Advocacy Groups
	Develop performance metrics	Goal 6		

Table 6.16: Implementation Matrix: Long Term (10-20 year

	IMPLEMENTATION ACTION	RELATED POLICY/GOAL	FUNDING SOURCES	IMPLEMENTATION PARTNERS
(10-20 YEARS)*	Implement all medium and low priority bicycle projects	Goals 1, 2, 3, and 5	AMATS TIP, Municipal Bonds, AMATS TAP & ATAP, Alaska State Grant Funds	ADOT&PF, MOA PM&E, MOA Traffic
LONG-TERM (10	Implement Projects on All Identified Pedestrian Corridors	Goals 1, 2, 3, and 5	AMATS TIP, Municipal Bonds, AMATS TAP & ATAP, Alaska State Grant Funds	ADOT&PF, MOA PM&E, MOA Traffic

^{*}It is assumed that actions from the immediate and mid-term lists are continued (e.g., continuation of the Safe Routes to School Program)



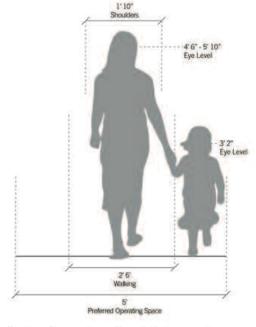
Chapter 7: Design Guide

User Needs

- Pedestrians
- **Bicyclists**
- Wheelchair Users
- Other non-motorized Users

Table 7.1: Pedestrian Characteristics by Age.

AGE	CHARACTERISTICS
	Learning to walk
0-4	Require constant adult supervision
	Developing peripheral vision and depth perception
5-8	Increasing independence, but still require supervision
e	Poor depth perception
9-13	Susceptible to "dart out" or intersection dash
	Poorjudgment
	Sense of invulnerability
14-18	Improved awareness of traffic environment
	Poorjudgment
19-40	Active, fully aware of traffic environment
41-65	Slowing of reflexes
65+	Difficulty crossing street in time
	Vision loss
	Difficulty hearing vehicles approach from behind



Design dimensions of pedestrians and preferred operating space



AMATS Non-motorized Plan Next Steps:

March 2021: Log & respond to all public comments in AMATS Comment/Response Table

April 2021: AMATS Technical Advisory Committee Review & Approval

May 2021: Anchorage Assembly Review and Adoption

June 2021: AMATS Policy Committee Review & Approval

Plan Adoption



Call to Action:

1. Read the AMATS Non-motorized Plan:

http://www.muni.org/departments/ocpd/planning/amats

- 2. Submit comments to amatsinfo@anchorageak.gov or joni.wilm@anchorageak.gov
- 3. Take the surveys!

Survey #1



Survey #2



4. Get involved in your local community council.

