



Collaboration. Commitment. Confidence.SM

FEHR & PEERS

2025 Pavement Rehabilitation



By Scott Wikstrom – City Engineer
Rob Rees – Fehr and Peers, Traffic Engineering
Sara Dowling – NCE, Lead Civil Engineer



Engineering & Environmental Services

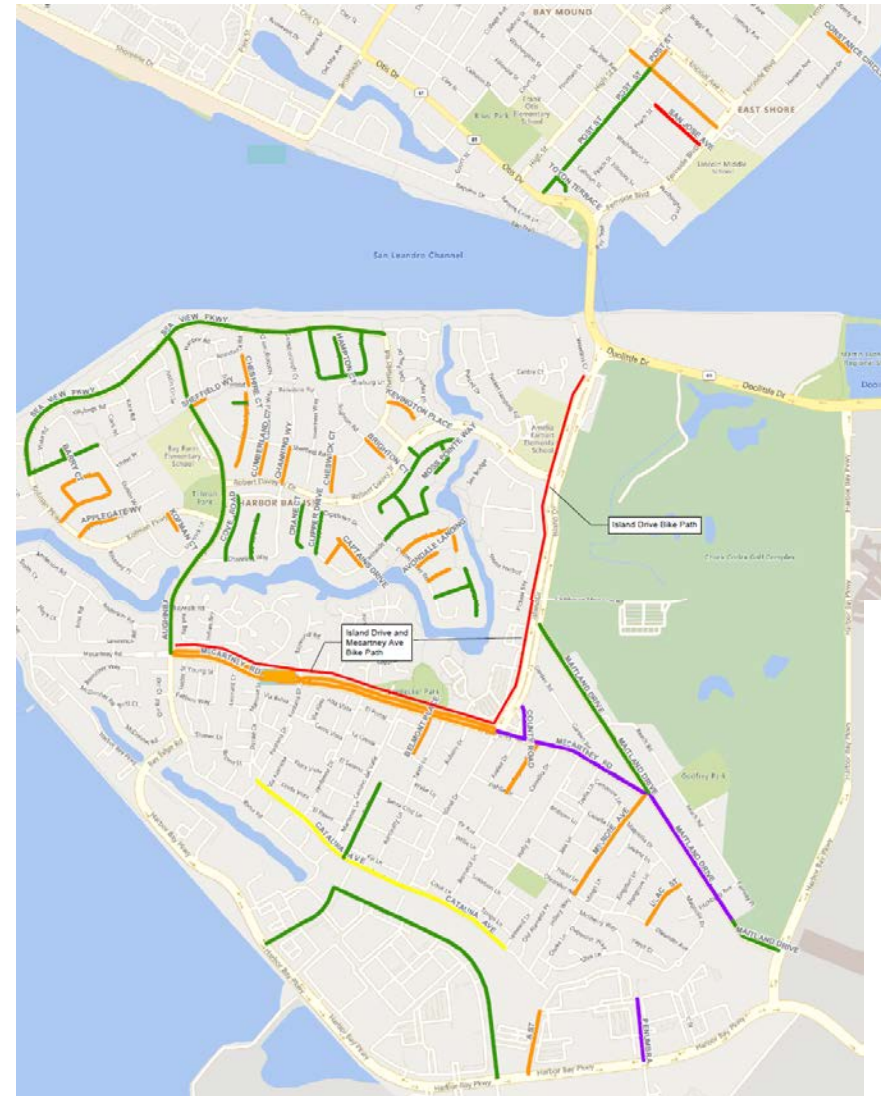


Agenda

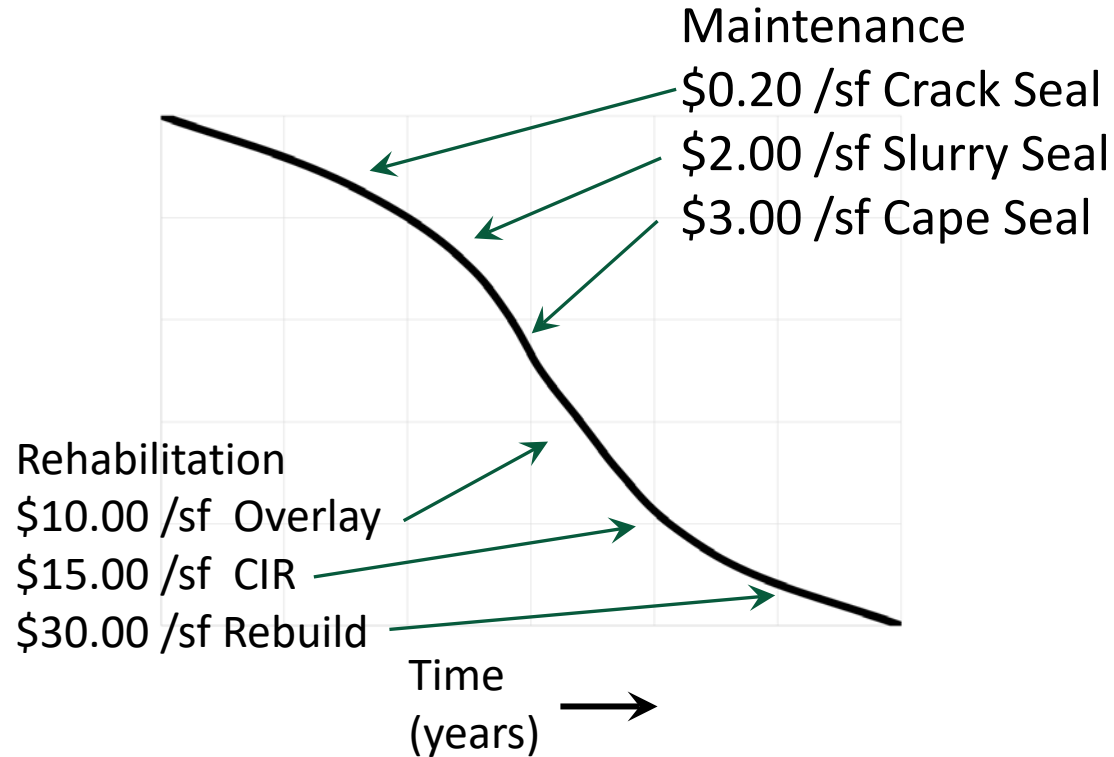
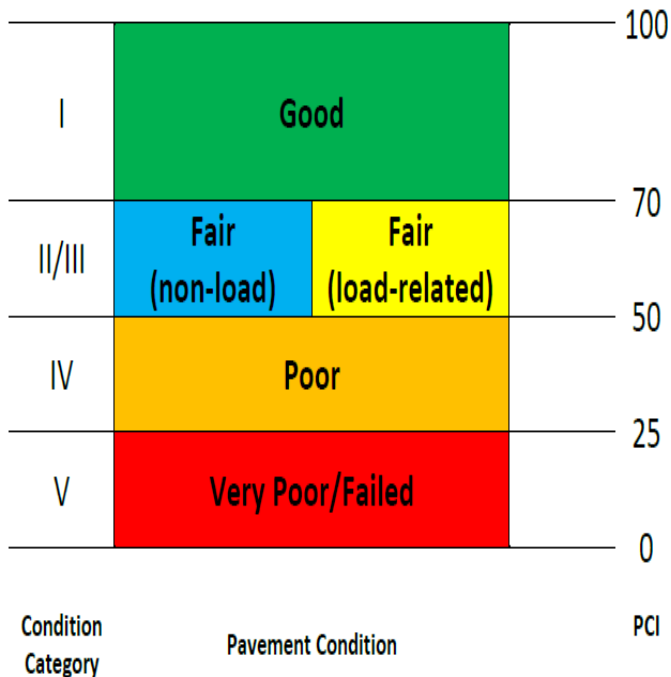
- Overview and Objectives – Scott Wikstrom
- Traffic Safety Improvements – Rob Rees
 - Aughinbaugh Bicycle Lane Improvements at Bay Farm School
 - Mecartnery Safety Improvements
 - Mecartney/Island Intersection Improvements
 - Mecartney /Maitland/Melrose Intersection Safety Improvements
- Roundabout Design Approach – Sara Dowling

Overview and Objectives

- Eastern 1/3 of Alameda - Bay Farm
- 12 Miles of Pavement Preservation
- Mostly Slurry Seals and Cape Seals
- Optimize Network Paving Condition
- Island Dr and Mecartney Pathway
- Project Budget \$4 - \$5 Million



Overview and Objectives



- **Right Treatment** on the **Right Street** at the **Right Time**

Traffic Safety Improvements

Rob Rees

San Francisco Bay

San Leandro Bay



San Francisco Bay

Three Corridors

Aughinbaugh Existing Conditions



- Bikes conflict with parked cars
- Less protection to bikes adjacent to travel lanes

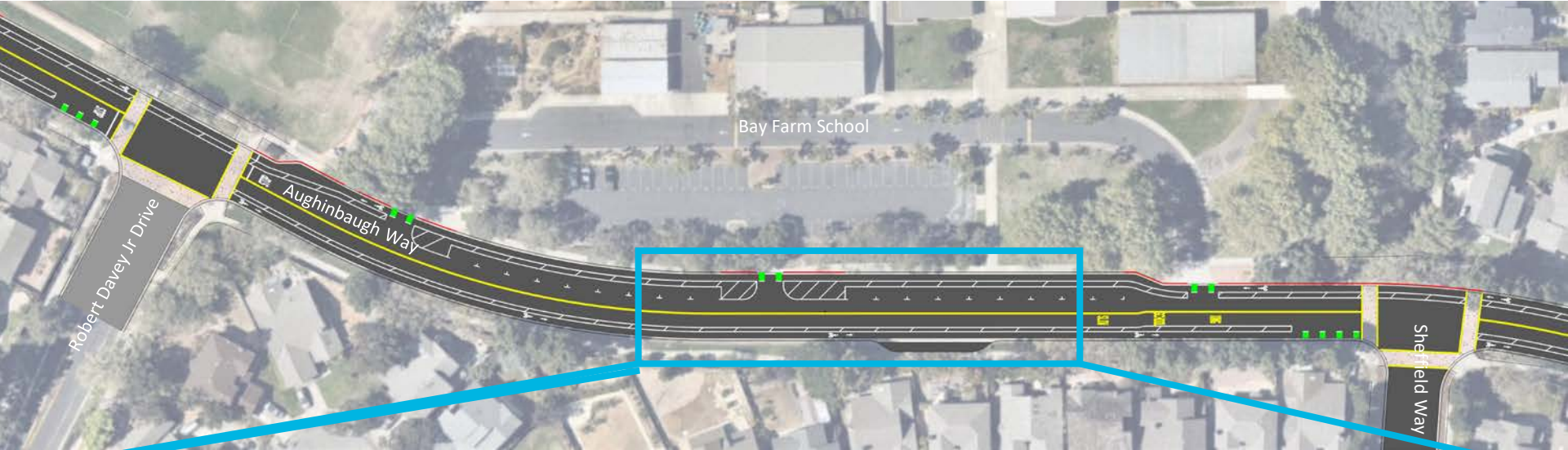
Aughinbaugh Bicycle Improvements

Aughinbaugh at Bay Farm School



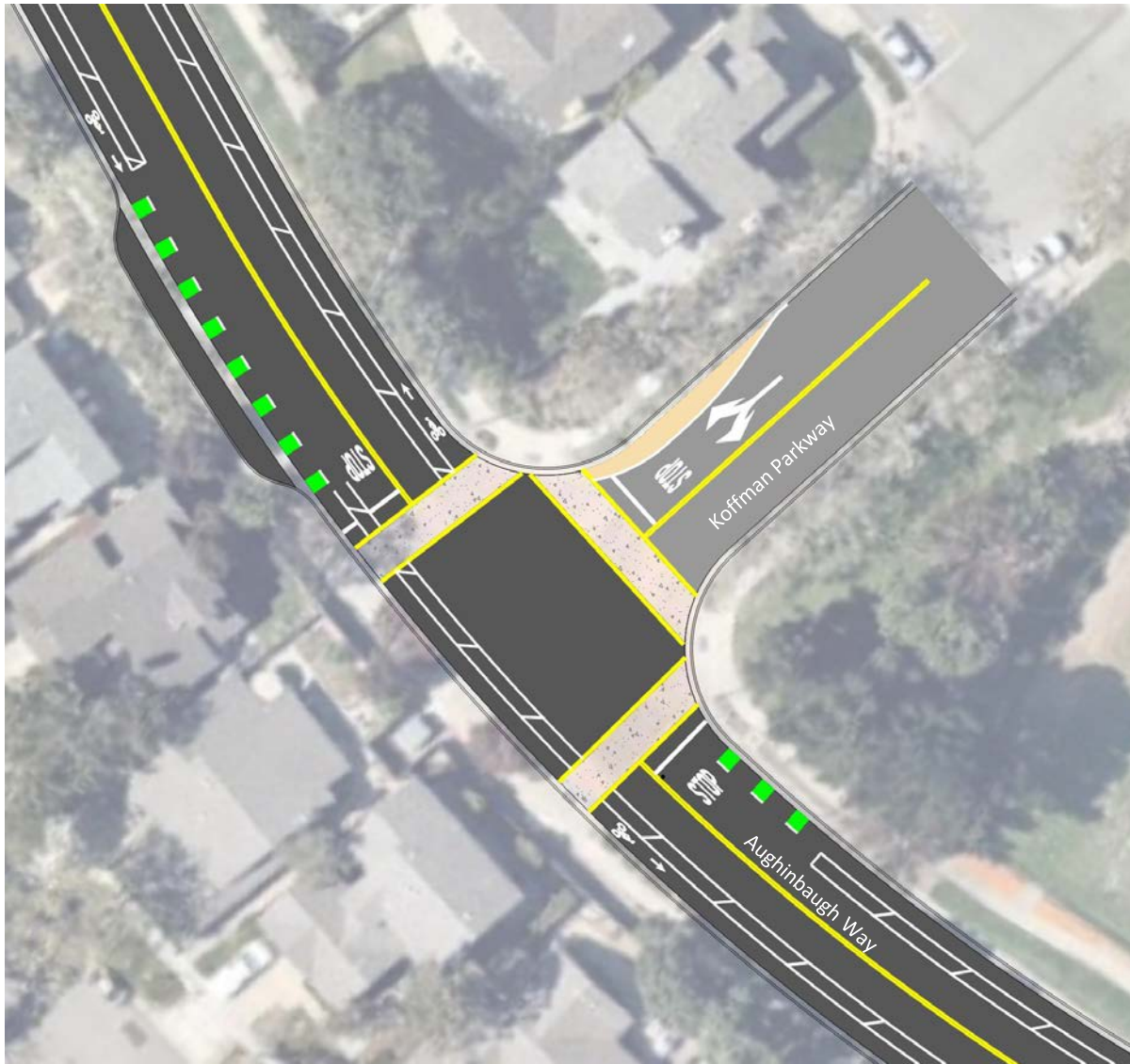
- Parking Protected Bike Lanes

Aughinbaugh Bicycle Improvements Bay Farm School





Aughinbaugh Bicycle Improvements at Koffman Parkway Intersection





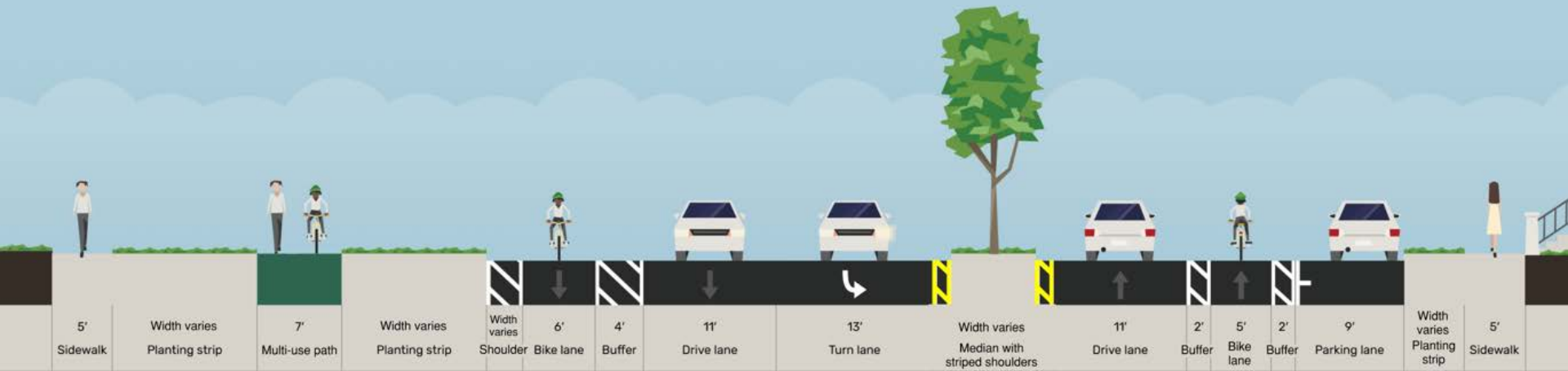
Mecartney Existing Conditions



- Traffic speeds
- Overcapacity with 4 lanes
- Multi-use Pathway on North side is rough with tree roots

Mecartney Safety Improvements

Mecartney Road near Belmont Place



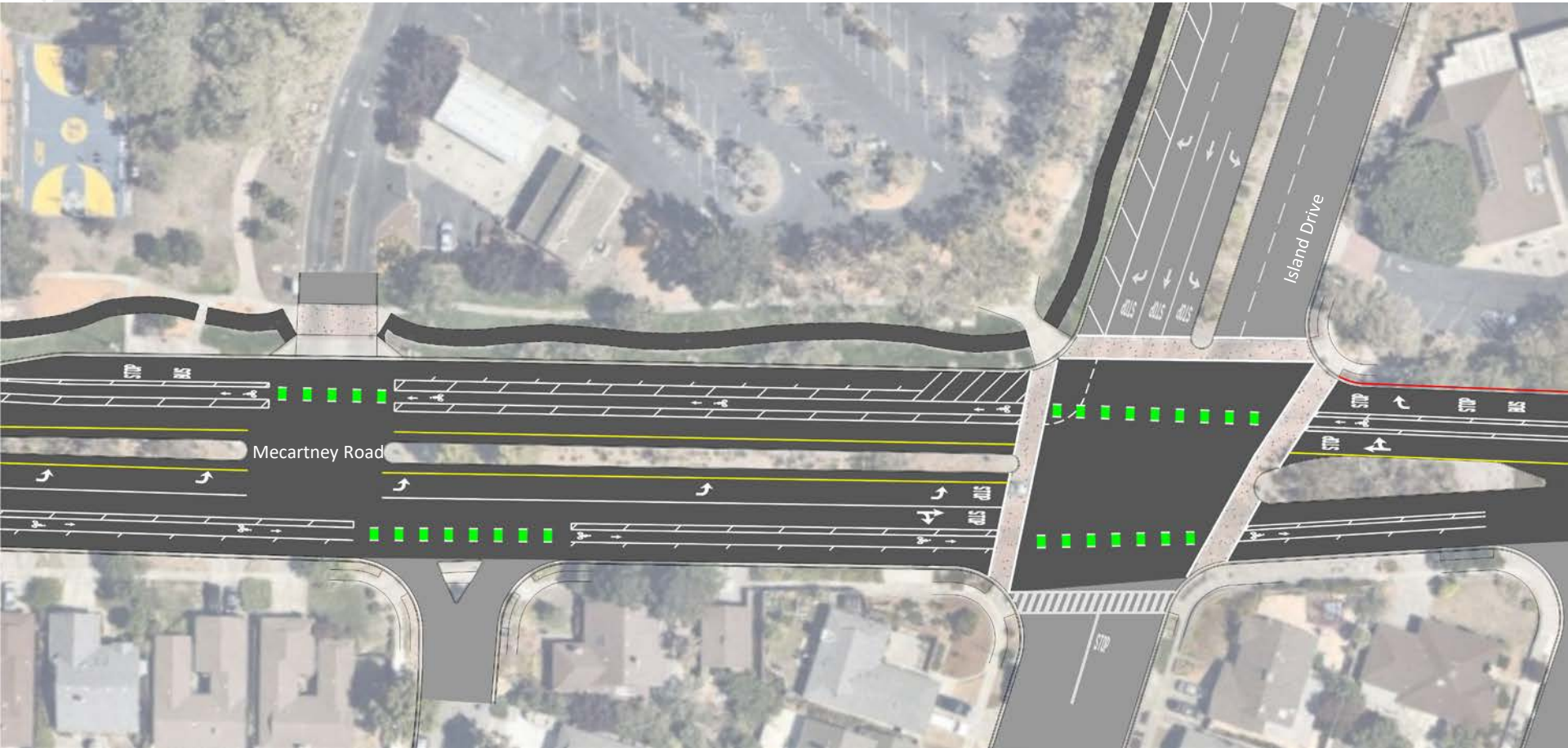
- Travel lane reduction from 4 to 2 (Island to Fontana)
- Turn lane modifications for bike and pedestrian safety
- Buffered bike lanes
- Resurfacing of multi-use pathway
- RRFBs
- Transit Stop Improvements

Mecartney/Island Existing Condition



- Confusing to motorists
- Bike conflicts

Mecartney/Island Intersection Improvements



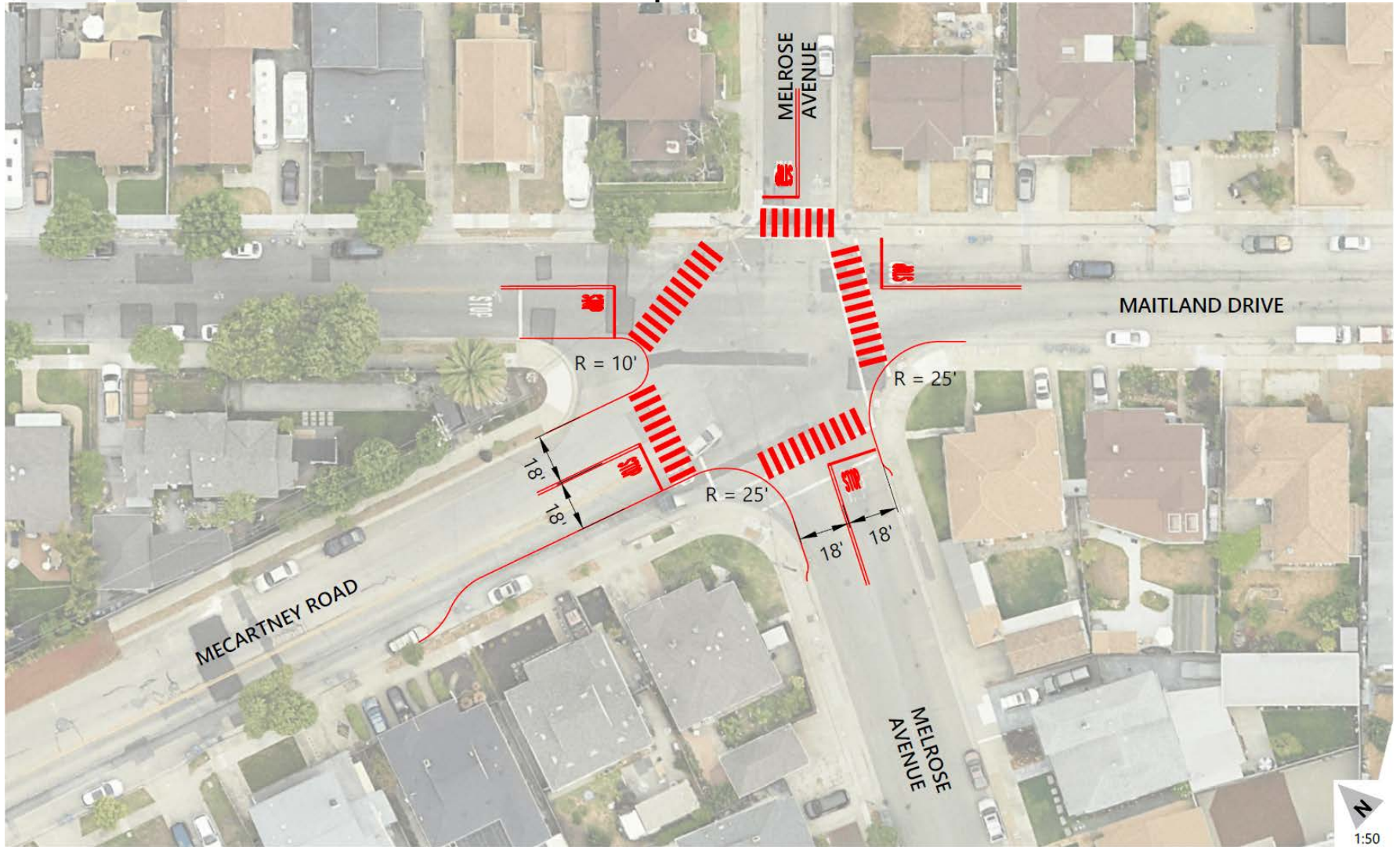
- Lane reduction
- Removal of southbound right turn lane
- Removal of eastbound through lane

Mecartney/Maitland/Melrose Existing Conditions



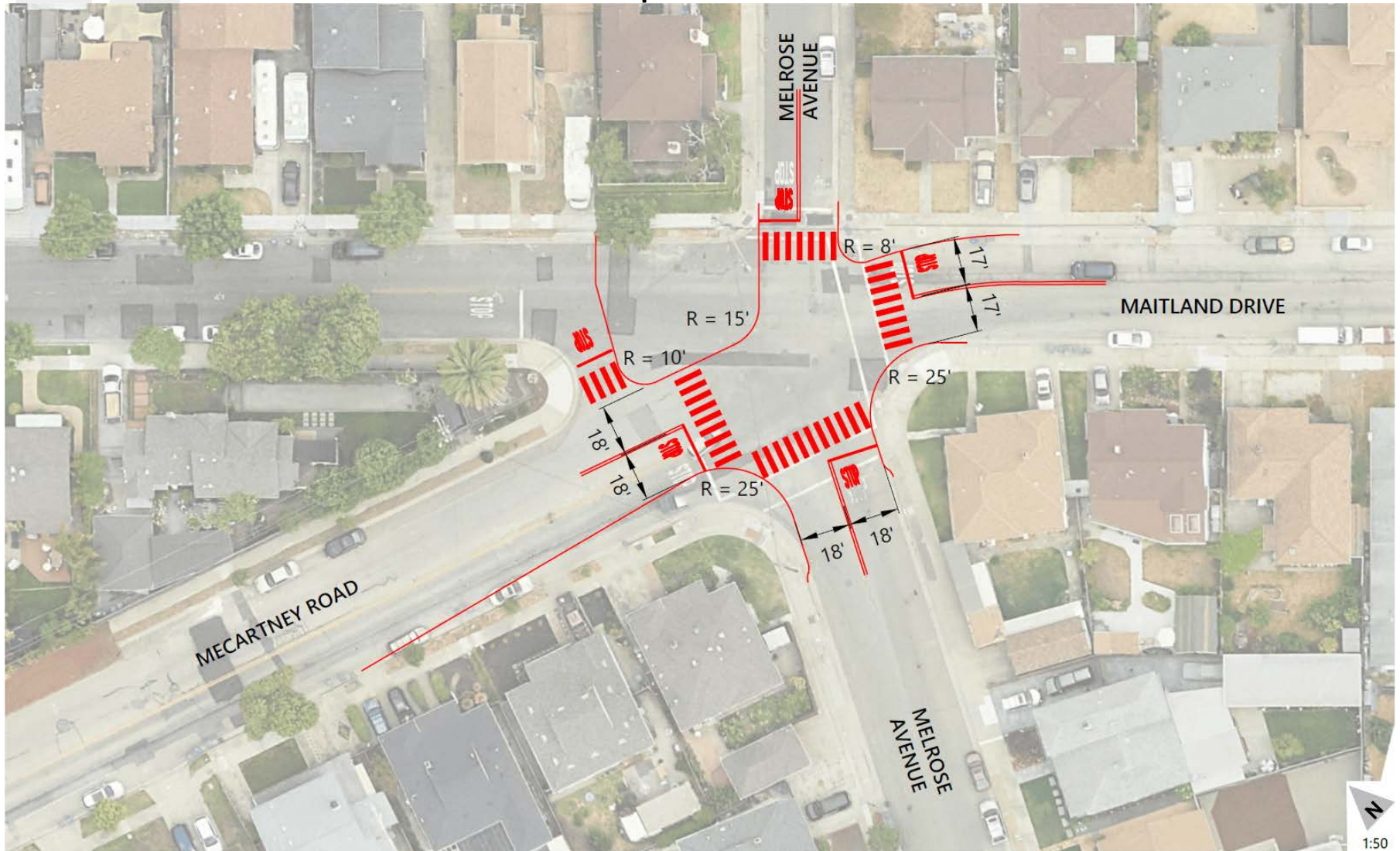
- Poor approach visibility
- Confusing 5- way intersection
- Long and inefficient pedestrian crossings

Mecartney/Maitland/Melrose Safety Improvement Option 1



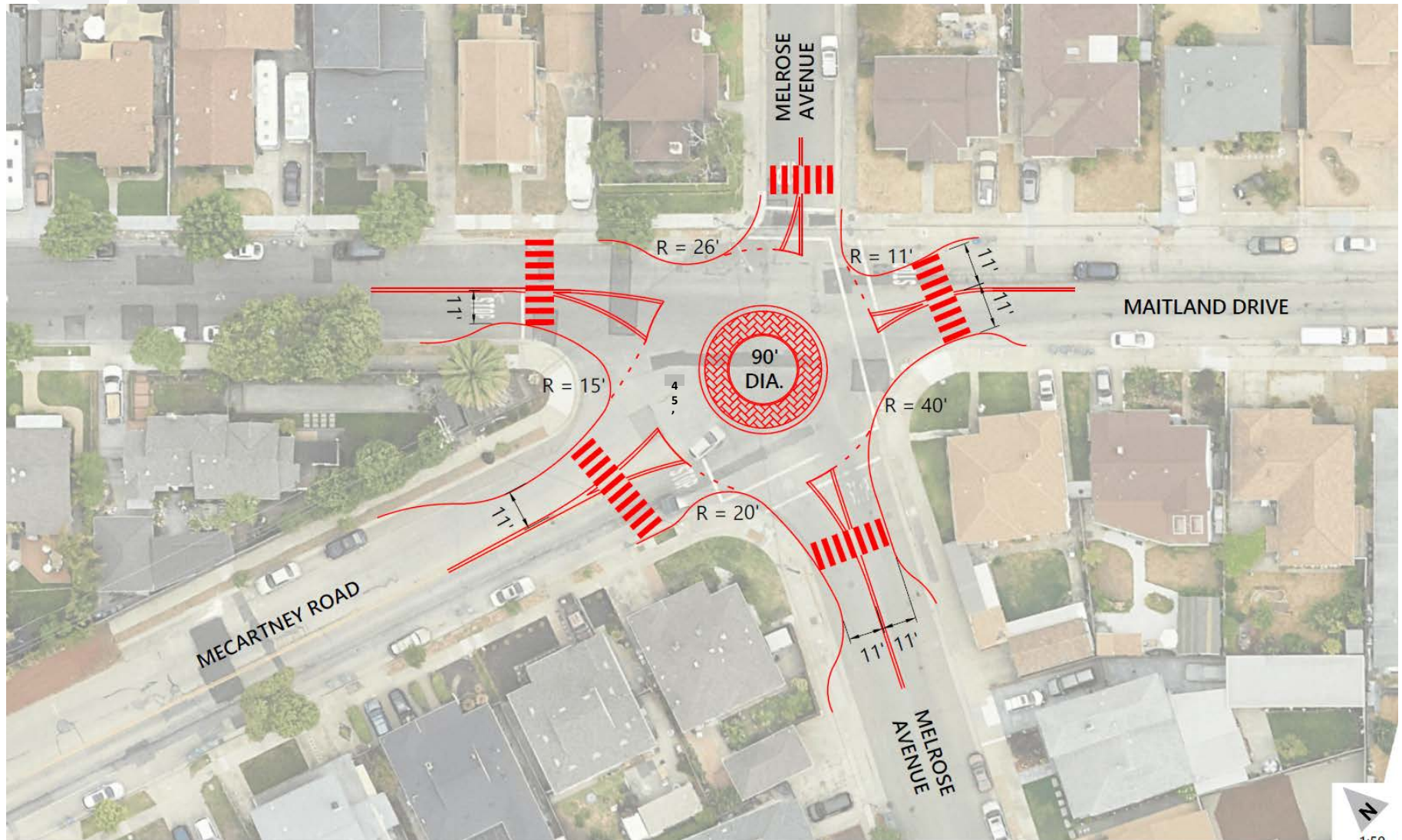
- Bulb-out of corners

Mecartney/Maitland/Melrose Safety Improvements Option 2



- Maitland right out only

Mecartney/Maitland/Melrose Safety Improvements Option 3

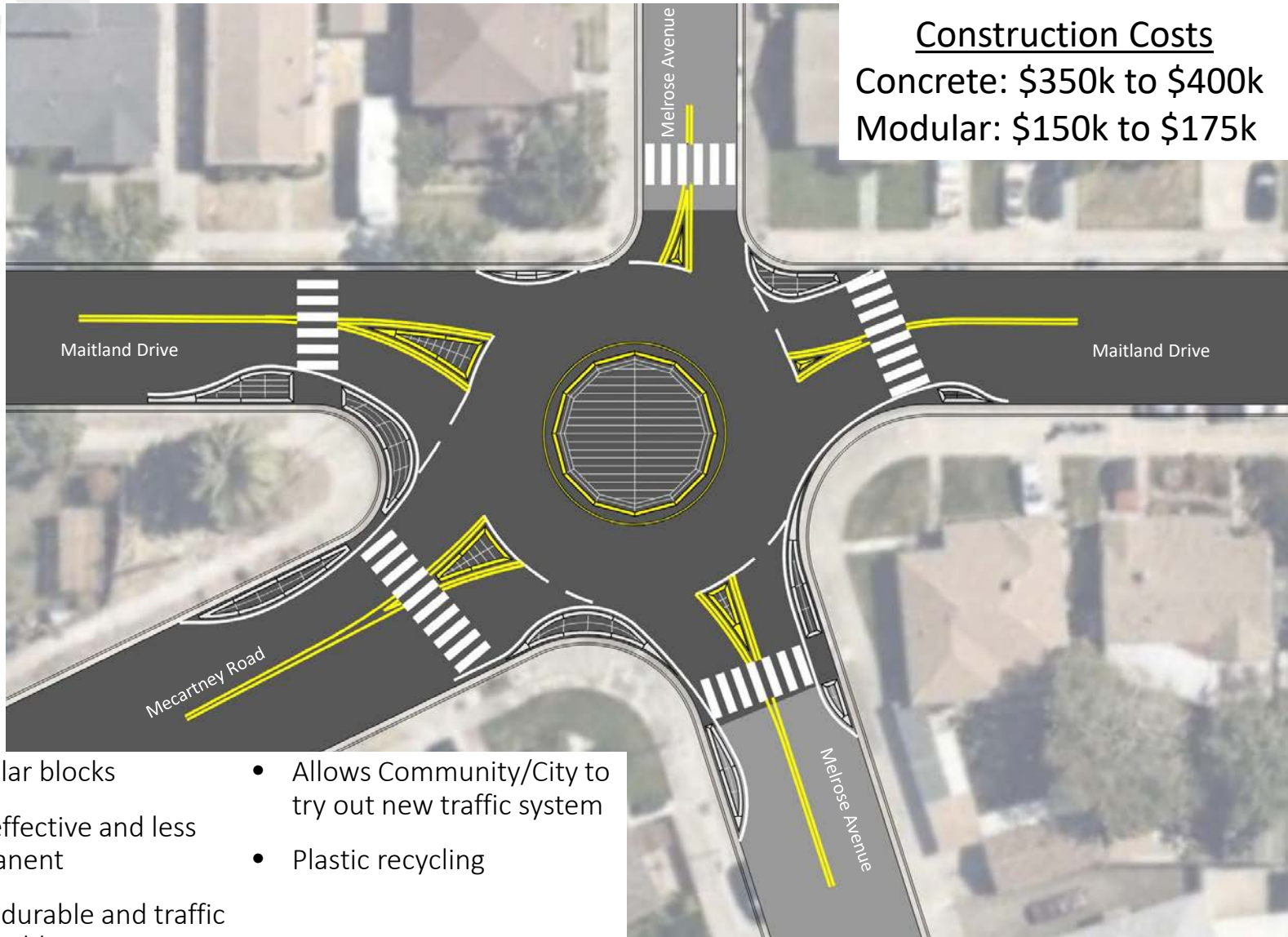


- Roundabout

Roundabout Design Approach

Sara Dowling

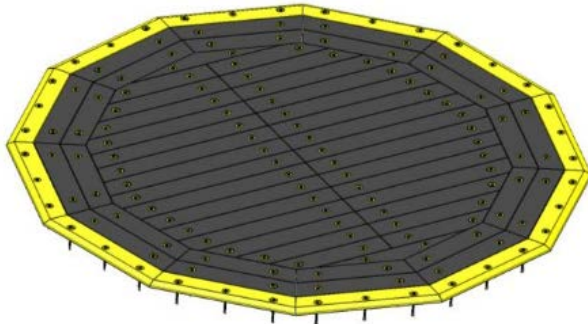
Roundabout Modular System



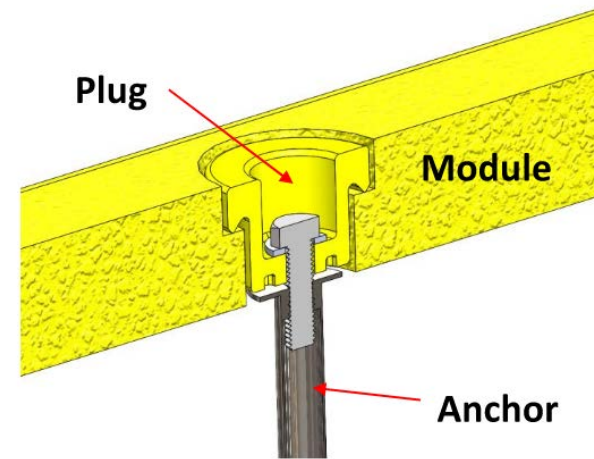
- Modular blocks
- Cost effective and less permanent
- More durable and traffic mountable
- Does not impact drainage requiring costly regrading
- Allows Community/City to try out new traffic system
- Plastic recycling



Roundabout Modular System



Center Island



Splitter Island

- Modular blocks are anchored on top of the roadway
- Modules are made from recycled plastic
- Quick to install (typically 1-12 days)

Presidio Trust Roundabout Example



- Lincoln Boulevard and Girard Road
- Modular system cost \$100k
- Installation cost \$35k