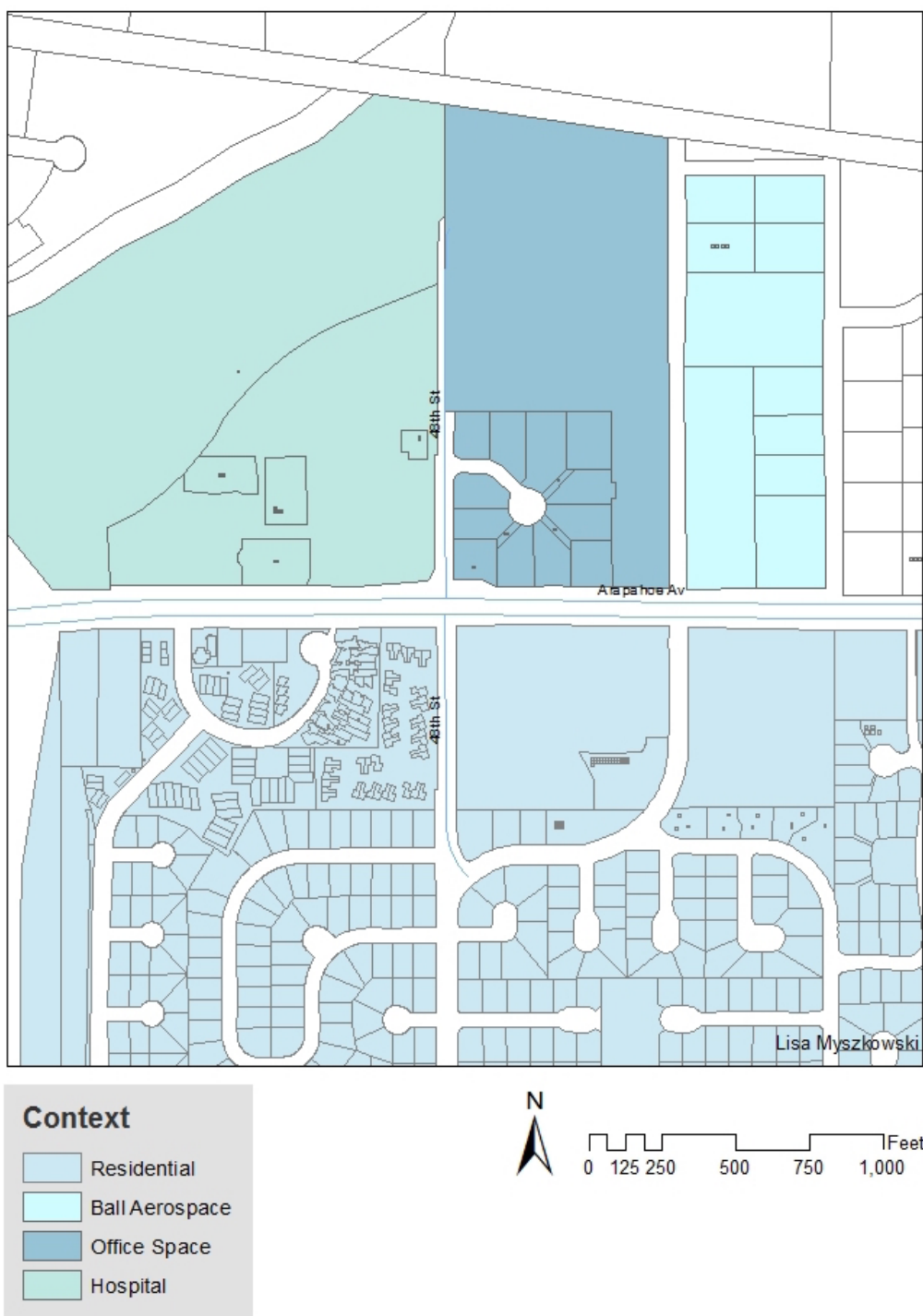


48th St. and Arapahoe Ave. Redesign for Commuters

Lisa Myszowski

Context



Areas of Conflict



48th and Arapahoe is a very busy intersection. Arapahoe has 6 lanes of traffic in this area. The Boulder Community Hospital is located at this location. There is a multi-use lane on one side of the road for both bikers and pedestrians with no differentiating median or boundary. The cars are moving at 45 mph and are often unaware of pedestrians, stopping in crosswalks or turning without looking at the sidewalks. This intersection needs to be improved to promote wakability and bikability, and become safer for non-automobile traffic.

Observations



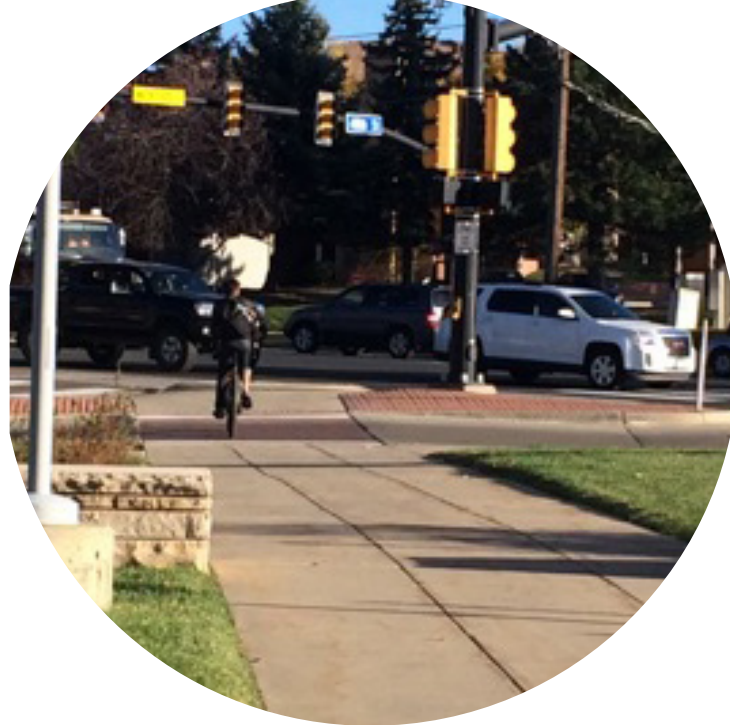
Walker Observation in 1 hour time frame

- Crossing at a non-intersec-tion: 2
- Crossing at red light: 24
- Moving out of way for biker: 13
- Dangerous to cross Arapahoe
- Small sidewalk on S. side of Arapahoe
- Multi-use path on N. side; pedestrians move for bikes



Bike Observation in 1 hour time frame

- Riding on sidewalk: 19
- Cut off by turning car: 6
- Waiting for cars that don't obey crosswalk: 3
- Did not see any on road; all sidewalk



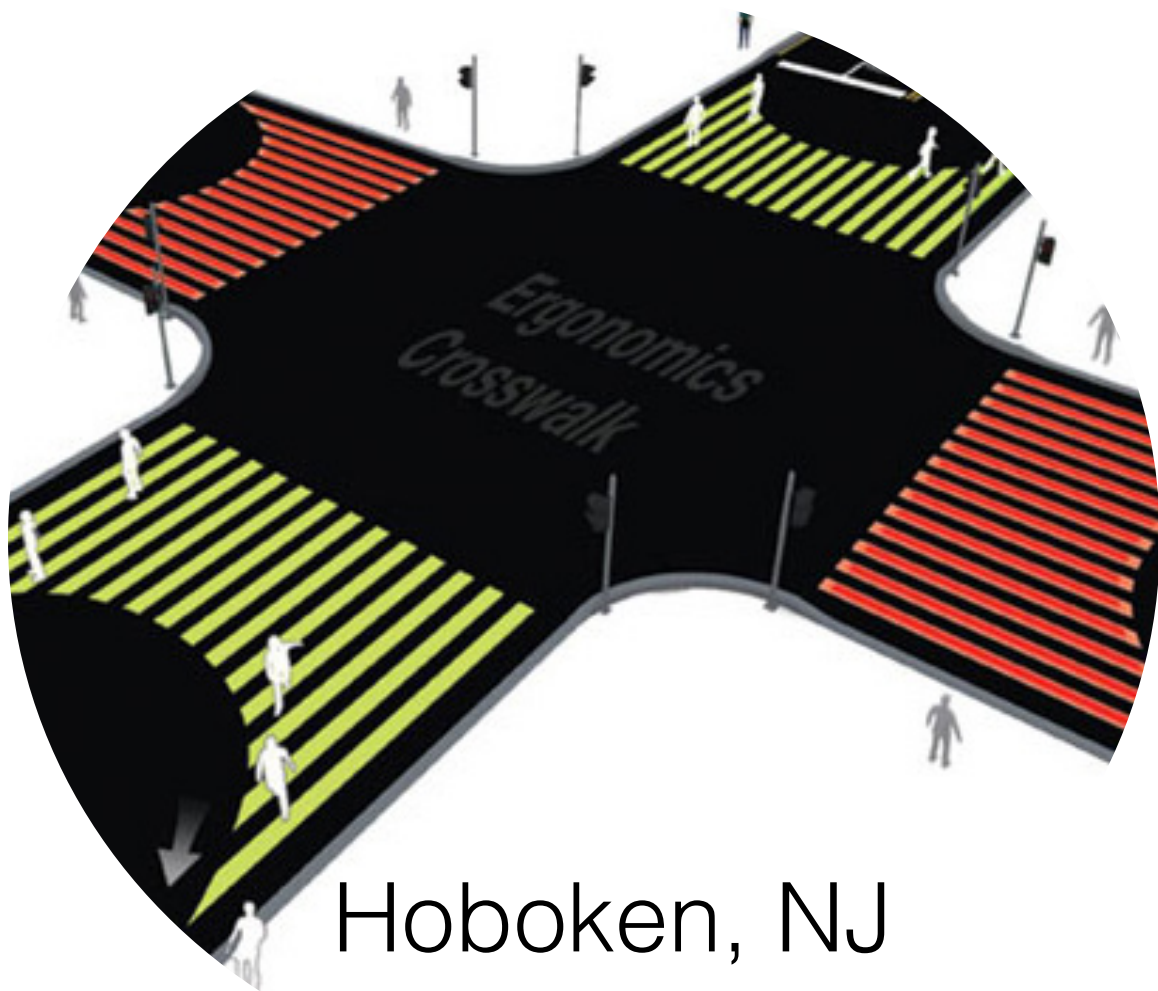
CURRENT

- B-Cycle Station
- Covered bus stop with seats
- Large sidewalks/ multi-use path
- Buffer from sidewalk to street
- Elevated turn lane/ speed hump
- Dangerous, busy road
- No bike lane
- 45 MPH speed limit zone
- No bike racks
- Graffiti in bus stop

Precedents



Mazury, Poland



Hoboken, NJ



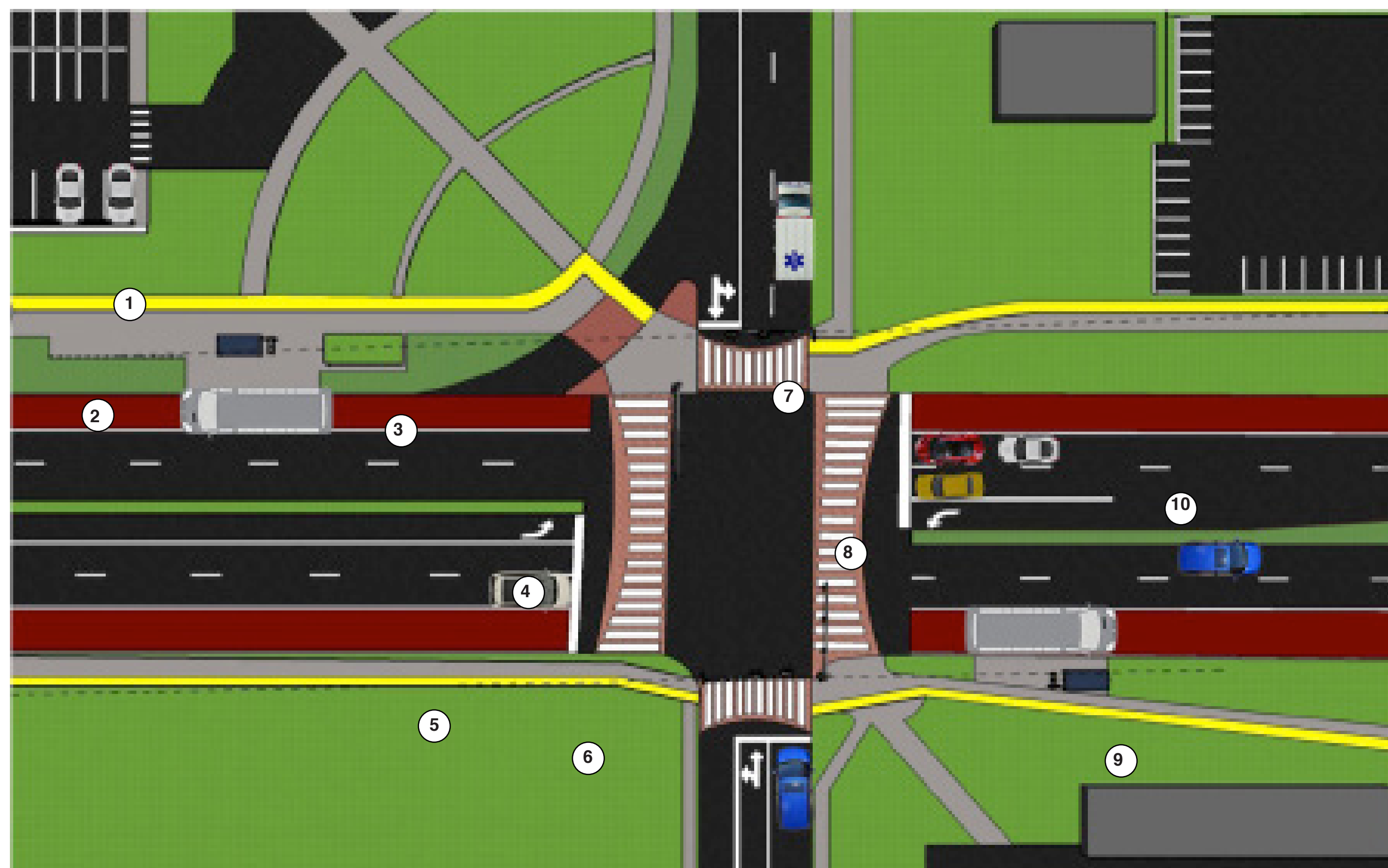
Amsterdam

Mazury, Poland incorporated a solar powered Phosphor tecnology to light its bike paths. Hoboken, NJ has “ergonomic crosswalks,” which allow pedestrians and cyclists to have more room in intersections and allows them to follow a natural path, makes automobiles more aware of pedestri-ans, and stops them further back from the intersection. Amsterdam splits its multi-use paths with clear markings for walkers and bikers.

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Site Plan



- 1. Shared cars
- 2. Split multi-use path
- 3. Secure bike parking with green roof
- 4. Green median
- 5. Bus-only lane
- 6. Added multi-use path
- 7. Added lane for ambulances
- 8. Ergonomic Crosswalk
- 9. Updated bus stops with real time updates and ticket machine
- 10. Reduced lane size to 10'

Human Scale



I focused on creating a safe and comfortable environment for non-automobile commuters. To do so, I made the intersection safer and forced cars to be more aware of pedestrians. There is an added secure bike storage. The bus lane will help commuters get to their destination and avoid traffic. A separate bike and pedestrian lane makes the multi-use path more protected and less intimidating for users.

