



South Campus Neighborhood Project
**Street Lighting
& Accessibility**

CONCEPTS

Prepared By

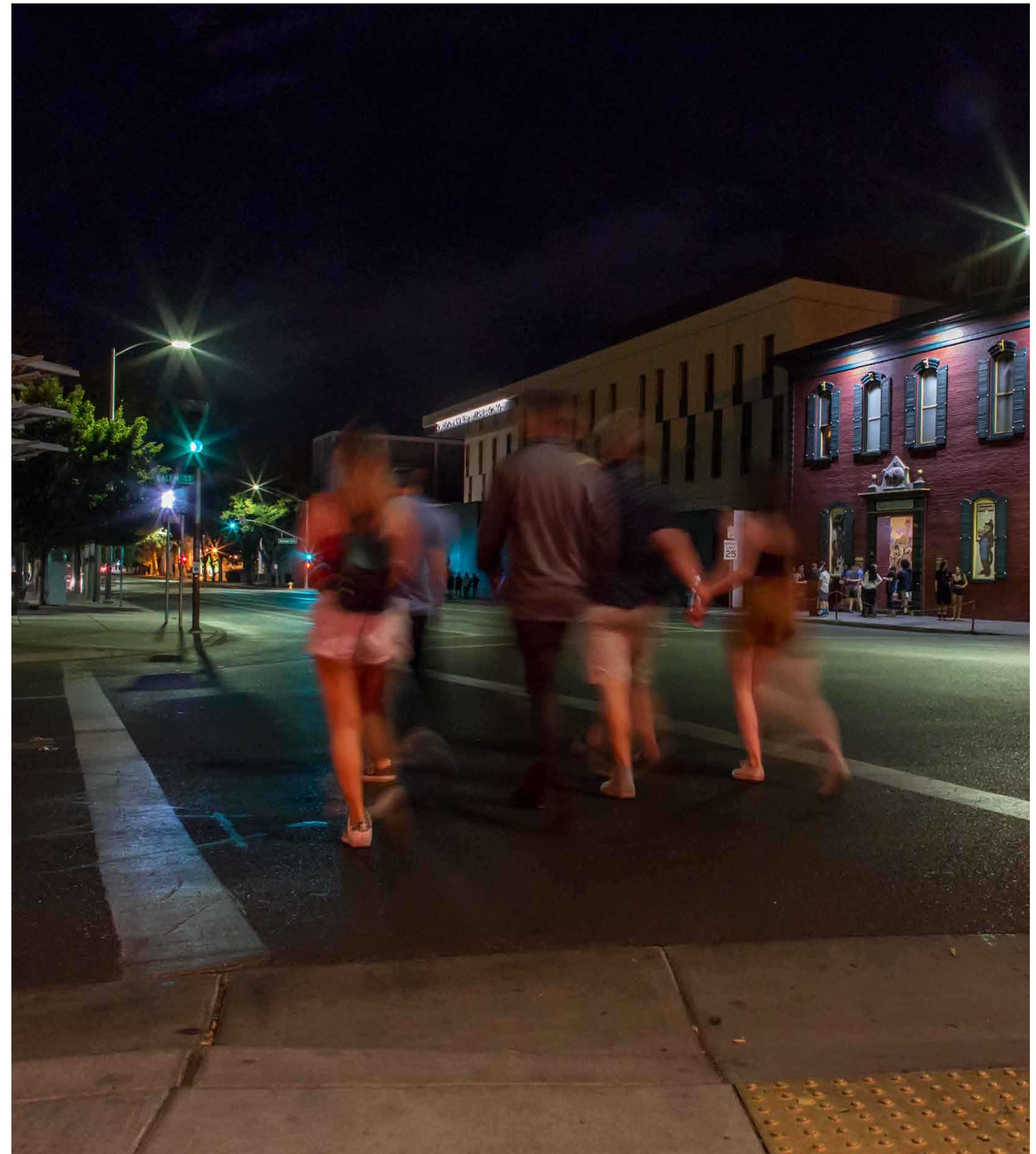
Joni L. Meyer

Health 370: Drugs in Our Society | Fall 2018

Department of Health & Community Services

College of Behavioral & Social Sciences

California State University, Chico



Resilient Cities Initiative
Institute for Sustainable Development
California State University, Chico

The South Campus Neighborhood Project

The South Campus Neighborhood Project is an award-winning neighborhood improvement planning effort coordinated by the Resilient Cities Initiative at California State University, Chico and the Public Works-Engineering Division at the City of Chico, CA. The project is focused on the public rights-of-way in Chico, California's South Campus Neighborhood, a six by seven square-block area bound by 2nd Street to the North, 9th Street to the South, Orange Street to the West and Salem Street to the East. Immediately adjacent to both downtown Chico and the University, it is Chico's oldest residential neighborhood and was laid out by the town's founder, John Bidwell, in the 1860's.

The neighborhood today is densely populated with university students and is also home to a number of small businesses, restaurants, bars, churches, community organizations, a school, a fire station, a police station, a railway station and transit center. Given its location, population and mixed uses, the neighborhood faces a unique set of circumstances and challenges. This three-year project aims to assess existing conditions and to develop and refine neighborhood improvement concepts to address a range of identified issues. The neighborhood improvement planning process is focused on concepts for complete streets and public works that will enhance public health and safety, quality of life, sense of place and environmental sustainability.

➤ *More information can be found online at <http://scnpchico.com/>*



City of Chico Public Works-Engineering

The overall Mission, Vision and Goal of the City of Chico Public Works Department is to provide the best possible Quality of Life through our abilities to protect, plan, construct and maintain the physical assets of the City. This is achieved through teamwork, integrity, professionalism, innovation, respectful customer service, value to the citizens of Chico, accountability and stewardship of the City's infrastructure and public resources. We serve the public in a manner that supports the rich heritage of Chico, as well as progressing into future improvements desired by the community in a sustainable manner. We continue to look for new technology that assists in meeting these goals so that we can operate at the most efficient level and continue to be at the leading edge of modern standards.

Our Mission, Vision and Goals include ensuring public safety through detail oriented and strategic improvements to mitigate unsafe operation and use of our Public property; Providing safe, sustainable, integrated and efficient transportation systems to enhance the City of Chico's economy and livability for all modes of transportation; Efficiently and effectively providing a reliable, sustainable and cost effective sanitary sewer and storm water collection system for our residents and businesses in-line with our overall Mission and Vision. We are stewards of the natural environment and through responsible practices, we construct and maintain our natural environment to the highest of standards. We will continue to make the City of Chico a leader in sustainable and clean practices so that our residents can experience the quality of life that is desired for an infinite length of time.



Public Works-Engineering

City of Chico, California

The Resilient Cities Initiative

The Resilient Cities Initiative (RCI) is an interdisciplinary university-community partnership program established by the Institute for Sustainable Development at California State University, Chico in 2016. The RCI connects real-world community sustainability projects— identified and funded by partner agencies— with faculty expertise and student innovation from departments and disciplines across the University’s academic colleges. The RCI recruits partner agencies through a competitive selection process and matches projects with existing courses across the university’s curricula. Partner agencies are able to harness incredible momentum for their projects in large part because the partnership is realized on a bigger scale than more typical one-off university-community projects. Faculty are able to opt-in and augment their existing curriculum with real-world projects that have been identified, funded and supported by the leadership

and staff of the partner agency— ultimately delivering their students’ work for consideration and implementation. The RCI is a member of the Educational Partnerships for Innovation in Communities (EPIC) Network, a nationwide network of over 25 universities that have replicated the highly successful Sustainable City Year Model that was established at the University of Oregon in 2009. The model is based on university-community partnerships with a defined geographic and temporal scope, focused on advancing sustainability and the social good, leveraging the multidisciplinary knowledge and capacity of the university to ‘move the needle’ on pressing community issues. The RCI directly engages hundreds of CSU, Chico students each academic year, providing impactful opportunities for them to put theory to practice in their own community and region, connecting them with decision-makers in practitioners in their fields of study, and helping develop the next generation of workforce professionals and leaders.



Course Participants

Health 370: Drugs in Our Society | Spring 2018 | Joni L. Meyer

Department of Health & Community Services, College of Behavioral & Social Sciences, California State University, Chico

Adilene Zambrano	Andrew Miller	Carlo Baylon	Elizabeth Wilson	Jehonah Paradon
Adrienne Sherman	Andrew Nakamoto	Chase Benjamin	Emily Stenson	Jennifer Laux
Akon Thon	Andrew Orozco	Chase Jones	Eric Ceja	Jerry Xiong
Alexander Aguilar	Angel Martinez	Chase Miller	Fidel Carrasco	Jessica Voss
Alexandra Chavez	Anthony Hazlett	Chelsea Williams	Gavin Kirkreit	Jonathan Harvey
Alexandra Orlando	Audrey Calderon	Chloe King	Hailey Roux	Jordon Spencer
Alicia Alaniz	Austin Rogers	Christopher Lupton	Haley King	Jorge Romero
Alisson Gonzalez	Bailey Ramirez	Ciara O'Quigley	Hanin Nijim	Joseph Tobias
Alyssa Golenor	Benjamin Tarran	Cierra Baines	Hannah Westfall	Kao Thao
Alyssa Pena	Benny Vang	Coryn Guynes	Harper Engemann	Kara Stroud
Amy Neidiffer	Brenna Meier	Daisy Ulloa	Heather Hull	Karina Romero
Amy Perez	Brittany Seale	Dasha Moore	Hunter Sollom	Katherine Porter
Ana Laura Morales	Brittney Fjeld	De'Andre Shaw	Iliana Ambriz	Kayla Fleming
Andrea Ramirez-Reyes	Brooke Canepa	Derek Nazar	Ivana Ngai	Kezia Paghunie
Andrea-Vianet Vargas	Camden Ledford	Eliona Kola	Jade Luong	



Public Works-Engineering

City of Chico, California

Course Participants Continued...

Kia Her	Lupe Zuniga	Omar Manzano	Sara Pearson	Tyler Murphy
Kim James	Madison Andersen	Rachel Bohnhoff	Sarah LoCoco	Valerie Rivera
Kyle Franco	Maria Lu	Rebecca Day	Sean Conrad	Vanessa Edwards
Kylee Rasmussen	Maritssa Turcios	Ricardo Archundia-Gonzalez	Skyler Molthop	Vanessa Rojas
Kylie Jones	Matthew Montes	Robbie Mayfield	Socorro Maldonado	Victoria Reyes
Lacey Snyder	Michelle Rivera	Rosalinda Rodriguez	Steven Hanson	Viridiana Fierros
Lane Sotomayor	Mikio Melendez	Sage Mitchell	Tayde Ortiz-Garcia	Wesley Bunch
Lauren Markle	Monica Sharp	Samantha Goldberg	Taylor Goetzl	Zephyr Lovere-Davies
Leslie Montoya	Natalie Geronilla	Samantha Lord	Taylor Vaccari	
Lilia Fernandez	Natalie Gerrodette		Tina Bricton	



Staff



Resilient Cities Initiative
Institute for Sustainable Development
California State University, Chico

Dr. James C. Pushnik
RCI Executive Director

Fletcher Alexander
RCI Associate Director

Maria Lu
RCI Report Editor
BA Health & Community Services Candidate

Jordan Alm
RCI Program Coordinator

Paris Trollope
RCI Marketing & Outreach Coordinator



Public Works-Engineering
City of Chico, California

Brendan Ottoboni
Director of Public Works-Engineering

Street Lighting & Accessibility Concepts

Prepared by Maria Lu, Brittany Seale, Aleandra Chavez, Chloe King, Benny Vang, Joni L. Meyer
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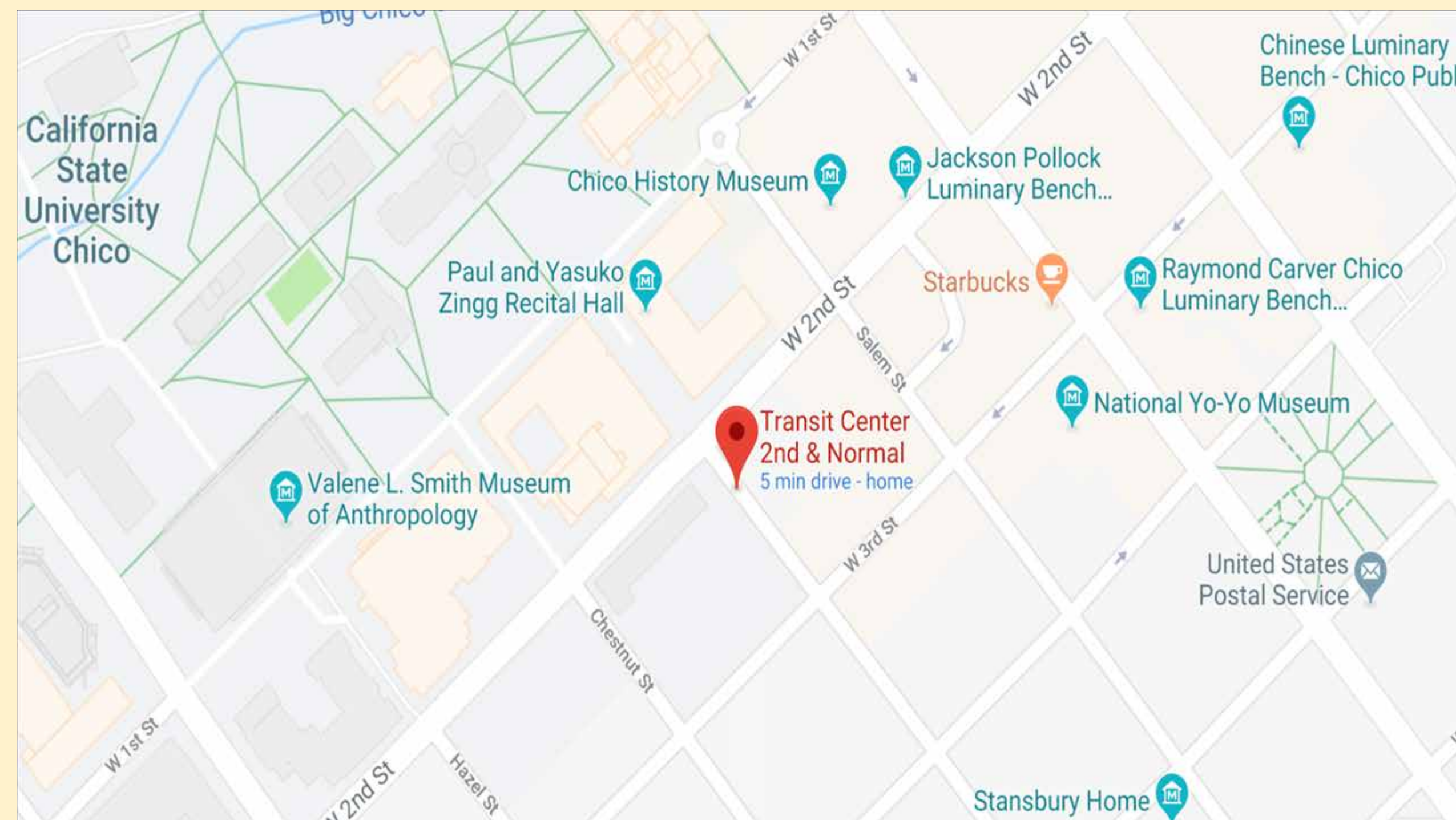
Streetlight Data:

The pavement down Normal was pretty rocky and not easy to navigate on a bike in dim lighting.

Adding street lights along Normal will help increase visibility for bicyclists and help car drivers be able to see bicyclists on side of road.

Designated Area:

Normal, 2nd to 9th



Sidewalk Data:

Normal and 4th were concerning, there were yield signs on both sides of the intersection, it was difficult to see around cars and did not feel safe when crossing.

Bike lanes should be wider like they are on Ivy so that pedestrians on bikes have their own space.

Streetlight Solutions:

Street lights cost anywhere between \$2,000-5,000. Depending on type, to cut down cost of electricity you could install solar lights.

Could also clean current lights and replace bulbs with LED light bulbs to offer more light.

PG&E owns all street lights mounted on wooden poles, maybe ask to install some on wooden poles.

Sidewalk Solutions:

It was really dark from Normal and 2nd all the way to Normal and 8th. Only one street light on normal and 8th, need more lighting along Normal.

On 7th and Normal, the cars come down 7th fast and even though there's a yield, it's hard to cross on bike.

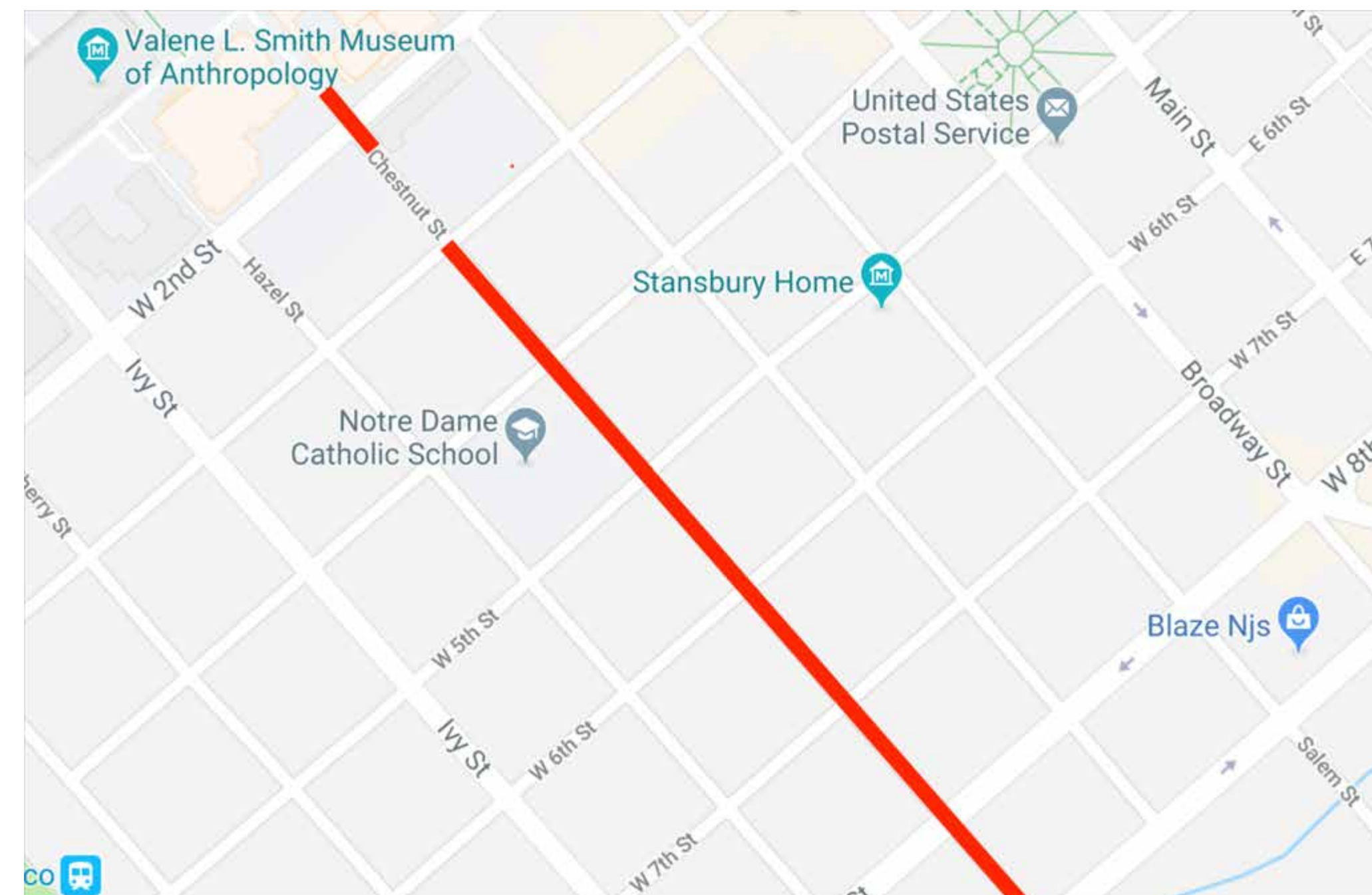
Adding stop signs to replace the yields will help slow down traffic and make it safer down Normal.

Street Lighting & Accessibility Concepts

Prepared by Amy Perez, Andrew Nakamoto, Andrea Ramirez Reyes, Ana Castillo, Joni L. Meyer
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Designated Area: Chestnut, 2nd to 9th



Solutions:

- Trim trees and Hang lights on telephone poles.
- Trim the trees that are in ability street lights.
- Trimming the trees will make the lights brighter and make it easier for people to see .
- Adding more lights to each side of the telephone poles will save more money than trimming all trees.
- Making the telephone poles shorter will also increase the visibility of the lights at night.

Sidewalk Data:

- The benefit of having the sidewalks fixed:
- There were many roots that were running underneath the side walks on Chestnut street .
- The side walks need new concrete .
- If the sidewalks have to big of bumps from the tree roots, it will be hazardous for people walking and especially dangerous for bikers and runners.



Solutions:

- LED lights would make it brighter for people to see and will save the city on the electricity bill.
- There are no street lights on 3rd street.
- Need a light on every corner of 4th street.
- 6th and 7th only has one street light.
- Between 7th and 8th street there are no lights.
- Only one between 8th and 9th street.

Street Lighting & Accessibility Concepts

Prepared by Amy Neidiffer, Hailey Roux, Ben Tarran, Hunter Sollom, Joni L. Meyer
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Sidewalk Data:

Problematic Locations

First crosswalk Hazel St. and 3rd St.
Both crosswalks Hazel St. and 4th St.
Middle of 4th and 5th and Hazel St.
Sidewalk on 5th St. and Hazel St.
2nd crosswalk 5th and Hazel St.
Sidewalk on 5th and Hazel St.

Designated Area:

Hazel, 2nd to 9th



Sidewalk Data:

Problematic Locations

South side of 8th and Hazel St.
West Side
North end of 8th sidewalk and Hazel St.
Middle of 8th and 7th St. sidewalk
North end of sidewalk on 7th and Hazel St.
No street sign on 7th and Hazel St.
South end of 6th and Hazel sidewalk

Sidewalk Data:

Problematic Locations

Middle of 5th and 6th sidewalk on Hazel St.
Middle of 6th and 7th sidewalk on Hazel St.
Overgrown bush in between 6th and 7th St.
Middle of 7th and 8th sidewalk
No crosswalk on 8th St.
2nd crosswalk on 8th and Hazel St.
Middle of 8th and 9th sidewalk Hazel St.

Sidewalk Data:

Problematic Locations

Middle of 5th and 6th sidewalk Hazel St.
Middle of 4th and 5th sidewalk Hazel St.
First crosswalk 3rd and Hazel St.
Middle of 3rd and 4th sidewalk on Hazel St.
North end sidewalk 3rd and Hazel St.
First crosswalk 3rd and Hazel St.



Street Lighting & Accessibility Concepts

Prepared by Sarah LoCoco, Karina Romero, Alex Aguilar, Carlo Baylon, Allyssa Pena, Joni L. Meyer
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Sidewalk Data:

- 3rd and Ivy to Cherry St – No street lights
- 4th and Ivy to Cherry St – No street lights
- 6th and Ivy to Cherry St – 1 street light for an entire block
- 7th and Ivy to Cherry St – Not enough street lights

Designated Area:

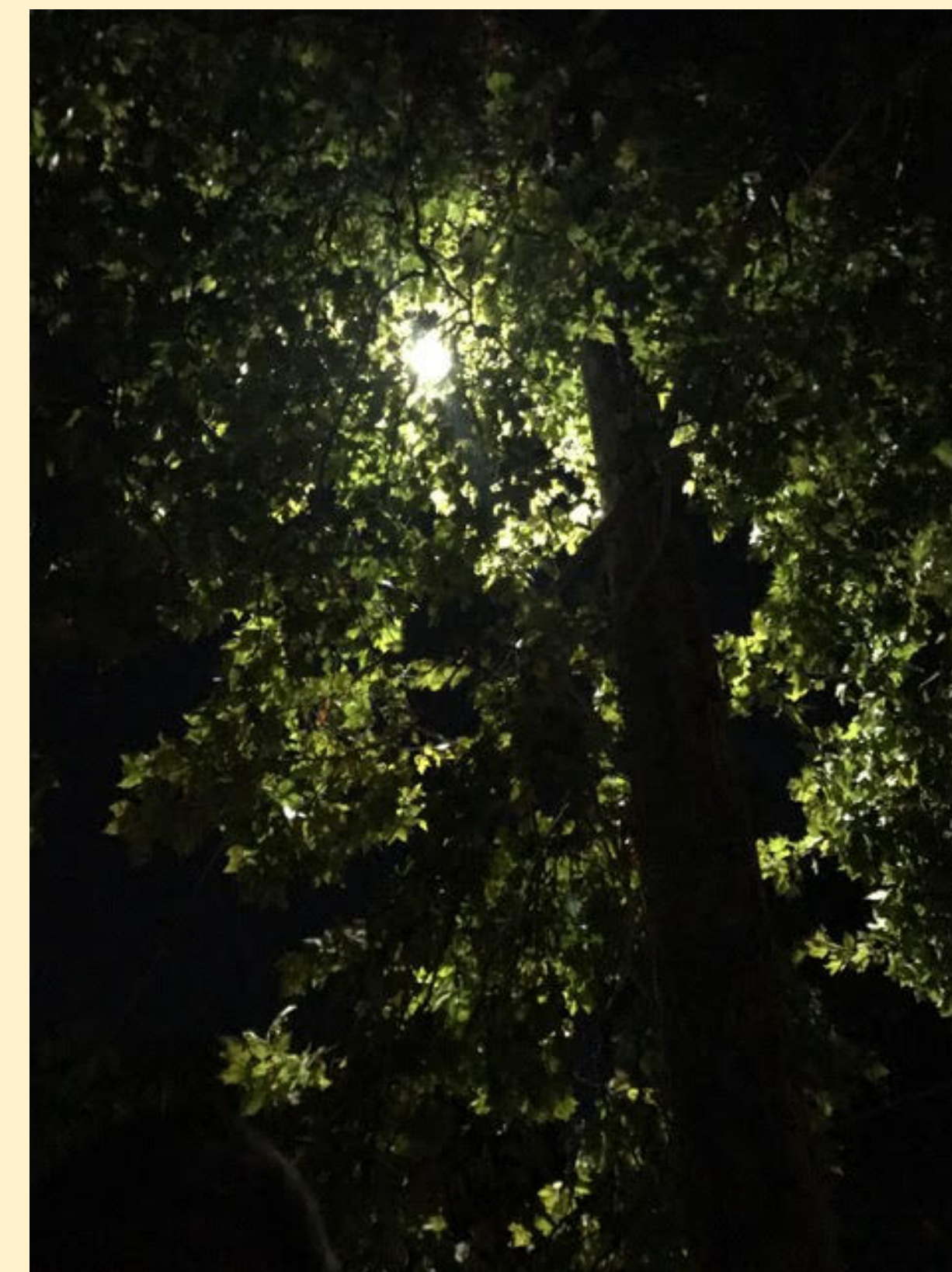
Cherry, 2nd to 9th

Solutions:

- Add more street lights, usually at \$61 each or replace existing lights with more efficient/brighter LED lights
- Trim the trees that are interfering with visibility of street lights, usually at cost between \$300-400 each

Solutions:

- Install 'Acorn' lights similar to those on Ivy, Chestnut and 5th Streets
- Industrial lights around buildings
- More street lights in general



Solutions:

- More realist to add more lights rather than trim the branches, as it for more cost effective
- Repair sidewalks that have been damaged by tree roots

Street Lighting & Accessibility Concepts

Prepared by Natalie Gerrodette, Chase Miller, Steven Hanson, and Bailey Ramirez, Joni L. Meyer
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Streetlight Data:

All the lights were on one side of the of the street and they were attached to power lines and they were super high up.

On the other side of the street there are a ton of trees where there could be more street lights.

Putting in the acorn lights where those trees are tall would be more effective due to the low height.

Designated Area: Orange, 2nd to 9th



Solutions:

Putting more lights within the train station, even though we went during the day it didn't seem like there were a ton of lights and would be beneficial to add more.

There are some student parking lots on Orange and maybe adding more lights there or brighter ones rather than the power line lights would make quite a difference.

Solutions:

Acorn lights are super effective and would be better than the lights currently on Orange street.

Example: Mexico installed LED lights and is letting private businesses pay for them and the money that they save using the LED lights the private businesses get back.

LED solar lights .

Street Lighting & Accessibility Concepts

Prepared by Jade Luong, Brooke Canepa, Valorie Rivera, Nicole Vas, Joni L. Meyer
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Sidewalk Data:

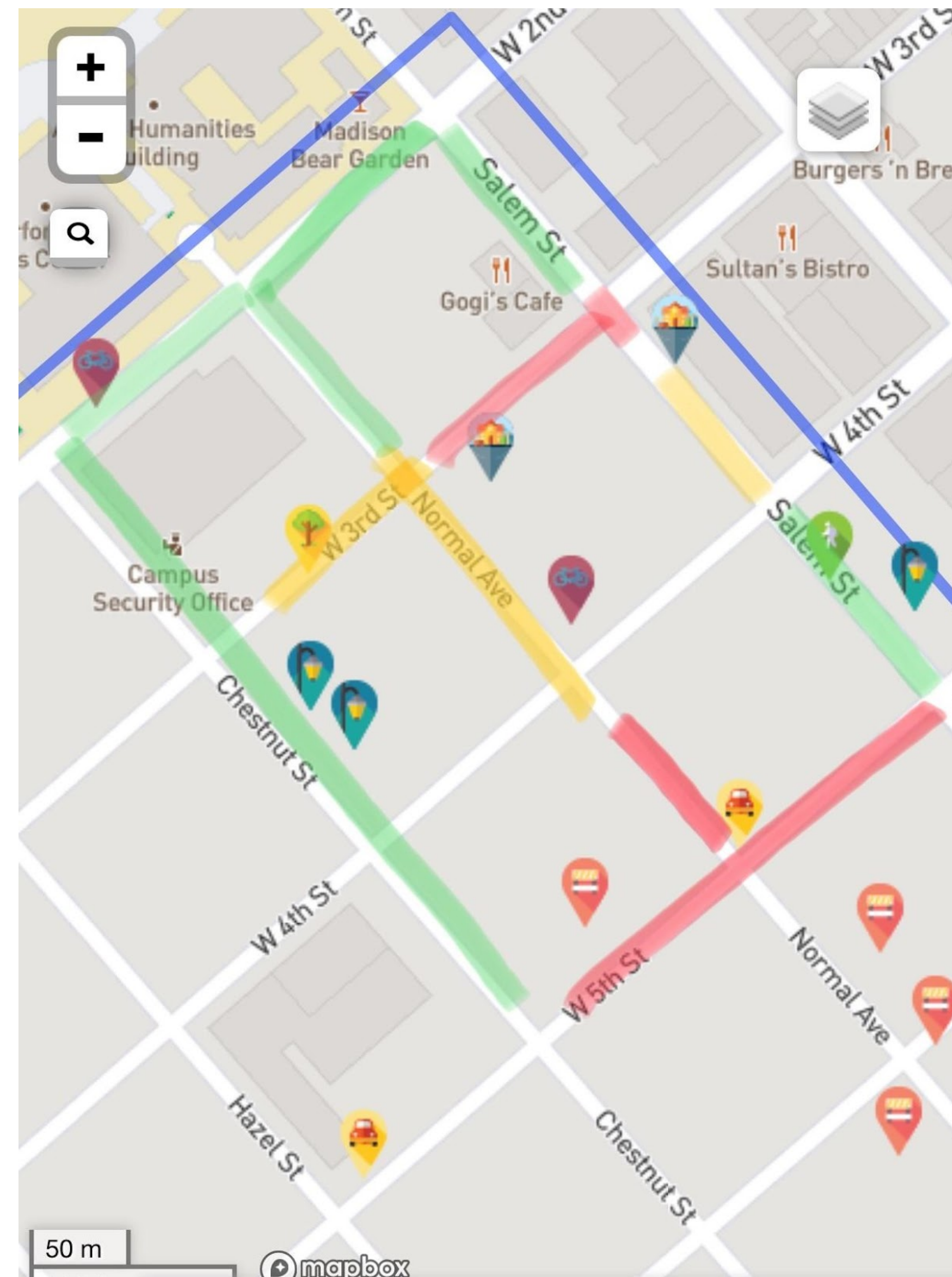
- Salem and 2nd: Public parking entrance is not visible**
- West 5th: Buckled sidewalk in front of 307**
- Normal and 5th: buckled sidewalk next to 445**
- Normal and 4th: buckled pathway on corner**
- Normal and 2nd: pothole in sidewalk**
- Normal and 3rd: sidewalk drops off**
- Normal and 4th: sidewalk is bumpy**

Solutions:

- Solar powered sidewalk lights.**
- Having residents more residents turn on their porch lights to provide better lighting along streets.**

Designated Area:

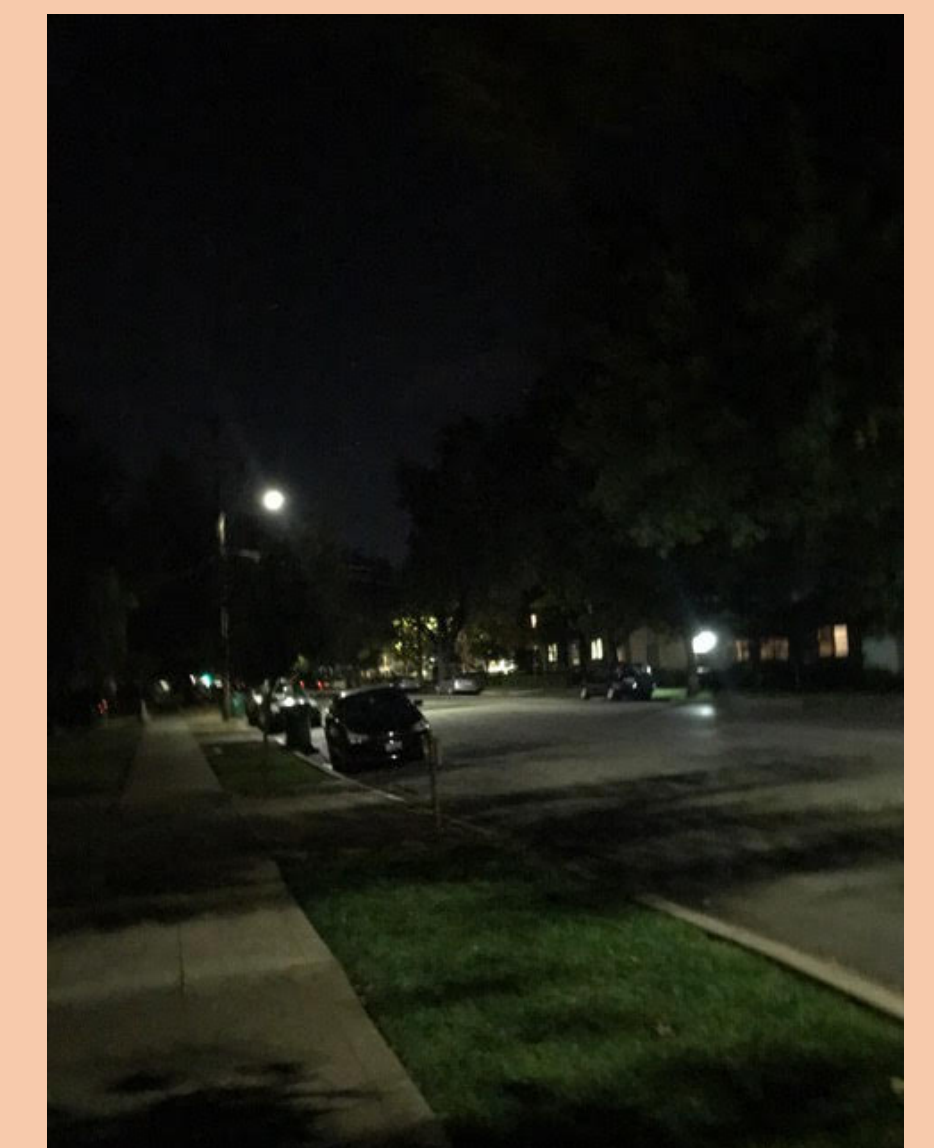
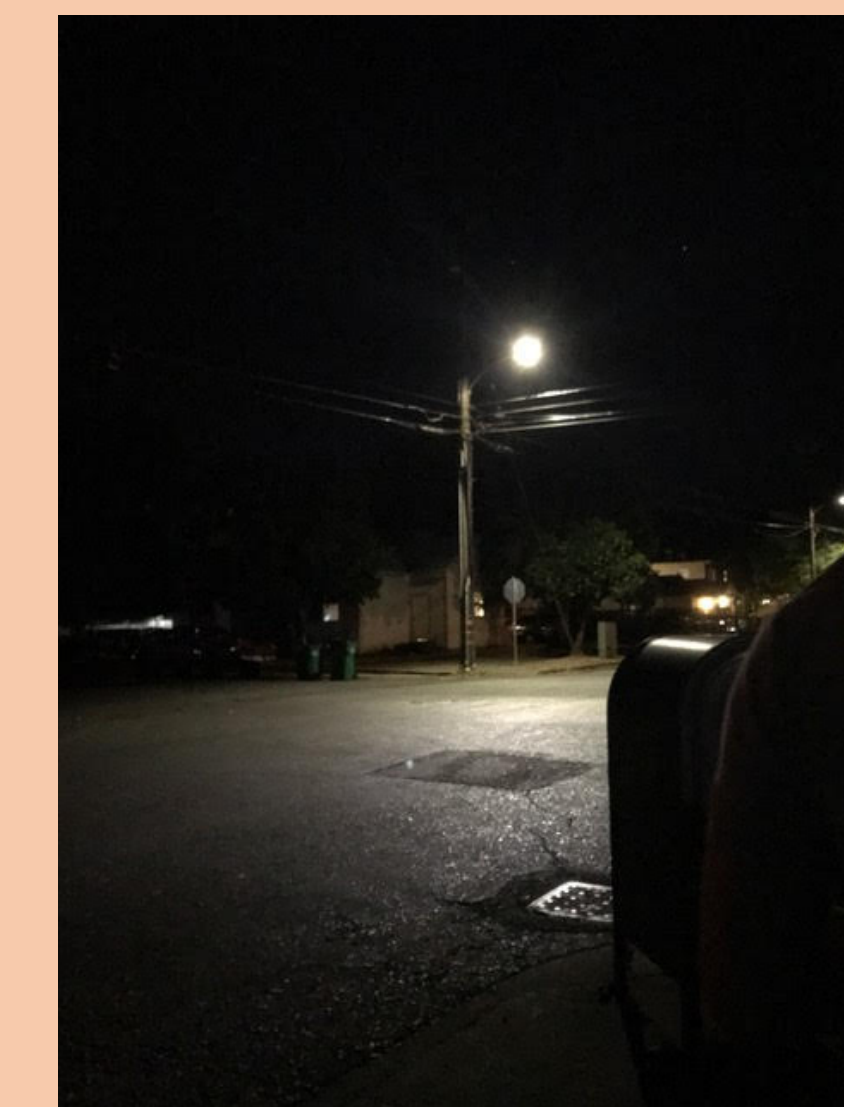
Salem to Chestnut, 2nd to 5th



Solutions:

Key to picture in center:

- Well lit: GREEN**
- Moderately lit: YELLOW**
- Poorly lit: RED**



Prepared by Eliona Kola, Kezia Pehunie, Haley King, Joni L. Meyer
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Streetlight Data:

Key to Maps:

Yellow: No Lights

Red: Low Lights

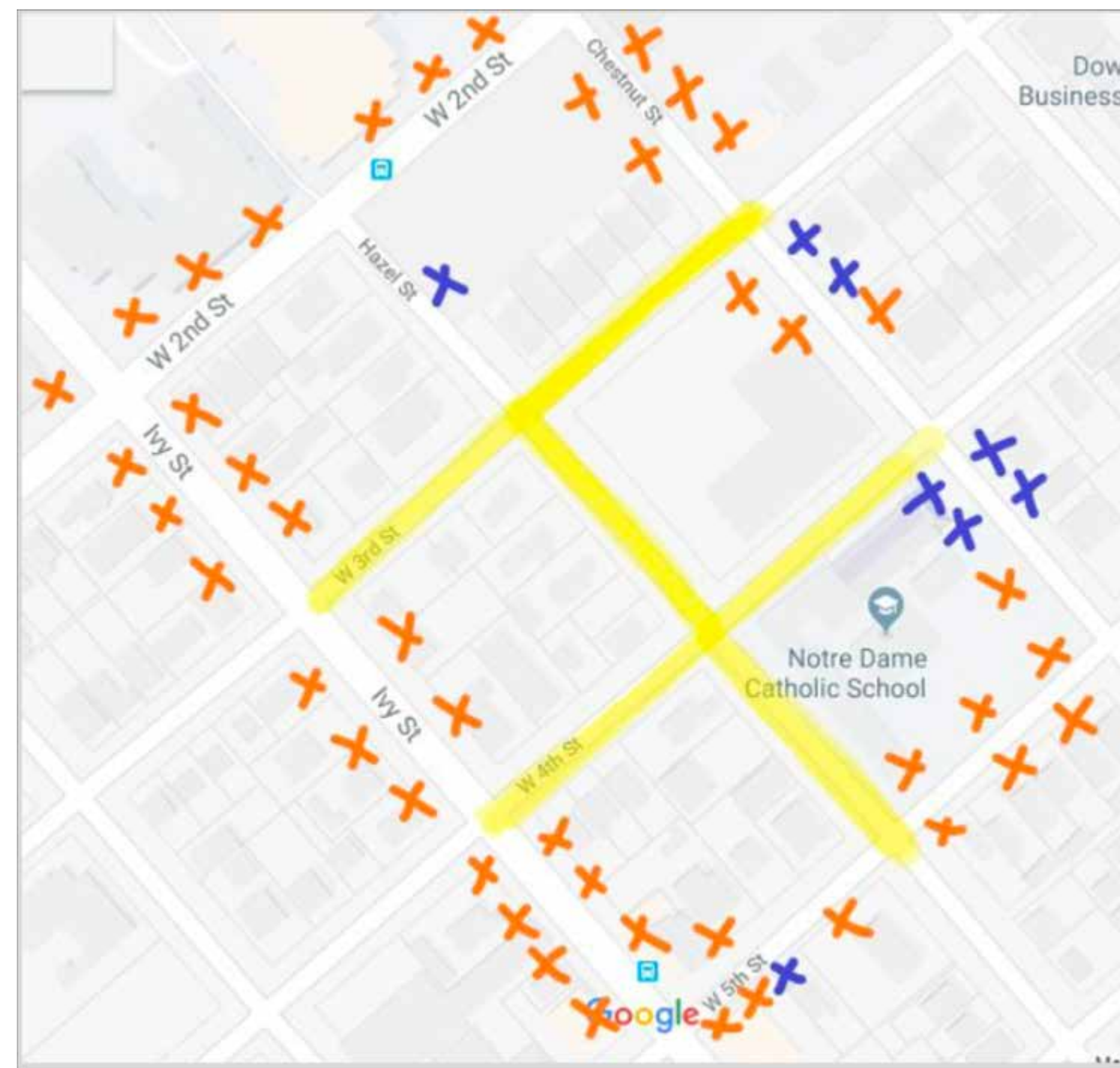
Purple: Moderate Lights

Orange X: Working Bulbs

Blue X: Not Working

Designated Area:

Chestnut to Ivy, 2nd to 5th

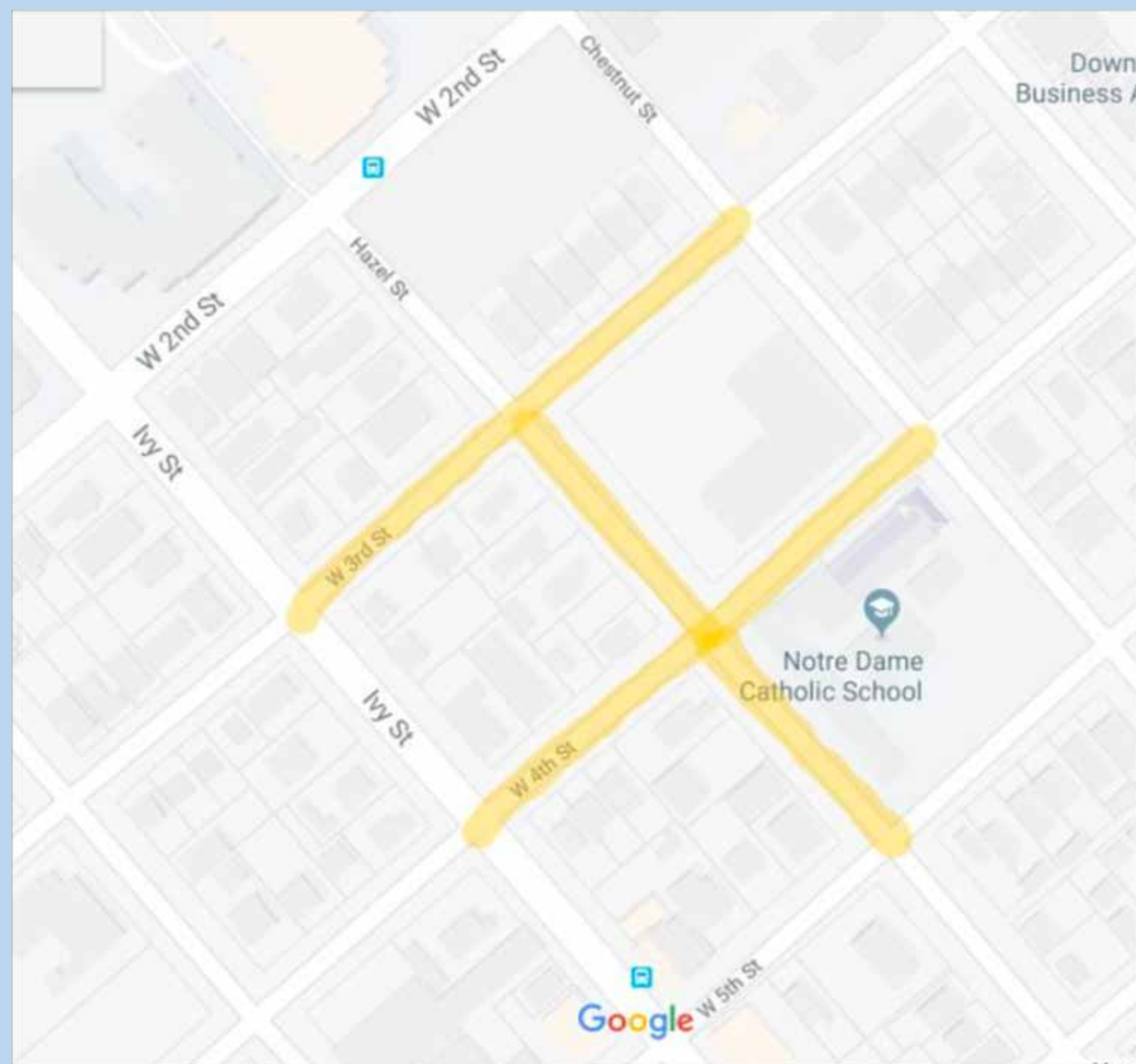


Solutions – Why They’re Important:

It’s important for students to feel and be safe in their own neighborhoods.

Streetlights increase people’s ability to accurately report crimes.

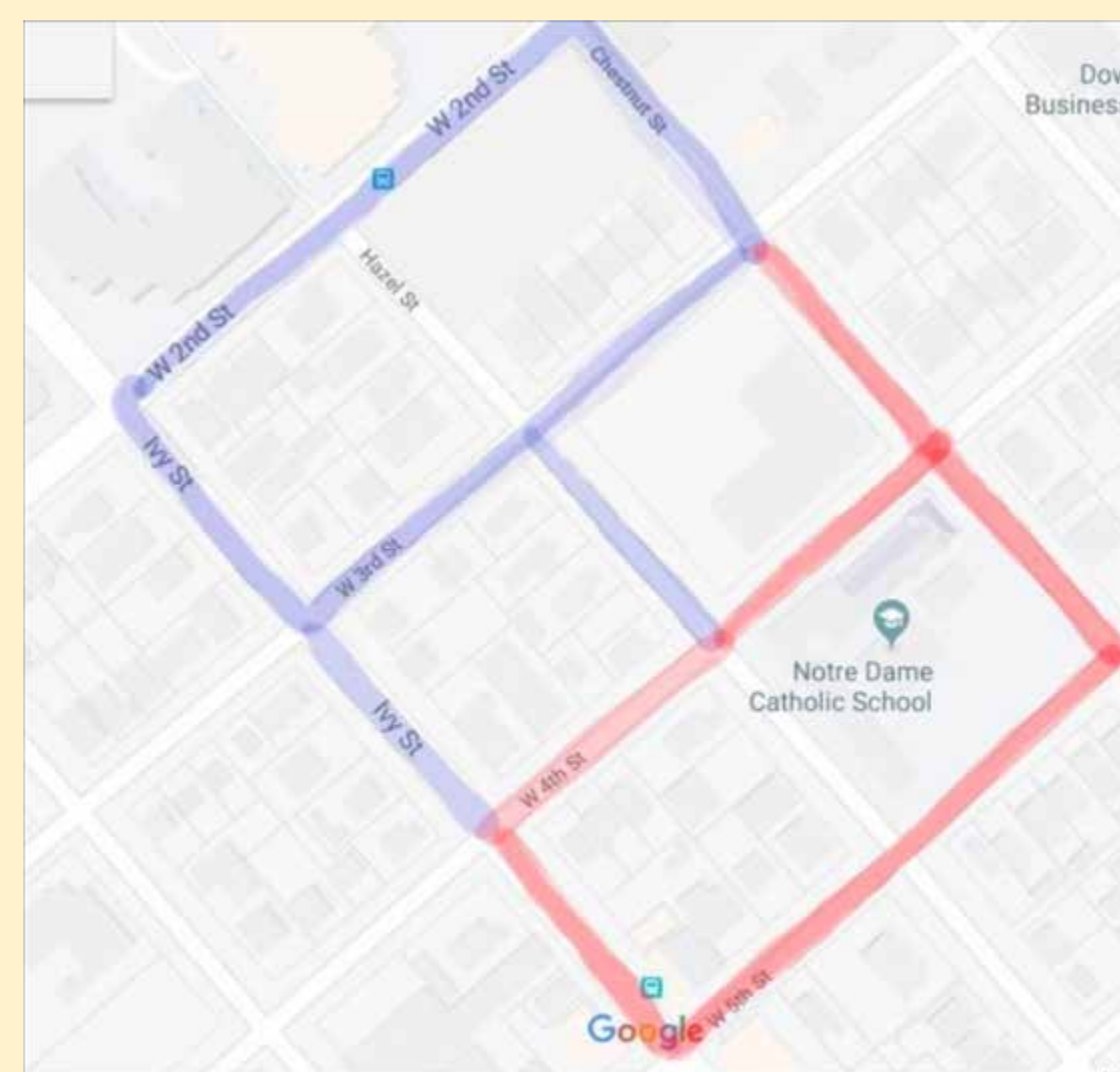
Without proper lighting, more crime and harm is expected.



Solutions – Why They’re Important:

Not only for crime prevention, but helping students navigate their way homes after studying, class, or going out with friends downtown.

Not everyone who visits the neighborhood has good intentions, it’s vital for student wellbeing to protect each other.



Street Lighting & Accessibility Concepts

Prepared by Alyssa Golenor, Samantha Lord, Taylor Vaccari, Christopher Lupton, Joni L. Meyer
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Sidewalk Data:

- 3rd and Chestnut- Needs crosswalk and stop sign**
- 5th and Chestnut- Cracked/uneven sidewalk**
- 3rd and Ivy- Needs crosswalk**
- 3rd and Cherry- Big crack on sidewalk**
- 4th and Ivy - Broken/cracked sidewalk, needs crosswalk**
- 4th and Hazel- Needs crosswalk**
- 5th and Hazel- Big pothole**

Designated Area:

Ivy to Orange, 2nd to 5th



Solutions:

- Ask local companies for donations (for tools, cement, paint, etc.)**
- Mark bumps/unlevel sidewalks with reflective paint**
- Create and paint bike lanes and crosswalks (repaint existing)**

Solutions:

- Petition property owners to fix their part of the sidewalk (enforced by the city)**
- Contact Public Works Department Operations & Maintenance 5308944200 or email rightofwaymaintenance@chicoca.gov : to request grading, pothole repairs or other repairs**



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Resilient Cities Initiative

California State University, Chico