

2023 Transportation Demand Management Master Plan Update



Colorado State University

Overview of TDM Master Plan Effort

- Updating 2014 Parking and Transportation Plan
- Hired Kimley-Horn through On-Call Engineering Contract
- \$172,000 Planning Effort
 - \$60,000 Grant from CDOT to Deliver TDM Plan (shared with the State)
- Target Completion – June 2023
- Recommendations for inclusion in CSU's 2024 Master Plan Update

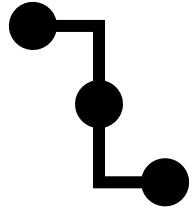
Transportation Demand Management

Providing travelers with effective choices to improve travel reliability.

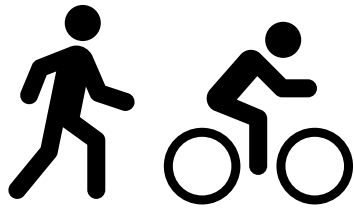
The Federal Highway Administration



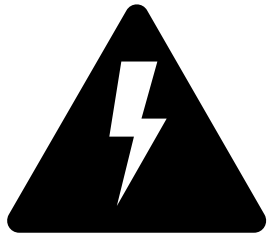
Transportation Planning



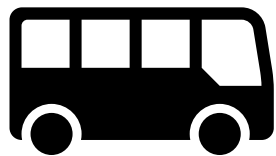
Improve infrastructure connectivity and circulation



Improve permeability of walkways, bikeways, & transit



Improve multimodal safety



Prioritize the movement of people – system efficiency



Support interconnectivity between modes



Data-Driven Planning

Data Sources and Factors Considered

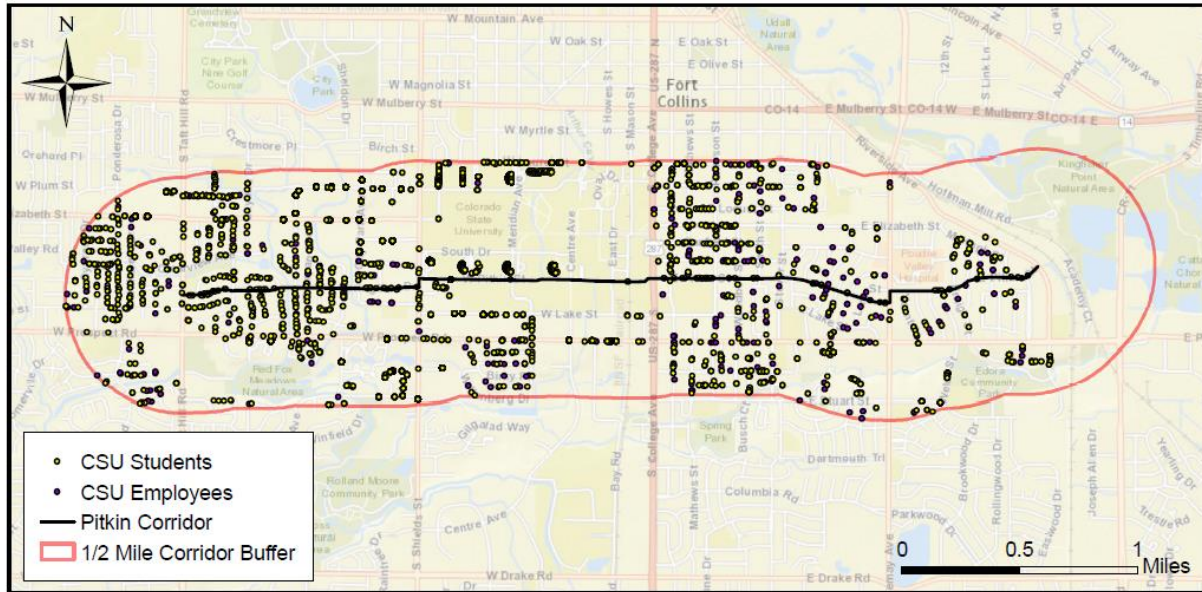
Sources:

- Parking Demand
- Transit Ridership
- Bicycle Counters
- Crash Data
- Household (Travelshed)
- Cordon Study (Transportation Flow)

University-Driven Estimates:

- Enrollment
- Beds (on-campus housing)
- Land-Use Trade-Offs
- Goal by Mode of Transportation

Pitkin Low Stress Bicycle Corridor



CSU Students within Buffer	6,582
CSU Employees within Buffer	1,219



Cartographic Services Provided By:

Erick Kelly
Intern - Geospatial Centroid at CSU



Date: October 6, 2014

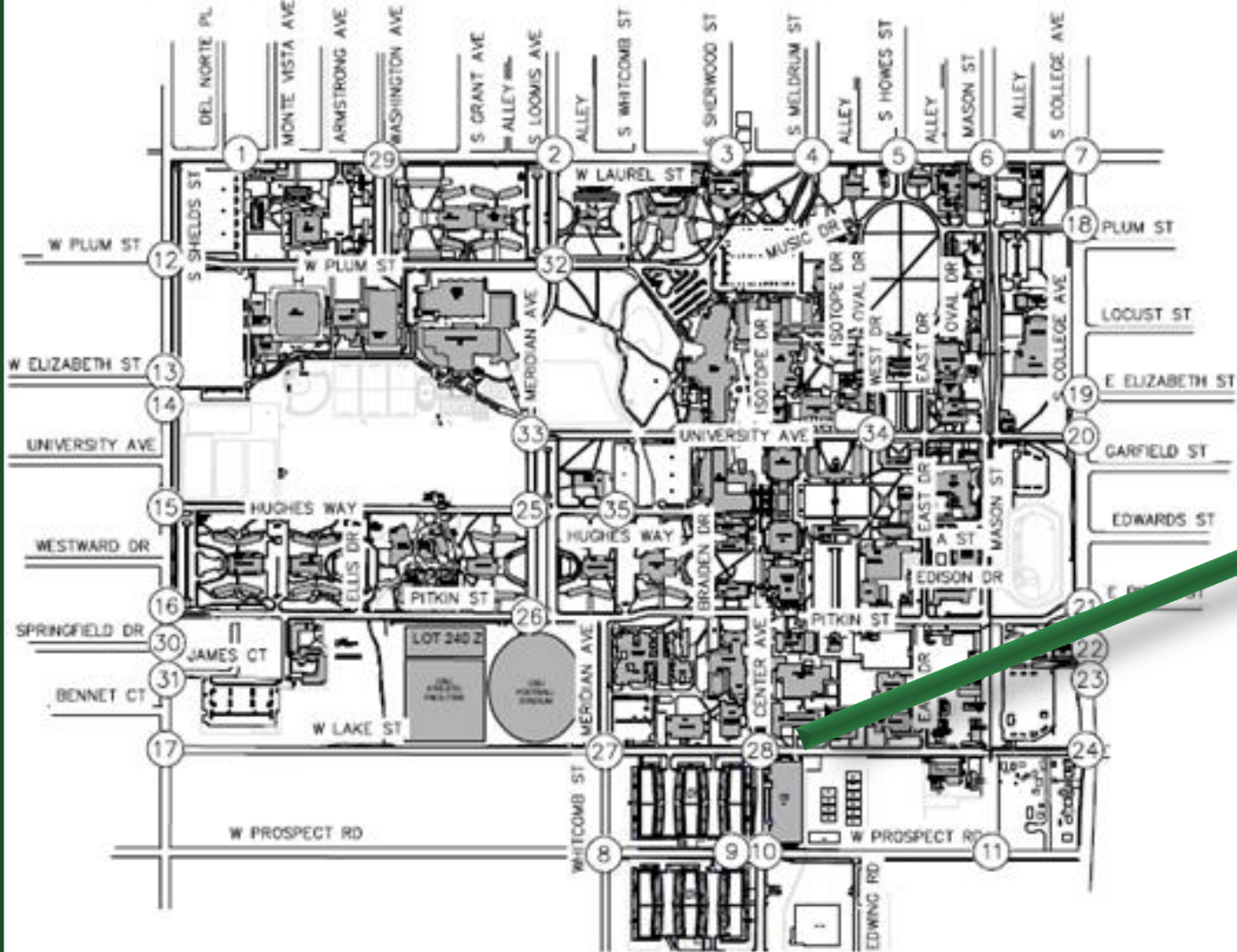




Colorado State University



MAIN CAMPUS 2021 (FALL) AUTOMOBILE PEAK HOUR VOLUMES



AM Peak(PM Peak)


← 116(172)
 ↷ 28(75)

119(133)
 ↷ 33(26)

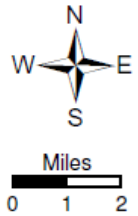
↖ 31(43)
 ↗ 102(66)

Lake/Center

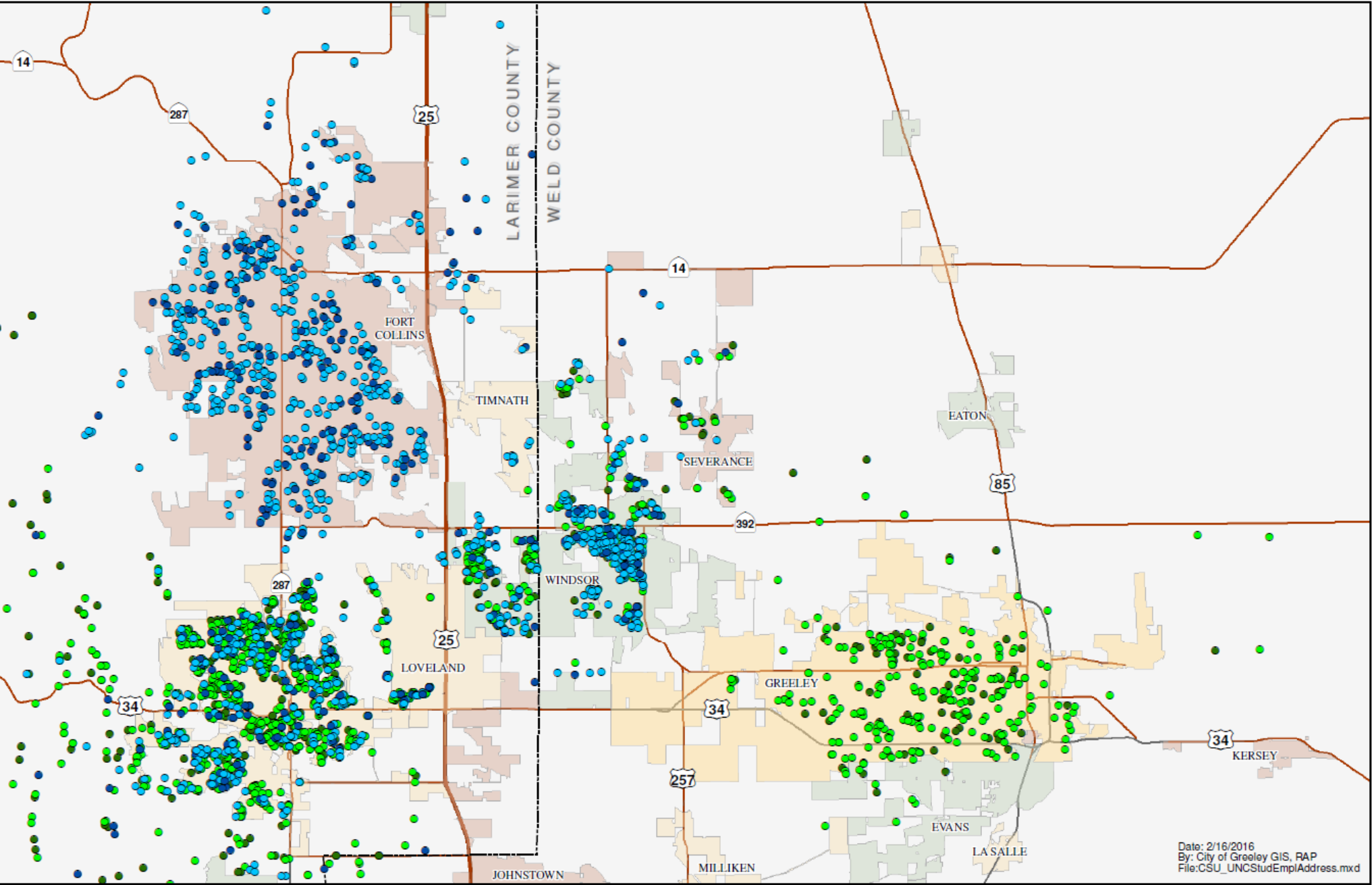




CSU UNC Employee and Student Address Locations

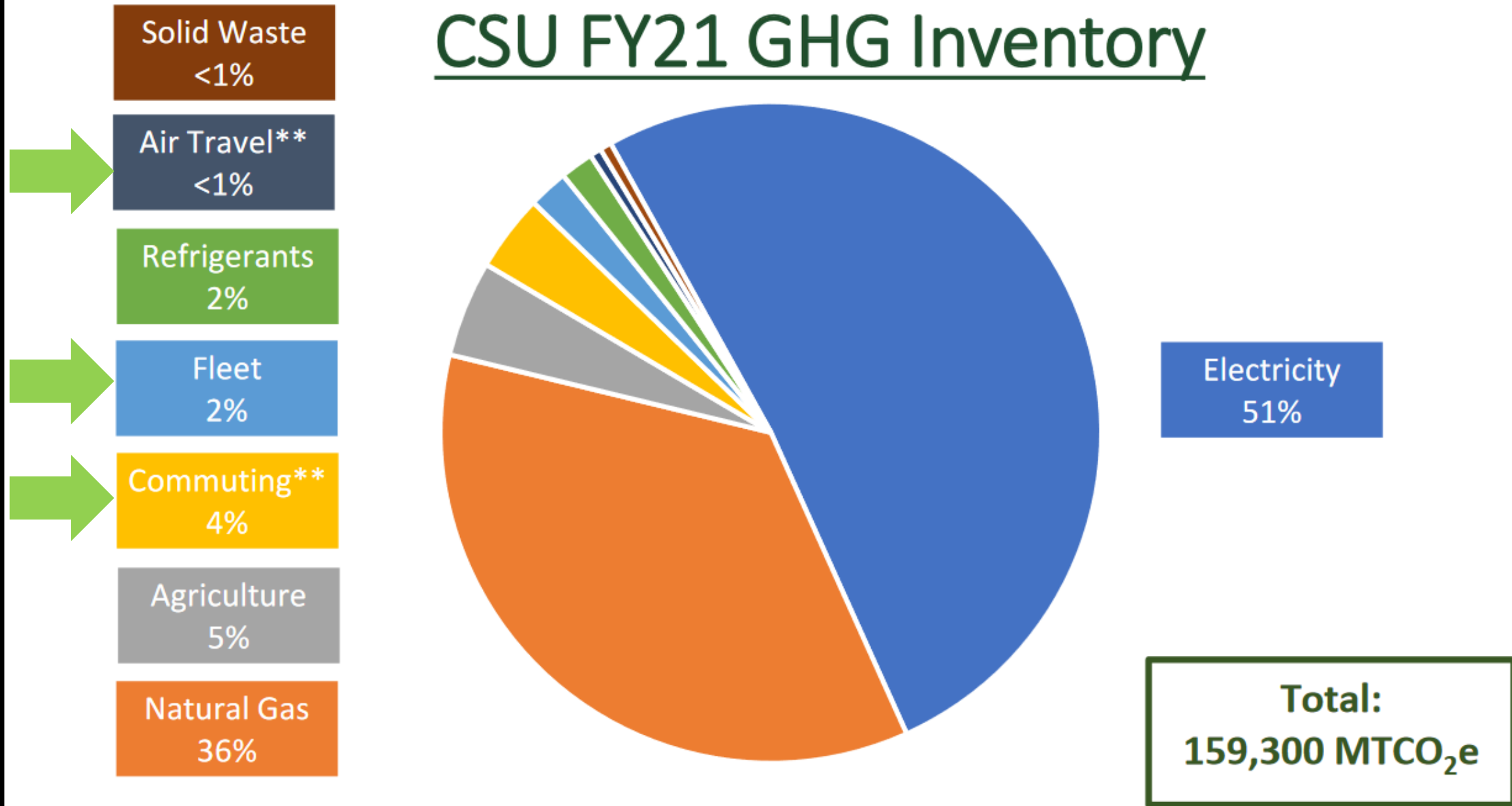


● UNC Student, Fort Collins (525)	● UNC Faculty, Fort Collins (183)	● CSU Student, Greeley (217)	● CSU Faculty, Greeley (92)
● UNC Student, Loveland (239)	● UNC Faculty, Loveland (118)	● CSU Student, Windsor (221)	● CSU Faculty, Windsor (180)
● UNC Student, Timnath (8)	● UNC Faculty, Timnath (2)	● CSU Student, Loveland (659)	● CSU Faculty, Loveland (480)
● UNC Student, Windsor (266)	● UNC Faculty, Windsor (76)		



Date: 2/16/2016
 By: City of Greeley GIS, RAP
 File: CSU_UNCStudEmplAddress.mxd

CSU FY21 GHG Inventory



** Commuting and Air Travel dramatically affected by global pandemic

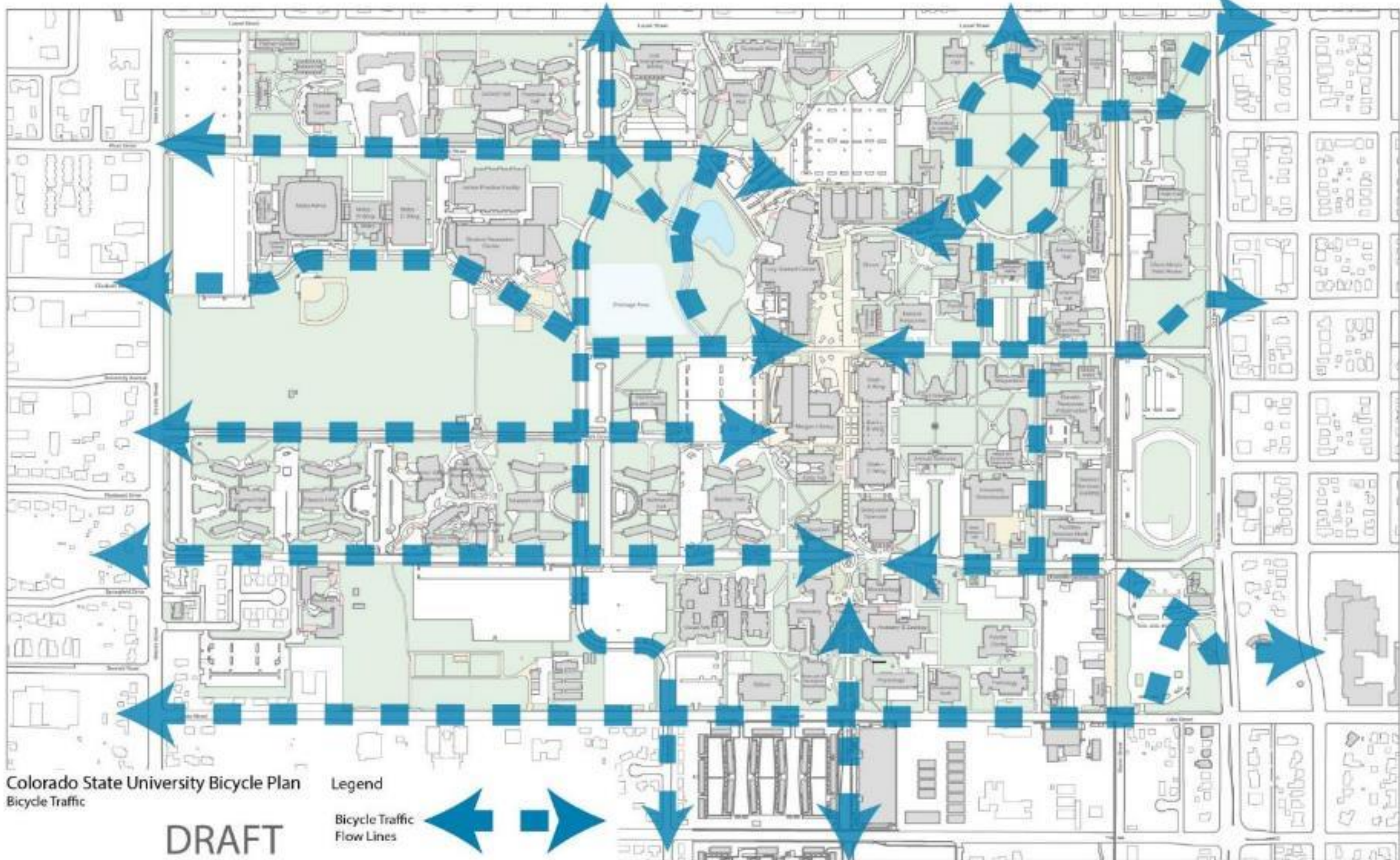
Figure 2. FY21 GHG Emissions Sources



Infrastructure

Circulation and Connectivity

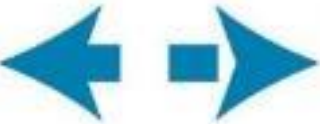




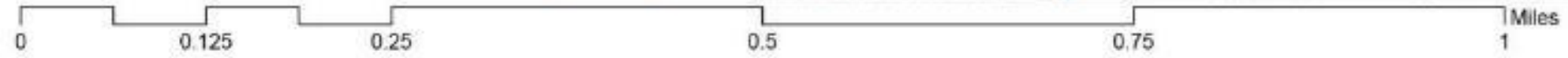
Colorado State University Bicycle Plan
Bicycle Traffic

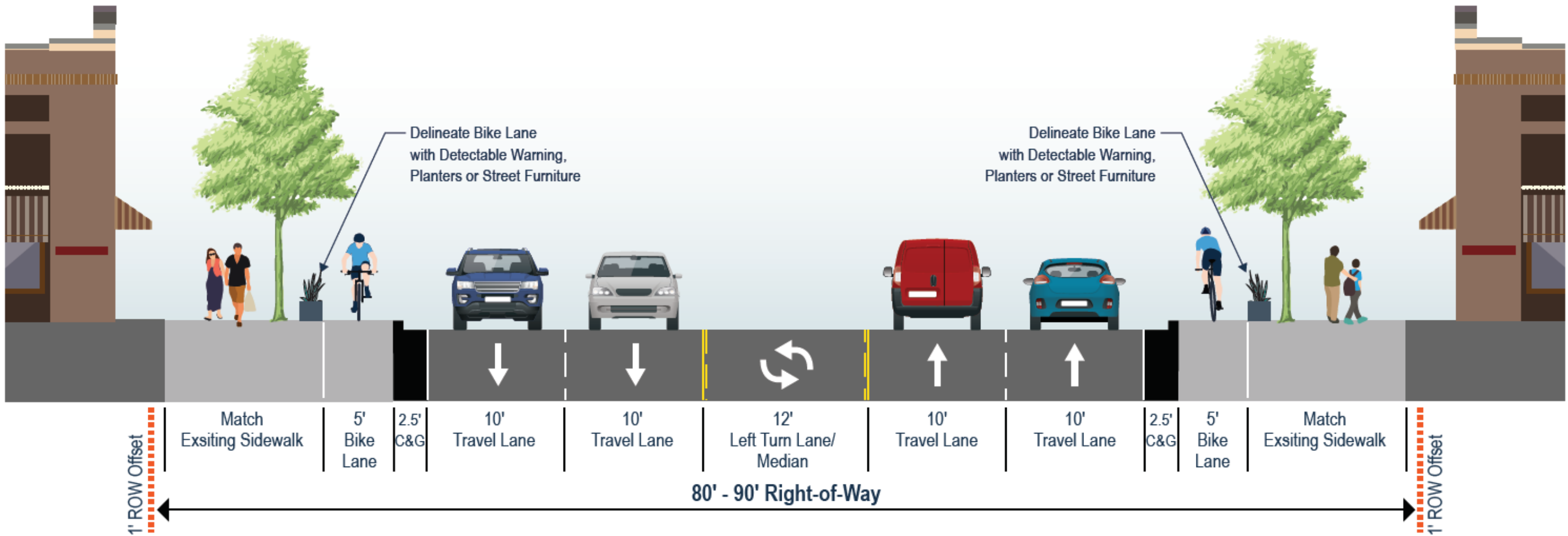
Legend

Bicycle Traffic
Flow Lines



DRAFT





CITY PARK AVENUE TO SHIELDS STREET
Sidewalk Level Bike Lane
 (existing ROW varies 80'-90')

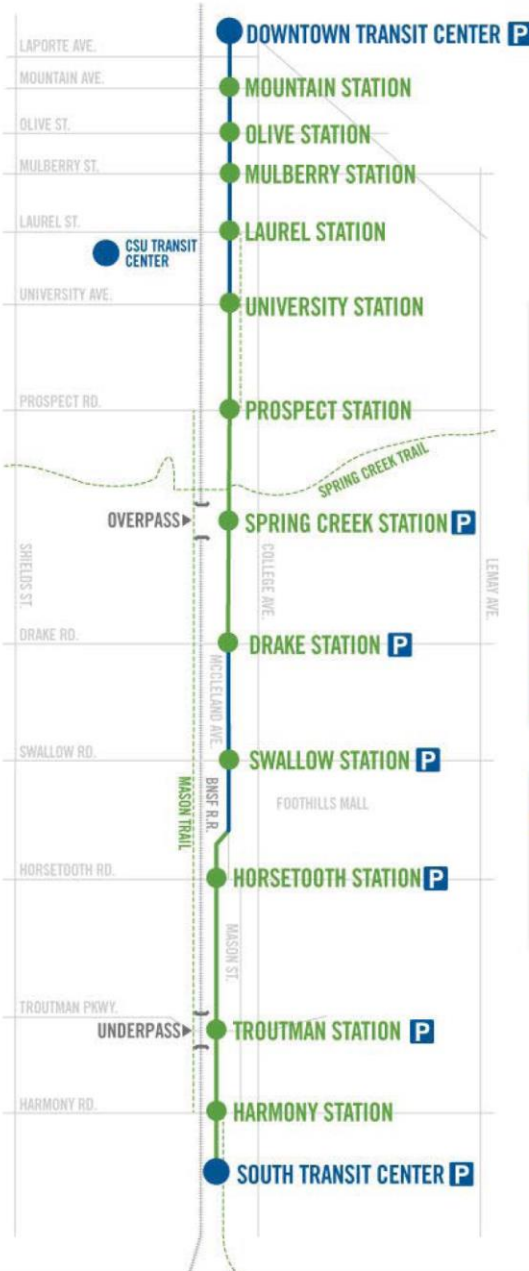


Campus Permeability

Improving Access Across Modes of Transportation



max ROUTE



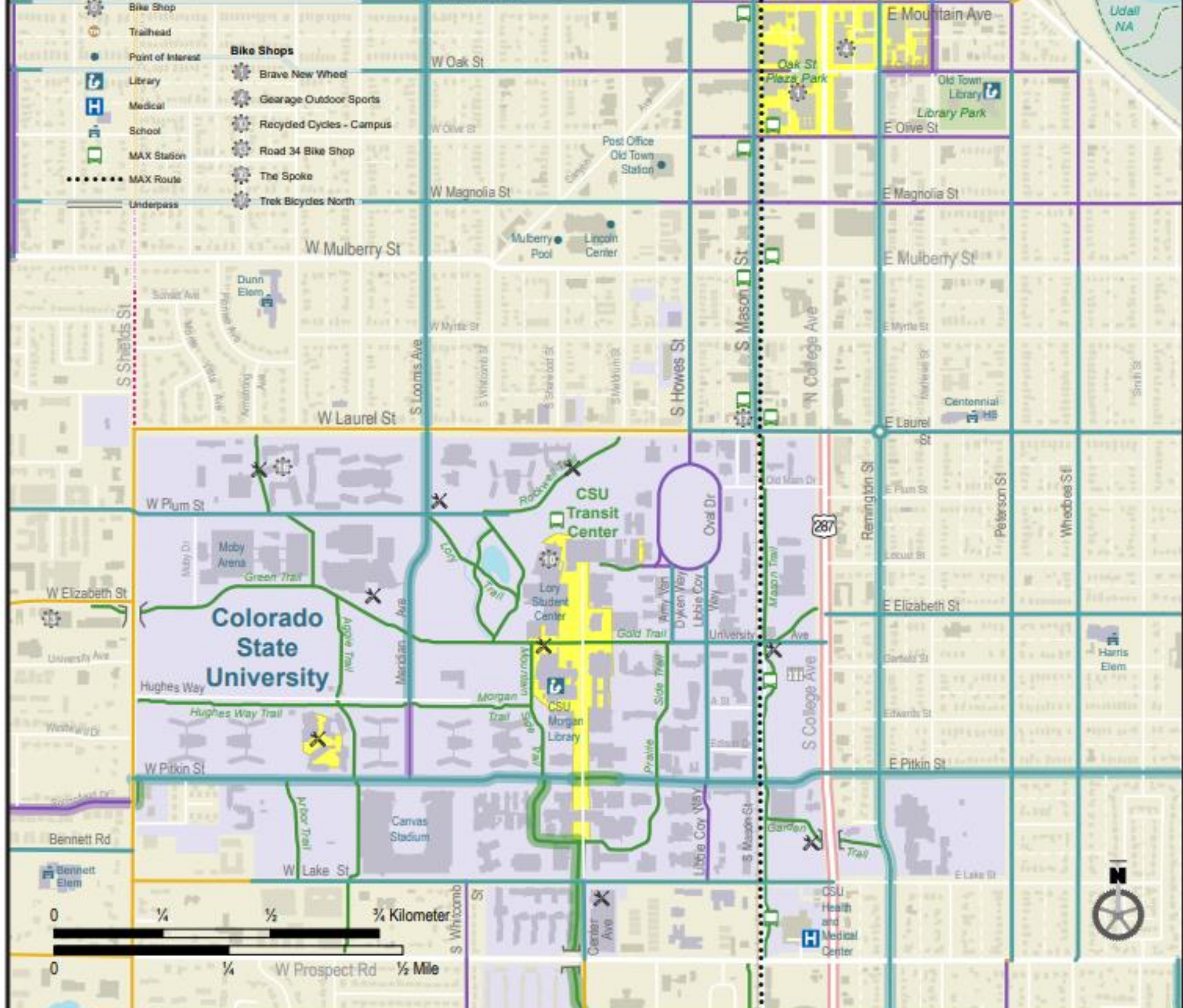
KEY

- TRANSIT CENTER
- MAX STATION
- PARKING
- BRT TRAVEL IN MIXED TRAFFIC
- BRT DEDICATED GUIDEWAY
- PAVED TRAILS



Bus Rapid Transit
(BRT)





City Bikeways





Engineering



**PARKING AND
TRANSPORTATION SERVICES**
COLORADO STATE UNIVERSITY



COLORADO STATE UNIVERSITY

Search...

Search

> ADA Accessibility

> Services

∞ Inclusive Resources

∞ All Gender Restrooms

> ∞ Lactation Rooms

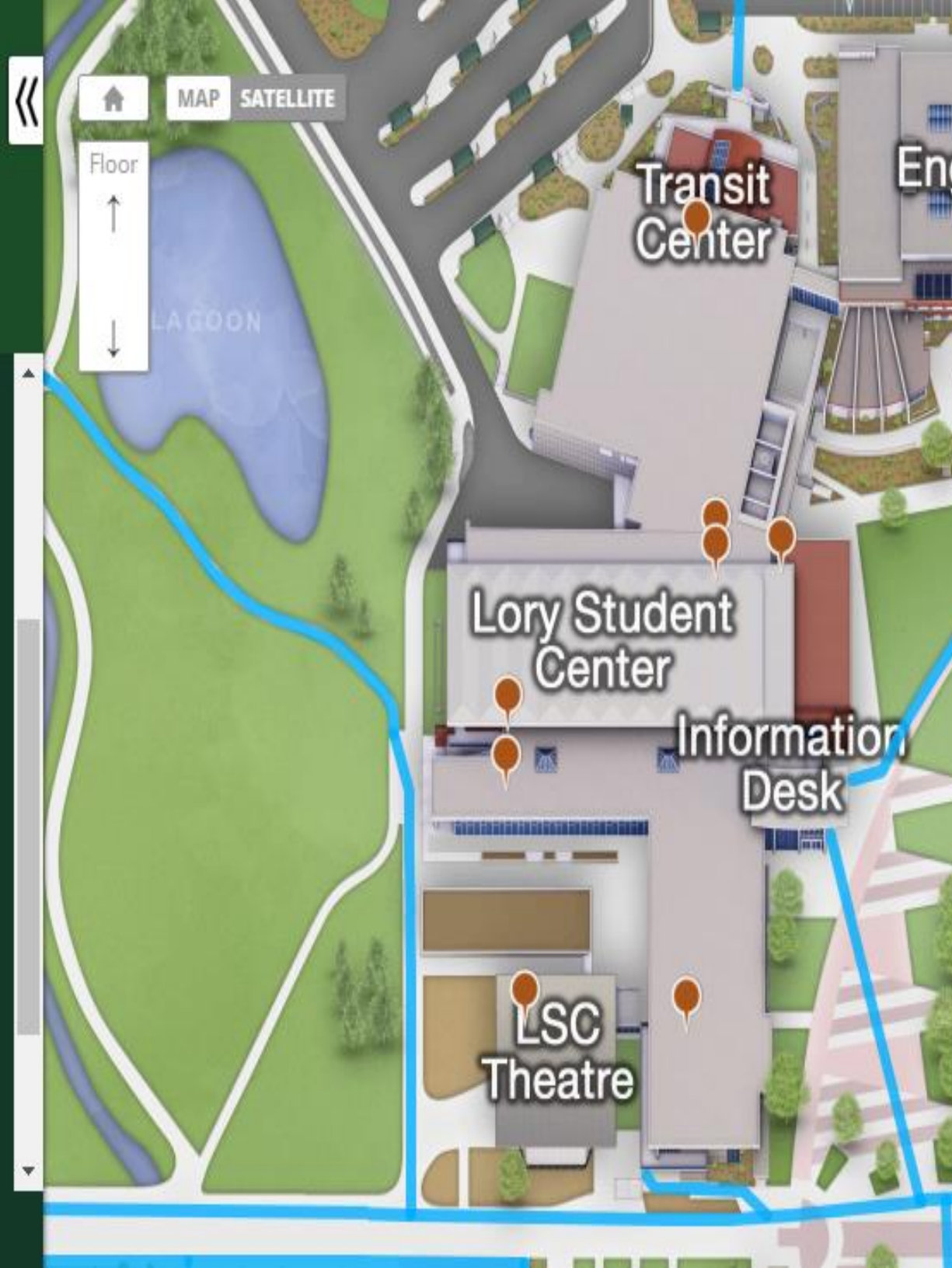
∞ Reflection Space

> Dining

> Sustainability

> Health and Safety

[Apply to CSU](#) | [Contact CSU](#) | [Disclaimer](#) | [Equal Opportunity](#) | [Privacy Statement](#)



Equity



**PARKING AND
TRANSPORTATION SERVICES**
COLORADO STATE UNIVERSITY



Multi-Modal Safety

Prioritizing Vulnerable Users



Your transportation choice matters! How you get around each day can impact your health, wallet, and the environment. Meet the characters at "State Zooniversity" for an introduction to these themes. Click the "CC" button to view captions.



Education



**PARKING AND
TRANSPORTATION SERVICES**
COLORADO STATE UNIVERSITY



Engagement



**PARKING AND
TRANSPORTATION SERVICES**
COLORADO STATE UNIVERSITY



President's Vision Zero Task Force



Rams Moving Safely

The President's Vision Zero Task Force is charged with the examination of all mobility and safety related to pedestrians, personal vehicles, University and contractor work vehicles, bicyclists, skateboarders, e-scooter riders, buses and trains on and near the main Colorado State University campus. In 2021, this interdisciplinary task force will advance the priorities to improve transportation safety at CSU under the interdepartmental

Vision Zero



**PARKING AND
TRANSPORTATION SERVICES**
COLORADO STATE UNIVERSITY

Even One is Too Many

Vision Zero is a strategy to eliminate all traffic fatalities and severe injuries, while increasing safe, healthy, equitable mobility for all.



Colorado State University Vision Zero Initiative

Injury Crash Reports 17/18 to 21/22 Academic Years



Explore

Severity

- Select all
- Fatal
- Minor
- Severe

Report Type

- Officially Reported
- Self-Reported

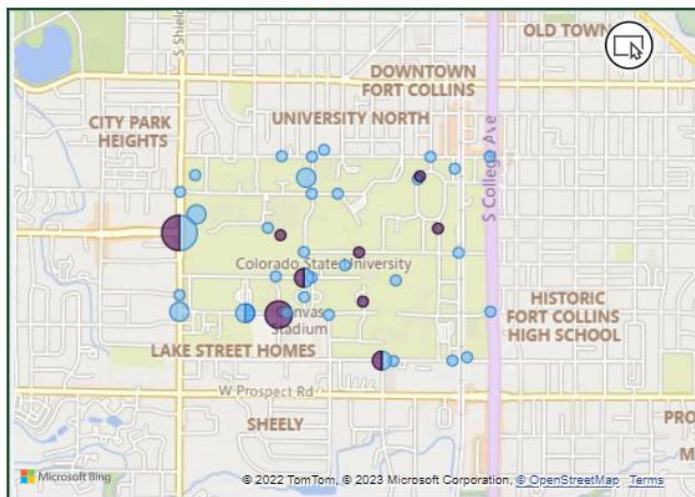
Academic Year

- Select all
- 17/18
- 18/19
- 19/20
- 20/21
- 21/22

*Academic Year is defined as September 1 through August 31.

Severity	Count	Trend	Percentage of Total
Minor	38		74.51%
Severe	12		23.53%
Fatal	1		1.96%
Total	51		100.00%

● Fatal ● Minor ● Severe



Page Navigation

Overview

Official Report Breakdown

Mode	veh_count	%GT veh_count
Vehicle	48	50.00%
Bicycle	37	38.54%
Pedestrian	8	8.33%
Skateboard	2	2.08%
E-Skateboard	1	1.04%
E-Bike	0	0.00%
E-Scooter	0	0.00%
Roller Blades/Skates	0	0.00%
Scooter	0	0.00%
Unknown	0	0.00%
Total	96	100.00%

Crash Type	Total	Trend	Percentage of Total
Vehicle and Bike	14		27.45%
Vehicle and Vehicle	12		23.53%
Bike and Bike	8		15.69%
Vehicle and Pedestrian	7		13.73%
Solo Bike	4		7.84%
Bike and Pedestrian	3		5.88%
Vehicle and Skateboard	3		5.88%
Solo Scooter	0		0.00%
Total	51		100.00%

Vision Zero



**PARKING AND
TRANSPORTATION SERVICES**
COLORADO STATE UNIVERSITY

People-Focused Throughput

Increase Throughput Efficiency and Reduce
Vehicular Emissions

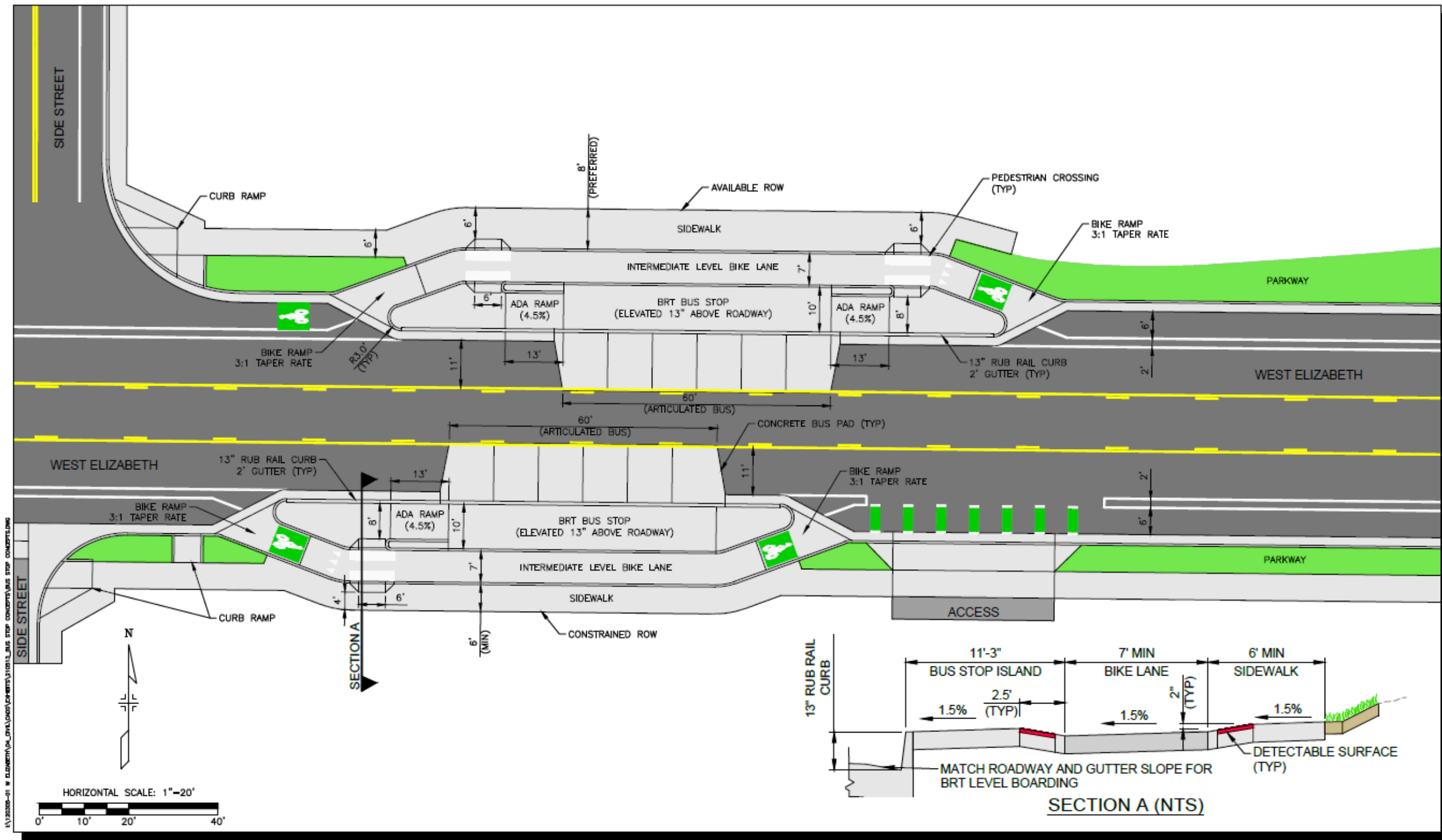
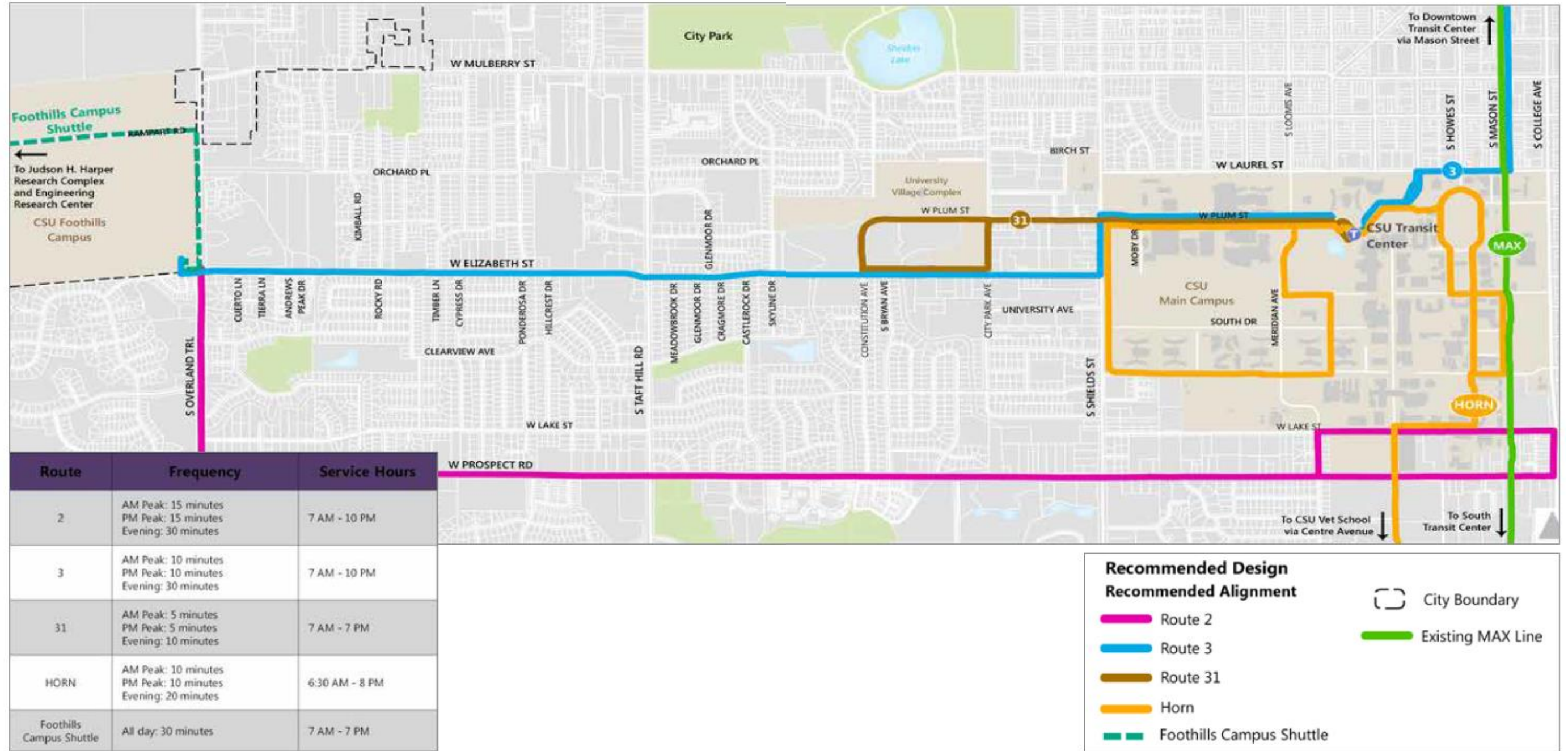


Figure 17: Recommended Design Transit Routes:

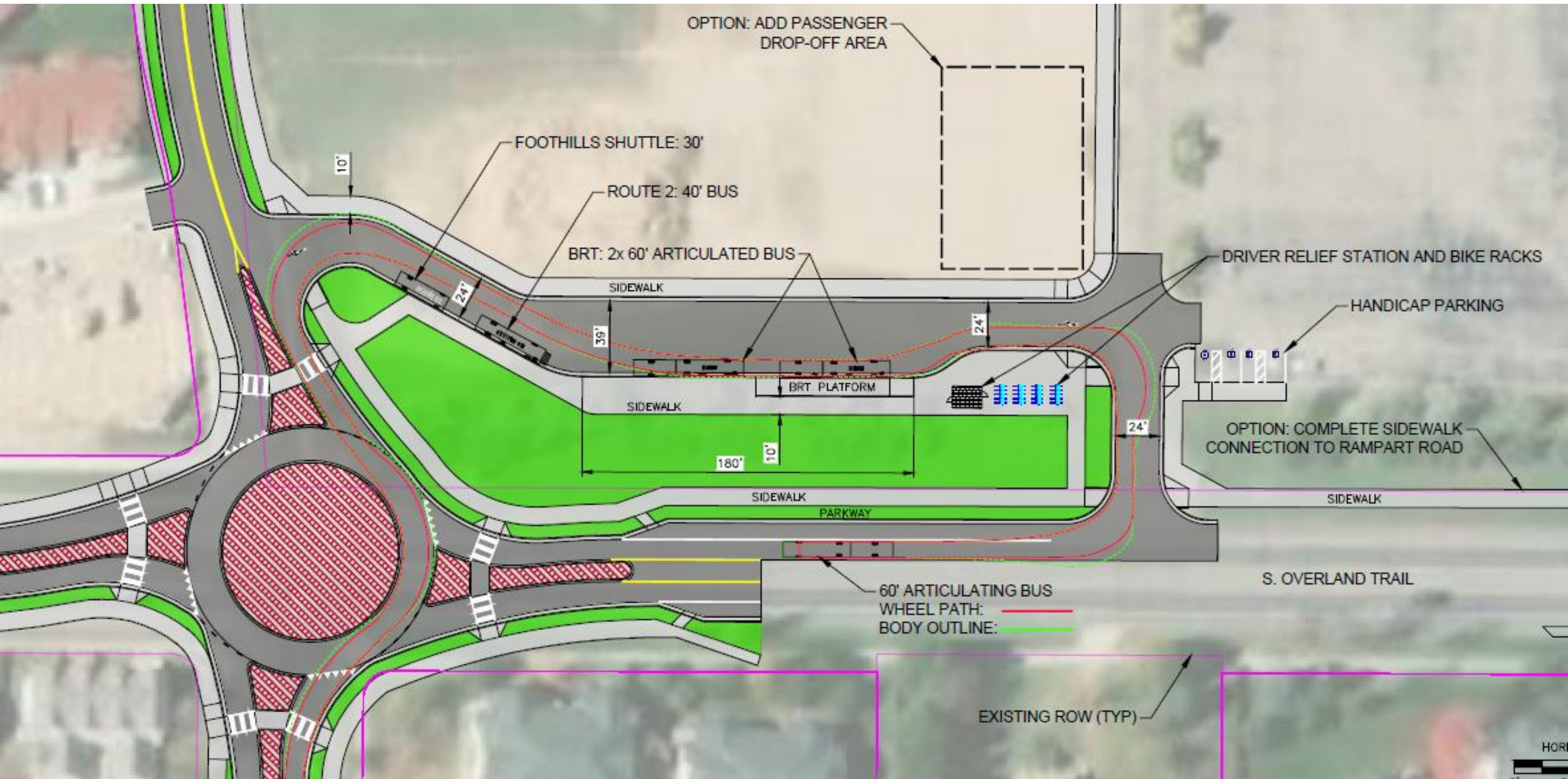
The Recommended Design's transit service will be frequent and provide premium amenities for transit patrons.





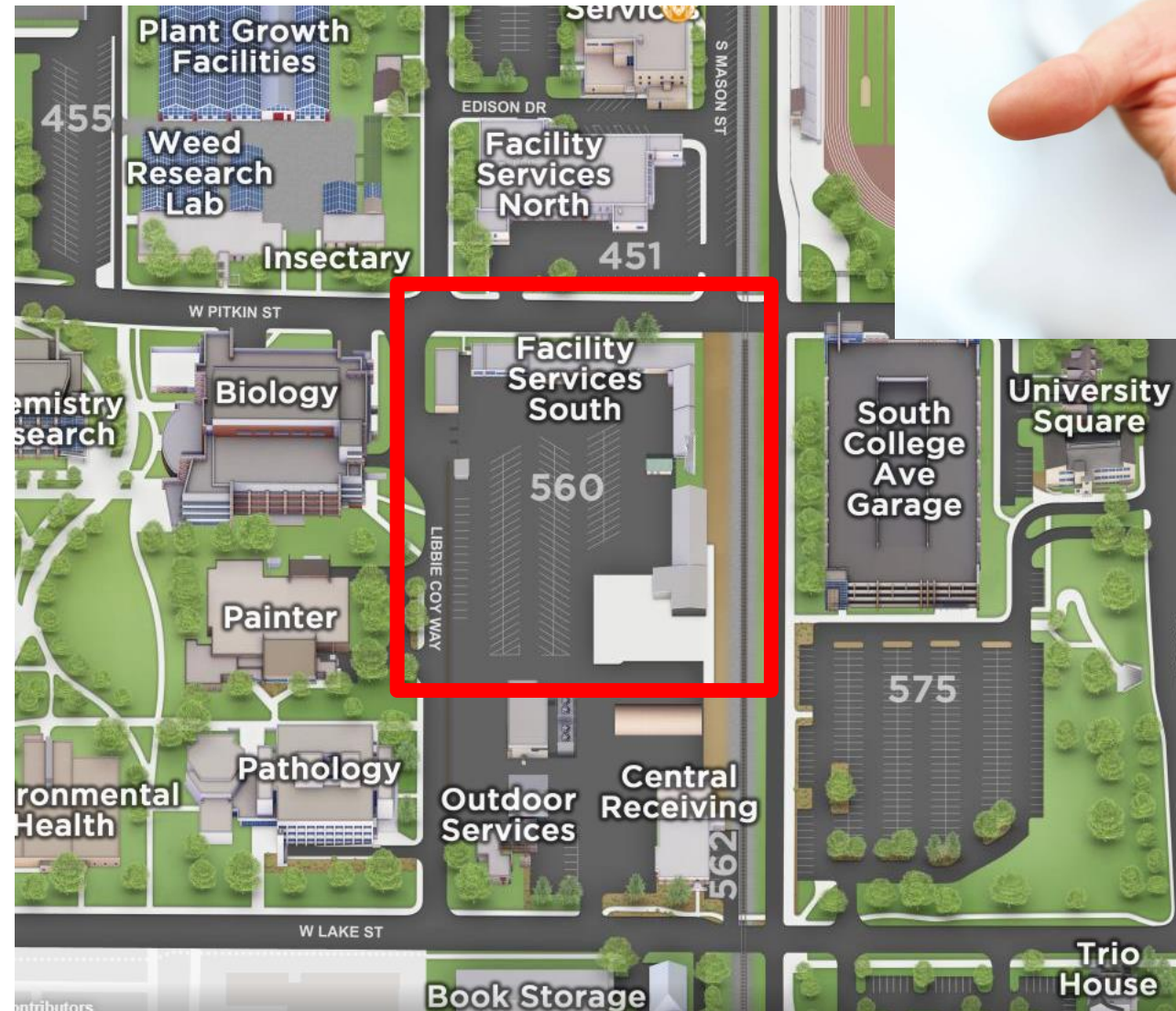
Interconnectivity

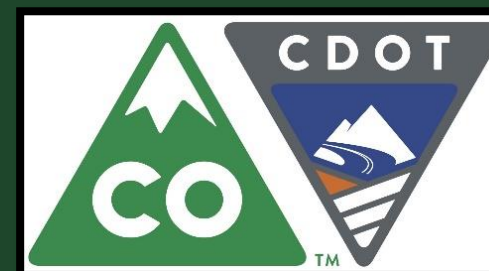
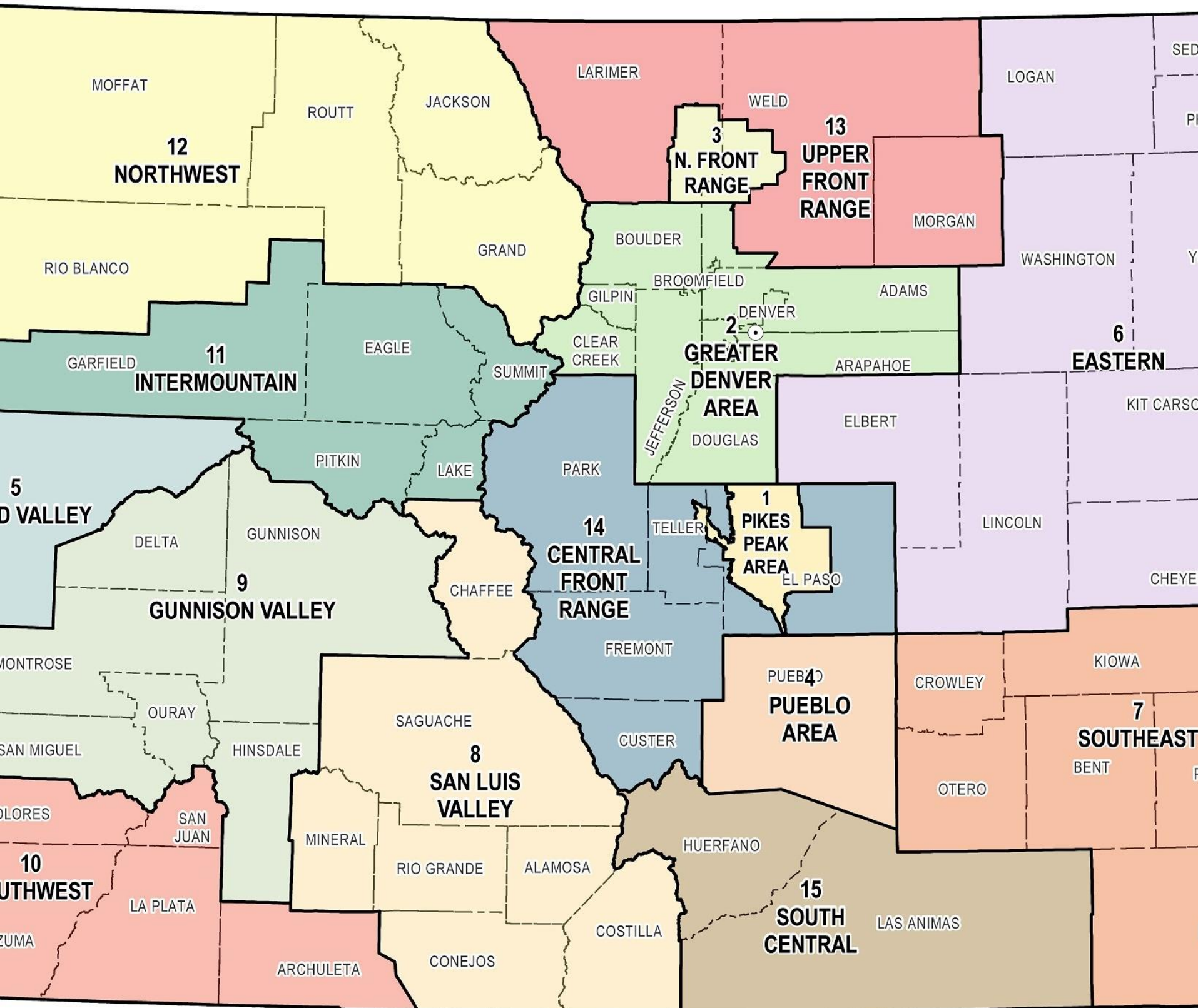
Between Campuses and Modes of Transportation



Connecting Transportation Modes

- Fleet Vehicles
- Free Transit
- E-scooter and E-bike Share
- Zipcar





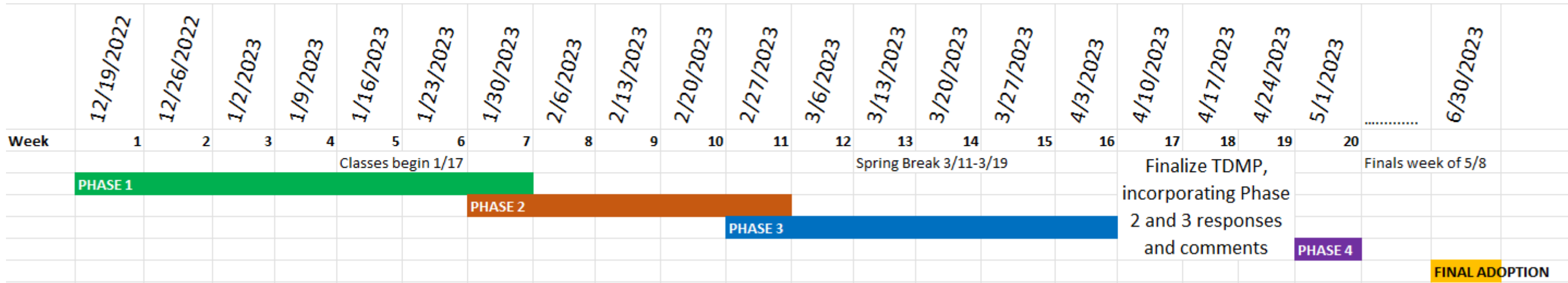
We Are Representatives



PARKING AND
TRANSPORTATION SERVICES
COLORADO STATE UNIVERSITY

TDM Plan Timeline and Next Steps

Timeline



Phase 1

- Presentations to Stakeholder Groups
- Campus engagement pop-ups

Phase 2

- In-person stakeholder focus groups (limited availability)
- Take interactive online survey

Phase 3

- Feedback on the Unified Campus Mobility Charter and the draft TDMP

Phase 4

- Check out the TDMP when it goes public in May/June

Questions

- What faculty/staff transportation needs should be considered in the Plan?
- What student transportation needs should be considered in the Plan?
- Considering day-to-day activities of CSU community members, what infrastructure improvements should be considered in the Plan?
- What opportunities exist (or could exist) for you and/or your department to play a role in optimizing the transportation system at CSU?

Thank you



Colorado State University