L ARCH 200 UNDERGRADUATE THESIS
PLANNING TRACK

#ShareTheRoadWithHer

EVALUATING WOMEN'S LANDSCAPE PREFERENCE OF CYCLING INFRASTRUCTURE IN QUEZON CITY BASED ON MOBILITY NEEDS

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BACKGROUND

Cycling and gender studies has two themes:

1. Women take into consideration safety concerns, divided into two:
   - TRAFFIC SAFETY
   - SOCIAL SAFETY
2. Women have more complex trip patterns than men due to care mobility trips
   - CARE MOBILITY TRIPS ARE TRIPS MADE FOR CARING FOR OTHER PEOPLE SUCH AS HOUSEHOLD RESPONSIBILITIES AND CAREGIVING ERRANDS

How can planning and policy interventions address women's considerations and mobility needs when cycling?

METHODS

- Identify women's preference through surveys, focus group discussions, and interview
- Conduct a site inventory using the typologies that are relevant in women's mobility
- Create a complete network of cycling infrastructure based on gathered data

DESIGN PRINCIPLES

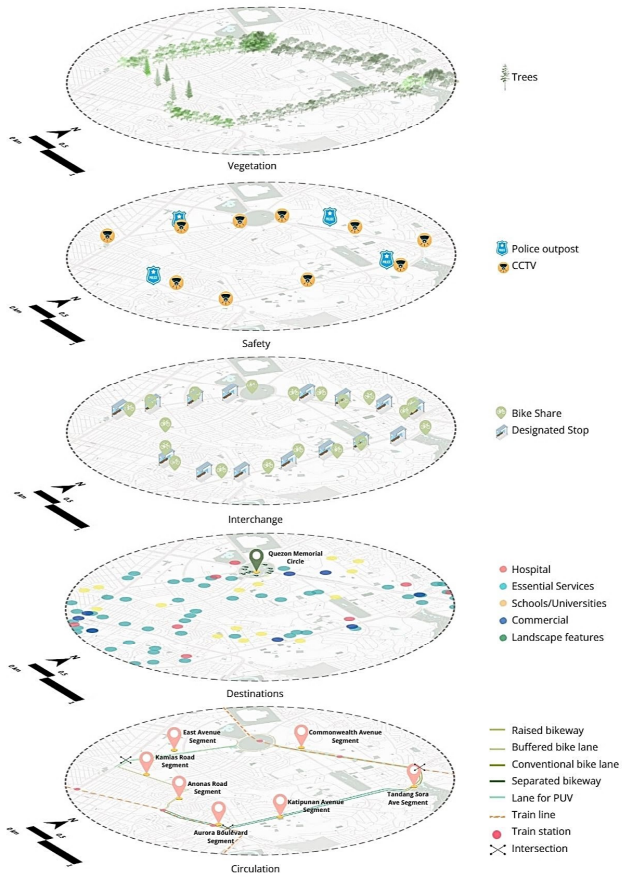
Mobility

- Accessibility- infrastructure should lead to women's destinations
- Practicality - cycling as the best option for purpose of trip
- Comfort - women should be in a state of relief
- Convenience - infrastructure should be easy to operate
- Ergonomics - should be designed in consideration of spatial needs

Safety

- Visibility - assurance that they are easily seen in case of accidents or cases of street harassment
- Connectedness - path is easily seen
- Enclosure - there must be physical barriers from vehicular traffic
- Privacy - women should be given adequate personal space
- Education - change perception of motorists

BASED ON TWO MAIN CONCERNS



MASTER SITE DEVELOPMENT PLAN

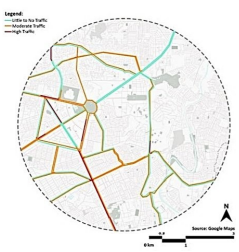
DIAGRAM OF PLANNING SCHEME BASED ON OPTIMUM DESIGN INTERVENTION

DATA RESULTS

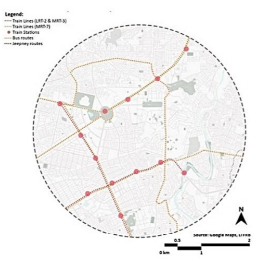
BASED ON FGD, SURVEY, AND INTERVIEW

- WOMEN'S TOP TRIPS ARE CONCENTRATED FROM 11-1 PM WITH AVERAGE DISTANCE OF 10KM
- CYCLING NOT USED FOR CARE MOBILITY TRIPS DUE TO LACK OF INFRASTRUCTURE
- PRACTICALITY AND COMFORTABILITY FOR ERRANDS IN CHOOSING MODE OF TRANSPORTATION
- CATCALLING AND GENDER-BASED DISCRIMINATION OFTEN EXPERIENCED
- LAST-MILE CONNECTIVITY AS PRIORITY, WITH COORDINATION TO LGUS
- MINDSET OF MOTORISTS AS TARGET, PASS ROAD ETIQUETTE LAWS

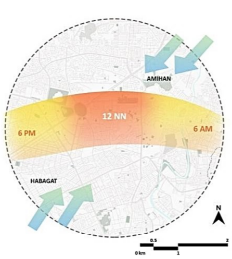
SITE ANALYSIS



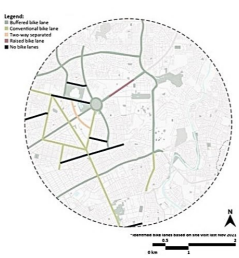
Traffic Analysis Map



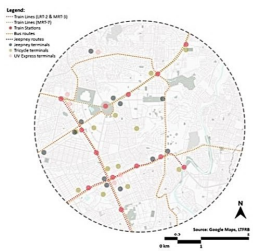
Circulation Map



Climate Analysis



Bike Classifications Map



Interchange Map

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3 PLANNING SCENARIOS

minimal — focused on minimal adjustments needed to address traffic safety concern; scenario based on current road infrastructure

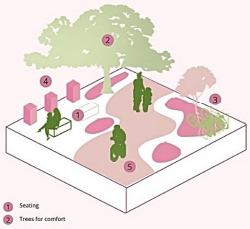
median — basis for long-term development; cycling is already established as a mode of transportation in the Philippines in this scenario

optimum — synthesizes ideal condition for women; in this scenario, the Philippines has veered away from car-centrism

DIAGRAMS

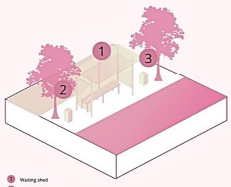
BASED ON OPTIMUM DESIGN INTERVENTION

RECREATIONAL



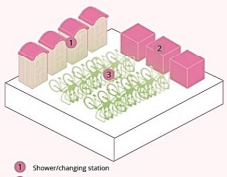
1. Seating
2. Trees for comfort
3. Bike share/bike parking
4. Repair station/Water dispenser
5. Cycling track

DESIGNATED STOPS



1. Waiting shed
2. Repair station
3. Water dispenser
4. Sidewalk
5. Bike lane
6. PUV and bus lane
7. Ramp

TERMINALS

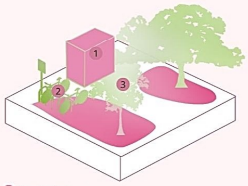


1. Shower/changing station
2. Bike locker
3. Bike parking/bike share
4. Breastfeeding lounge

CYCLISTS' LOUNGE

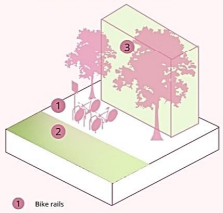
1. Shower/changing station
2. Bike rail
3. Seating
4. Water dispenser & repair station
5. Trees for comfort

BREASTFEEDING LOUNGE



1. Breastfeeding lounge
2. Bike share/bike parking
3. Planting for comfort
4. Comfortable chair
5. Diaper-changing station
6. Comfort room fit for children

DESTINATIONS



1. Bike rails
2. Bike lane
3. Shower/ changing station

ROUTES

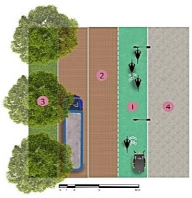
BASED ON OPTIMUM DESIGN INTERVENTION SPECIFIED FROM SITE ANALYSIS

AURORA BLVD.

1. bike lane
2. designated lane for drop-off
3. lighting

KATIPUNAN AVE.

1. bike lane
2. designated lane for drop-off
3. lighting
4. sidewalk
5. alfresco dining
6. raised planting

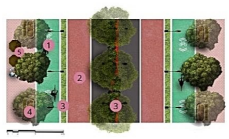


TANDANG SORA AVE.

1. bike lane
2. road with concrete pavers
3. raised planting
4. sidewalk

COMMONWEALTH AVE

1. bike lane
2. designated lane for drop-off
3. lighting
4. waiting shed
5. train track
6. sidewalk
7. bike sharing (angled parking)



EAST AVENUE

1. bike lane
2. designated lane for drop-off
3. lighting
4. seating
5. street vendors

KAMIAS & ANONAS RD.

1. bike lane
2. car lane with concrete pavers
3. lighting
4. planting strip
5. movable planters

PERSPECTIVES