

JCT ASSOCIATES

JULIA RODRIGUEZ, CALEB SCHMITZ, & THEODORE JOHNSON MENCIMER

**ARAPAHOE RIDGE
HIGH SCHOOL**



Vision

To support students at Arapahoe Ridge with in-person learning and access to services even amidst COVID 19 in a way that is comfortable, feasible, and safe.

Objectives

- Preserve social life/human interaction and learning in the school safely
- Increase or maintain transportation to ensure access to school services like food, counseling, study spaces, etc.
- Create an outdoor space that is comfortable and suitable for learning safely

Transportation Design

Transportation Goals for Arapahoe Ridge HS

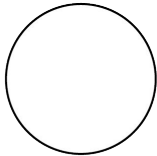
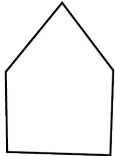
- Resilience, Flexibility, Accessibility.
- Ensure free and easy to use busing options.
- Support multi-modal transportation, especially cycling options.



Busing Plan

Defining the Problem

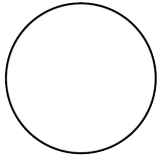
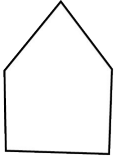
Normal



Students take bus to neighborhood school.

Shuttle from neighborhood school to Arapahoe Ridge.

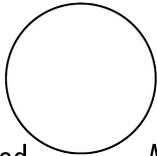
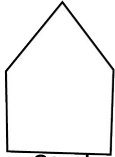
BVSD Phase 3



BVSD stops providing standard bus services.

Arapahoe Ridge Busses cannot shuttle students.

Solution



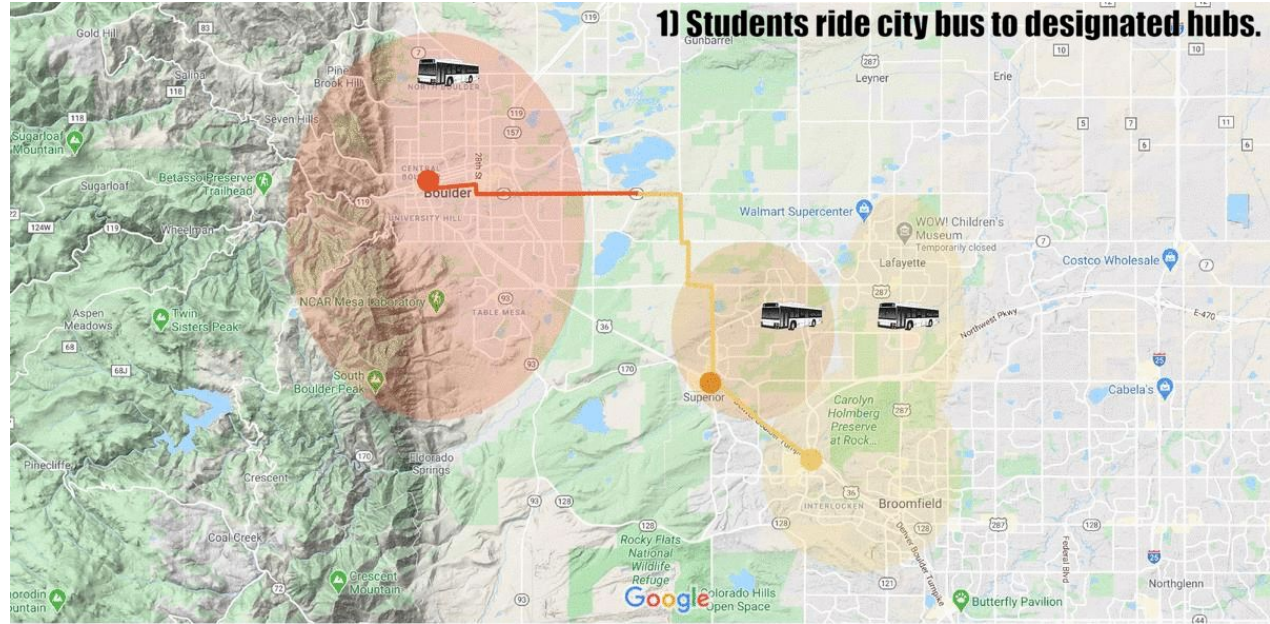
Students take city bus to designated hubs.

Arapahoe Ridge shuttles students from city bus hub.

Proposed Busing Solution

Private-public partnership between RTD and BVSD.

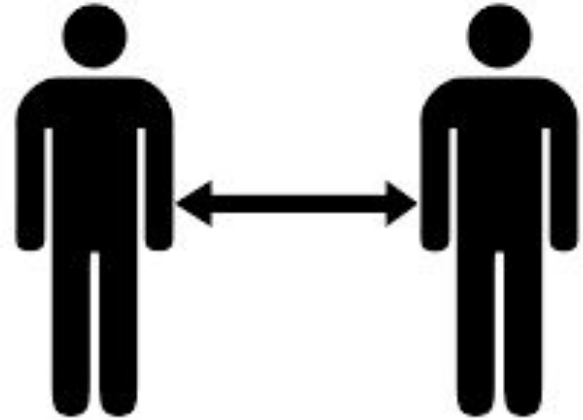
- Hubs selected for easy access via popular bus routes like JUMP, DASH, 158, and Flatiron Flyer



Additional Busing Details



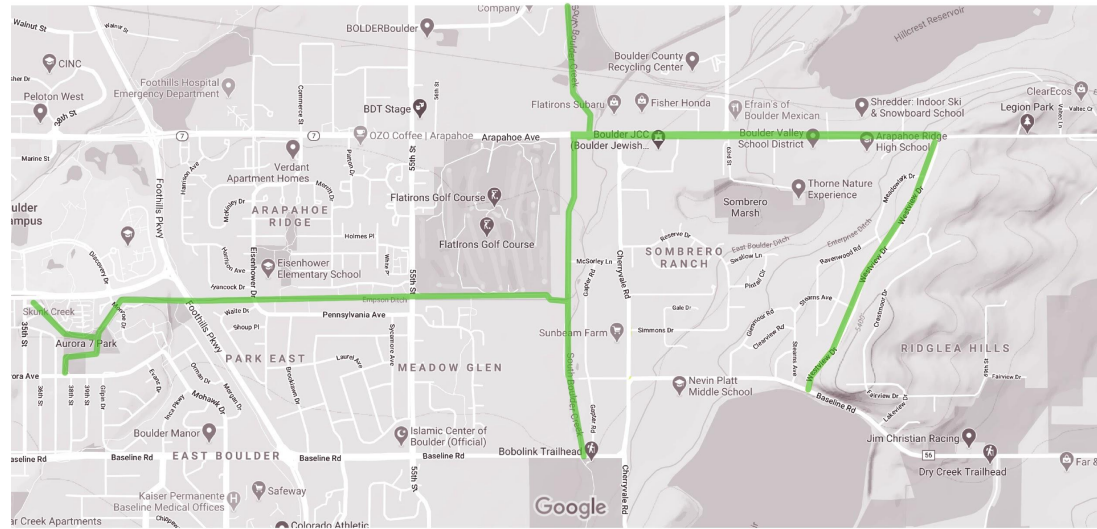
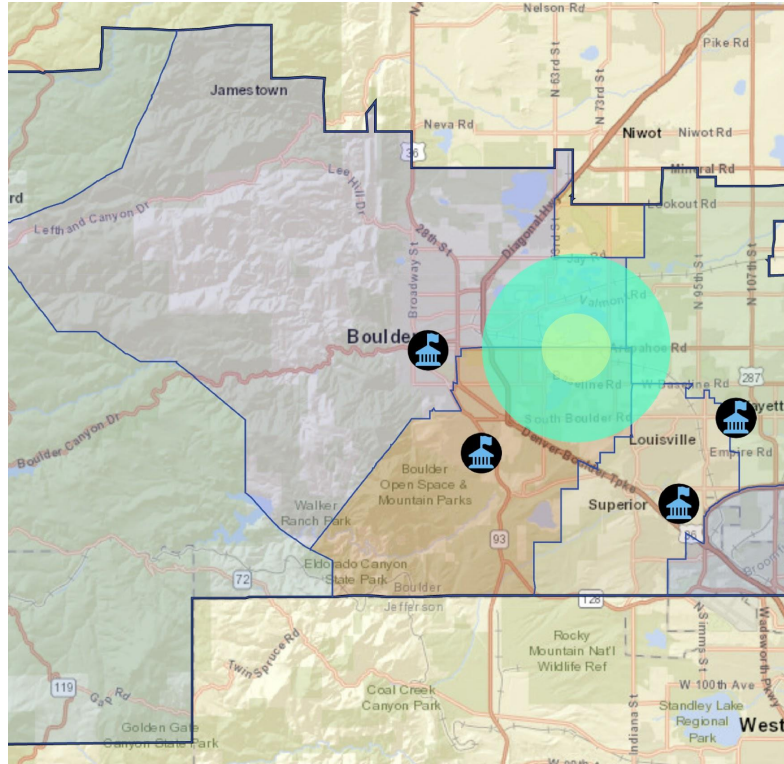
Free Student Bus Passes (estimated cost of \$0-5000 /year)



Social distance, masks, and sanitation requirements on school busses could require more than one bus per route.

Multimodal Transportation

Possible Bike Routes



A few connections and road alterations could allow this part of Boulder to be full of bike corridors and paths.

Opportunities for Supporting Multimodal Transportation



Retrofit Arapahoe Rd outside the high school to prioritize and protect pedestrians.

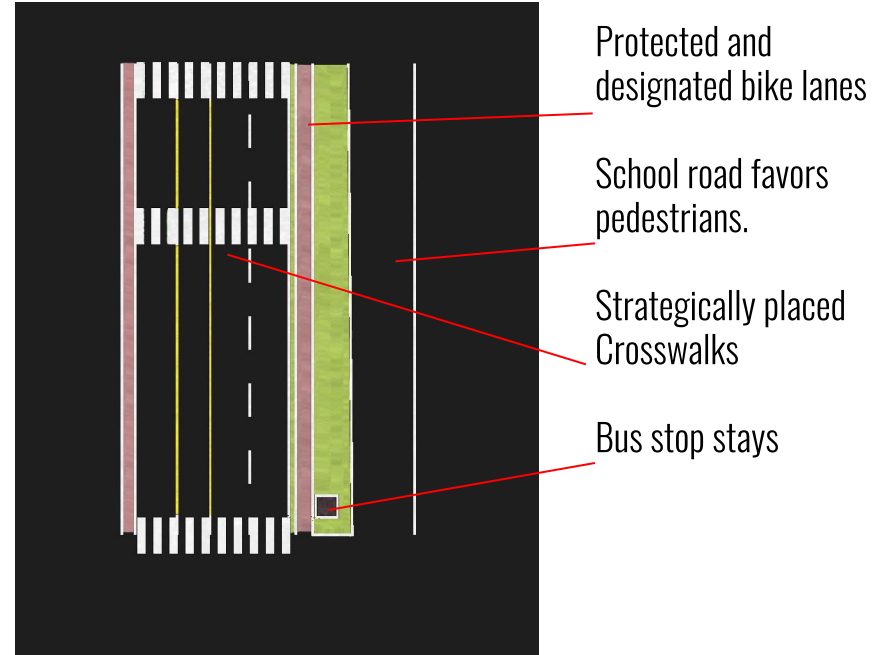
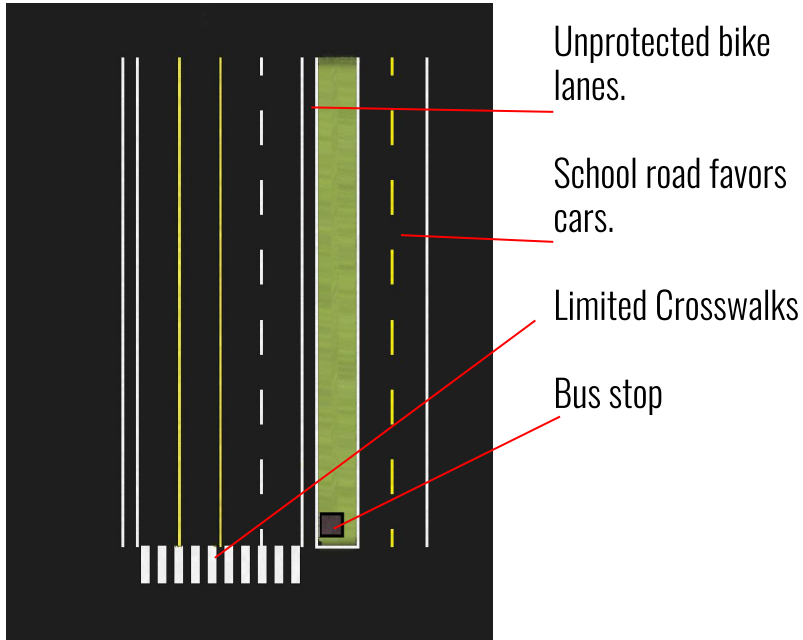


Connect disconnected bike paths and corridors.

Redesign select local roads as pedestrian friendly bike corridors.



Arapahoe Road Retrofit



New Arapahoe Road (Section)



Bike Corridors

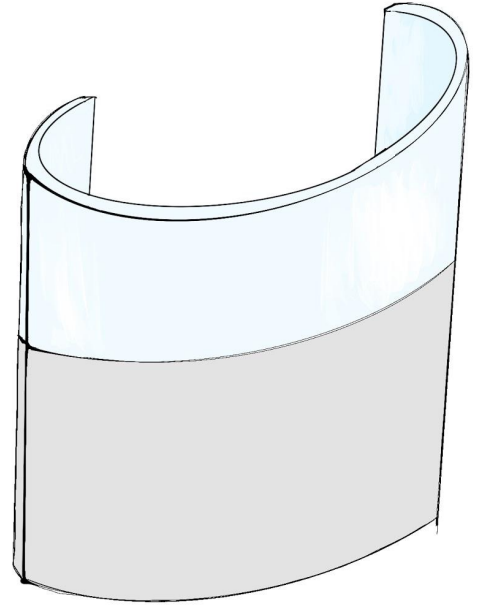
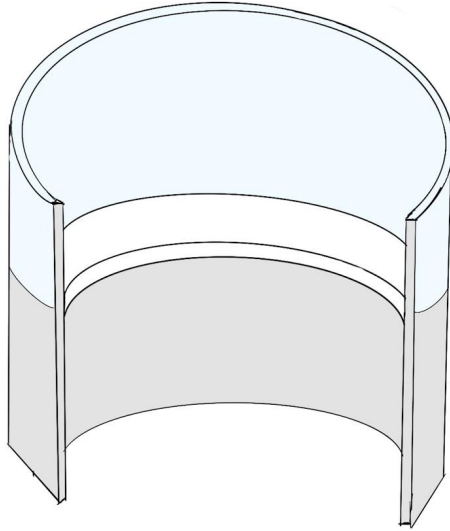
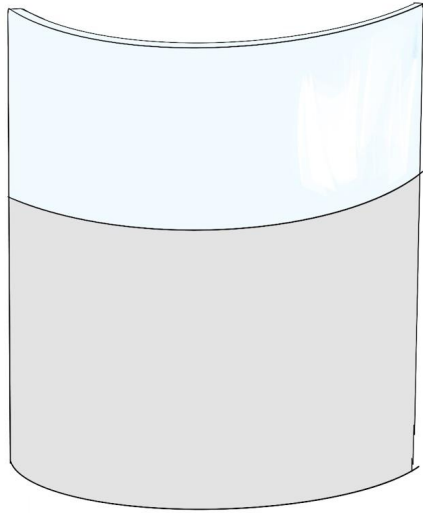


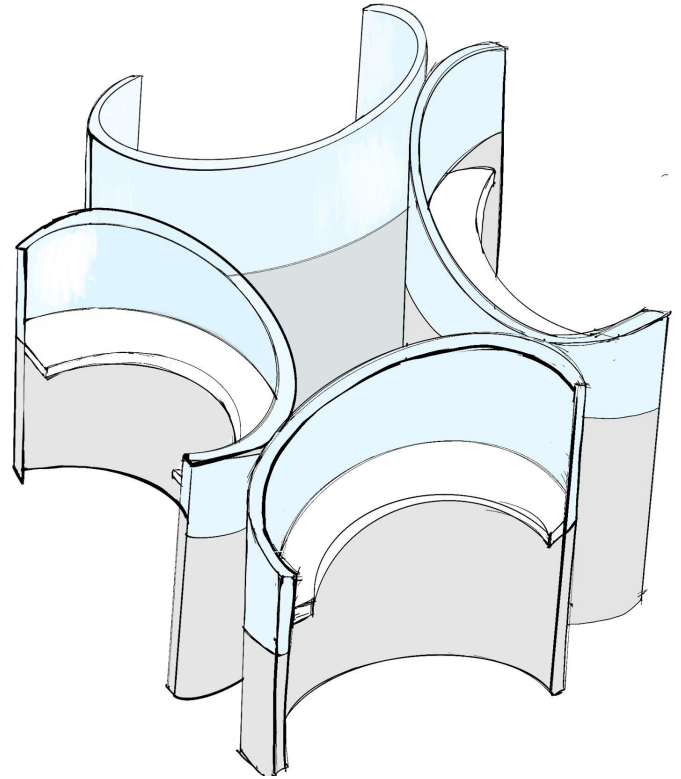
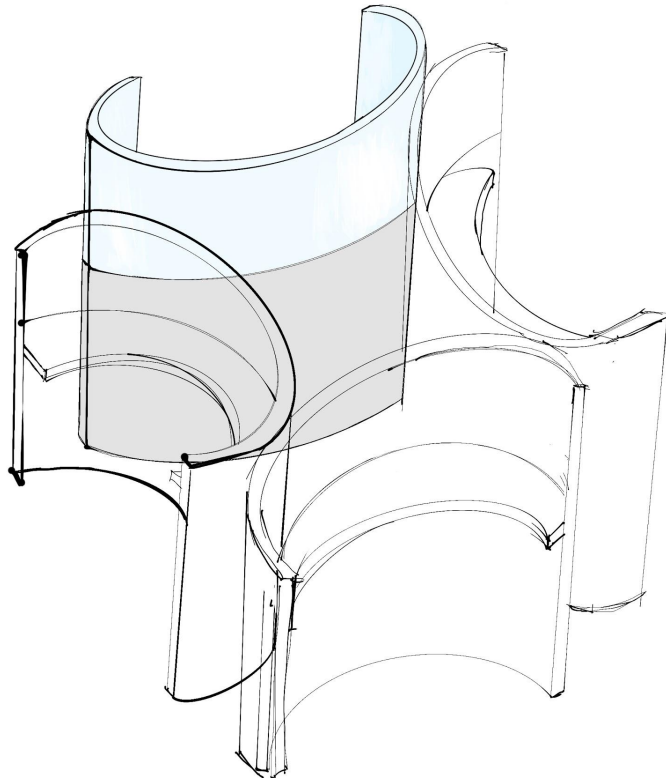
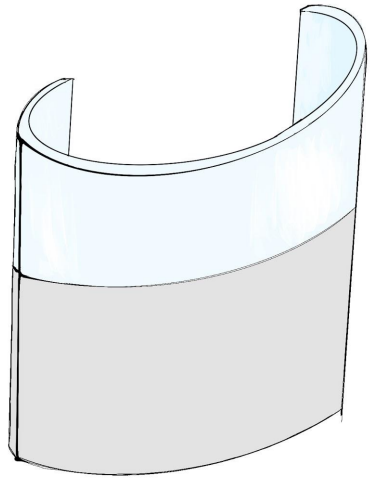
Select roads will become 'bike corridors.' Naked streets with no lines help the road feel like the public realm and forces car traffic to slow down and negotiate the space with pedestrians and cyclists.

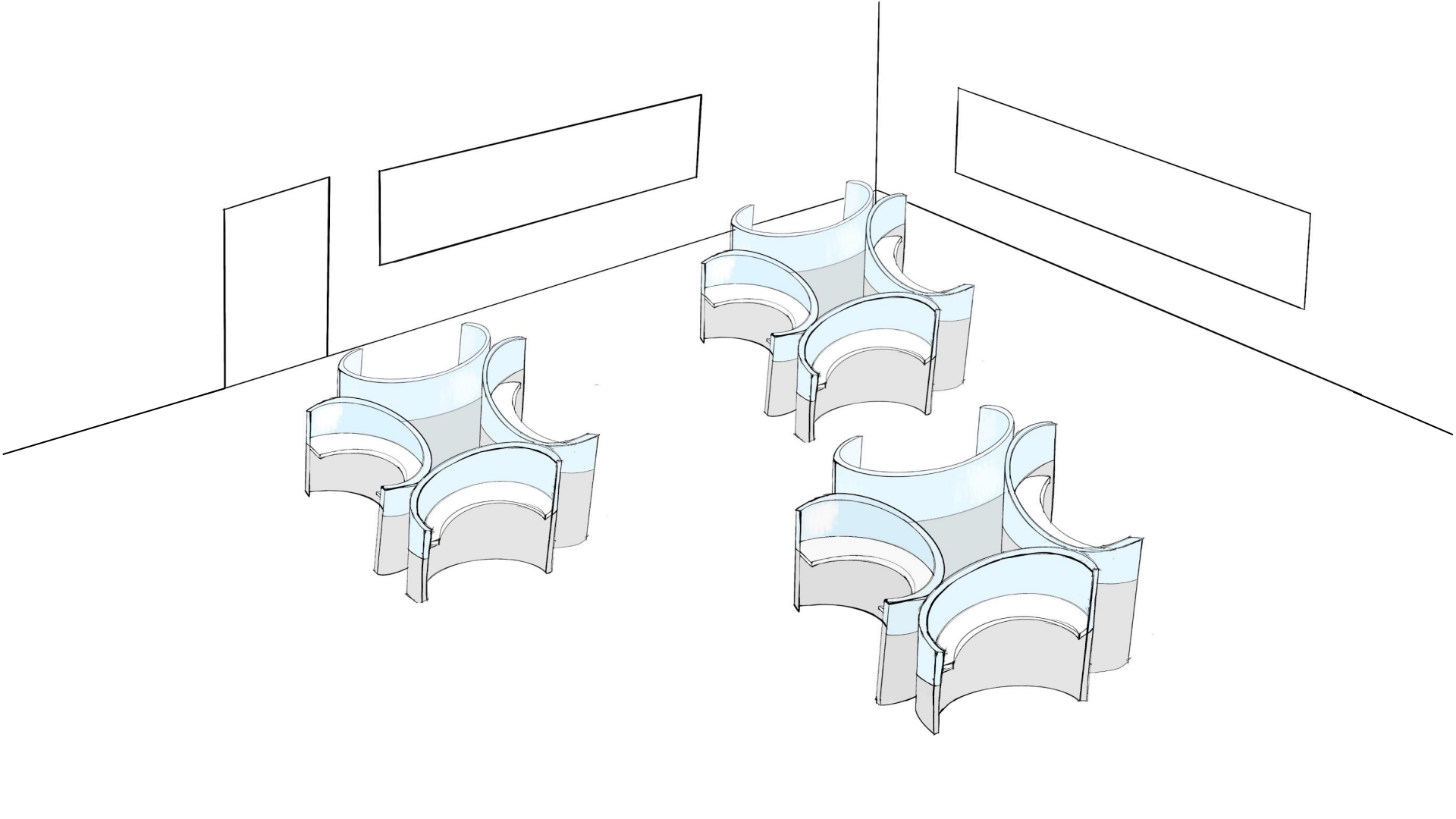
CLASSROOM CUBICLES

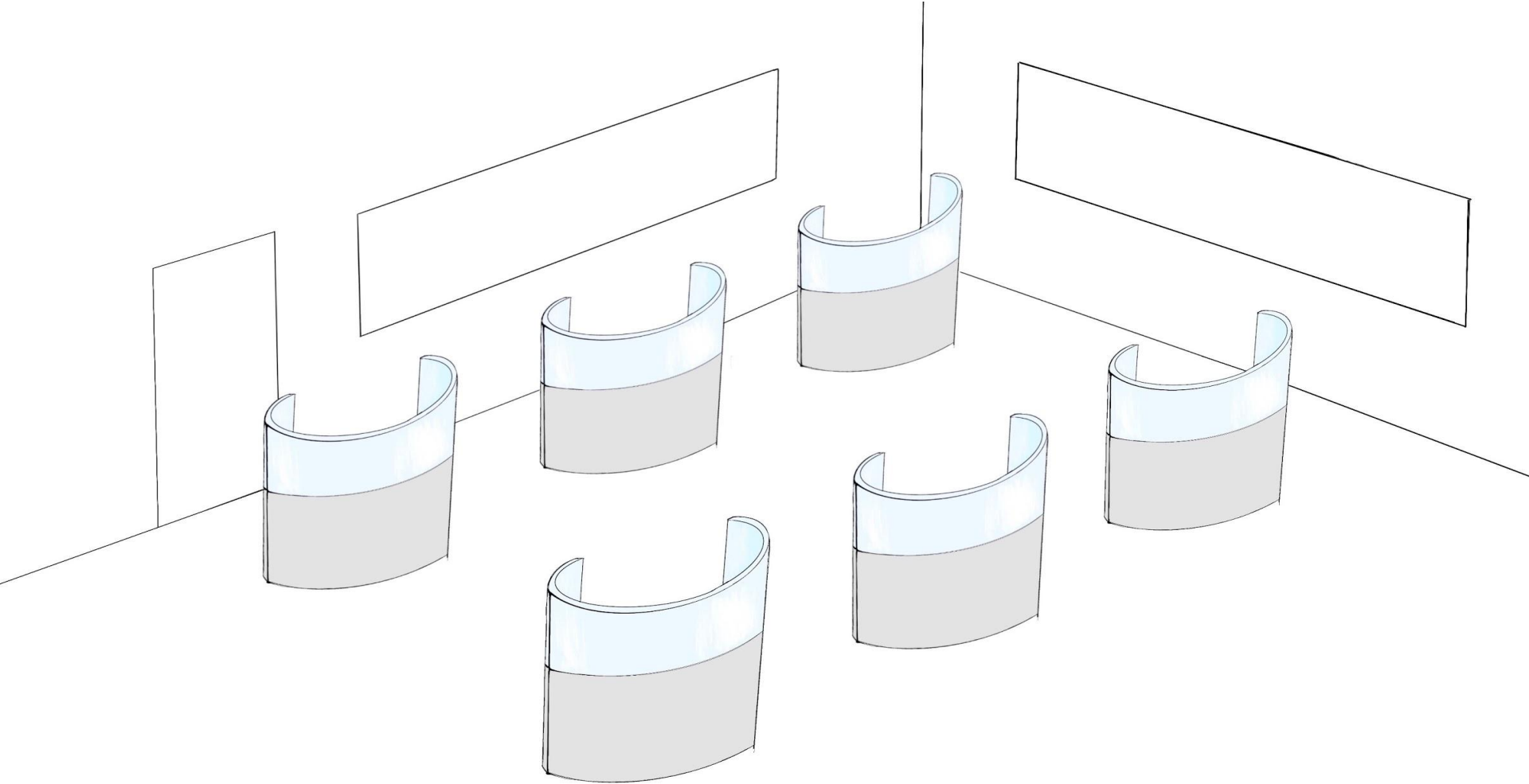
WHY SHOULD WE MAINTAIN IN PERSON LEARNING DURING A PANDEMIC?











The Outdoor Option

COVID-19 Outdoors

According to the European Centre for Disease Prevention and Control,

- Transmission of Covid-19 is lesser in outdoor settings
- Constant ventilation and air movement disperses particles
- However, aerosols and droplets are still expelled and circulate, making masks a necessity

Arapahoe Ave

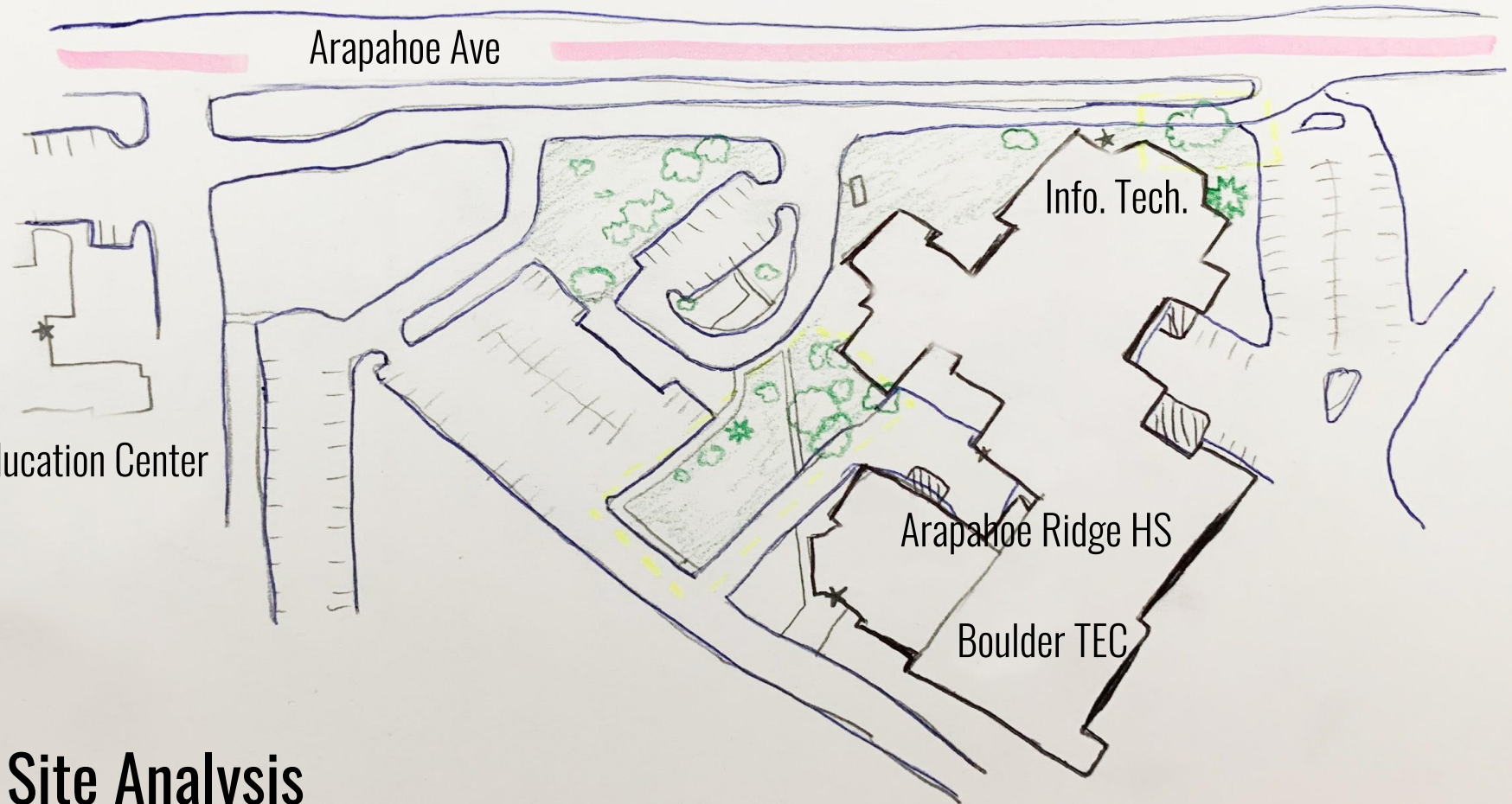
Education Center

Info. Tech.

Arapahoe Ridge HS

Boulder TEC

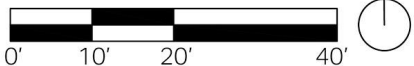
Site Analysis



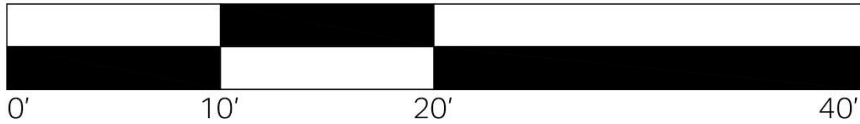




Site Plan



Site Section



Thank you