

Bicyclist and Pedestrian Advisory Commission (BPAC)

Infrastructure Committee Meeting Minutes

September 7, 2023, 3:30 - 5:30 PM

This meeting was held in-person at the Lake Merritt Conference Room, 250 Frank Ogawa Plaza, Suite 4314, Oakland, CA 94612. [Original agenda page available here](#). Additional attendees, not committee members nor staff, also participated but are not noted here

Attendees:

Dianne Yee (BPAC Commissioner, Committee co-chair)
Robert Prinz (Committee co-chair)
Patricia Schader (BPAC Commissioner, Committee member)

Jason Patton (Oakland DOT, Bikeway Striping item)
Jason Cook (Oakland DOT, Bikeway Striping item)
David Pené (Oakland DOT, Bikeway Striping item)
Ben Granberry (Oakland DOT, Downtown Paving Projects item)
Beaver Boonsook (Oakland DOT, Broadway MLK item)
Ruth Meza (Oakland DOT, Broadway MLK item)
Nicole Ferrara (Oakland DOT, Broadway MLK item)
Pierre Gerard (Oakland DOT)
Patrick Phelan (Oakland DOT)
Angie Chen (Oakland DOT)
Stephen Tu (Oakland DOT)

Acronyms:

- BPAC = Bicyclist and Pedestrian Advisory Commission, a city-appointed volunteer group that meets monthly to discuss and advise staff on bike/walk projects, policy, and funding
- DOT = Department of Transportation
- Alameda CTC = Alameda County Transportation Commission, a regional governmental agency focused on transportation planning and funding
- NBR = Neighborhood Bike Route, a traffic-calmed residential street with design features intended to serve bike riders of all ages and abilities

3:30-3:40 pm Introductions and Updates on Previous Agenda Items

3:40-4:10 pm Downtown Paving Projects Review, including E 8th St and Franklin St (Ben Granberry, OakDOT)

([presentation file here](#))

Presentation:

- Paving project focusing on Downtown area
- Project at 65% design phase, open to feedback
- Other streets are in the paving project but are small and without bikeway facilities
- Single block of Webster from 5th to 6th Streets - meets 2019 bike plan recommendation for painted bike lane
 - Basic painted bike lane to be implemented

- Future connection to Oakland-Alameda Access Project
- **11th Street, Clay to Broadway - buffered bike lane proposal will not meet 2019 bike plan recommendation, but potential upgrade to protected bikeway will**
 - Left side buffered bike lane proposed
 - Internal discussions on potential upgrade to cycletrack
 - Paint and posts are feasible w/in paving project scope
 - Connects to Clay St bikeway facility
- 7th St/8th St, Fallon to 5th Ave - meets 2019 bike plan recommendation for protected bikeway
 - Upgrading buffered bike lane to protected bikeway
 - Works with existing pedestrian islands at estuary crossing
 - FG300 bollards - Plastic curbs with flex posts
 - Westbound 7th at Fallon, removing one of three right turn car lanes
- **9th St, Webster to Harrison - does not meet 2019 bike plan recommendation for protected bikeway**
 - Single block - Conversion of a car lane, from three to two
 - Other blocks before/after this block have two car lanes
- Madison from 11th to 12th Streets, and Oak St (10th to 13th Street) - meets 2019 bike plan recommendation for buffered bike lane
 - Mostly replacing existing buffered bike lane striping
- **Franklin St, 6th to 20th - will not meet 2019 bike plan recommendation, but follow up cycletrack project will**
 - 6th to 11th St: No bikeway upgrades, just repaving & replacing existing conditions - Ongoing Chinatown Complete Streets project may inform other upgrades
 - 11th to 14th St - Replacing existing buffered bike lane striping - Other project to develop 2-way cycletrack on this segment, at 15% to 35% design status currently
 - 14th to 20th St - Upgrading standard to buffered bike lane striping - Other project to develop 2-way cycletrack on this segment
- 13th St, Franklin to Fallon St - meets 2019 bike plan recommendation for buffered bike lane
 - Currently no bikeway, will add buffered bike lane on right side and back in angled parking on left side

Discussion:

- Difference between cycletrack vs buffered bike lane?
 - Cycletrack has vertical elements separating bikeway from auto lanes
- What are stats on added safety from this type of work?
 - Hard to answer quantitatively, takes a while to get crash data
 - Trying to promote bike and pedestrian safety & access
 - Speeding info is critical, higher speeds = worse traffic safety outcomes
 - Behaviors have gotten worse during pandemic
 - Bike plan has long term crash data
 - East Bay has only had one traffic fatality of any mode associated with a protected bikeway, in Fremont, since the first was installed in 2008 (now at over 60 protected bikeways throughout the East Bay)
- Would be great to see protection on 13th St facility - Concerned that drivers will swerve to avoid someone exiting angled parking
- Timeline of project?
 - Construction late 2024
- 9th Street - Concerns about delivered and double parking - Need to reach out to businesses to avoid blockages
- Need better communications on new types of facilities
 - OakDOT needs to fill comms staff vacancies
- 13th St buffered bike lane can provide an alternative to 14th St protected bikeway if blocked at night - Opportunity to look into something similar in the other direction
- Opportunity for right turn slip lane closure from E 8th St to 5th Ave - Maybe cost sharing w Brooklyn Basin developer

- Will look into it
- FG300 flex posts were first used at Embarcadero / Oak St protected bikeway - Have held up well, concrete is better but this is a good option for quick builds

4:10-4:40 pm Citywide On-Call Bikeway Striping Project (David Pené, OakDOT)

([presentation file here](#))

([project plans here](#))

Presentation & discussion:

- Bike program team looking into small spot treatments to stitch bikeway network together and upgrade locations where
- 2024 construction timing - a few hundred thousand dollars budget
 - Larger than a city crew work order, but smaller than grant funded capital project
- Curbside buffered to protected bike lanes - Candidate list from previous committee discussion in 2019
- Adeline St, 35th to 36th St - Caltrans right of way
 - Caltrans encroachment permit ready to be submitted
 - Gap closure between West Oakland and Emeryville
- West St, 35th to 36th St - Caltrans right of way
 - Adding buffer to existing bikeway, also removing left turn lane
 - Caltrans is updating their own design standards to allow for less than 11 foot lanes, but will only apply to their own streets and not local streets that intersect w Caltrans facilities - Follow up with the California Bicycle Coalition if interested in learning more
 - Curbside parking was allowed here previously, then was removed - May or may not be added back
- Market St, 18th to 19th
 - Adding protection to existing buffer space
- Mandela northbound to Peralta
 - Tighten right turn radius to slow turning cars
- Broadway , W MacArthur and 38th St
 - Narrowing lanes to fit bike lane
 - Kaiser shuttles don't fit into the existing parking lane
 - Area is generally dangerous for bike riders - Hard to say whether the positives outweigh the negatives
 - Support for the city moving forward on a separate, bigger project here both south and northbound, not waiting for Kaiser redevelopment of the empty lot
- Broadway and 25th/Webster
 - Adding left turn bike box
- Washington St, Embarcadero to 2nd St - Adding buffered bike lane gap closure
- Washington St, 7th to 10th - Basic bike lane
 - Paving is really bad in this area - Not sure if it is worth to restripe without paving
- Oakland Ave - Bike lane gap closure at Piedmont border
- Harrison St at Grand, upgrading buffered bike lane to protected
- San Pablo Ave at 63rd St - Adding buffered bike lanes to jog along 63rd St
- MLK Jr Way from San Pablo Ave and W Grand - Adding buffered bike lanes both directions
 - May add in San Pablo Ave restoration removed by utility, if no follow up from utility
- Lakeshore and Prince - Median refuge island
- 96th Ave and Sunnyside, 38th Ave and Penniman - Mini concrete traffic circles
- MacArthur Blvd, 55th Ave and Richards Rd - Upgrading buffered bike lane to protected

4:40-5:20 pm, Broadway and MLK Streetscape Improvements (Beaver Boonsook and Ruth Meza, OakDOT)

([presentation file here](#))

([Broadway concept plan file here](#))

([Broadway project page here](#))

([MLK Jr Way project page here](#))

([MLK Jr Way concept plan file here](#))

Presentation & discussion:

- Engagement on these projects done prior to this summer is available on the city project web pages (linked above). Summer 2023 engagement reports will be uploaded to the project webpages next week
- Over 500 responses for Broadway survey, over 200 responses for MLK Jr Way survey
- Broadway design overview:
 - Extend right side bus only lanes 2nd St to 11th St - Also 20th St to W Grand
 - Sidewalk repairs & update traffic signals
 - Sidewalk corner bulb outs at all corners and median islands
 - Will 2nd St at Broadway have intersection controls?
 - This will be reviewed as part of a separate project for Embarcadero
 - Will bikes be allowed in bus lane?
 - To be further reviewed, will be working with AC Transit on design details
 - Is data available on time savings benefit for buses for Broadway south of 880 where there are fewer buses? Concerns about potential bus lane abuse by drivers & safety impacts if there isn't enough bus service provided
 - AC Transit will be providing data
 - Slip turn lane closure at 6th St and Broadway
 - 580 underpass LED lighting being replaced first, then this Broadway project will change geometry through underpass, then a future project to look into more place-making & landscaping - Preserving existing street trees is most important, no removals -
 - How does the 6th St cycletrack via the Oakland-Alameda Access Project connect to the 7th Street protected bikeway to W Oakland - Separate opportunity
 - Bus boarding islands require other buses to leave the bus lane to pass, so aren't being suggested in most situations
 - In Jack London Square area there are flooding issues along curb, so look into bus islands in some of those situations to make things easier for people getting on/off the bus
 - Is this project fully funded?
 - Yes, but there is a pending grant application to potentially do more
 - Grant deadline is coming up soon and is not extendable
 - More development on the way in Jack London Square area, will those sites build some infrastructure
 - Yes, but not for this project since those developments are coming later
- MLK Jr Way design overview:
 - Consultant has presented two options
 - Two-way cycletrack on east side of MLK, either street level or raised at sidewalk level
 - Added pedestrian scale lighting will be added
 - Project comments to mpd@Oaklandca.gov by end of Thursday September 21
 - Comment: Why should project happen? Almost no bike/pedestrian traffic, but there is a lot of port traffic - Castro St seems like a better option - 5th St needs more traffic calming - Traffic signals need retiming - Semi trucks can't turn from 10th St to MLK in one lane
 - Comment: Like raised cycletrack concept, but not sure why MLK was selected - A number of city parks are on this corridor - People wanted better walking environment

- Comment: Raised cycletracks are good if less pedestrian activity, otherwise street level may be better - Think about how to support bike bike turning movements at intersections - Also center line hardening on cycletrack at intersections & driveways to avoid cars in the bikeway - MLK is one of the only connectors between San Pablo Ave through Downtown to 2nd St, besides Broadway which doesn't have a bikeway
 - Project design by Spring 2024, construction in 2025-2026
- Please submit any additional comment/questions to mpd@oaklandca.gov until the end of day on Thursday, 09/21/23, and reference Broadway or MLK in the subject line as applicable.

5:20-5:30 pm, Future Agenda Item Suggestions

- Safe Routes to BART project applications
- Grand Avenue paving project
- 4th Street paving



Citywide Active Transportation Project, 2023

Department of Transportation
Safe Streets Division
Bicycle & Pedestrian Program

Categories of Work

- Spot improvement suggestions
- Curbside buffered bike lane upgrades
- City Council budget earmarks (FY21-23)
- Gap closures
- Caltrans encroachment cleanup

Curbside Bike Lane Upgrade Experience

Previous BPAC IC Discussions:

June 6, 2019 – Concept/candidates discussed

October 1, 2020 – Update on pilot location (Embarcadero)

Existing Examples:



Oakland Ave (5/2023)



Keith Ave (6/2023)



Embarcadero (4/2021)

Plan page-through/Working Location List

- [Adeline St \(35th St to 36th St\)](#) completing the PG&E-installed road diet and buffered bike lanes
- [West St \(35th St to 36th St\)](#) redesign
- [Market St \(18th St to 19th St\)](#) - ([2021 Condition](#)) protection for curbside bike lane
- [Mandela Pkwy northbound at Peralta St](#): green conflict zone and vertical element
- [Broadway \(38th St to MOB garage entrance\)](#) southbound bike lane
- [Broadway at 25th St](#) turn box
- Washington St: bike lanes from [Embarcadero to 2nd St](#) and from [7th St to 10th St](#)
- [Oakland Ave \(Monte Vista Ave to Piedmont city limit\)](#): closing bike lane gap
- [Harrison St slip turn approaching Grand Ave](#): adding delineators/plastic curb to bike lane buffer
- [San Pablo Ave \(63rd St to 63rd St\)](#) buffered bike lanes
- [Martin Luther King Jr Wy \(San Pablo Ave to W Grand Ave\)](#) buffered bike lanes
- City Council Earmarks:
 - [Lakeshore/Prince St](#) pedestrian safety island
 - [96th Ave/Sunnyside St](#) traffic circle
 - [38th Ave/Penniman Ave](#) traffic circle
- (in progress) MacArthur Blvd (55th Ave to Richards Rd): bike lane buffer hardening through [55th Ave curve](#) ([Curve 2](#)) and on the [approach to Richards Rd](#)

Candidates for Adding Scope (as feasible)

- Candidates for upgrading curbside buffered bike lanes to separated bike lanes:
 - [17th St – San Pablo Ave to Telegraph Ave](#)
 - [Market St – 3rd St to 7th St](#)
 - [3rd St/Mandela Pkwy – 5th St to Union St](#)
 - [MacArthur Blvd – High St to Calaveras Ave](#)
 - [73rd Ave – MacArthur Blvd to Halliday Ave](#)
 - [Broadway – 150 ft south of Pleasant Valley Rd to College Ave](#)
 - [20th St – Harrison St to Broadway](#)
- Crosswalk upgrades at school crossing guard posts
- Utility trenching locations where OakDOT no longer has recourse to require striping restoration
- Maritime St Path: [restriping of worn crosswalks](#)
- [Speed humps on NBRs without planned paving](#) (including streets previously paved)
- [Path improvements connecting 34th Ave through Peralta Hacienda](#)



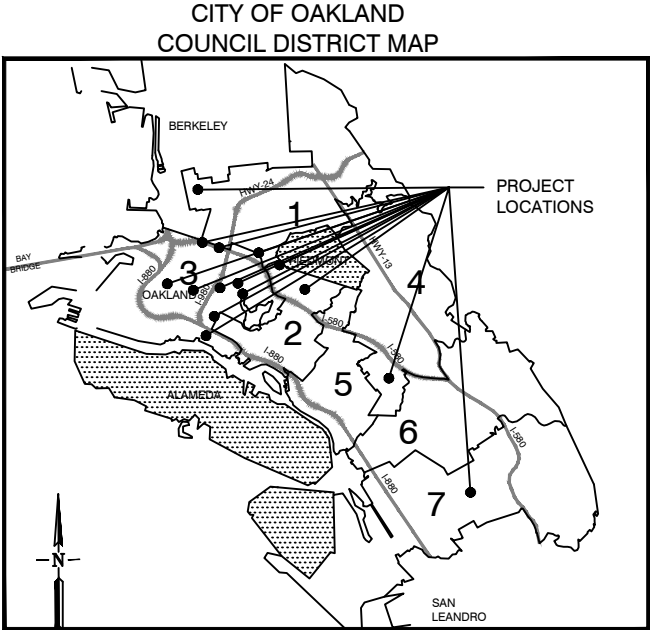
City of Oakland, Department of Transportation
Safe Streets Division, Bicycle & Pedestrian Program

Jason Patton, Senior Transportation Planner
Jason Cook, P.E., Transportation Engineer
David Pené, P.E., Assistant Engineer II

PLANS FOR CITYWIDE BICYCLIST AND PEDESTRIAN SPOT IMPROVEMENT PROJECT

INDEX OF DRAWINGS

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4	SS-3	SIGNAGE AND STRIPING PLAN - WEST ST FROM 35TH ST TO 36TH ST
5	SS-4	SIGNAGE AND STRIPING PLAN - MARKET ST FROM 18TH ST TO 19TH ST
6	SS-5	SIGNAGE AND STRIPING PLAN - NB MANDELA PKWY FROM W GRAND AVE TO PERALTA ST
7	SS-6	SIGNAGE AND STRIPING PLAN - BROADWAY FROM W MACARTHUR TO 38TH ST
8	SS-7	SIGNAGE AND STRIPING PLAN - BROADWAY AND 25TH ST
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11	SS-10	SIGNAGE AND STRIPING PLAN - OAKLAND AVE FROM MONTE VISTA AVE TO OLIVE AVE
12	SS-11	SIGNAGE AND STRIPING PLAN - HARRISON AND GRAND AVE
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15	C-1	DEMOLITION AND CONSTRUCTION PLAN - LAKESHORE AND PRINCE PEDESTRIAN REFUGE
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19	D-1	TRAFFIC CIRCLE DETAILS
20	D-2	TRAFFIC CIRCLE LANDSCAPING PLAN



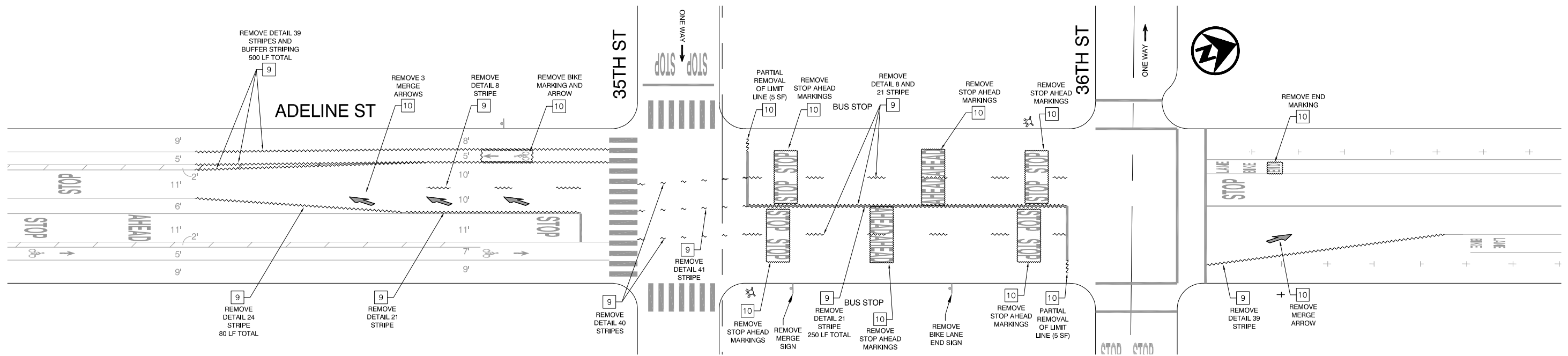
CITY OF OAKLAND
DEPARTMENT OF TRANSPORTATION
250 FRANK H. OGAWA PLAZA, SUITE 4344 * OAKLAND CA, 94612
(510) 238-3466 * FAX (510) 238-7415

**CITYWIDE BICYCLIST AND
PEDESTRIAN SPOT
IMPROVEMENT PROJECT**
TITLE SHEET

REVIEWED BY	No.	DATE	BY	REFERENCE
JASON PATTON				
DESIGNED BY				
JJC				
DRAWN BY				
JJC				

TITLE SHEET
T-1

PROJECT NO. TBD	
SCALE: 1" = 40'	SHEET NO.
DATE: 09/05/2023	1 OF 20



LEGEND

#

STRIPING CONSTRUCTION NOTE NUMBER

#

DETAIL NUMBER PER CALTRANS STD PLANS
Traffic lines as cardinal number
Arrows as roman numeral

TS

TRAFFIC SIGNAL

W

CROSSWALK/LIMIT LINE (SOLID ONE FOOT WHITE LINE)

Y

CROSSWALK LINE (SOLID ONE FOOT YELLOW LINE)

FIRE HYDRANT

BLUE FIRE HYDRANT MARKER

ETR EXISTING TO REMAIN (RENDERED IN GREY)

LF LINEAR FEET

SF SQUARE FEET

CR CURB RETURN

FC FACE OF CURB

CONSTRUCTION NOTES

1

BIKE LANE SYMBOL & ARROW
Install first bike lane symbol and bike lane arrow markings 20 feet after curb return. Install other bike lane symbols as noted. Space symbol and arrow 6 feet apart. See Detail.

2

SHARROW
Install first sharrow marking 20 feet after curb return or as noted. Install other sharrow markings as noted. See Detail.

3

PARKING TEE
Install short stem toward curb, distance measured from center of cross. Spacing between tees to be determined by engineer. See Detail.

4

BIKE DETECTOR SYMBOL
Install bike detector pavement marking 1 foot back from limit line and centered in lane, or as noted. See Detail.

5

WORD PAVEMENT MARKINGS
Install pavement marking words as noted. See Caltrans Standard Plans.

6

CONTINENTAL CROSSWALK
Install 2 foot stripes aligned with roadway centerline, white unless noted otherwise. See Detail.

7

WHITE BUFFER STRIPING
Install 6 inch white striping every 15 feet at 45 degree angle, or as noted.

8

YELLOW BUFFER STRIPING
Install 6 inch yellow striping every 8 feet at 45 degree angle, or as noted.

9

REMOVE CONFLICTING STRIPING

10

REMOVE CONFLICTING MARKINGS

11

BIKE BOX OR 2-STAGE LEFT TURN BOX
Install bike box or 2-stage left turn box as noted on plan. See details.

12

BIKE INTERSECTION MARKINGS
Install bike intersection markings as noted. See detail.

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BICYCLE & PEDESTRIAN PROGRAM
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ADELINE ST
19TH ST TO 35TH ST

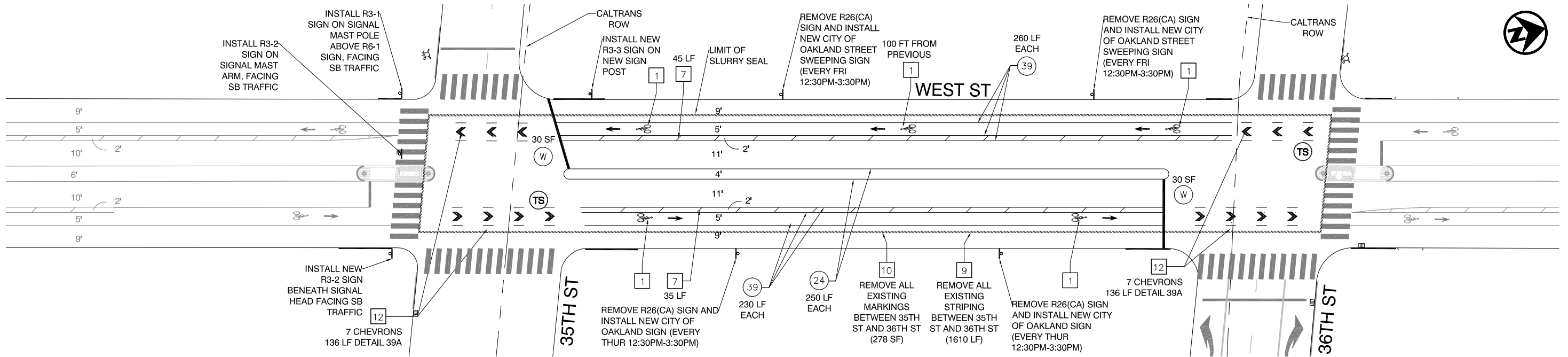
REVIEWED BY	No.	DATE	BY	REFERENCE
JASON PATTON				
DESIGNED BY	DEP			
DRAWN BY	DEP			

STRIPING PLAN
SS-2

PROJECT NO. TBD	
SCALE: 1"=40'	SHEET NO.
DATE: 09/05/2023	3 OF 20

DRAWING NAME: C:\Users\choy96\Documents\2023 Citywide Bikeways\Draw 5\AdelineSt_35thSt-36thSt_demo\plan.dwg
PLOT DATE: 09-05-23
PLOTTED BY: choy96

PROJECT TITLE



LEGEND

#	STRIPING CONSTRUCTION NOTE NUMBER		FIRE HYDRANT		EX. SIGN AND POLE
#	DETAIL NUMBER PER CALTRANS STD PLANS Traffic lines as cardinal number Arrows as roman numeral		BLUE FIRE HYDRANT MARKER		NEW SIGN EX. POLE
TS	TRAFFIC SIGNAL	ETR	EXISTING TO REMAIN		NEW SIGN AND POLE
W	CROSSWALK/LIMIT LINE (SOLID ONE FOOT WHITE LINE)	LF	LINEAR FEET		DOUBLE SIDED SIGN
Y	CROSSWALK/LIMIT LINE (SOLID ONE FOOT YELLOW LINE)	SF	SQUARE FEET		OBJECT MARKER/ DELINEATOR
#	SIGN NUMBER PER SIGN SCHEDULE See Sheet DD-02	CR	CURB RETURN		
		FC	FACE OF CURB		
		EX	EXISTING		

CONSTRUCTION NOTES

- 1 BIKE LANE SYMBOL & ARROW
Install first bike lane symbol and bike lane arrow markings 20 feet after curb return. Install other bike lane symbols as noted. Space symbol and arrow 6 feet apart. See Detail.

2 SHARROW
Install first sharrow marking 20 feet after curb return or as noted. Install other sharrow markings as noted. See Detail.

3 PARKING TEE
Install short stem toward curb, distance measured from center of cross. Spacing between tees to be determined by engineer. See Detail.
- 4 BIKE DETECTOR SYMBOL
Install bike detector pavement marking 1 foot back from limit line and centered in lane, or as noted. See Detail.

5 SPEED HUMP STRIPING
Install 2 chevrons in each direction made of 1 foot white stripes with 1 foot spacing. See Detail.

6 CONTINENTAL CROSSWALK
Install 2 foot stripes aligned with roadway centerline, white unless noted otherwise. See Detail.

7 WHITE BUFFER STRIPING
Install 6 inch white striping every 15 feet at 45 degree angle, or as noted.
- 8 YELLOW BUFFER STRIPING
Install 6 inch yellow striping every 8 feet at 45 degree angle, or as noted.

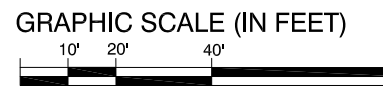
9 REMOVE CONFLICTING STRIPING

10 REMOVE CONFLICTING MARKINGS

11 PAINT CURB COLOR AS NOTED
White and yellow paint used for island and median noses shall be retroreflective thermoplastic paint. See specs.

12 BIKE INTERSECTION MARKINGS
Install bike intersection markings as noted. See detail.

DRAFT PLANS
NOT FOR BID OR CONSTRUCTION



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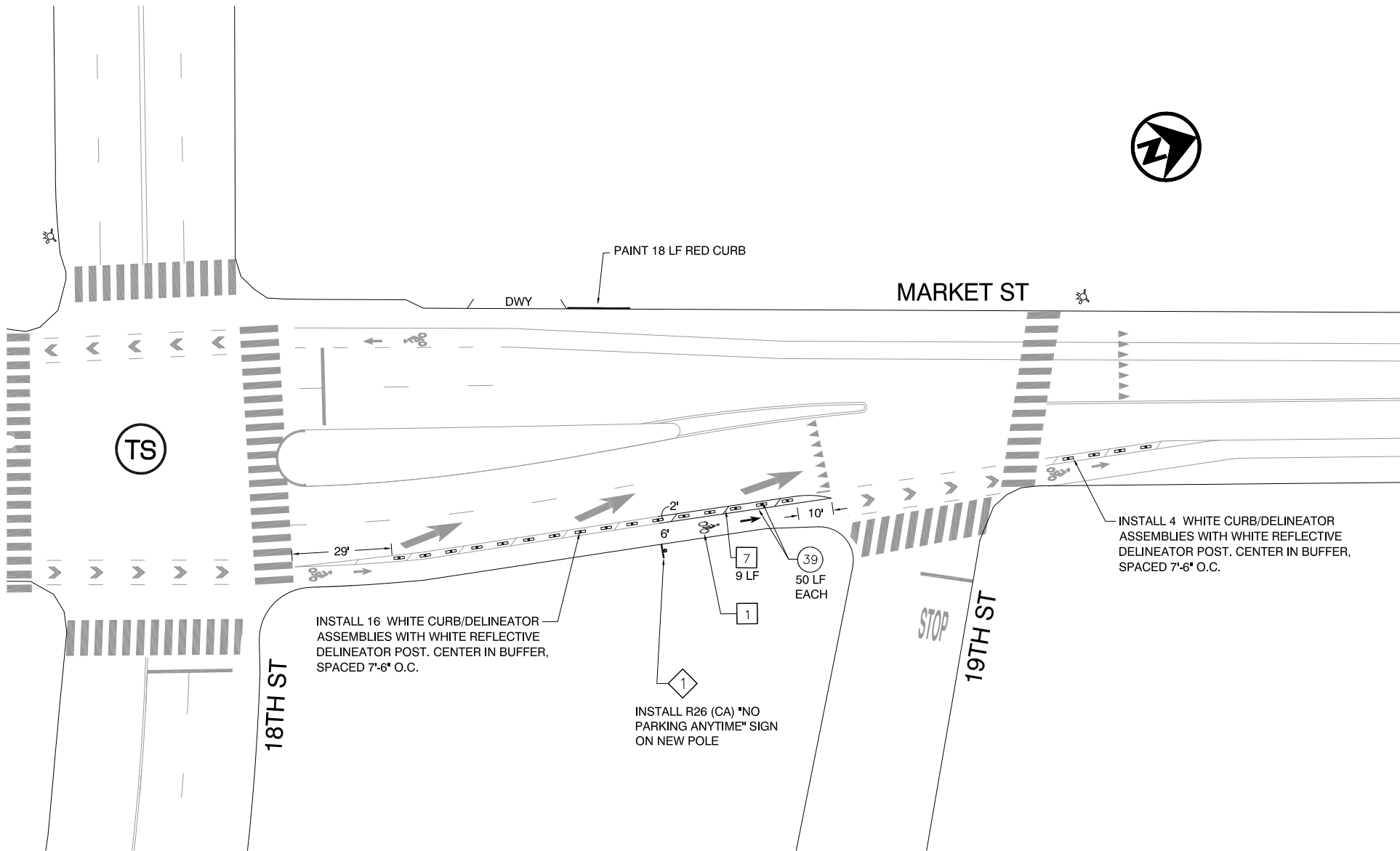
WEST ST
35TH ST TO 36TH ST

REVIEWED BY	No.	DATE	BY	REFERENCE
JASON PATTON				
DESIGNED BY				
DP				
DRAWN BY				
BC				

STRIPING PLAN
SS-3

PROJECT NO.
TBD

SCALE: 1"=40'
DATE: 09/05/2023
SHEET NO.
4 OF **20**



LEGEND

- #

STRIPING CONSTRUCTION NOTE NUMBER
- #

DETAIL NUMBER PER CALTRANS STD PLANS
Traffic lines as cardinal number
Arrows as roman numeral
- TS

TRAFFIC SIGNAL
- W

CROSSWALK/LIMIT LINE (SOLID ONE FOOT WHITE LINE)
- Y

CROSSWALK/LIMIT LINE (SOLID ONE FOOT YELLOW LINE)
- FIRE HYDRANT
- BLUE FIRE HYDRANT MARKER
- ETR

EXISTING TO REMAIN
- LF

LINEAR FEET
- SF

SQUARE FEET
- CR

CURB RETURN
- FC

FACE OF CURB

CONSTRUCTION NOTES

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GRAPHIC SCALE (IN FEET)



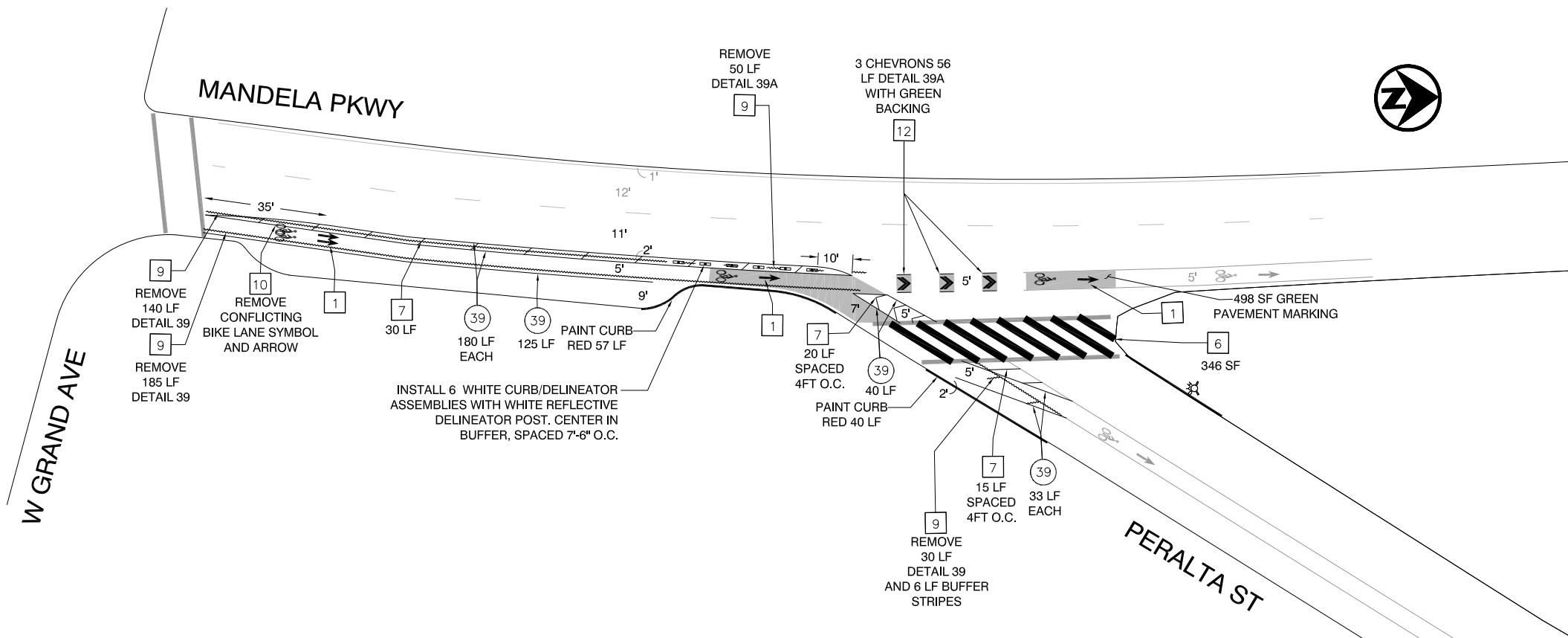
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(510) 238-3466 * FAX (510) 238-7415

MARKET ST
18TH ST TO 19TH ST

REVIEWED BY	No.	DATE	BY	REFERENCE
JASON PATTON				
DESIGNED BY	DEP			
DRAWN BY	DEP			

STRIPING PLAN
SS-4

PROJECT NO. TBD	
SCALE: 1" = 40'	SHEET NO. 5 OF 20
DATE: 09/05/2023	



LEGEND

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REMOVE CONFLICTING STRIPING

10

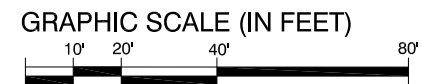
REMOVE CONFLICTING MARKINGS

11

BIKE BOX OR 2-STAGE LEFT TURN BOX
Install bike box or 2-stage left turn box as noted on plan. See details.

12

BIKE INTERSECTION MARKINGS
Install bike intersection markings as noted. See detail.



CITY OF OAKLAND
DEPARTMENT OF TRANSPORTATION | SAFE STREETS DIVISION
BICYCLE & PEDESTRIAN PROGRAM
250 FRANK H. OGAWA PLAZA, SUITE 4314 * OAKLAND CA, 94612
(510) 238-3466 * FAX (510) 238-7415

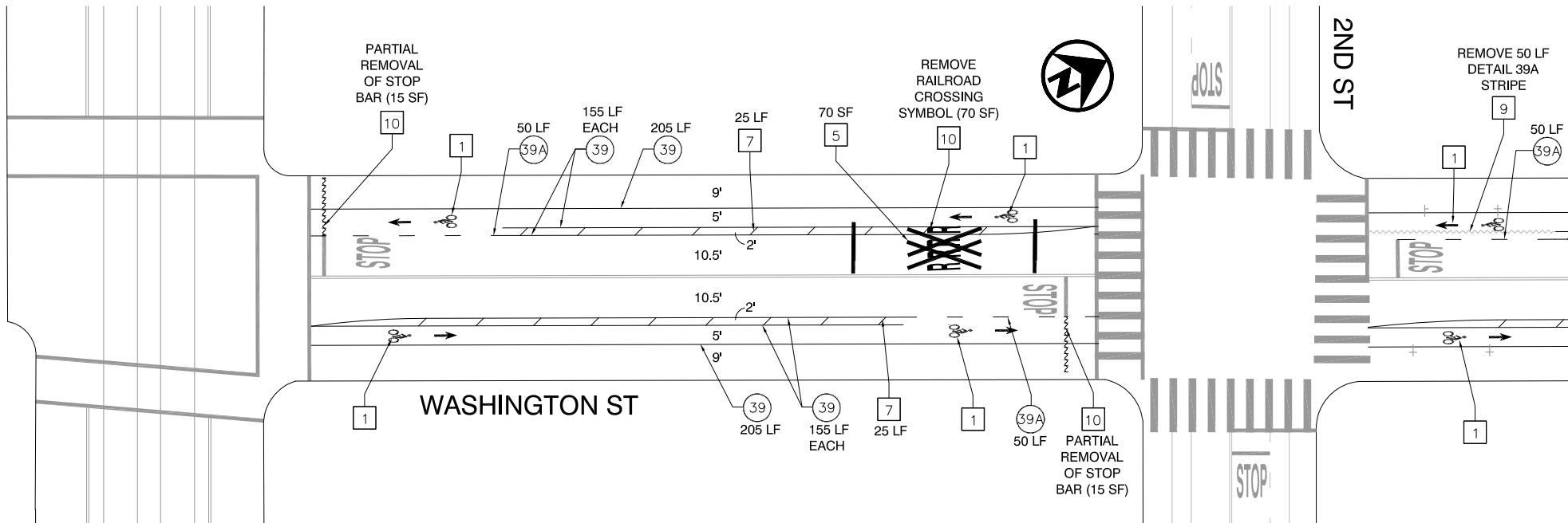
MANDELA PKWY
W GRAND AVE TO PERALTA ST

REVIEWED BY	No.	DATE	BY	REFERENCE
JASON PATTON				
DESIGNED BY	DEP			
DRAWN BY	DEP			

STRIPING PLAN
SS-5

PROJECT NO.	
TBD	
SCALE: 1" = 40'	SHEET NO.
DATE: 09/05/2023	6 OF 20

DRAWING NAME: C:\Users\choy96\Documents\2023 Citywide Bikeways\Draft 5\NE-MandelaPkwy_PeraltaSt.dwg
PLOT DATE: 09-05-23
PLOTTED BY: choy96

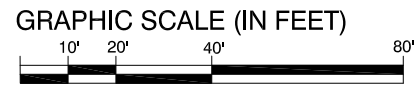


LEGEND

- | | | | |
|----|---|-----|--------------------------|
| # | STRIPING CONSTRUCTION NOTE NUMBER | | FIRE HYDRANT |
| # | DETAIL NUMBER PER CALTRANS STD PLANS
Traffic lines as cardinal number
Arrows as roman numeral | | BLUE FIRE HYDRANT MARKER |
| TS | TRAFFIC SIGNAL | ETR | EXISTING TO REMAIN |
| W | CROSSWALK/LIMIT LINE (SOLID ONE FOOT WHITE LINE) | LF | LINEAR FEET |
| Y | CROSSWALK/LIMIT LINE (SOLID ONE FOOT YELLOW LINE) | SF | SQUARE FEET |
| | | CR | CURB RETURN |
| | | FC | FACE OF CURB |

CONSTRUCTION NOTES

- | | | | |
|---|---|----|---|
| 1 | BIKE LANE SYMBOL & ARROW
Install first bike lane symbol and bike lane arrow markings 20 feet after curb return. Install other bike lane symbols as noted
Space symbol and arrow 6 feet apart. See Detail. | 8 | YELLOW BUFFER STRIPING
Install 6 inch yellow striping every 8 feet at 45 degree angle, or as noted. |
| 2 | SHARROW
Install first sharrow marking 20 feet after curb return or as noted. Install other sharrow markings as noted. See Detail. | 9 | REMOVE CONFLICTING STRIPING |
| 3 | PARKING TEE
Install short stem toward curb, distance measured from center of cross. Spacing between tees to be determined by engineer. See Detail. | 10 | REMOVE CONFLICTING MARKINGS |
| 4 | BIKE DETECTOR SYMBOL
Install bike detector pavement marking 1 foot back from limit line and centered in lane, or as noted. See Detail. | 11 | BIKE BOX
Install bike box limit lines and a bike lane symbol within limit lines, centered in each approach lane. See detail. |
| 5 | SPEED HUMP STRIPING
Install 2 chevrons in each direction made of 1 foot white stripes with 1 foot spacing. See Detail. | 12 | BIKE INTERSECTION MARKINGS
Install bike intersection markings as noted. See detail. |
| 6 | CONTINENTAL CROSSWALK
Install 2 foot stripes aligned with roadway centerline, white unless noted otherwise. See Detail. | | |
| 7 | WHITE BUFFER STRIPING
Install 6 inch white striping every 15 feet at 45 degree angle, or as noted. | | |



CITY OF OAKLAND
DEPARTMENT OF TRANSPORTATION | SAFE STREETS DIVISION
BICYCLE & PEDESTRIAN PROGRAM
250 FRANK H. OGAWA PLAZA, SUITE 4314 * OAKLAND CA, 94612
(510) 238-3466 * FAX (510) 238-7415

WASHINGTON ST
EMBARCADERO ST TO 2ND ST

REVIEWED BY	No.	DATE	BY	REFERENCE
JASON PATTON				
DESIGNED BY				
DEP				
DRAWN BY				
DEP				

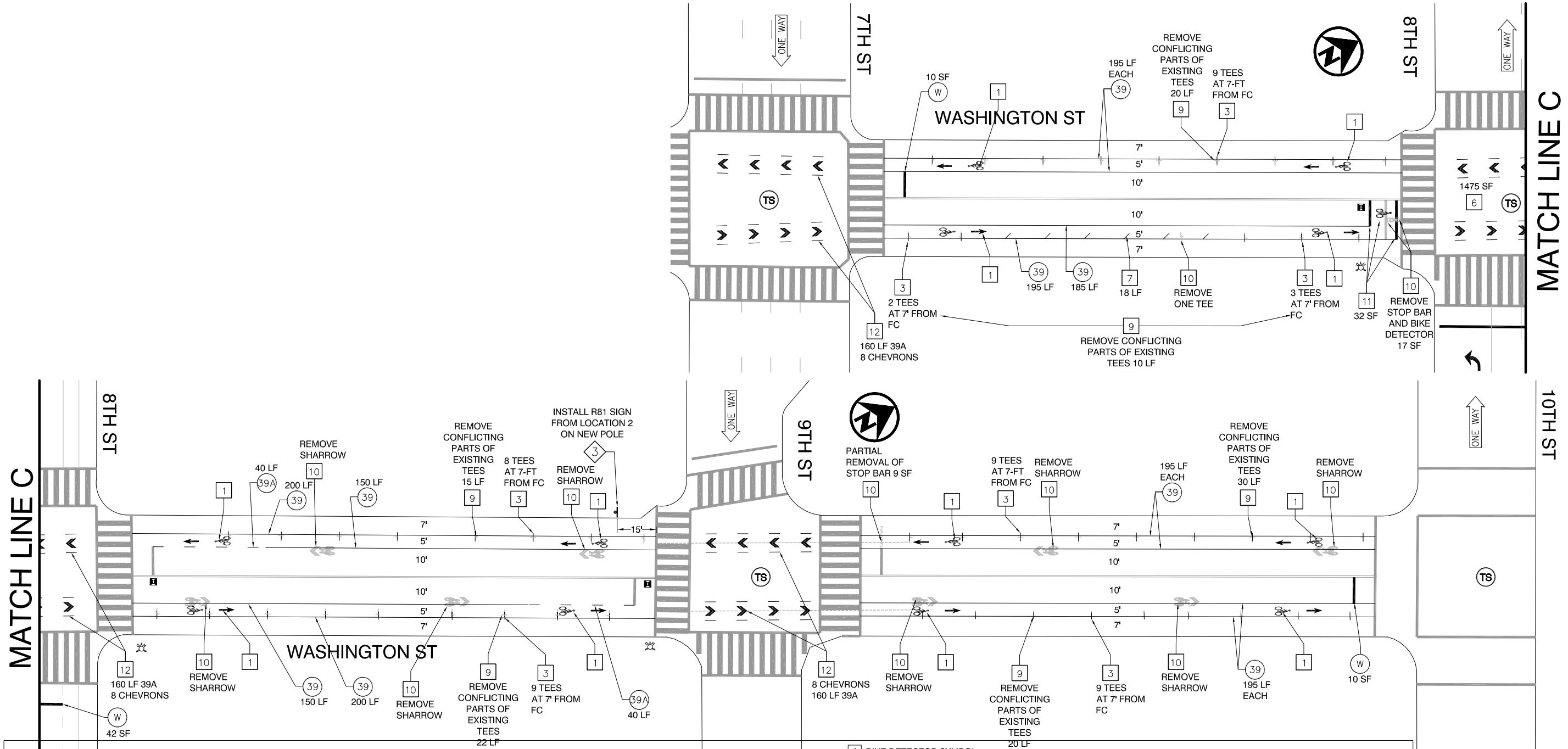
STRIPING PLAN
SS-8

PROJECT NO.
TBD

SCALE: 1"=40'	SHEET NO.
DATE: 09/05/2023	9 OF 20

MATCH LINE C

MATCH LINE C



LEGEND

- | | | | |
|----|---|-----|--------------------------|
| # | STRIPING CONSTRUCTION NOTE NUMBER | | FIRE HYDRANT |
| # | DETAIL NUMBER PER CALTRANS STD PLANS
Traffic lines as cardinal number
Arrows as roman numeral | | BLUE FIRE HYDRANT MARKER |
| TS | TRAFFIC SIGNAL | ETR | EXISTING TO REMAIN |
| W | CROSSWALK/LIMIT LINE (SOLID ONE FOOT WHITE LINE) | LF | LINEAR FEET |
| Y | CROSSWALK/LIMIT LINE (SOLID ONE FOOT YELLOW LINE) | SF | SQUARE FEET |
| | | CR | CURB RETURN |
| | | FC | FACE OF CURB |

CONSTRUCTION NOTES

- | | | | |
|---|---|----|---|
| 1 | BIKE LANE SYMBOL & ARROW
Install first bike lane symbol and bike lane arrow markings 20 feet after curb return. Install other bike lane symbols as noted. Space symbol and arrow 6 feet apart. See Detail. | 8 | YELLOW BUFFER STRIPING
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| 2 | SHARROW
Install first sharrow marking 20 feet after curb return or as noted. Install other sharrow markings as noted. See Detail. | 9 | REMOVE CONFLICTING STRIPING |
| 3 | PARKING TEE
Install short stem toward curb, distance measured from center of cross. Spacing between tees to be determined by engineer. See Detail. | 10 | REMOVE CONFLICTING MARKINGS |
| 4 | BIKE DETECTOR SYMBOL
Install bike detector pavement marking 1 foot back from limit line and centered in lane, or as noted. See Detail. | 11 | BIKE BOX
Install bike box limit lines and a bike lane symbol within limit lines, centered in each approach lane. See detail. |
| 5 | SPEED HUMP STRIPING
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| 6 | CONTINENTAL CROSSWALK
Install 2 foot stripes aligned with roadway centerline, white unless noted otherwise. See Detail. | | |
| 7 | WHITE BUFFER STRIPING
Install 6 inch white striping every 15 feet at 45 degree angle, or as noted. | | |

GRAPHIC SCALE (IN FEET)



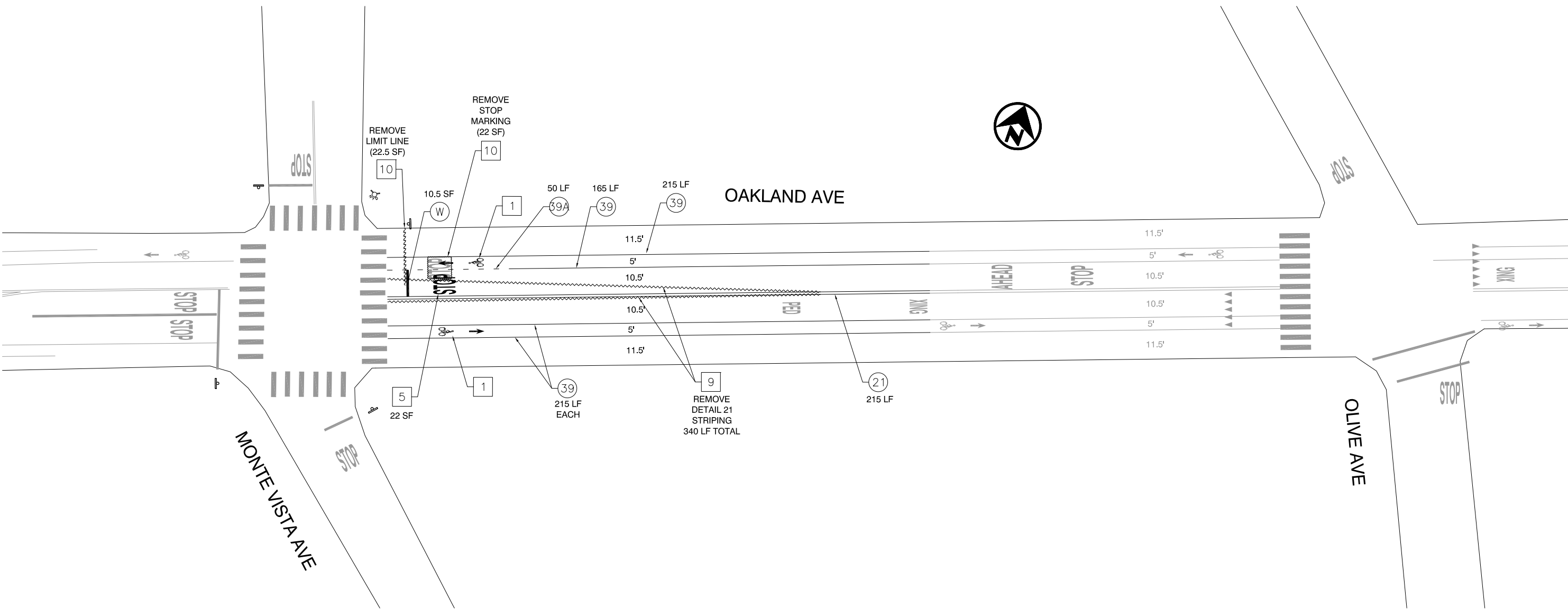
CITY OF OAKLAND
DEPARTMENT OF TRANSPORTATION | SAFE STREETS DIVISION
BICYCLE & PEDESTRIAN PROGRAM
250 FRANK H. OGAWA PLAZA, SUITE 4314 * OAKLAND CA, 94612
(510) 238-3466 * FAX (510) 238-7415

WASHINGTON ST
7TH ST TO 10TH ST

REVIEWED BY	No.	DATE	BY	REFERENCE
JASON PATTON				
DESIGNED BY				
DEP				
DRAWN BY				
DEP				

STRIPING PLAN
SS-9

PROJECT NO.	
TBD	
SCALE:	SHEET NO.
1"=40'	10 OF 20
DATE:	
09/05/2023	



LEGEND

#

STRIPING CONSTRUCTION NOTE NUMBER

#

DETAIL NUMBER PER CALTRANS STD PLANS
Traffic lines as cardinal number
Arrows as roman numeral

TS

TRAFFIC SIGNAL

W

CROSSWALK/LIMIT LINE (SOLID ONE FOOT WHITE LINE)

Y

CROSSWALK/LIMIT LINE (SOLID ONE FOOT YELLOW LINE)

FIRE HYDRANT

BLUE FIRE HYDRANT MARKER

ETREXISTING TO REMAINLFLINEAR FEETSFSQUARE FEETCRCURB RETURNFCFACE OF CURB

CONSTRUCTION NOTES

1

BIKE LANE SYMBOL & ARROW
Install first bike lane symbol and bike lane arrow markings 20 feet after curb return. Install other bike lane symbols as noted. Space symbol and arrow 6 feet apart. See Detail.

2

SHARROW
Install first sharrow marking 20 feet after curb return or as noted. Install other sharrow markings as noted. See Detail.

3

PARKING TEE
Install short stem toward curb, distance measured from center of cross. Spacing between tees to be determined by engineer. See Detail.

4

BIKE DETECTOR SYMBOL
Install bike detector pavement marking 1 foot back from limit line and centered in lane, or as noted. See Detail.

5

SPEED HUMP STRIPING
Install 2 chevrons in each direction made of 1 foot white stripes with 1 foot spacing. See Detail.

6

CONTINENTAL CROSSWALK
Install 2 foot stripes aligned with roadway centerline, white unless noted otherwise. See Detail.

7

WHITE BUFFER STRIPING
Install 6 inch white striping every 15 feet at 45 degree angle, or as noted.

8

YELLOW BUFFER STRIPING
Install 6 inch yellow striping every 8 feet at 45 degree angle, or as noted.

9

REMOVE CONFLICTING STRIPING

10

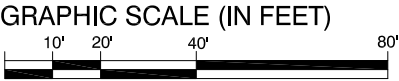
REMOVE CONFLICTING MARKINGS

11

BIKE BOX OR 2-STAGE LEFT TURN BOX
Install bike box or 2-stage left turn box as noted on plan. See details.

12

BIKE INTERSECTION MARKINGS
Install bike intersection markings as noted. See detail.



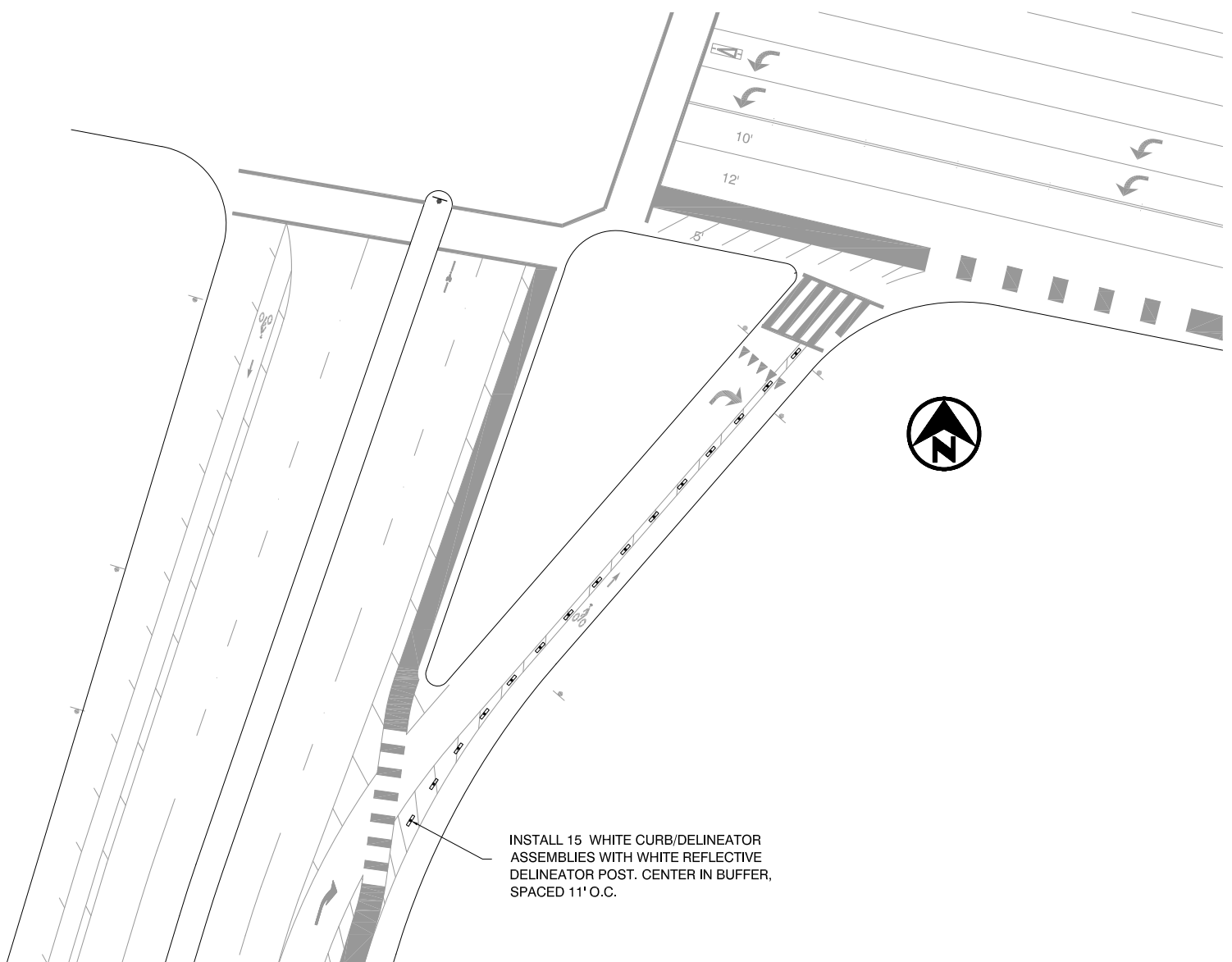
CITY OF OAKLAND
DEPARTMENT OF TRANSPORTATION | SAFE STREETS DIVISION
BICYCLE & PEDESTRIAN PROGRAM
250 FRANK H. OGAWA PLAZA, SUITE 4314 * OAKLAND CA, 94612
(510) 238-3466 * FAX (510) 238-7415

OAKLAND AVE
MONTE VISTA TO OLIVE AVE

REVIEWED BY	No.	DATE	BY	REFERENCE
JASON COOK				
DESIGNED BY	DEP			
DRAWN BY	DK			

STRIPING PLAN
SS-10

PROJECT NO. TBD	
SCALE: 1" = 40'	SHEET NO. 11 OF 20
DATE: 09/05/2023	



LEGEND

- #

STRIPING CONSTRUCTION NOTE NUMBER
- #

DETAIL NUMBER PER CALTRANS STD PLANS
Traffic lines as cardinal number
Arrows as roman numeral
- TS

TRAFFIC SIGNAL
- W

CROSSWALK/LIMIT LINE (SOLID ONE FOOT WHITE LINE)
- Y

CROSSWALK/LIMIT LINE (SOLID ONE FOOT YELLOW LINE)
- FIRE HYDRANT
- BLUE FIRE HYDRANT MARKER
- ETR EXISTING TO REMAIN
- LF LINEAR FEET
- SF SQUARE FEET
- CR CURB RETURN
- FC FACE OF CURB

CONSTRUCTION NOTES

- 1

BIKE LANE SYMBOL & ARROW
Install first bike lane symbol and bike lane arrow markings 20 feet after curb return. Install other bike lane symbols as noted. Space symbol and arrow 6 feet apart. See Detail.
- 2

SHARROW
Install first sharrow marking 20 feet after curb return or as noted. Install other sharrow markings as noted. See Detail.
- 3

PARKING TEE
Install short stem toward curb, distance measured from center of cross. Spacing between tees to be determined by engineer. See Detail.
- 4

BIKE DETECTOR SYMBOL
Install bike detector pavement marking 1 foot back from limit line and centered in lane, or as noted. See Detail.
- 5

SPEED HUMP STRIPING
Install 2 chevrons in each direction made of 1 foot white stripes with 1 foot spacing. See Detail.
- 6

CONTINENTAL CROSSWALK
Install 2 foot stripes aligned with roadway centerline, white unless noted otherwise. See Detail.
- 7

WHITE BUFFER STRIPING
Install 6 inch white striping every 15 feet at 45 degree angle, or as noted.
- 8

YELLOW BUFFER STRIPING
Install 6 inch yellow striping every 8 feet at 45 degree angle, or as noted.
- 9

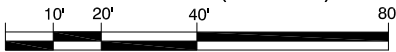
REMOVE CONFLICTING STRIPING
- 10

REMOVE CONFLICTING MARKINGS
- 11

BIKE BOX OR 2-STAGE LEFT TURN BOX
Install bike box or 2-stage left turn box as noted on plan. See details.
- 12

BIKE INTERSECTION MARKINGS
Install bike intersection markings as noted. See detail.

GRAPHIC SCALE (IN FEET)



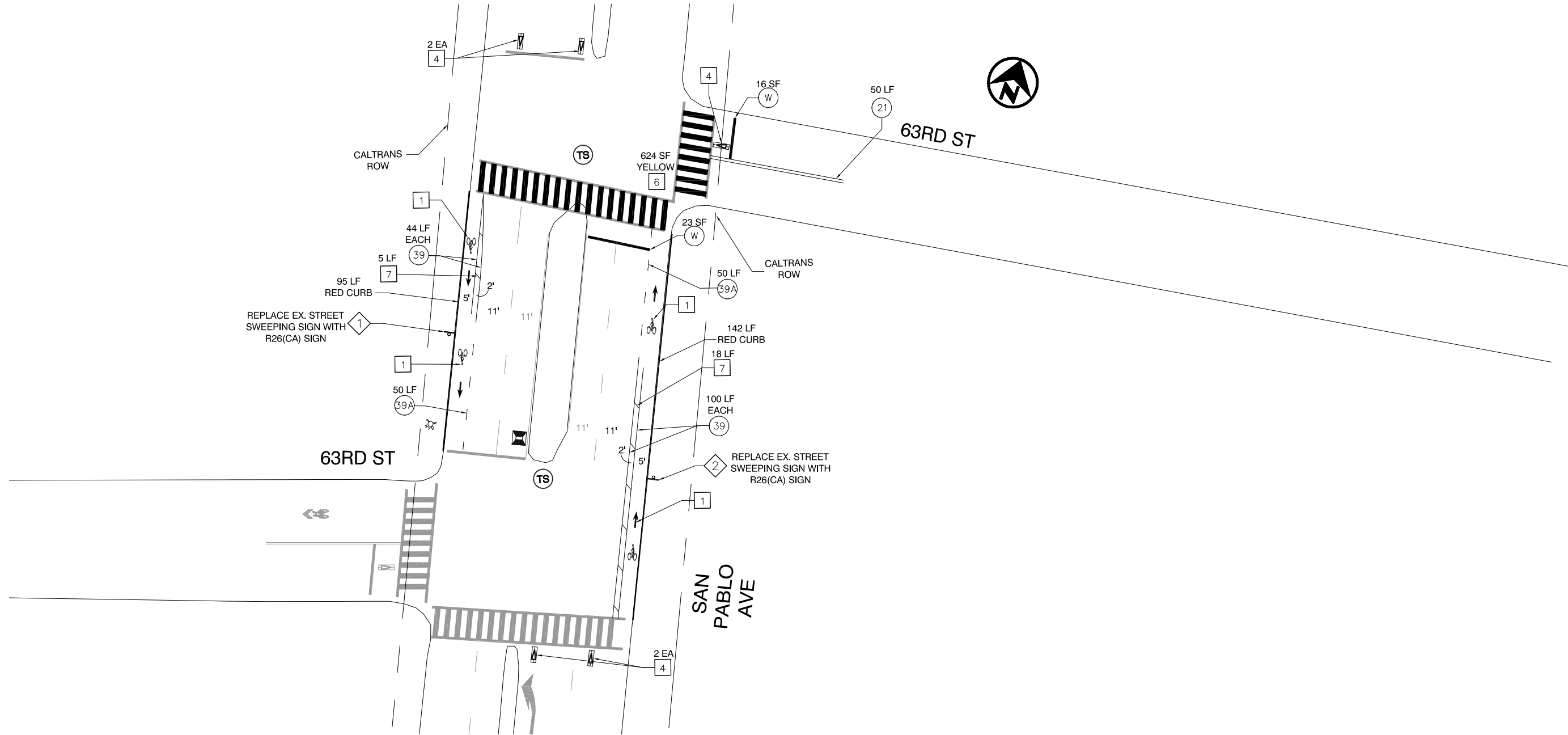
CITY OF OAKLAND
DEPARTMENT OF TRANSPORTATION | SAFE STREETS DIVISION
BICYCLE & PEDESTRIAN PROGRAM
250 FRANK H. OGAWA PLAZA, SUITE 4314 * OAKLAND CA, 94612
(510) 238-3466 * FAX (510) 238-7415

**HARRISON ST
GRAND AVENUE**

REVIEWED BY	No.	DATE	BY	REFERENCE
JASON PATTON				
DESIGNED BY				
JJC				
DRAWN BY				
JJC				

STRIPING PLAN
SS-11

PROJECT NO. TBD	
SCALE: 1" = 40'	SHEET NO.
DATE: 09/05/2023	12 OF 20



LEGEND

#

STRIPING CONSTRUCTION NOTE NUMBER

#

DETAIL NUMBER PER CALTRANS STD PLANS
Traffic lines as cardinal number
Arrows as roman numeral

TS

TRAFFIC SIGNAL

W

CROSSWALK/LIMIT LINE (SOLID ONE FOOT WHITE LINE)

Y

CROSSWALK (SOLID ONE FOOT YELLOW LINE)

Fire Hydrant Symbol

FIRE HYDRANT

Blue Fire Hydrant Marker

BLUE FIRE HYDRANT MARKER

ETR

EXISTING TO REMAIN

LF

LINEAR FEET

SF

SQUARE FEET

CR

CURB RETURN

FC

FACE OF CURB

CONSTRUCTION NOTES

1

BIKE LANE SYMBOL & ARROW
Install first bike lane symbol and bike lane arrow markings 20 feet after curb return. Install other bike lane symbols as noted. Space symbol and arrow 6 feet apart. See Detail.

2

SHARROW
Install first sharrow marking 20 feet after curb return or as noted. Install other sharrow markings as noted. See Detail.

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BIKE DETECTOR SYMBOL
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5

SPEED HUMP STRIPING
Install 2 chevrons in each direction made of 1 foot white stripes with 1 foot spacing. See Detail.

6

CONTINENTAL CROSSWALK
Install 2 foot stripes aligned with roadway centerline, white unless noted otherwise. See Detail.

7

WHITE BUFFER STRIPING
Install 6 inch white striping every 15 feet at 45 degree angle, or as noted.

8

YELLOW BUFFER STRIPING
Install 6 inch yellow striping every 8 feet at 45 degree angle, or as noted.

9

REMOVE CONFLICTING STRIPING

10

REMOVE CONFLICTING MARKINGS

11

BIKE BOX OR 2-STAGE LEFT TURN BOX
Install bike box or 2-stage left turn box as noted on plan. See details.

12

BIKE INTERSECTION MARKINGS
Install bike intersection markings as noted. See detail.



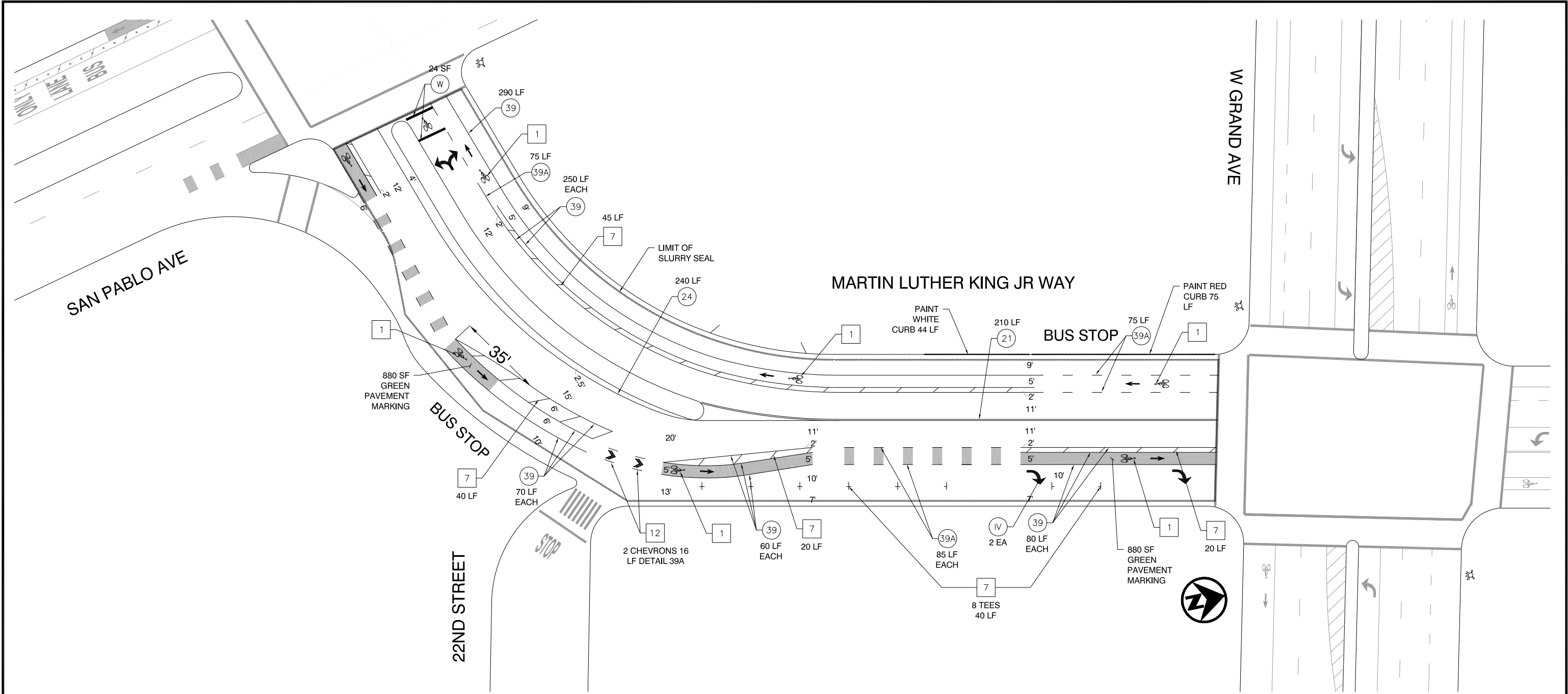
CITY OF OAKLAND
DEPARTMENT OF TRANSPORTATION | SAFE STREETS DIVISION
BICYCLE & PEDESTRIAN PROGRAM
250 FRANK H. OGAWA PLAZA, SUITE 4314 * OAKLAND CA, 94612
(510) 238-3466 * FAX (510) 238-7415

63RD ST
SAN PABLO AVE TO MARKET ST

REVIEWED BY	No.	DATE	BY	REFERENCE
JASON PATTON				
DESIGNED BY	DEP			
DRAWN BY	DEP			

STRIPING PLAN
SS-12

PROJECT NO. TBD	
SCALE: 1" = 40'	SHEET NO. 13 OF 20
DATE: 09/05/2023	



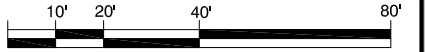
LEGEND

- | | | | |
|----|---|-----|--------------------------|
| # | STRIPING CONSTRUCTION NOTE NUMBER | | FIRE HYDRANT |
| # | DETAIL NUMBER PER CALTRANS STD PLANS
Traffic lines as cardinal number
Arrows as roman numeral | | BLUE FIRE HYDRANT MARKER |
| TS | TRAFFIC SIGNAL | ETR | EXISTING TO REMAIN |
| W | CROSSWALK/LIMIT LINE (SOLID ONE FOOT WHITE LINE) | LF | LINEAR FEET |
| Y | CROSSWALK/LIMIT LINE (SOLID ONE FOOT YELLOW LINE) | SF | SQUARE FEET |
| | | CR | CURB RETURN |
| | | FC | FACE OF CURB |

CONSTRUCTION NOTES

- | | | | |
|---|---|----|---|
| 1 | BIKE LANE SYMBOL & ARROW
Install first bike lane symbol and bike lane arrow markings 20 feet after curb return. Install other bike lane symbols as noted. Space symbol and arrow 6 feet apart. See Detail. | 4 | BIKE DETECTOR SYMBOL
Install bike detector pavement marking 1 foot back from limit line and centered in lane, or as noted. See Detail. |
| 2 | SHARROW
Install first sharrow marking 20 feet after curb return or as noted. Install other sharrow markings as noted. See Detail. | 5 | SPEED HUMP STRIPING
Install 2 chevrons in each direction made of 1 foot white stripes with 1 foot spacing. See Detail. |
| 3 | PARKING TEE
Install short stem toward curb, distance measured from center of cross. Spacing between tees to be determined by engineer. See Detail. | 6 | CONTINENTAL CROSSWALK
Install 2 foot stripes aligned with roadway centerline, white unless noted otherwise. See Detail. |
| | | 7 | WHITE BUFFER STRIPING
Install 6 inch white striping every 15 feet at 45 degree angle, or as noted. |
| | | 8 | YELLOW BUFFER STRIPING
Install 6 inch yellow striping every 8 feet at 45 degree angle, or as noted. |
| | | 9 | REMOVE CONFLICTING STRIPING |
| | | 10 | REMOVE CONFLICTING MARKINGS |
| | | 11 | BIKE BOX OR 2-STAGE LEFT TURN BOX
Install bike box or 2-stage left turn box as noted on plan. See details. |
| | | 12 | BIKE INTERSECTION MARKINGS
Install bike intersection markings as noted. See detail. |

GRAPHIC SCALE (IN FEET)



CITY OF OAKLAND

DEPARTMENT OF TRANSPORTATION | SAFE STREETS DIVISION
BICYCLE & PEDESTRIAN PROGRAM
250 FRANK H. OGAWA PLAZA, SUITE 4314 * OAKLAND CA, 94612
(510) 238-3466 * FAX (510) 238-7415

MARTIN LUTHER KING JR WAY
SAN PABLO AVE TO W GRAND AVE

REVIEWED BY	No.	DATE	BY	REFERENCE
JP				
DESIGNED BY	DP, BC			
DRAWN BY	BC			

STRIPING PLAN

SS-13

PROJECT NO.

TBD

SCALE: 1" = 40'

SHEET NO.

DATE: 09/05/2023

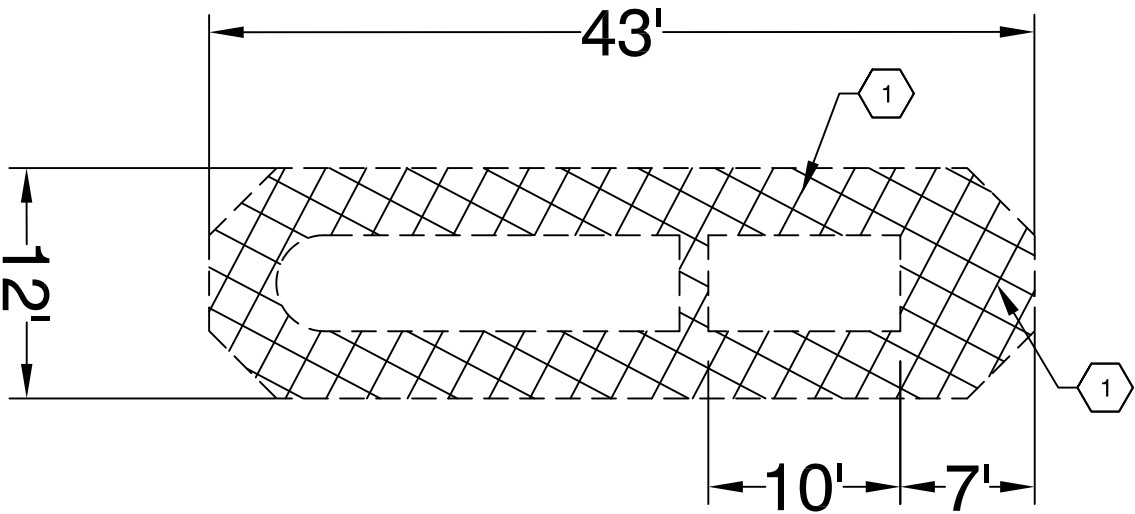
14 OF 20

REMOVAL PLAN CONSTRUCTION NOTES

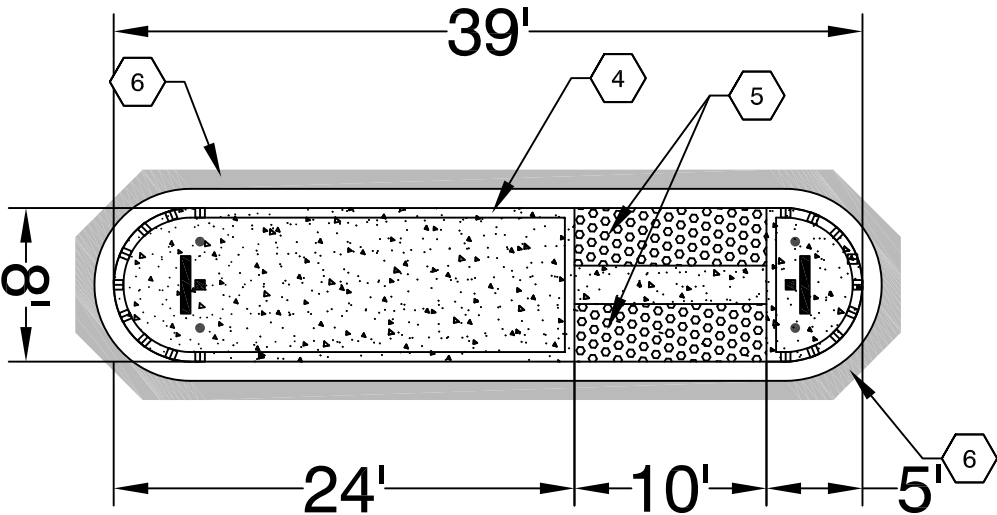
- 1 SAWCUT AND REMOVE MINIMUM OF 8 INCH DEPTH AC PAVEMENT.
- 2 SAWCUT AND REMOVE MINIMUM OF 4 INCH DEPTH AC PAVEMENT.
- 3 REMOVE EXISTING PAVEMENT MARKINGS.

INSTALLATION PLAN CONSTRUCTION NOTES

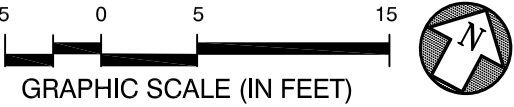
- 4 INSTALL 6" CONCRETE ISLAND. TYPE D CURB. 2" CRUSH MISCELLANEOUS BASE BACKFILL WITH 4" CONCRETE MEDIUM BROOM FINISH. ADDITIONAL LAYOUT DETAILING SPECIFIED ON SHEET 2.
- 5 INSTALL TRUNCATED DOMES EMBEDDED INTO CONCRETE. 2' x 12' (2)
- 6 INSTALL 1' AC PLUG.
- 7 INSTALL TWO-WAY YELLOW RETROREFLECTIVE MARKER. SEE SHEET 2.
- 8 INSTALL SIGN. SIGN PER PLAN. SEE SHEET 2.
- 9 INSTALL DETAIL 28. SEE SHEET 2.
- 10 INSTALL YELLOW CURB MARKINGS. SEE SHEET 2.
- 11 INSTALL TYPE Q REFLECTIVE MARKER. SEE SHEET 2.



REMOVAL PLAN



INSTALLATION PLAN



CITY OF OAKLAND
DEPARTMENT OF TRANSPORTATION | SAFE STREETS DIVISION
BICYCLE & PEDESTRIAN PROGRAM
250 FRANK H. OGAWA PLAZA, SUITE 4314 * OAKLAND CA, 94612
(510) 238-3466 * FAX (510) 238-7415

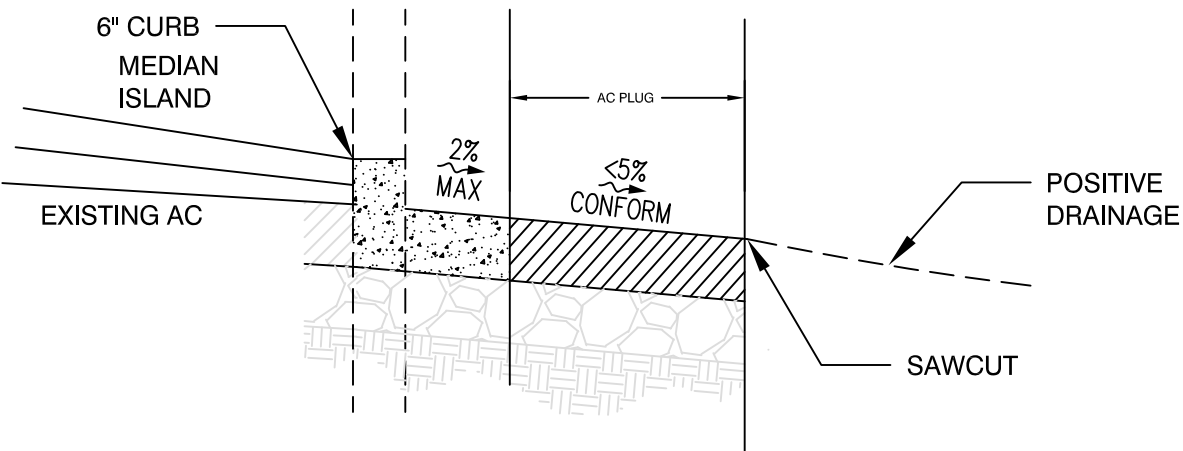
LAKESHORE AVE & PRINCE STREET
MEDIAN REFUGE ISLAND

REVIEWED BY	No.	DATE	BY	REFERENCE
JASON PATTON				
DESIGNED BY	JJC			
DRAWN BY	JJC			

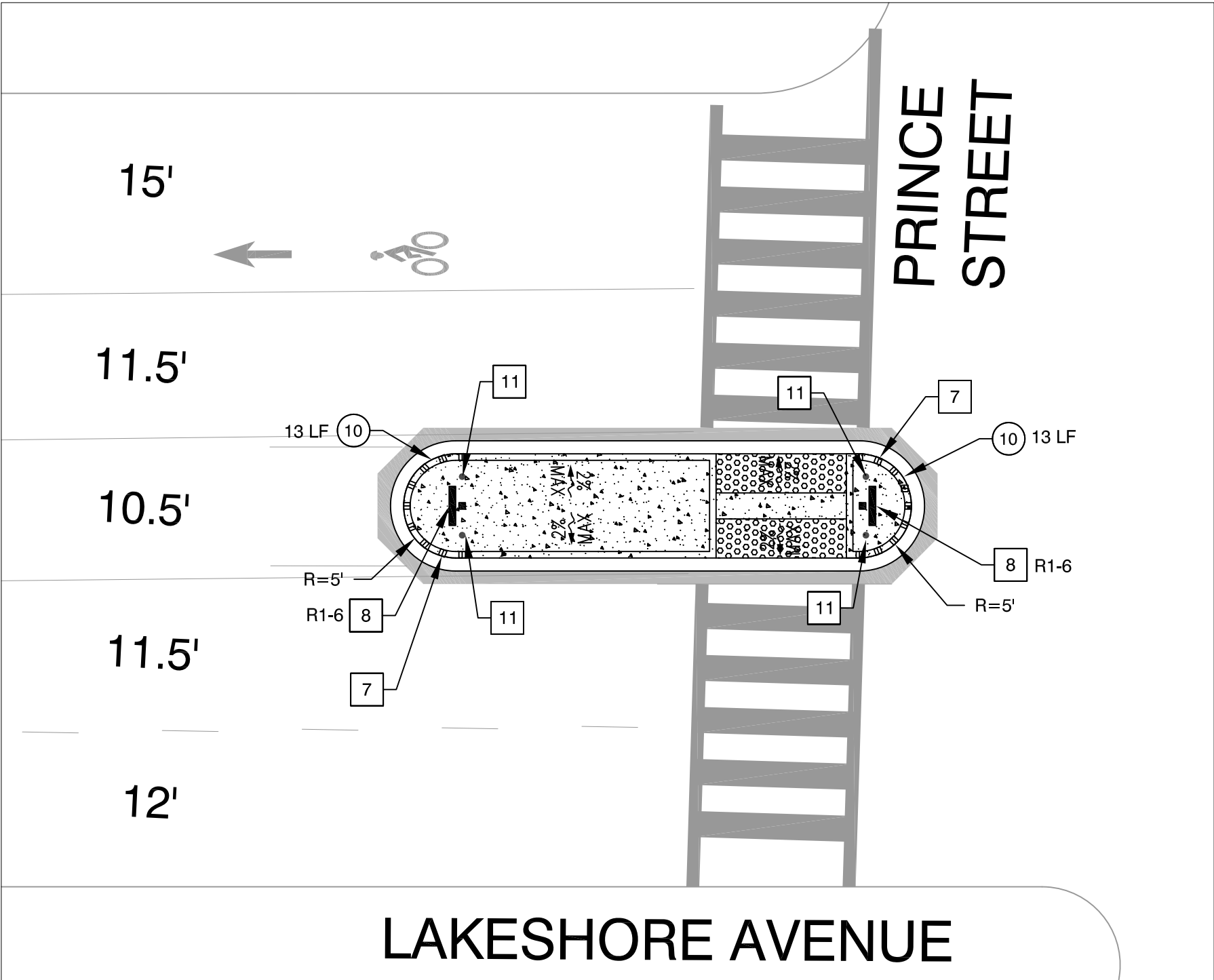
CONCEPT PLAN
C-1

PROJECT NO. TBD	
SCALE: 1"=40'	SHEET NO.
DATE: 09/05/2023	15 OF 20

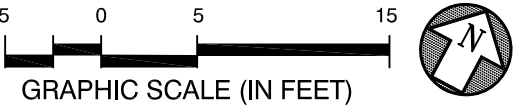
- 7 INSTALL TWO-WAY YELLOW RETROREFLECTIVE MARKERS. PER PLAN HEREON. QUANTITY= 18 UNITS.
- 8 INSTALL SIGN. SIGN PER PLAN HEREON.
- 9 INSTALL DETAIL 28. LENGTH PER PLAN.
- 10 INSTALL YELLOW CURB MARKINGS. LENGTH PER PLAN.
- 11 INSTALL TYPE Q REFLECTIVE MARKER. PER PLAN HEREON. QUANTITY=4 UNITS



1 ISLAND DETAIL
SHT 1 SCALE: NTS



SIGNAGE AND STRIPING LAYOUT PLAN



CITY OF OAKLAND
DEPARTMENT OF TRANSPORTATION | SAFE STREETS DIVISION
BICYCLE & PEDESTRIAN PROGRAM
250 FRANK H. OGAWA PLAZA, SUITE 4314 * OAKLAND CA, 94612
(510) 238-3466 * FAX (510) 238-7415

LAKESHORE AVE & PRINCE STREET
MEDIAN REFUGE ISLAND

REVIEWED BY	No.	DATE	BY	REFERENCE
JASON PATTON				
DESIGNED BY				
JJC				
DRAWN BY				
JJC				

CONCEPT PLAN
C-2

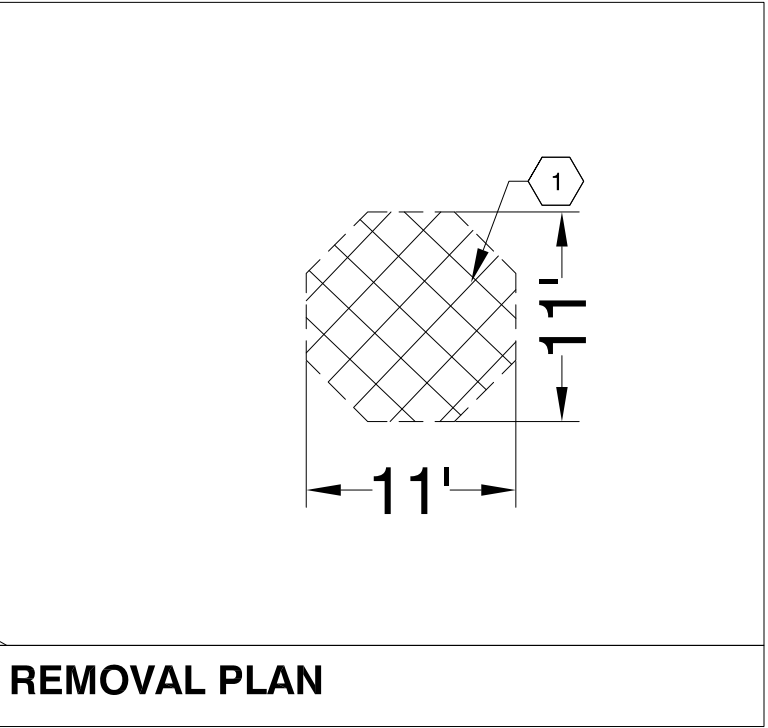
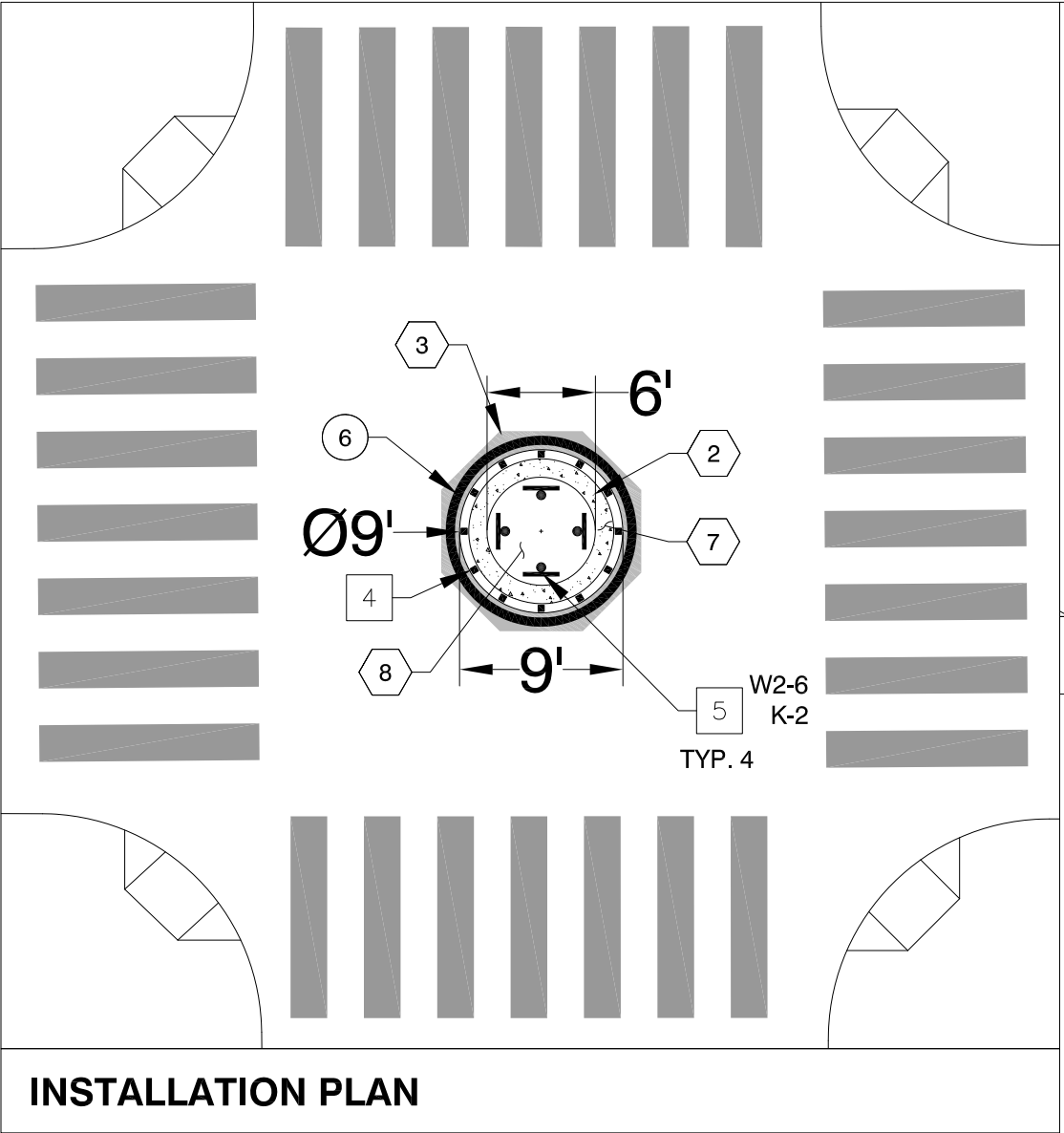
PROJECT NO. TBD	
SCALE: 1"=40'	SHEET NO.
DATE: 09/05/2023	16 OF 20

REMOVAL PLAN CONSTRUCTION NOTES

1 SAWCUT AND REMOVE MINIMUM OF 8 INCH DEPTH AC PAVEMENT.

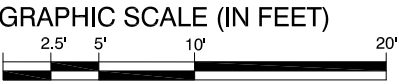
INSTALLATION PLAN CONSTRUCTION NOTES

- 2 INSTALL 1' WIDE STAMPED CONCRETE APRON. TYPE D CURB. 2" CRUSH
- 3 INSTALL 1' AC PLUG.
- 4 INSTALL TWO-WAY YELLOW RETROREFLECTIVE MARKER. SEE SHEET 2.
- 5 INSTALL SIGN. SIGN PER PLAN. SEE SHEET 2.
- 6 6" SOLID YELLOW STRIPE. SEE SHEET 2.
- 7 INSTALL 6" CURB. SEE SHEET 2.
- 8 INSTALL LANDSCAPING. SEE SHEET 3.



REMOVAL PLAN

INSTALLATION PLAN



CITY OF OAKLAND
DEPARTMENT OF TRANSPORTATION | SAFE STREETS DIVISION
BICYCLE & PEDESTRIAN PROGRAM
250 FRANK H. OGAWA PLAZA, SUITE 4314 * OAKLAND CA, 94612
(510) 238-3466 * FAX (510) 238-7415

96TH AVE & SUNNYSIDE STREET
TRAFFIC CIRCLE

REVIEWED BY	No.	DATE	BY	REFERENCE
JASON PATTON				
DESIGNED BY				
JJC				
DRAWN BY				
JJC				

CONCEPT PLAN
C-3

PROJECT NO.
TBD

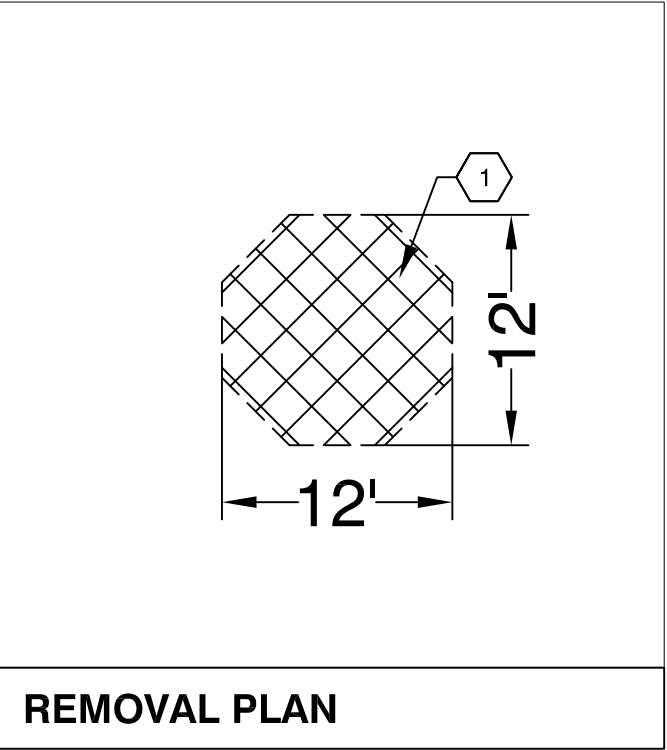
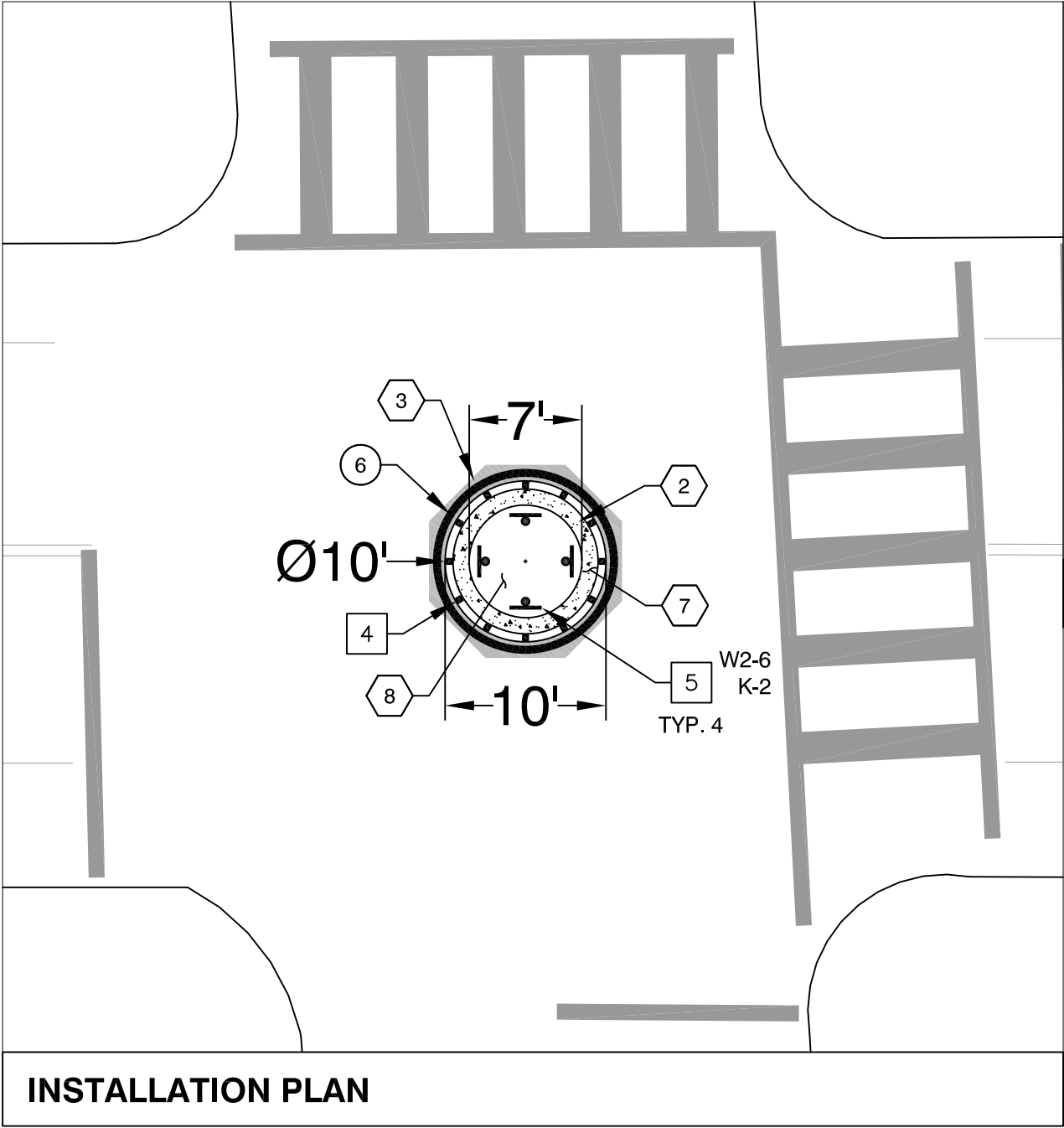
SCALE: 1"=40'
DATE: 09/05/2023
SHEET NO. 17 OF 20

REMOVAL PLAN CONSTRUCTION NOTES

- 1 SAWCUT AND REMOVE MINIMUM OF 8 INCH DEPTH AC PAVEMENT.

INSTALLATION PLAN CONSTRUCTION NOTES

- 2 INSTALL 1' WIDE STAMPED CONCRETE APRON. TYPE D CURB. 2" CRUSH
- 3 INSTALL 1' AC PLUG.
- 4 INSTALL TWO-WAY YELLOW RETROREFLECTIVE MARKER. SEE SHEET 2.
- 5 INSTALL SIGN. SIGN PER PLAN. SEE SHEET 2.
- 6 6" SOLID YELLOW STRIPE. SEE SHEET 2.
- 7 INSTALL 6" CURB. SEE SHEET 2.
- 8 INSTALL LANDSCAPING. SEE SHEET 3.



REMOVAL PLAN

INSTALLATION PLAN



GRAPHIC SCALE (IN FEET)



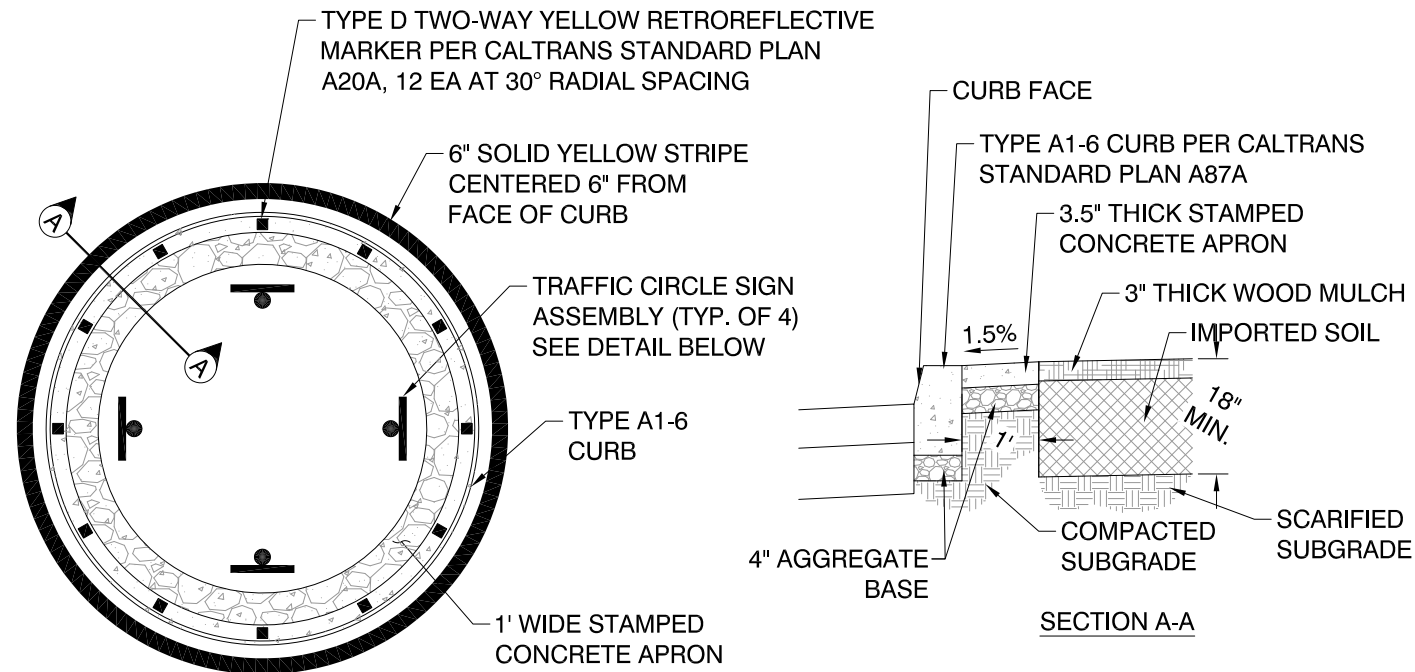
CITY OF OAKLAND
DEPARTMENT OF TRANSPORTATION | SAFE STREETS DIVISION
BICYCLE & PEDESTRIAN PROGRAM
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(510) 238-3466 * FAX (510) 238-7415

38TH AVE & PENNIMAN AVE
TRAFFIC CIRCLE

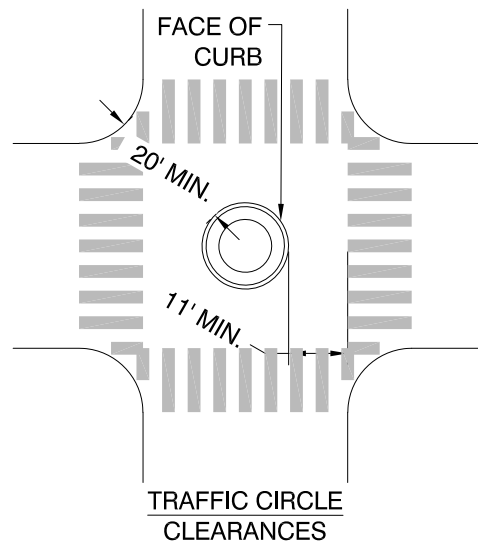
REVIEWED BY	No.	DATE	BY	REFERENCE
JASON PATTON				
DESIGNED BY				
JJC				
DRAWN BY				
JJC				

CONCEPT PLAN
C-4

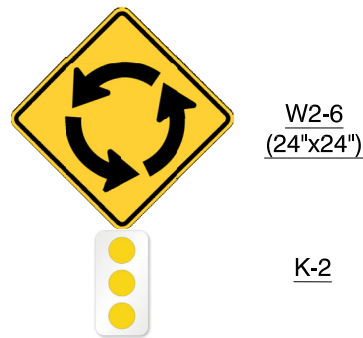
PROJECT NO. TBD	
SCALE: 1"=40'	SHEET NO.
DATE: 09/05/2023	18 OF 20



PLAN VIEW

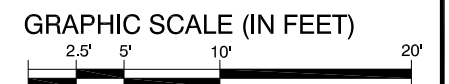


TRAFFIC CIRCLE CLEARANCES



TYPICAL TRAFFIC CIRCLE SIGN ASSEMBLY

TRAFFIC CIRCLE DETAILS



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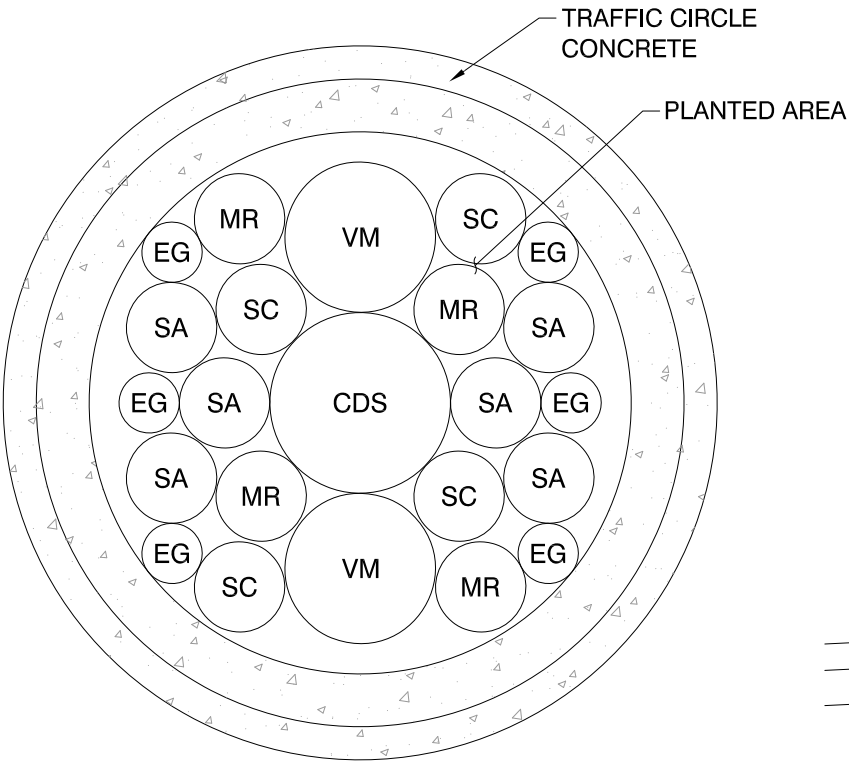
96TH AVE & SUNNYSIDE STREET
TRAFFIC CIRCLE

REVIEWED BY	No.	DATE	BY	REFERENCE
JASON PATTON				
DESIGNED BY				
JJC				
DRAWN BY				
JJC				

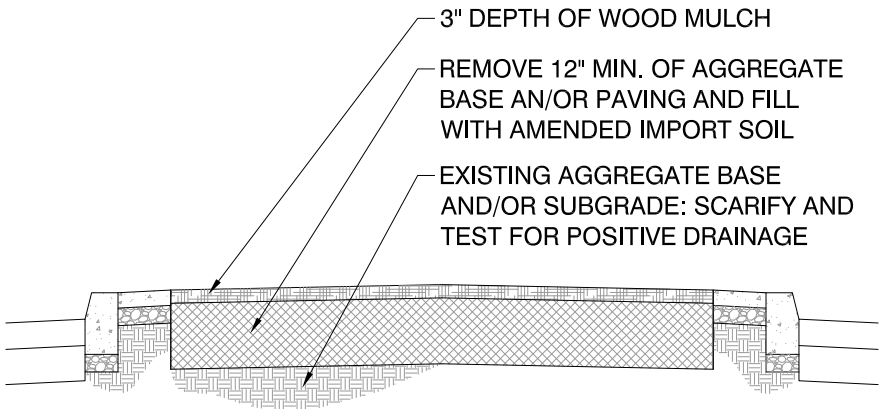
CONCEPT PLAN
D-1

PROJECT NO.
TBD

SCALE: 1"=40'
DATE: 09/05/2023
SHEET NO.
19 OF **20**



PLAN VIEW



SECTION VIEW

PLANT LIST

SYMBOL	QTY.	BOTANICAL NAME	COMMON NAME	CONTAINER SIZE	SPACING	MATURE HEIGHT	WATER USE	DROUGHT TOLERANT
SHRUB								
CDS	1	CEANOTHUS 'DARK STAR'	CALIFORNIA LILAC	5 GAL	6'-0"	5'-0"	LOW	YES
VM	2	ARCTOSTAPHYLOS PURISSIMA	VANDENBERG MANZANITA	5 GAL	5'-0"	3'-0"	LOW	YES
GROUND COVER								
EG	6	ERIGERON GLAUCUS	CAPE SEBASTIAN	1 GAL	2'-0"	0'-4"	LOW	YES
MR	4	MUHLENBERGIA RIGENS	DEER GRASS	1 GAL	3'-0"	3'-0"	LOW	YES
SC	4	SALVIA CLEVELANDII	CLEVELAND SAGE	1 GAL	3'-0"	3'-0"	LOW	YES
SA	6	SPHAERALCEA AMBIGUA	LOUIS HAMILTON	1 GAL	3'-0"	3'-0"	LOW	YES

NOTE: APPROX QUANTITY BASED ON SINGLE TRAFFIC CIRCLE. PROVIDE PLANTINGS AT EACH TRAFFIC CIRCLE.

TRAFFIC CIRCLE SOIL & LANDSCAPING

GENERAL PLANTING NOTES

KEEP PLANTING CLEAN AND FREE FROM ALL CONCRETE, ASPHALTIC WASTE, LUMBER AND OTHER SUCH MATERIALS AND SHOULD BE REMOVED BY EXCAVATION OF THE SOIL AND REPLACED WITH CLEAN NATIVE TOP SOIL. CLEAR AND GRUB ALL AREAS TO RECEIVE NEW PLANTING AND PREPARE SOIL PER SPECIFICATION.

ALL PLANTS AND LAYOUT TO BE APPROVED BY THE CITY PRIOR TO EXCAVATION OF PLANTING HOLES.

SUPPLY WELL-SHAPED, VIGOROUS PLANTS THAT ARE TYPICAL OF THE SPECIES AND FREE OF DEFECTS, DISFIGURING KNOTS, ABRASIONS, SUNSCALD INJURIES, AND INSECT INFESTATION.

CONTAINER STOCK: PLANTS TO BE WELL-ESTABLISHED IN CONTAINERS, HAVING BEEN GROWN IN THE CONTAINER FOR NOT LESS THAN 6 MONTHS, NOR LONGER THAN 2 YEARS. THE CITY RESERVES THE RIGHT TO INSPECT ROOT CONDITIONS OF PLANTS IN CONTAINERS AND TO REJECT THOSE WHICH ARE NOT WELL-ROOTED OR SHOW EVIDENCE OF BEING ROOTBOUND; REMOVE REJECTED PLANTS FROM THE SITE.

SOIL & AMENDMENTS NOTES

PROVIDE IMPORT TOPSOIL TO REPLACE REMOVED PAVEMENT SECTION. IMPORT TOPSOIL IS TO BE FERTILE, FRIABLE, NATURAL SOIL, WITH SUFFICIENT QUANTITIES OF ORGANIC MATTER AND NUTRIENTS, CAPABLE OF SUSTAINING HEALTHY PLANT LIFE AND CONSIST OF SANDYLOAM. FREE OF STONES AND OTHER OBJECTS OVER 2 INCHES IN DIAMETER, INCLUDING SUBSOIL AND CLAY LUMPS. WITHOUT WEEDS, ROOTS, NOXIOUS SEEDS, TOXIC SUBSTANCES, TRASH AND OTHER DELETERIOUS SUBSTANCES. NOT INFESTED WITH PLANT-PARASITIC NEMATODES OR WITH OTHER NOXIOUS ANIMAL LIFE.

IDENTIFY THE SOURCE OF TOPSOIL AND SUPPLY SOIL TEST DATA FOR APPROVAL BY THE CITY PRIOR TO ANY HAULING OR PLACING OF SOIL.

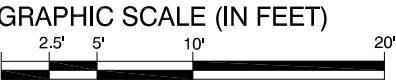
SOIL PREPRATION FOR LANDSCAPE AREAS

REMOVE PAVEMENT AND SECTION TO A DEPTH OF 12" AND REPLACE WITH SANDY LOAM/ IMPORT TOPSOIL.

CROSS-RIP THE SUBGRADE/AGGRGATE BASE TO AN 8" DEPTH. RIPPING TO BE CONTINUED UNTIL THE ENTIRE SPECIFIED DEPTH IS LOOSE AND FRIABLE. CITY TO REVIEW AND VERIFY THAT RIPPING IS COMPLETE. WATER TO BE APPLIED AS NECESSARY TO BRING SOIL TO OPTIMUM MOISTURE CONTENT FOR RIPPING.

PRIOR TO BACKFILLING TEST TO CONFIRM BOTTOM OF PIT WILL DRAIN VIA PERCOLATION TEST.

THOROUGHLY WATER ALL PLANTINGS IMMEDIATELY AFTER PLANTING. AFTER FINISH GRADING IS COMPLETE, APPLY WATER IN SUFFICIENT QUANTITY OVER A MINIMUM PERIOD OF 14 DAYS.



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(510) 238-3466 * FAX (510) 238-7415

96TH AVE & SUNNYSIDE STREET
TRAFFIC CIRCLE

REVIEWED BY	No.	DATE	BY	REFERENCE
JASON PATTON				
DESIGNED BY				
JJC				
DRAWN BY				
JJC				

CONCEPT PLAN
D-2

PROJECT NO. TBD	
SCALE: 1"=40'	SHEET NO.
DATE: 09/05/2023	20 OF 20

A photograph of construction workers in orange safety gear and hard hats working on a street. They are using tools like shovels and a jackhammer. In the background, there are residential houses and a white truck. The scene is outdoors during the day.

Downtown Streets Rehab Project

Bicycle Pedestrian Action Committee Update
September 2023

Today's Presentation

Project Background

- Pavement Rehabilitation
- 3.25 Miles
 - Various Segments Across DT Oakland
- Meeting 5 YR Paving Plan Goals

Bike Facility Updates

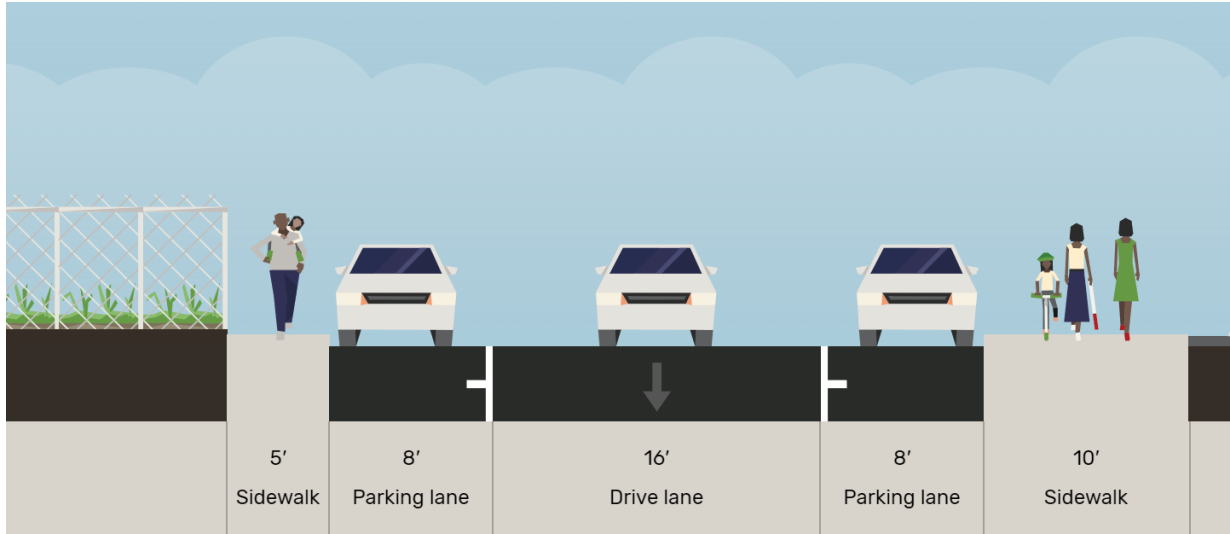
- Webster Street
- 11th Street
- 7th/8th Street
- 9th Street
- Madison Street
- Oak Street
- Franklin Street
- 13th Street

Project Area

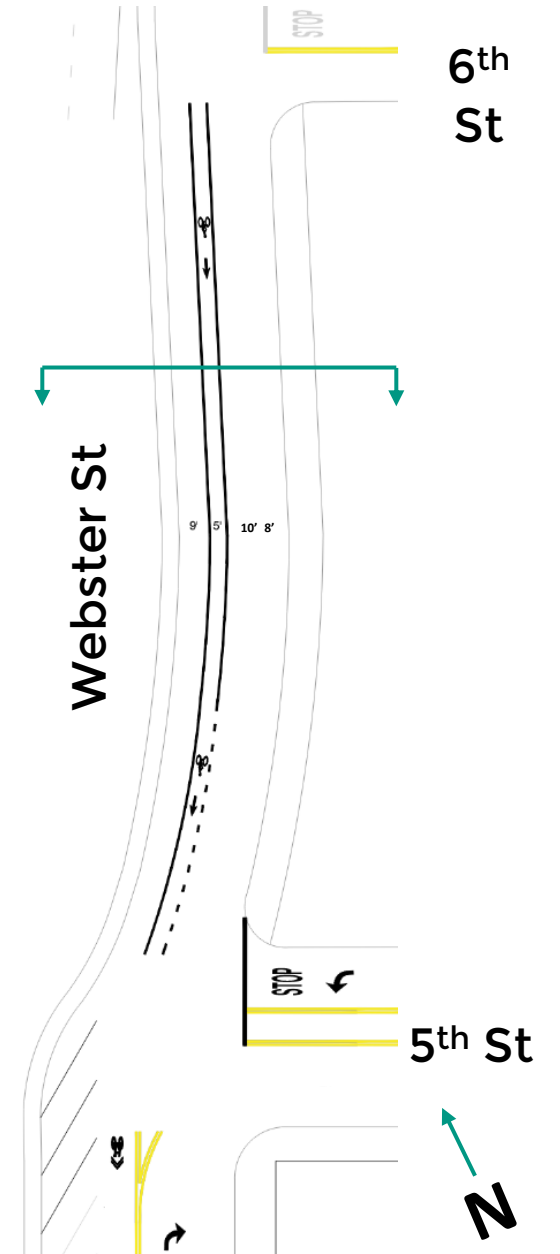
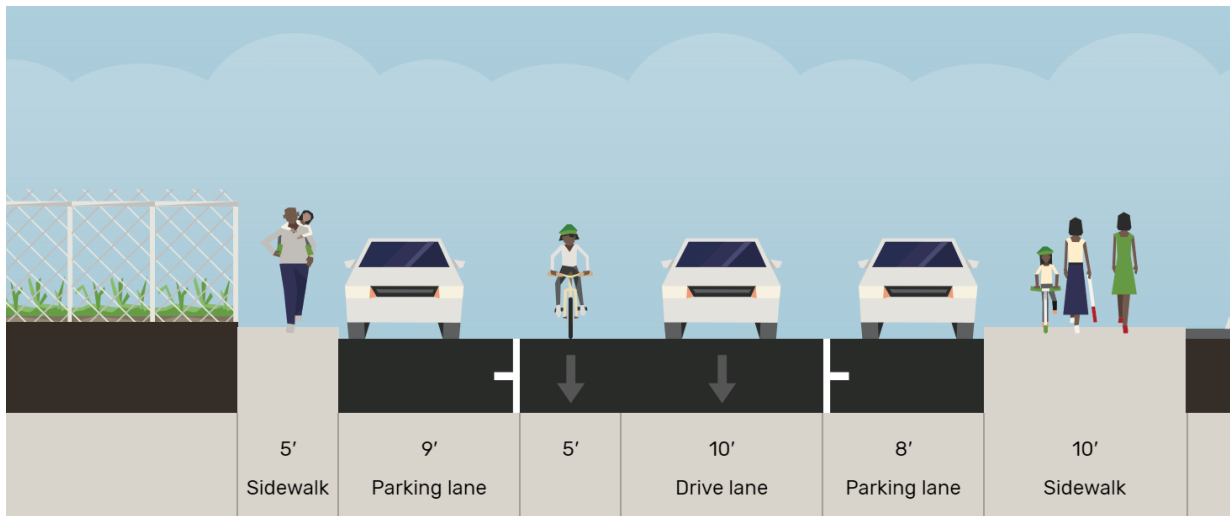


Webster Street (6th St – 5th St)

Existing:

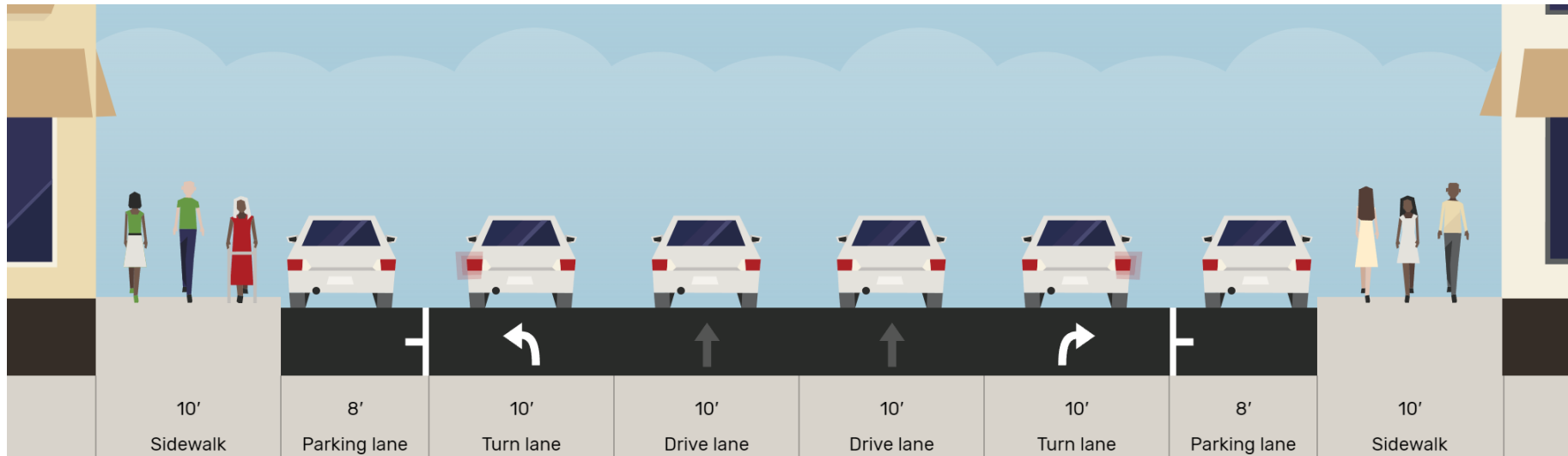


Proposed:

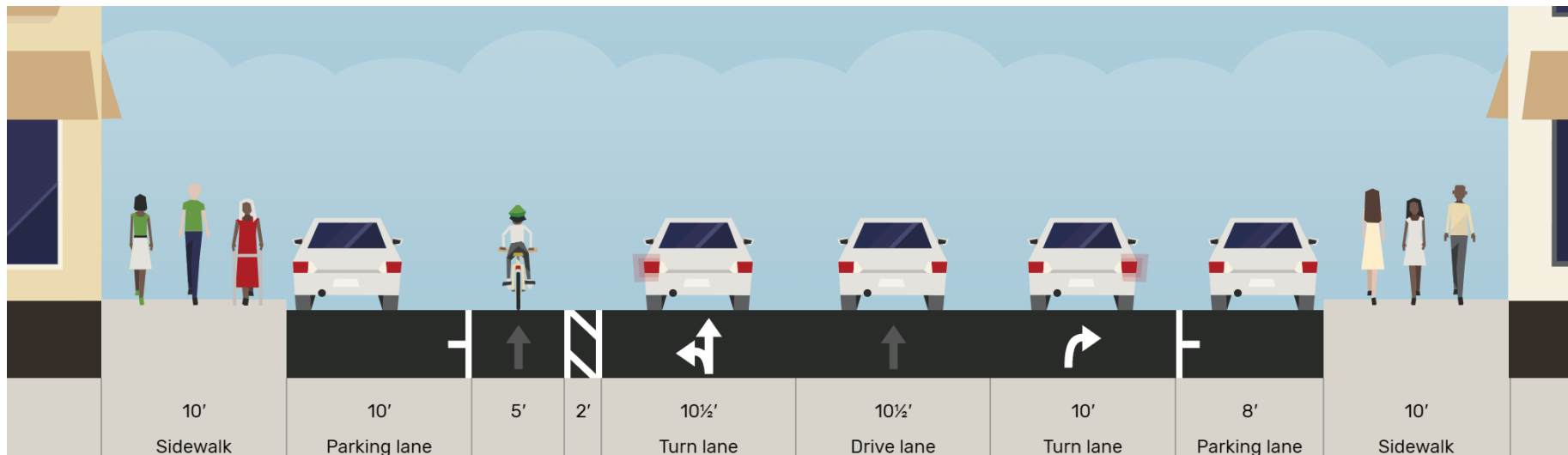


11th Street (*Clay St – Broadway*)

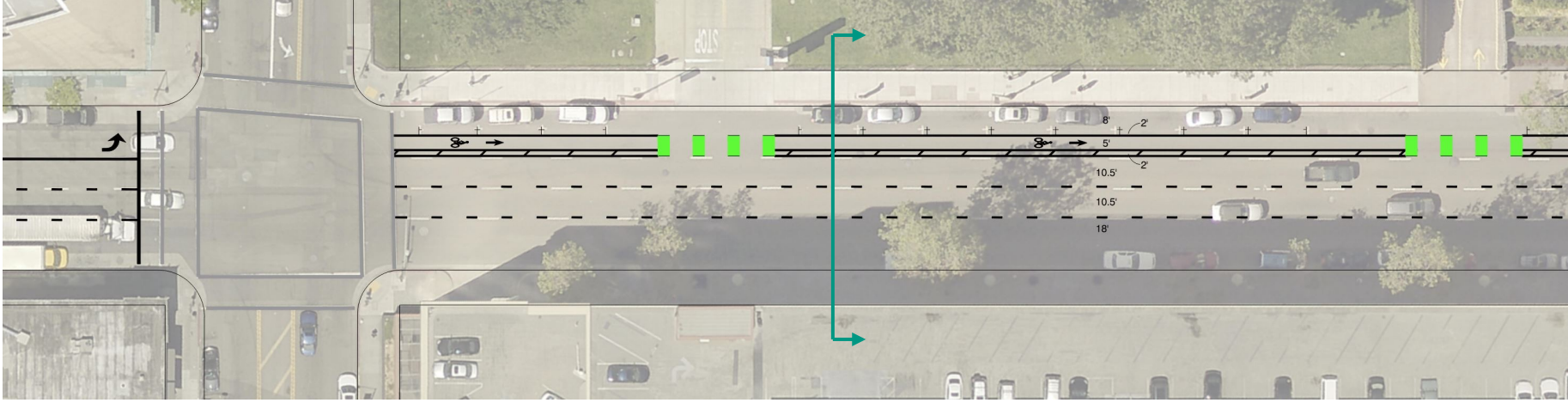
Existing:



Proposed:

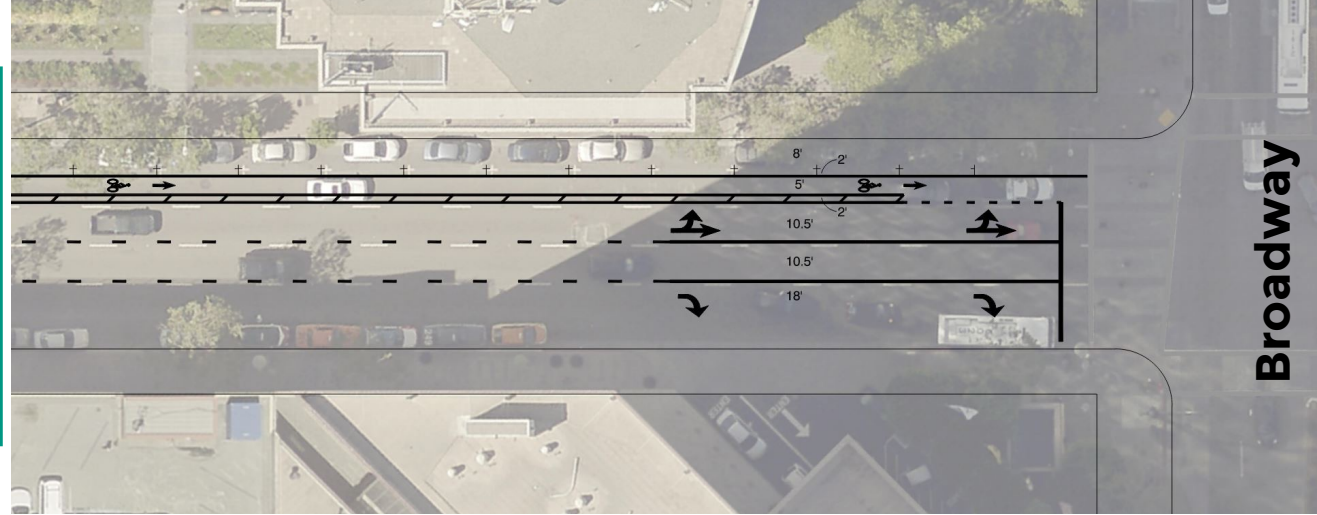


11th Street (*Clay St – Broadway*)



Match Line

Match Line

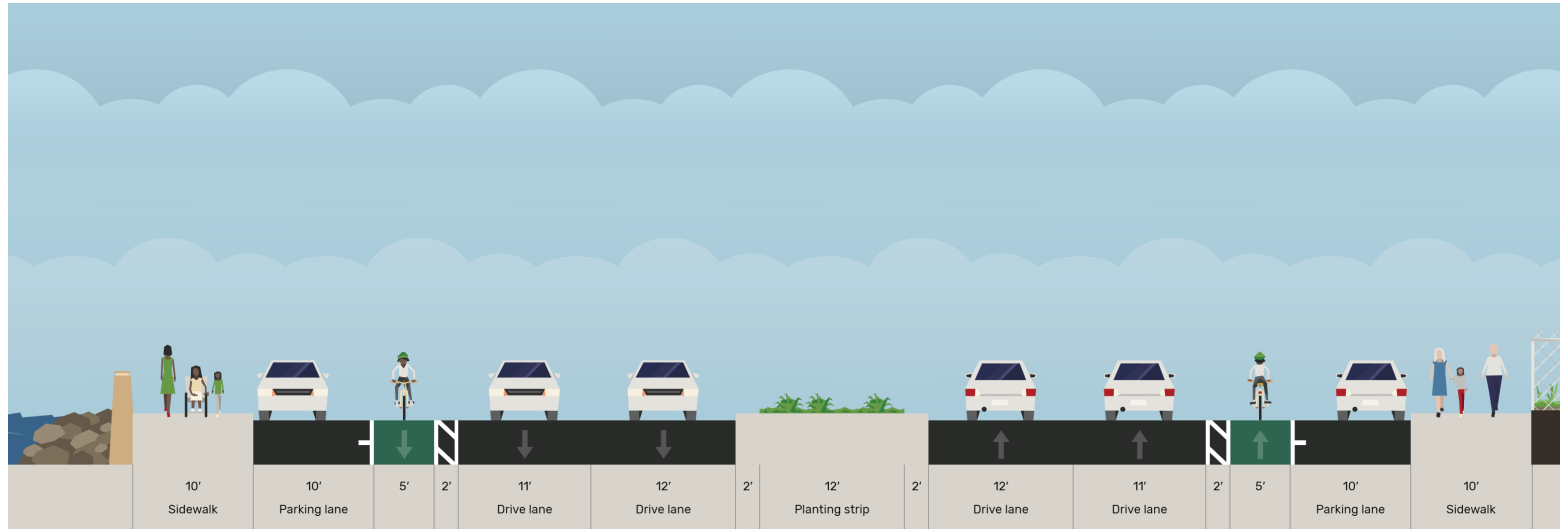


Broadway

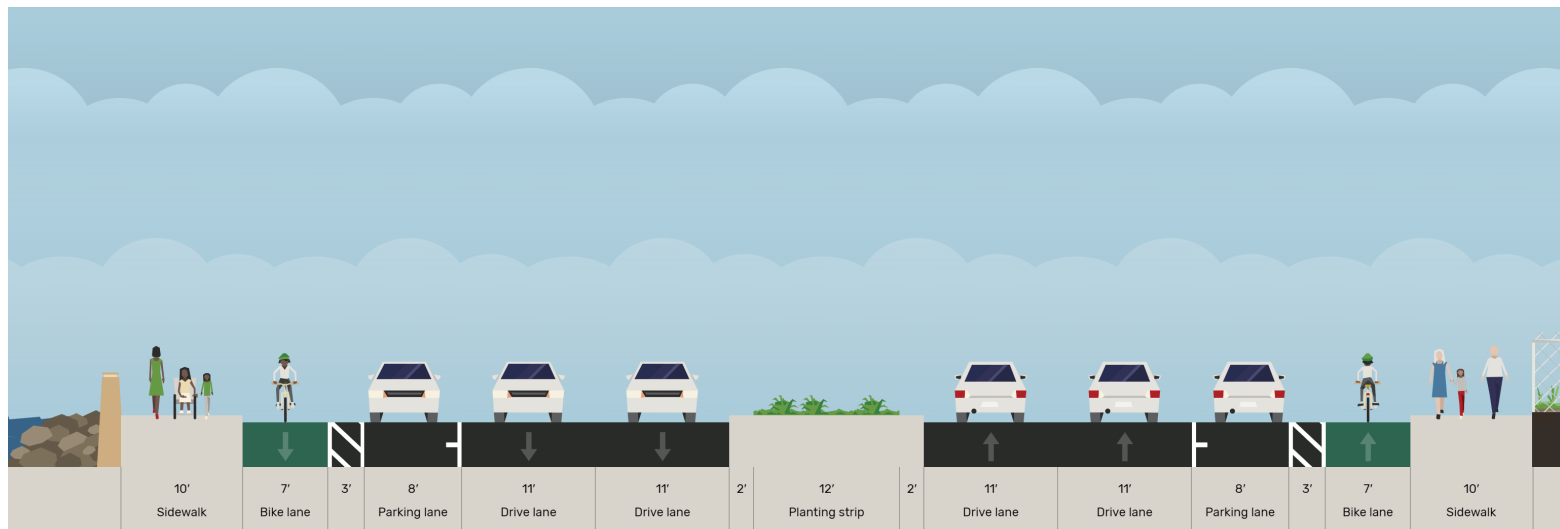


7th Street (*Fallon St – 5th Ave*)

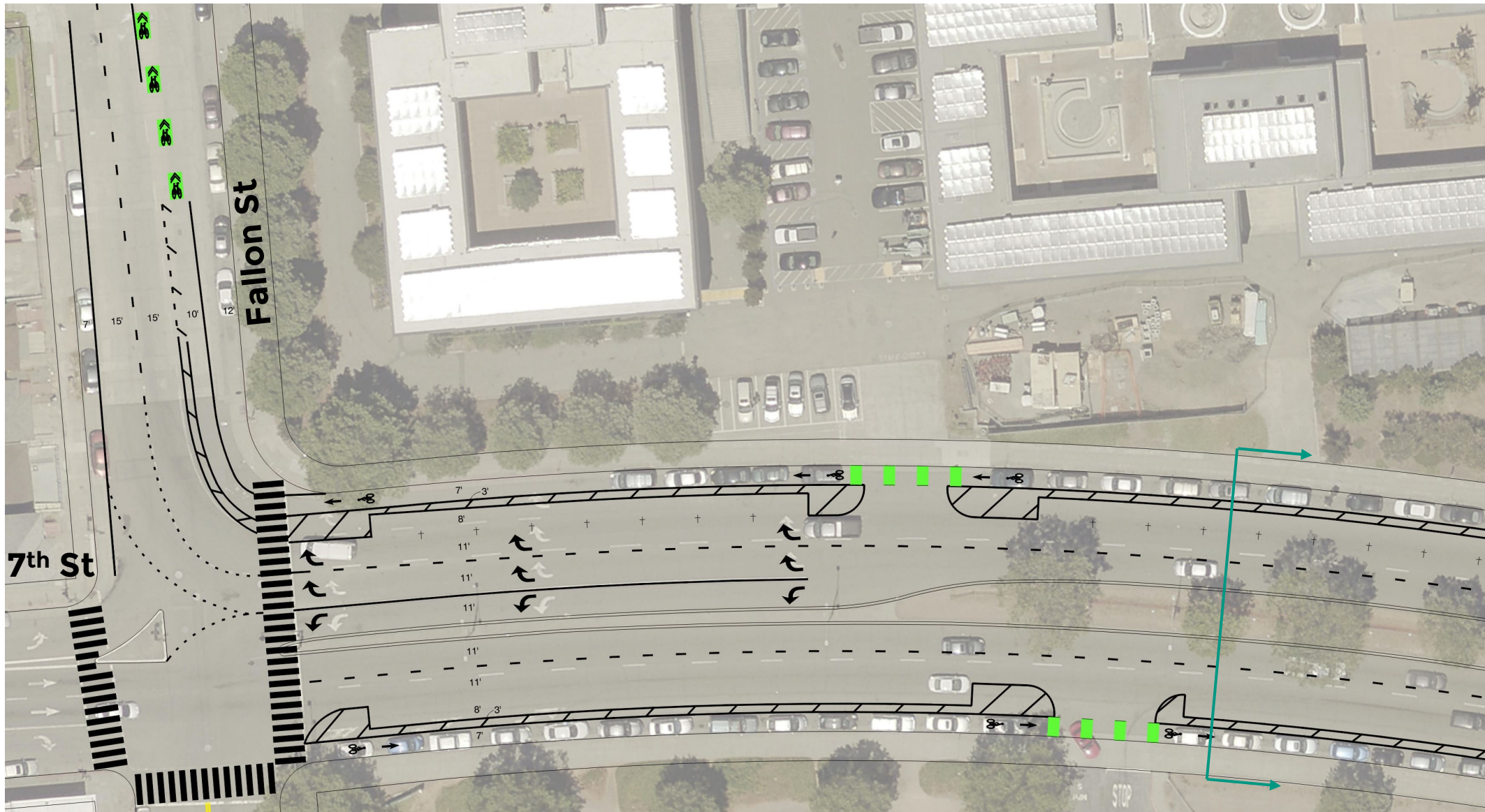
Existing:



Proposed:

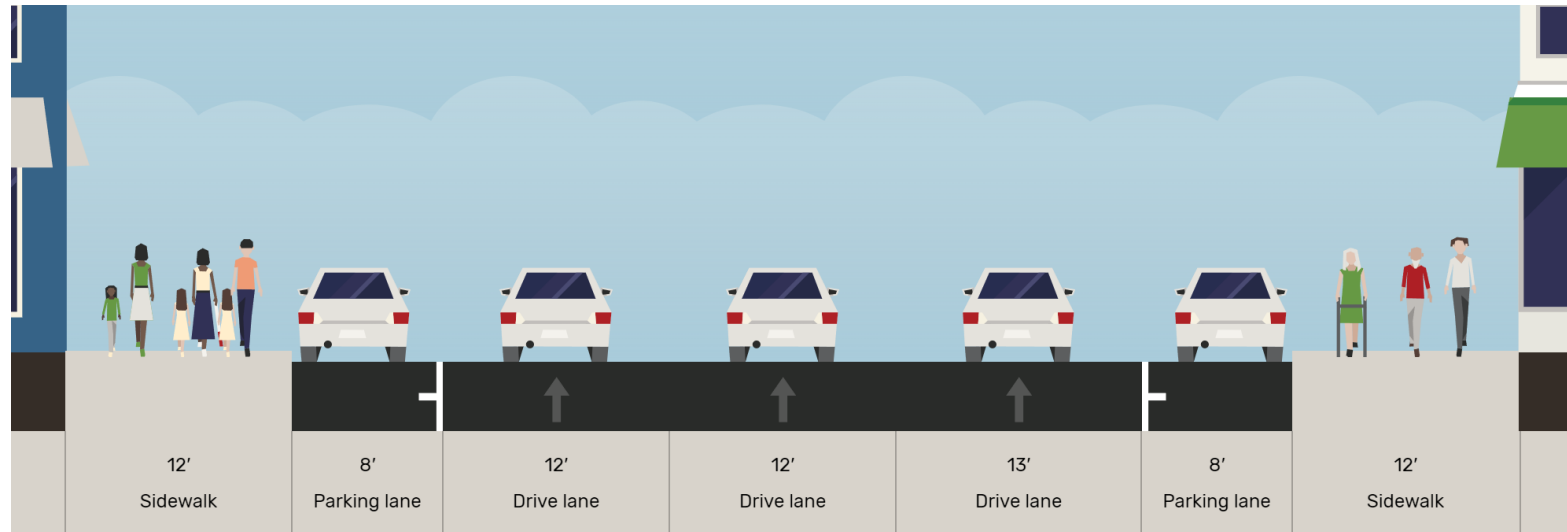


7th Street (*Fallon St – 5th Ave*)

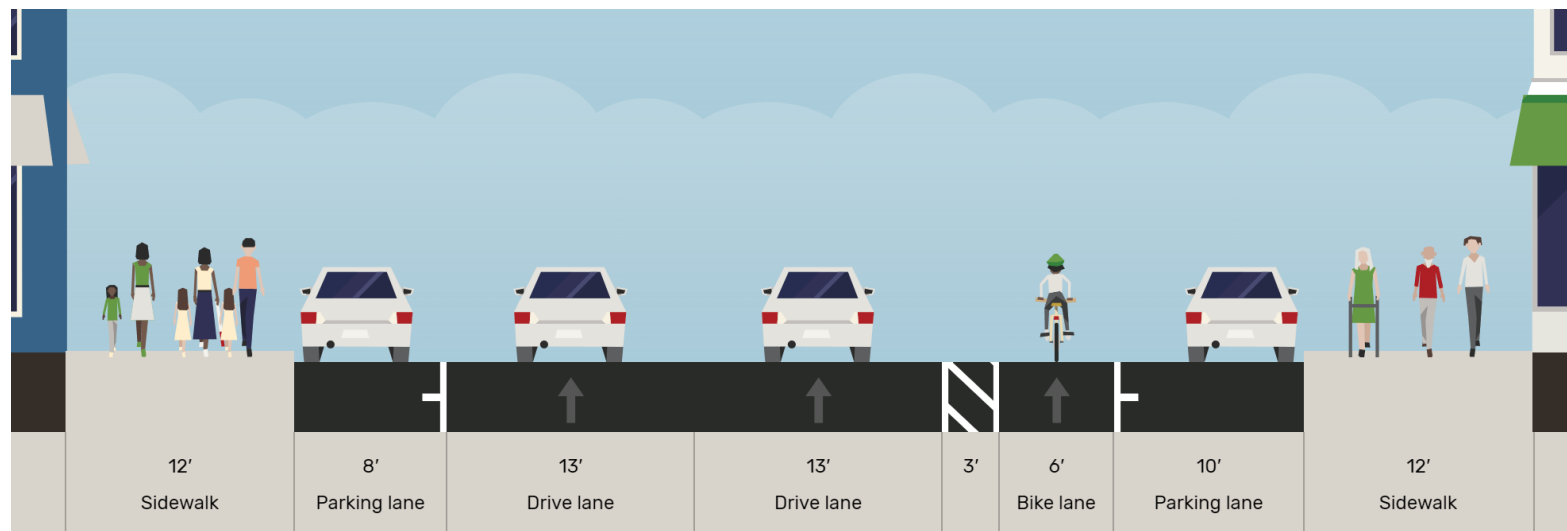


9th Street (*Webster St – Harrison St*)

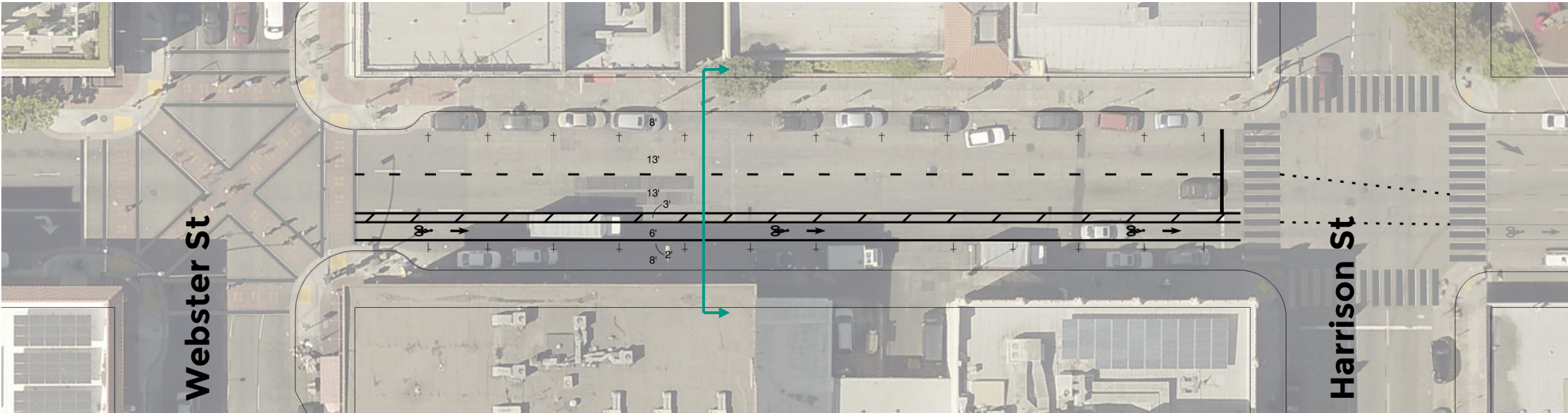
Existing:



Proposed:

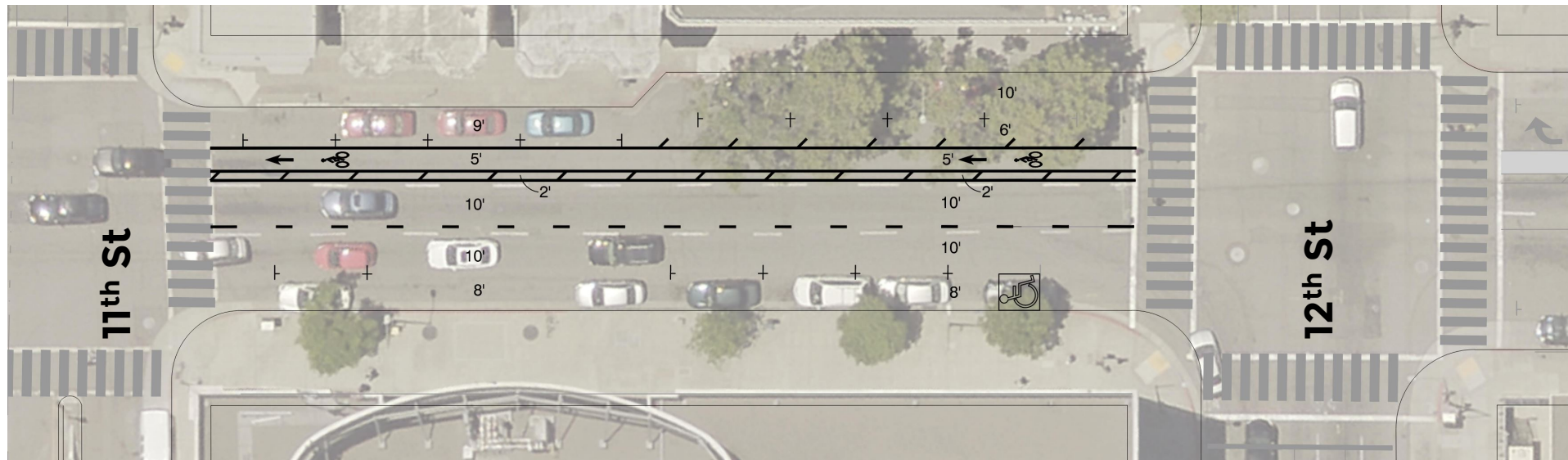
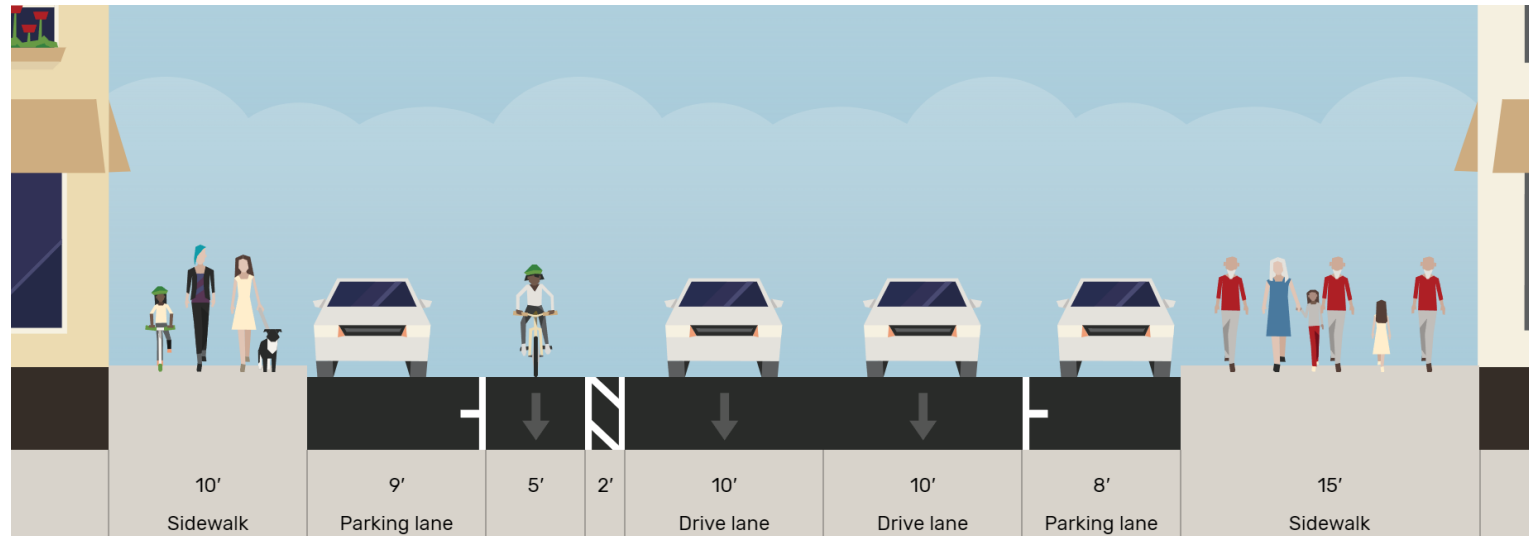


9th Street (*Webster St – Harrison St*)



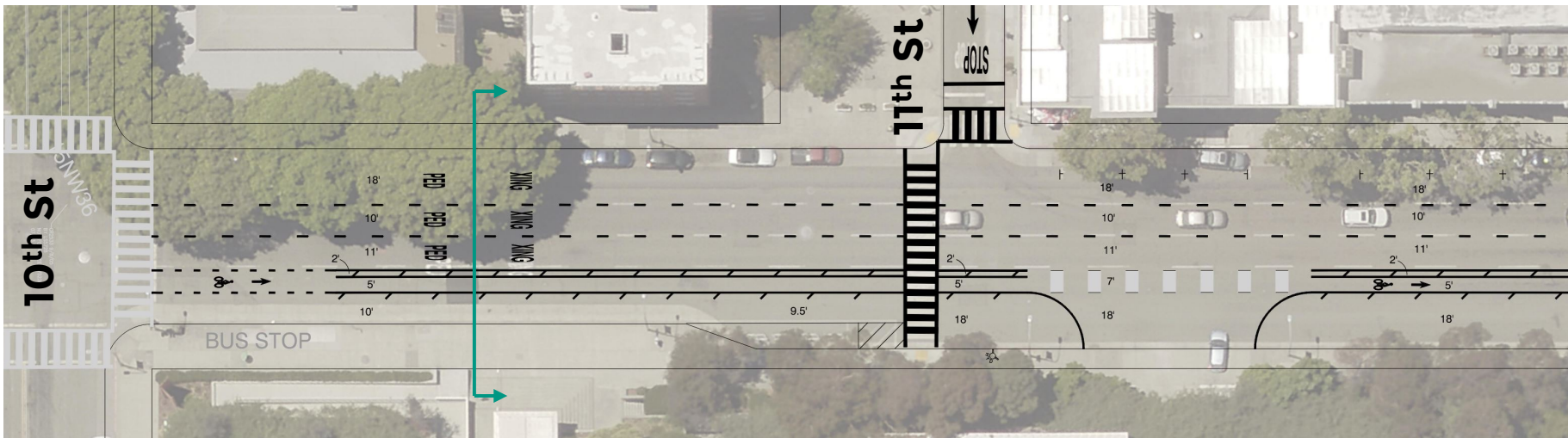
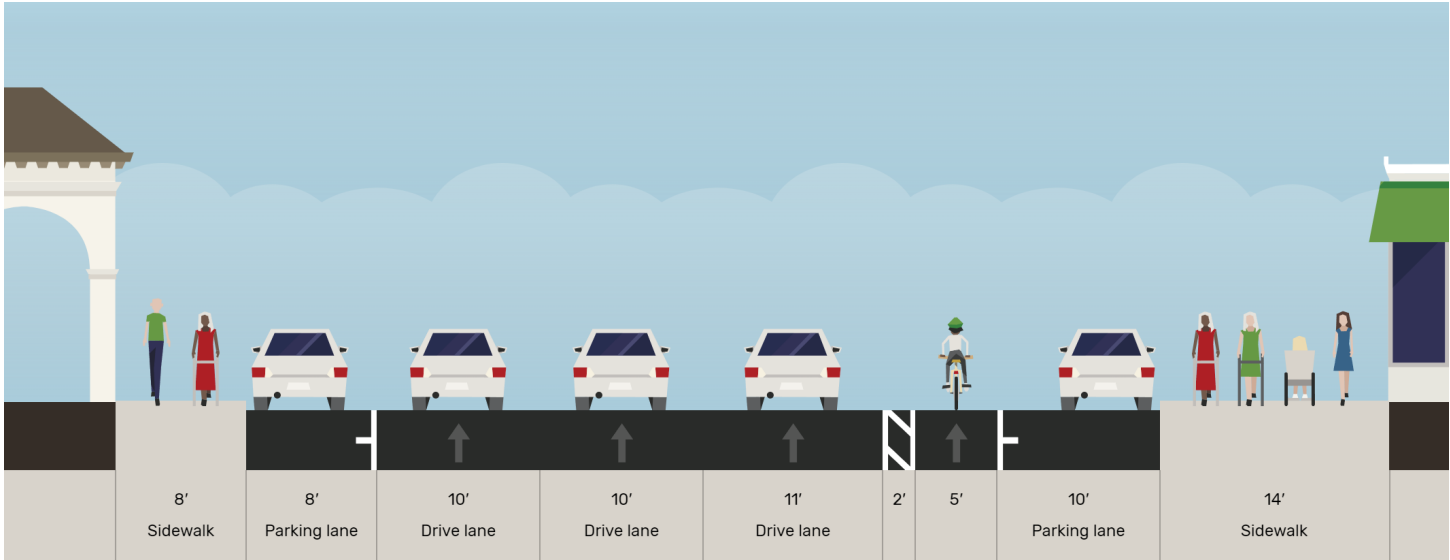
Madison Street (11th St – 12th St)

Existing:
To Remain



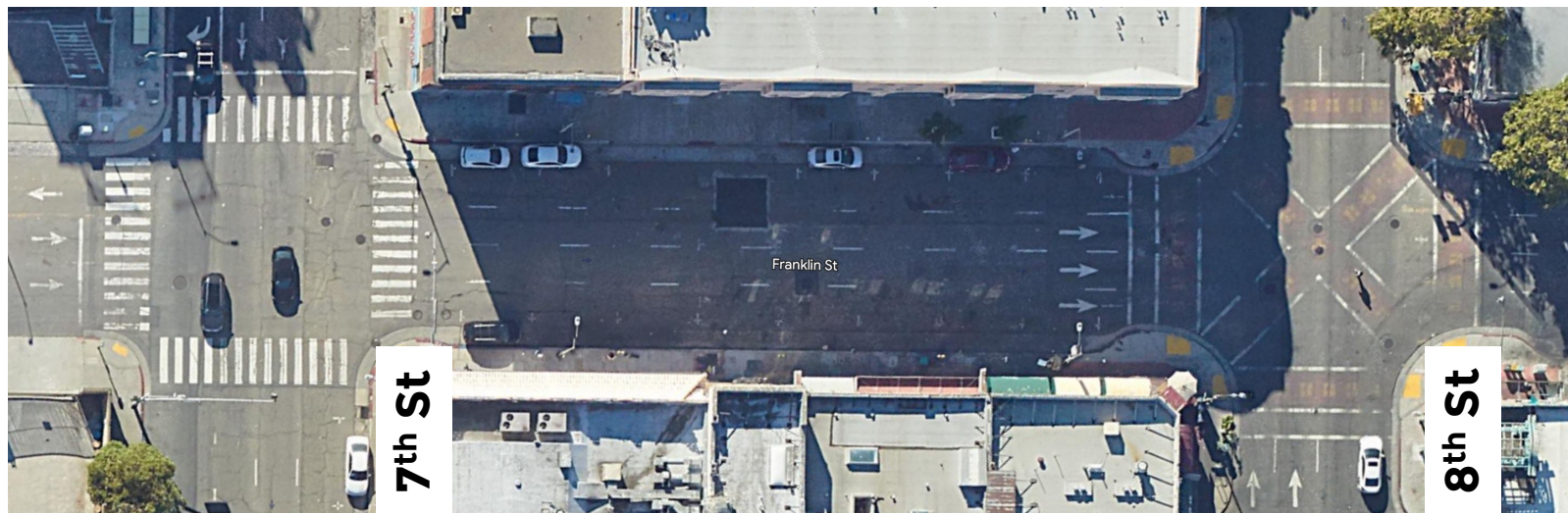
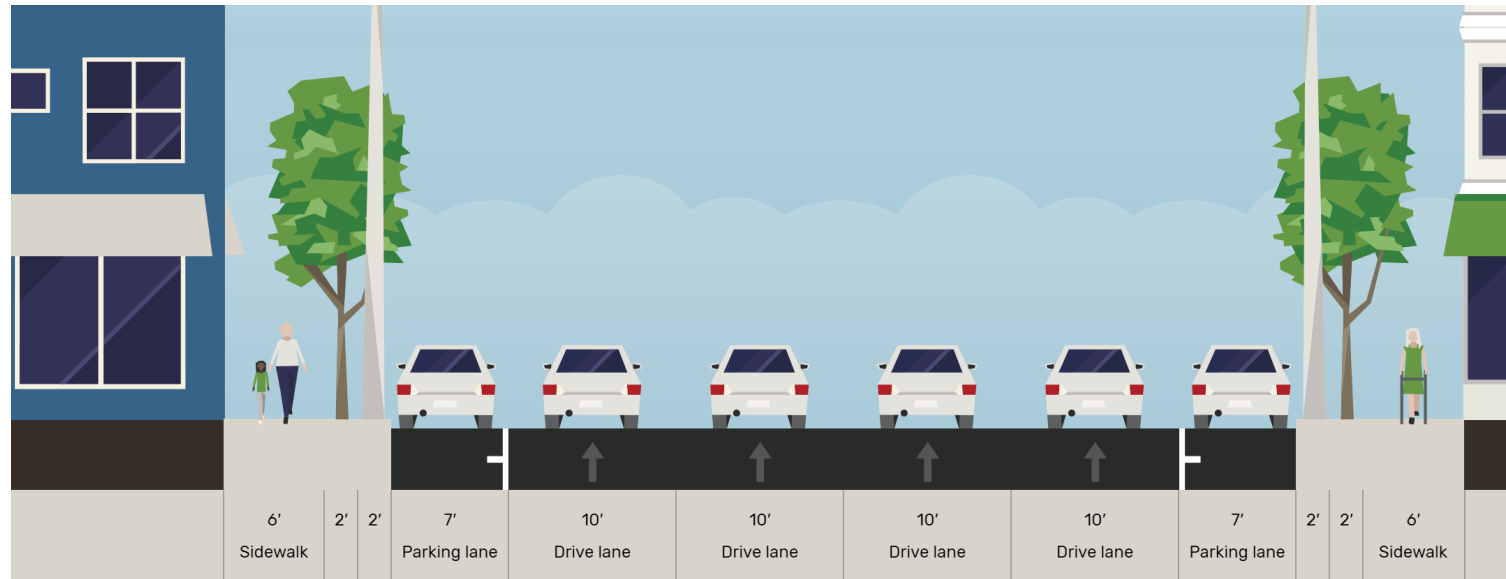
Oak Street (10th St – 13th St)

Existing: To Remain



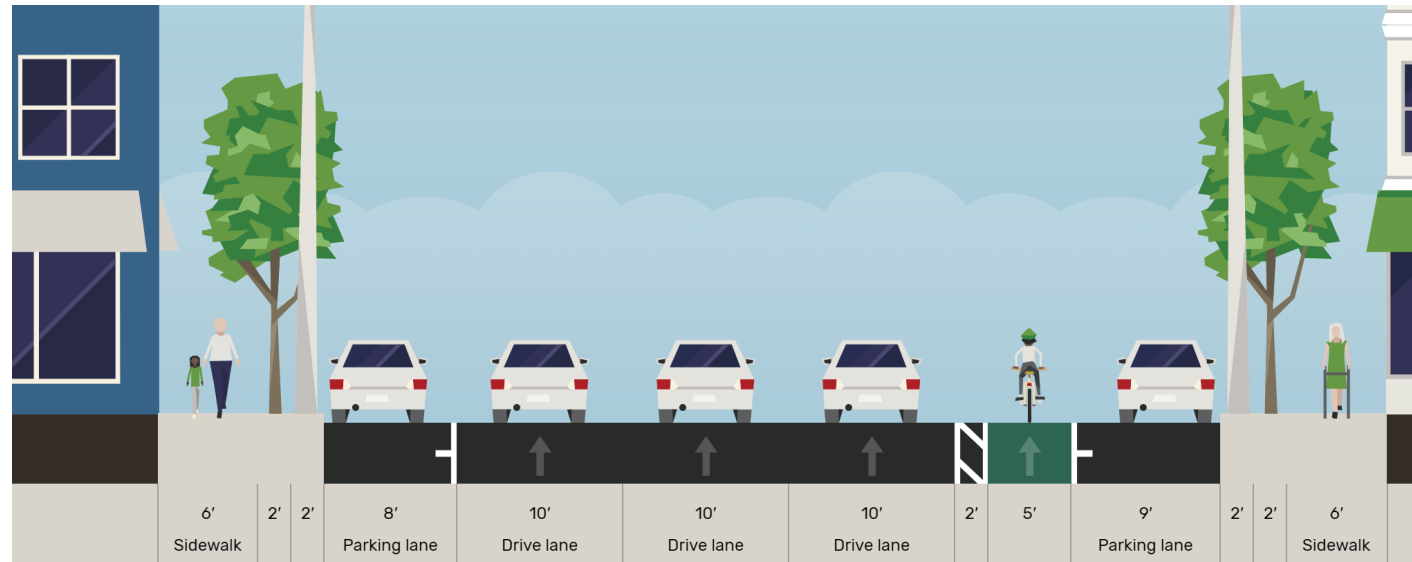
Franklin Street (6th St – 11th St)

Existing:
To Remain



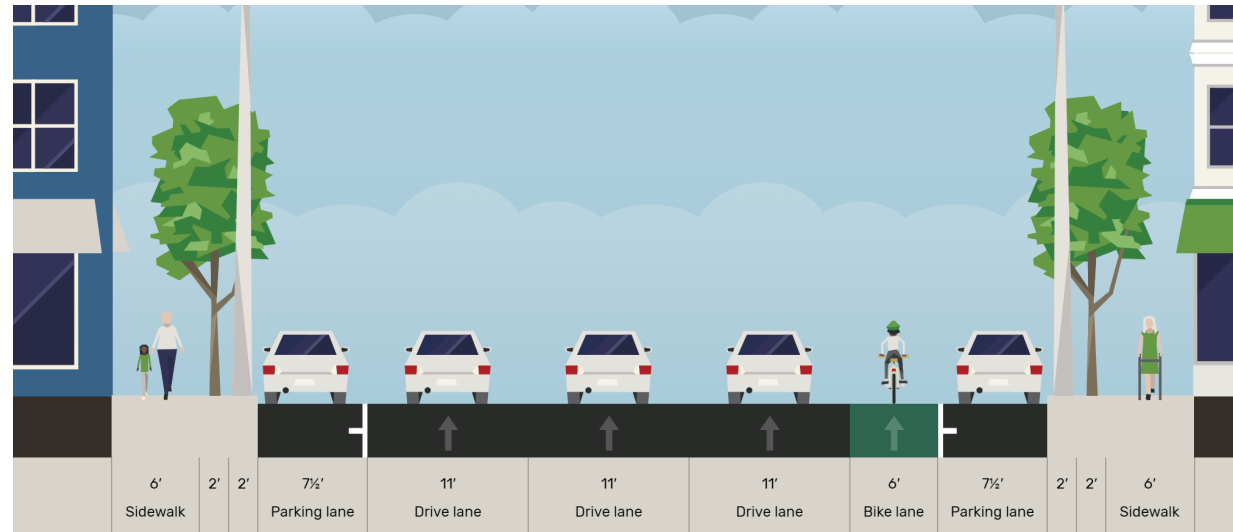
Franklin Street (11th St – 14th St)

Existing:
To Remain

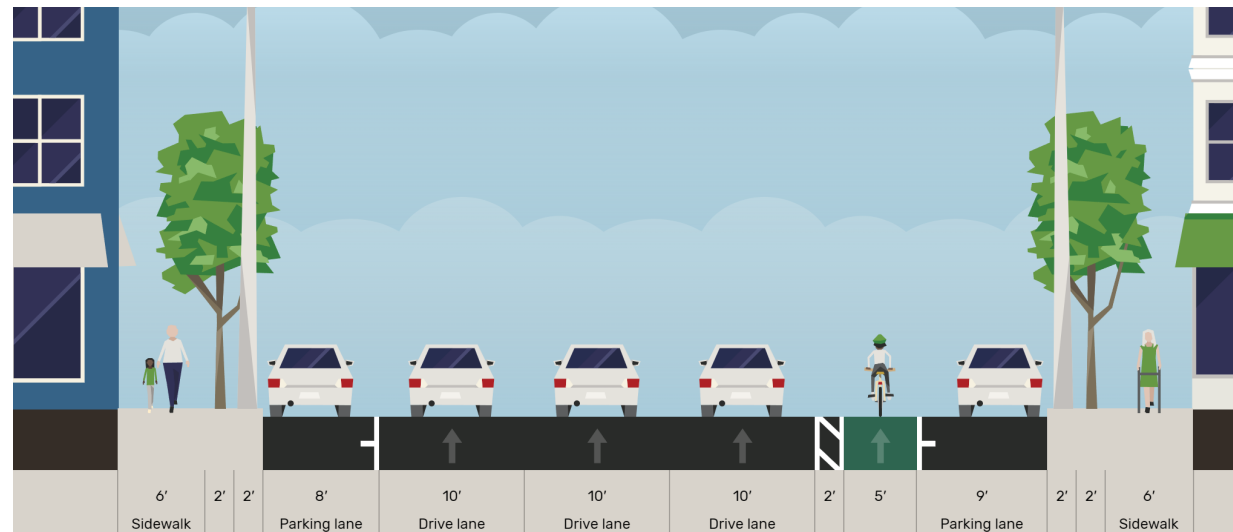


Franklin Street (14th St – 20th St)

Existing:



Proposed:

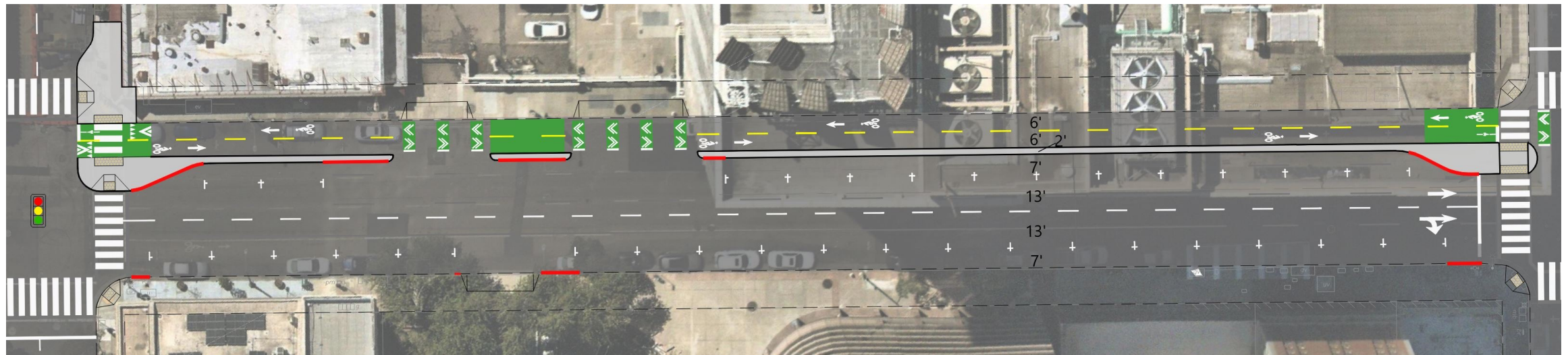
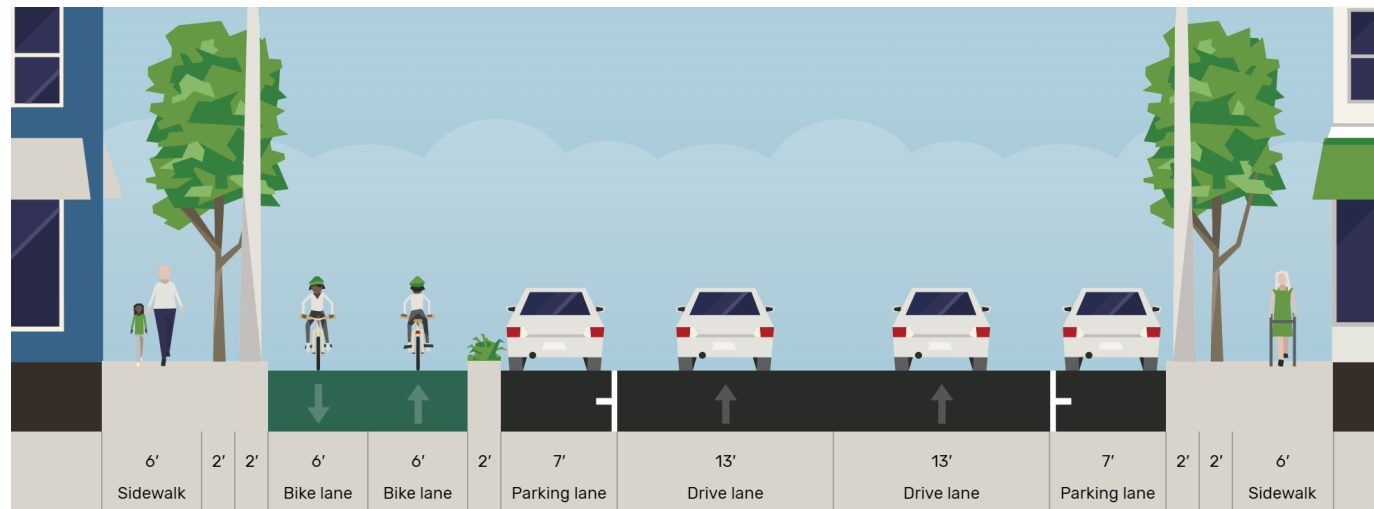


Franklin Street (14th St - 20th St)



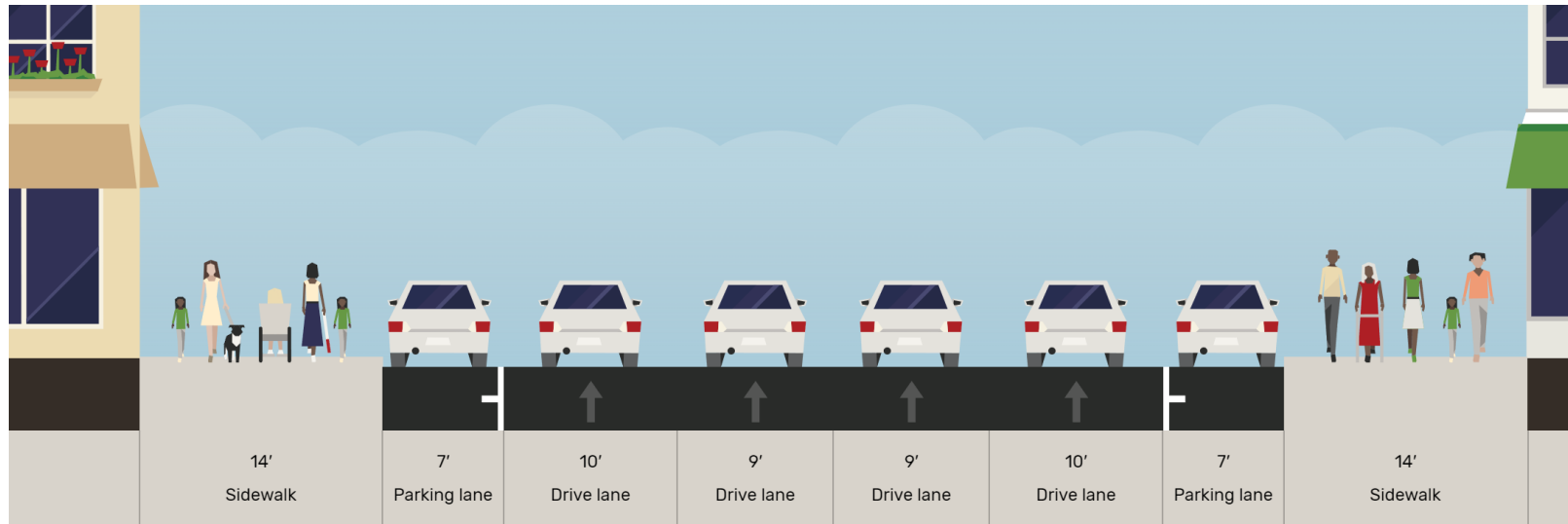
Franklin Street (17th St – 20th St)

Future
Concept:

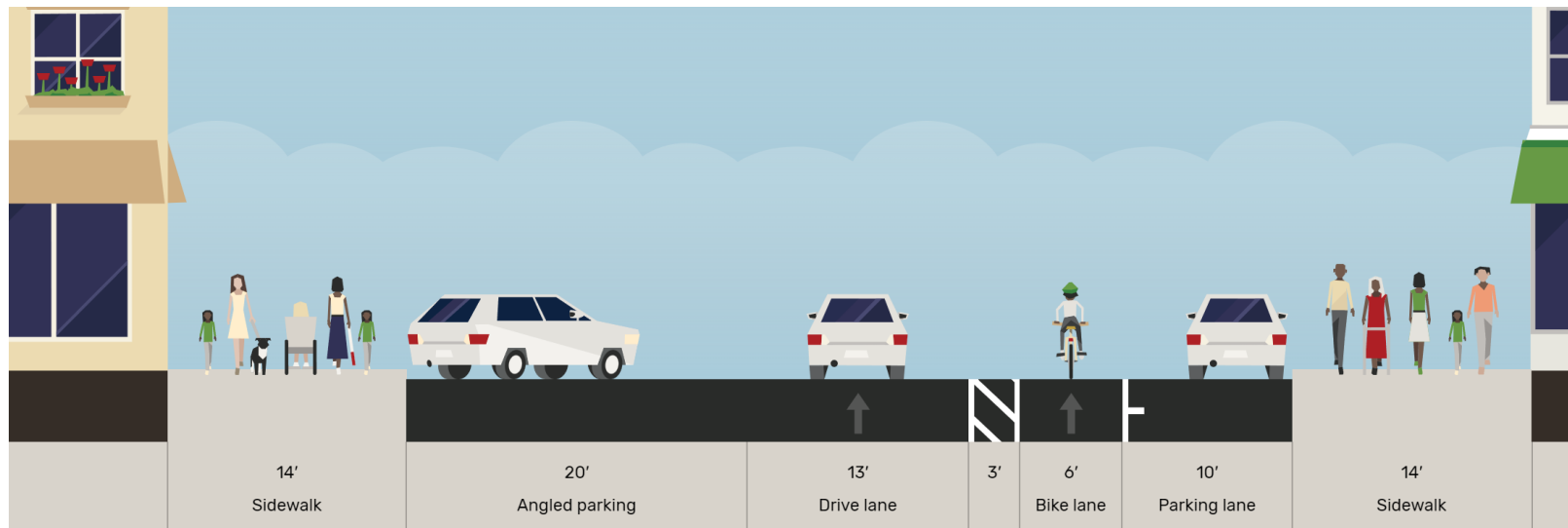


13th Street (*Franklin St – Fallon St*)

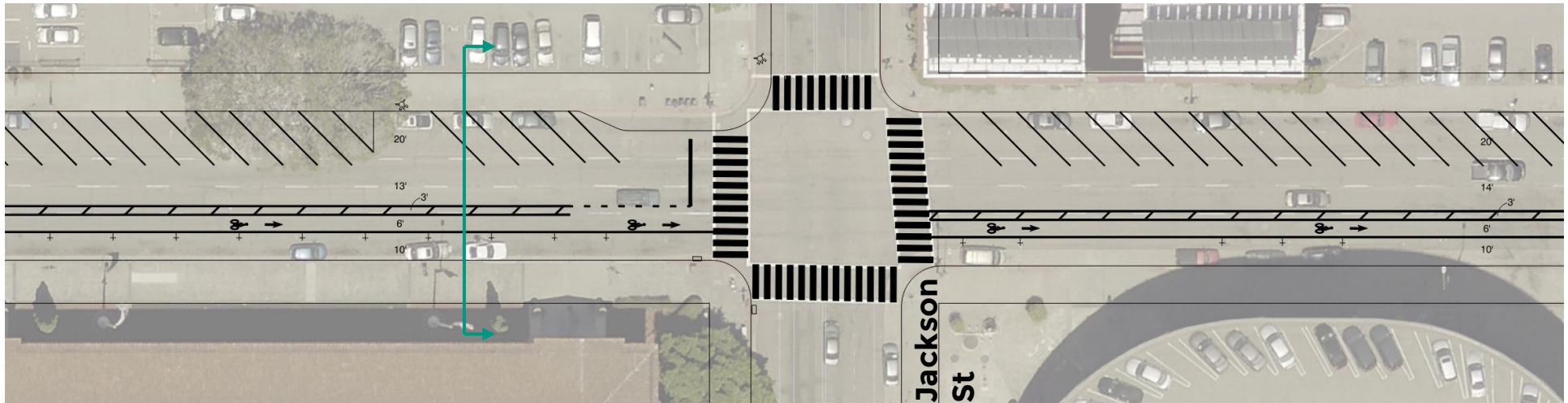
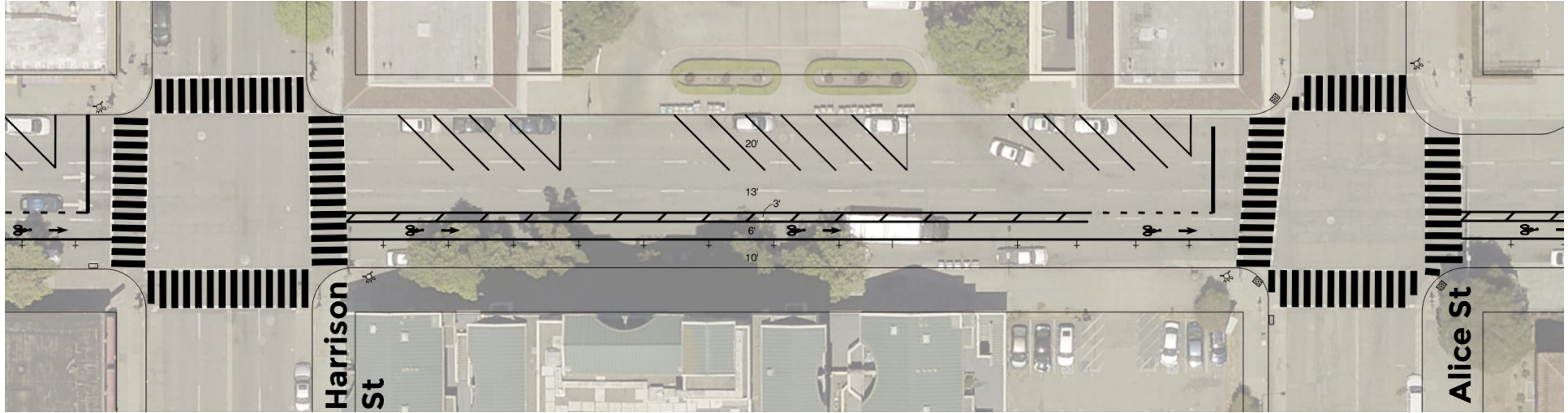
Existing:



Proposed:



13th Street (*Franklin St – Fallon St*)





BROADWAY STREETSCAPE IMPROVEMENTS

BPAC Infrastructure Committee 9.7.2023



MARTIN LUTHER KING JR. WAY STREETSCAPE IMPROVEMENTS



CITY OF
OAKLAND

DEPARTMENT OF
TRANSPORTATION

PURPOSE OF OUR PRESENTATION:

To provide a summary of engagement, what was heard, and present the current designs of the MLK Jr. Way and Broadway Streetscape Improvement projects.

OUTLINE

1. Project background
2. Summary of engagement to date
3. Broadway designs
4. MLK Jr. Way designs
5. Q & A



PROJECT LOCATIONS

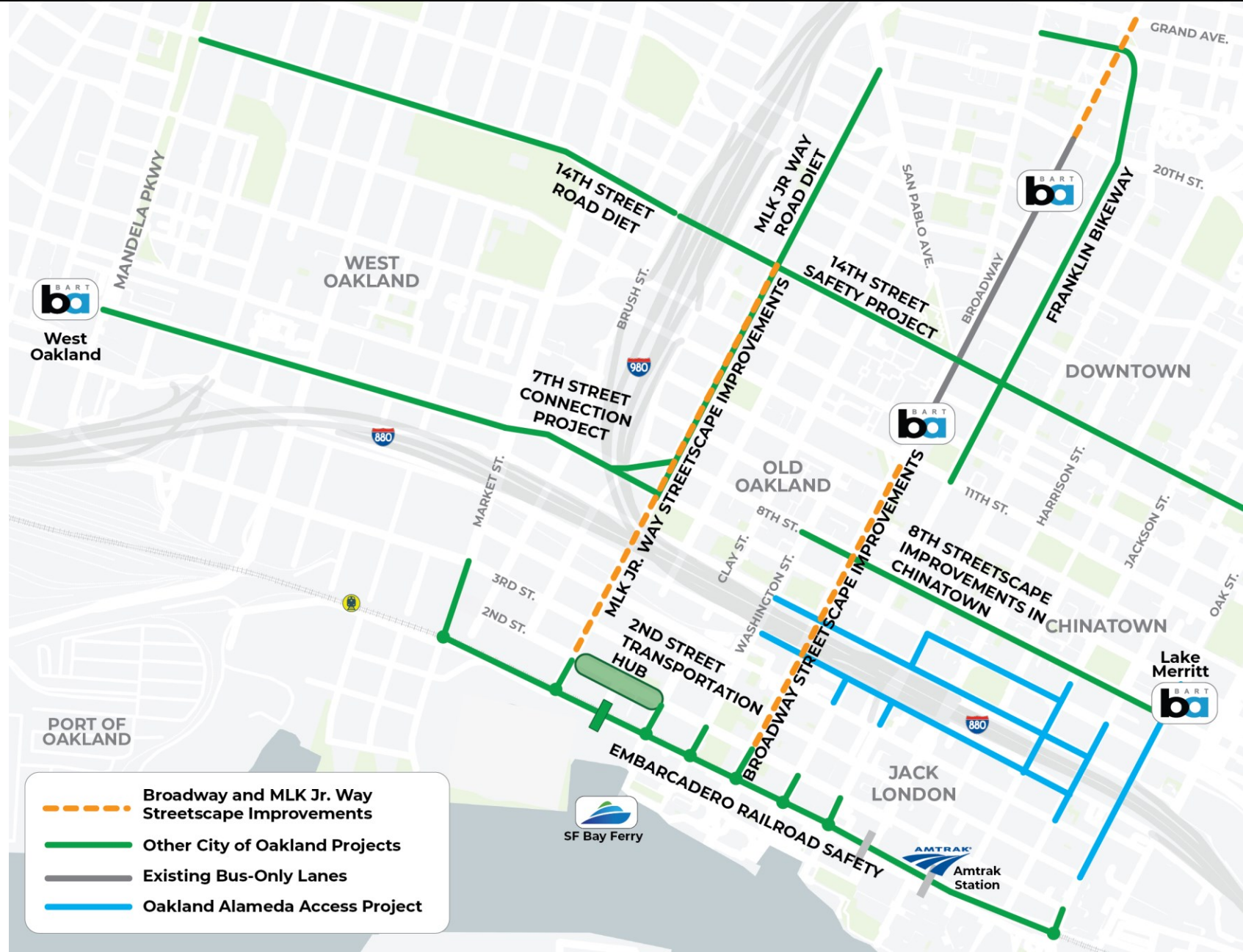
The Broadway Streetscape Improvements project is located on **Broadway** from **2nd Street** to **11th Street** and from **20th Street** to **Grand Avenue**.

The Martin Luther King Jr. Way Streetscape Improvements project is located on **Martin Luther King, Jr. Way** from **2nd Street** to **14th Street**.



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OAKLAND

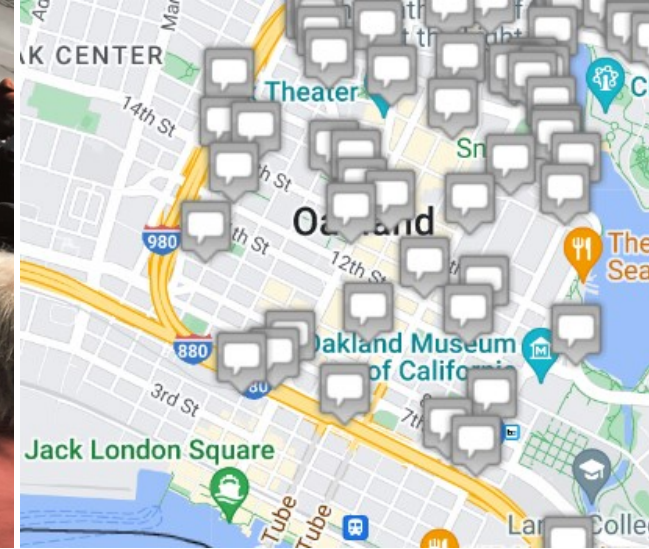
DEPARTMENT OF
TRANSPORTATION



PREVIOUS ENGAGEMENT

Several plans and programs have called for improvements on Broadway and MLK Jr. Way:

- 2017 Pedestrian Plan
- 2019 Bike Plan
- Downtown Oakland Specific Plan
- Transit Action Strategy
- Howard Terminal Transportation Plan
- West Oakland Specific Plan
- Capital Improvement Program
- 2014 Measure BB TEP
- Broadway Transit Circulator Study

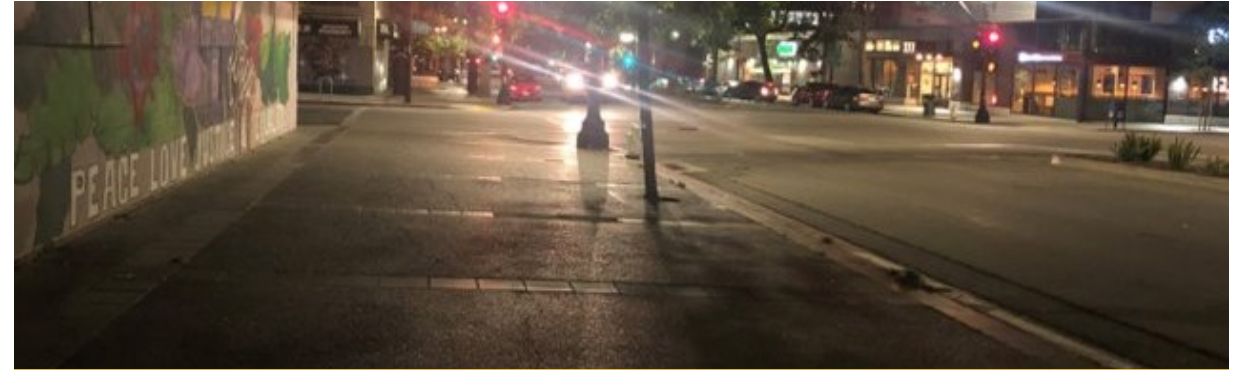


PREVIOUS ENGAGEMENT: **BROADWAY**

Through years of engagement, several key themes have emerged



Underpass needs improvement!



High speeds and low lighting make people feel unsafe while walking



Crossings near I-880 are dangerous

PREVIOUS ENGAGEMENT: **MLK Jr. Way**

Through years of engagement, key themes have emerged



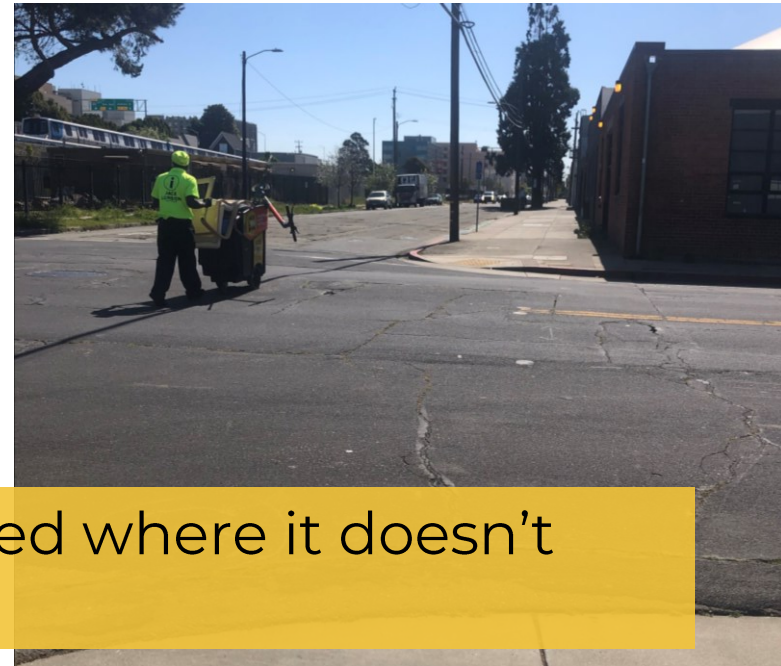
Sidewalks are too narrow



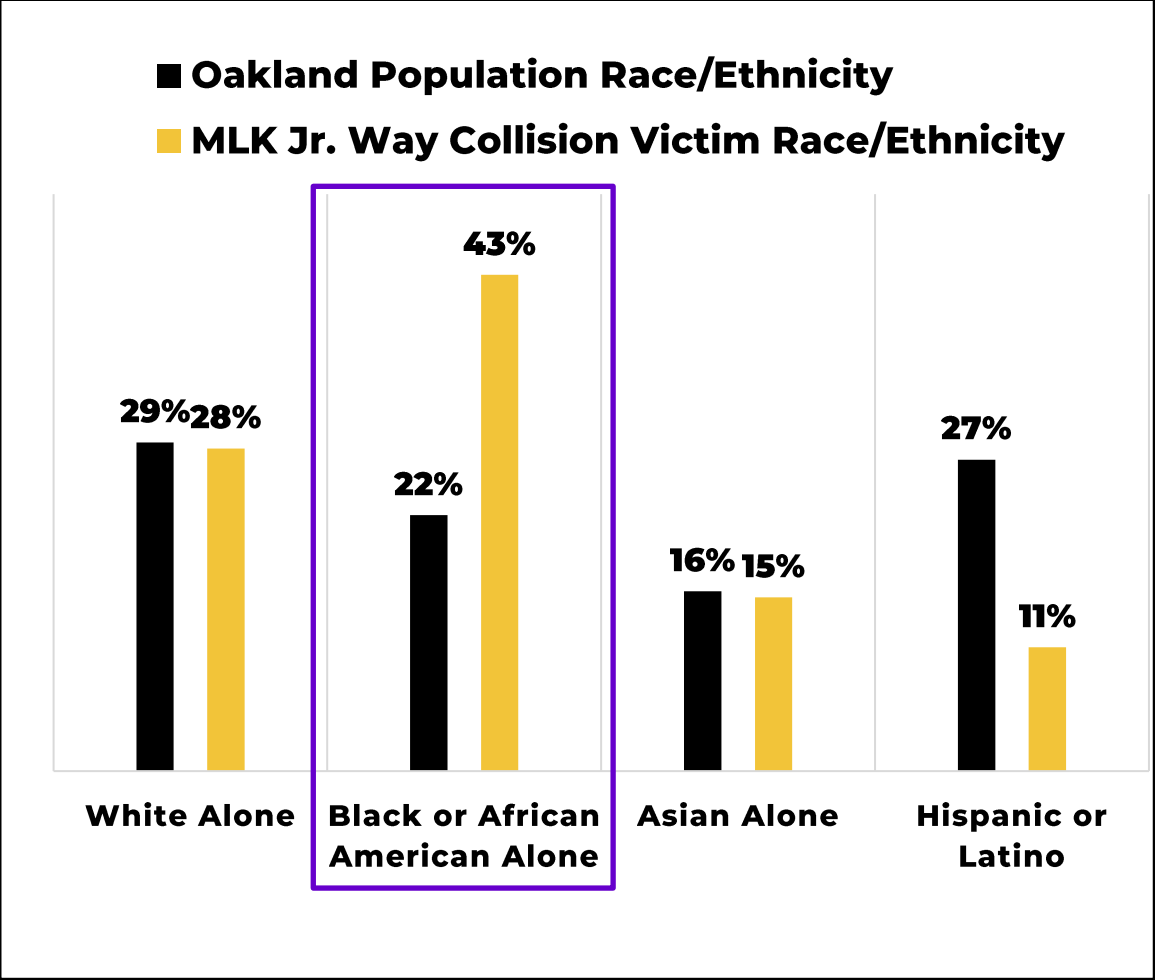
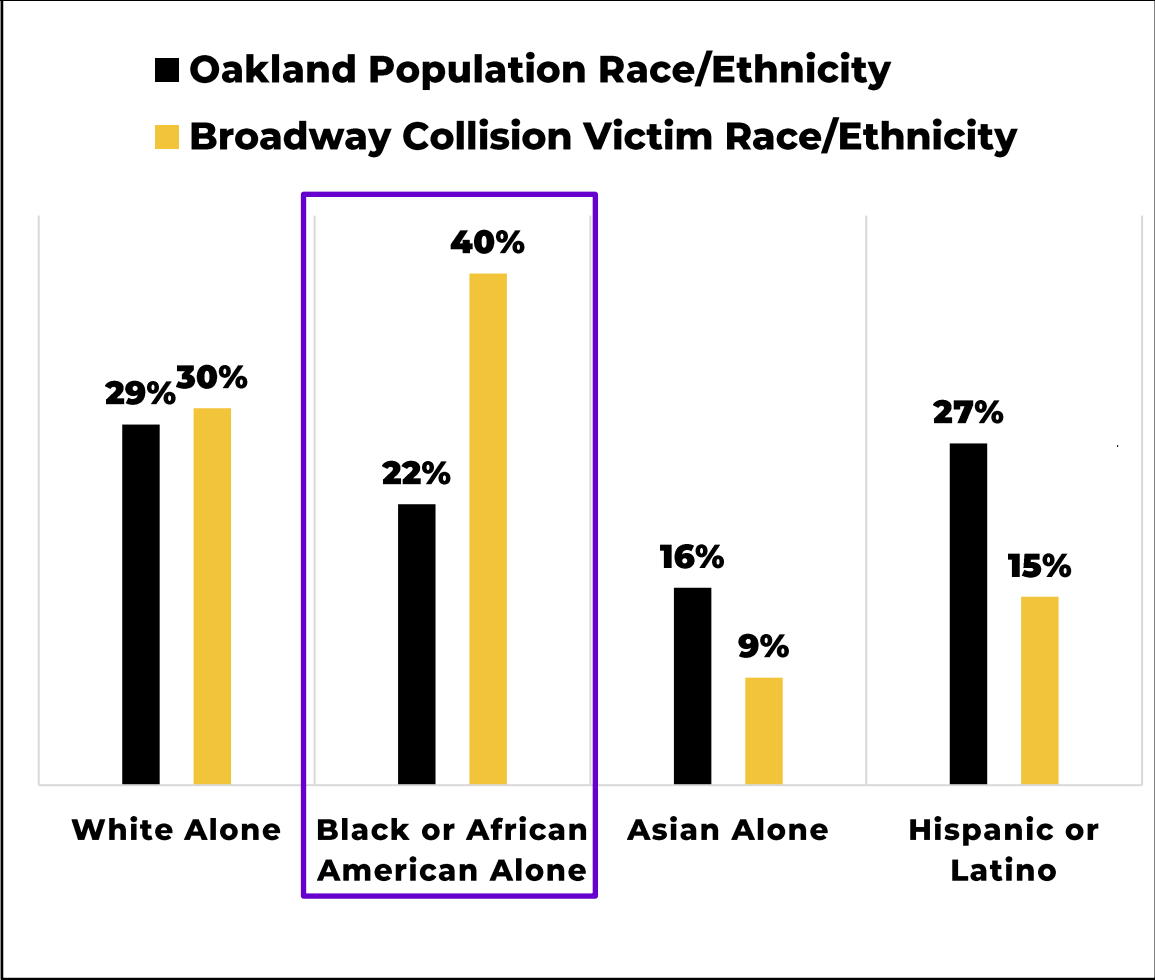
Pedestrian countdowns are needed at traffic signals



Crosswalk striping is needed where it doesn't exist today



Race/ethnicity of collision victims compared to Oakland population race/ethnicity



SUMMER 2023 ENGAGEMENT

ONLINE SURVEY

- Surveys for both projects open for 6 weeks and publicized in a variety of ways.
- Available in Spanish, Chinese, and English

OTHER ENGAGEMENT

- Postcard mailing to 3000+ addresses along and near MLK project corridor
- Briefings
- Paper survey distribution (Family Bridges, Harrison Street Senior Housing)
- Posters in bus shelters and traffic signal boxes along corridor

IN-PERSON EVENTS

- Old Oakland Farmers' Market
- Old Oakland Neighbors' meeting
- Jack London Improvement District Board of Directors meeting
- Mayor's Commission on Aging
- Mayor's Commission on Persons with Disabilities
- Walked each corridor and talked to businesses and organizations
- Quarterly BID walks

DIGITAL ENGAGEMENT

- Newsletters
- Email blasts
- Social media posts (OakDOT twitter, City of Oakland twitter, etc.)

SUMMER 2023 ENGAGEMENT

What are your priorities for traveling to and along the corridor?

(Select up to 5 priorities)

- Bicycle access and safety
- Pedestrian safety
- Urban greening (such as street trees)
- Public art
- Traffic calming (i.e., designing improvements to reduce the speed of cars)
- Improving accessibility for people with disabilities
- Safer, secure, and more readily available parking
- Bus reliability
- Improve amenities at bus stops
- Reducing delays for people who drive
- Freeway underpass improvements
- More loading zones
- Other, please describe:_____

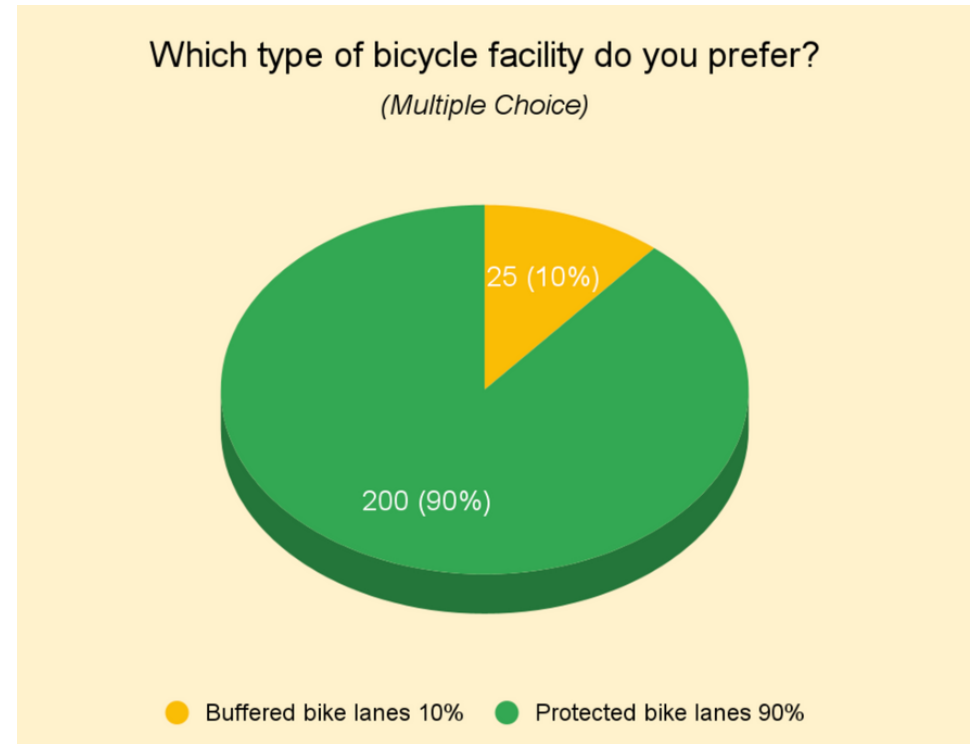
SUMMER 2023 ENGAGEMENT:

MLK Jr. Way Streetscape Improvements (227 responses)

Top 5 Priorities

1. Pedestrian safety
2. Bicycle access and safety
3. Traffic calming (i.e., designing improvements to reduce the speed of cars)
4. Urban greening (such as street trees)
5. Freeway underpass improvements

Preferred Bike Facility



About 90% prefer protected bike lanes over buffered bike lanes.

SUMMER 2023 ENGAGEMENT:

Broadway Streetscape Improvements (521 responses)

Top 5 Priorities

1. Pedestrian safety
2. Bicycle access and safety
3. Urban greening (such as street trees)
4. Traffic calming (i.e., designing improvements to reduce the speed of cars)
5. Freeway underpass improvements

Top 5 Project Elements

1. High visibility crosswalks
2. Bus only lanes
3. Protected left turns
4. Bulb-outs
5. Removing the curved right-turn lane at Broadway and 6th Street

For both projects, pedestrian safety was the #1 priority.

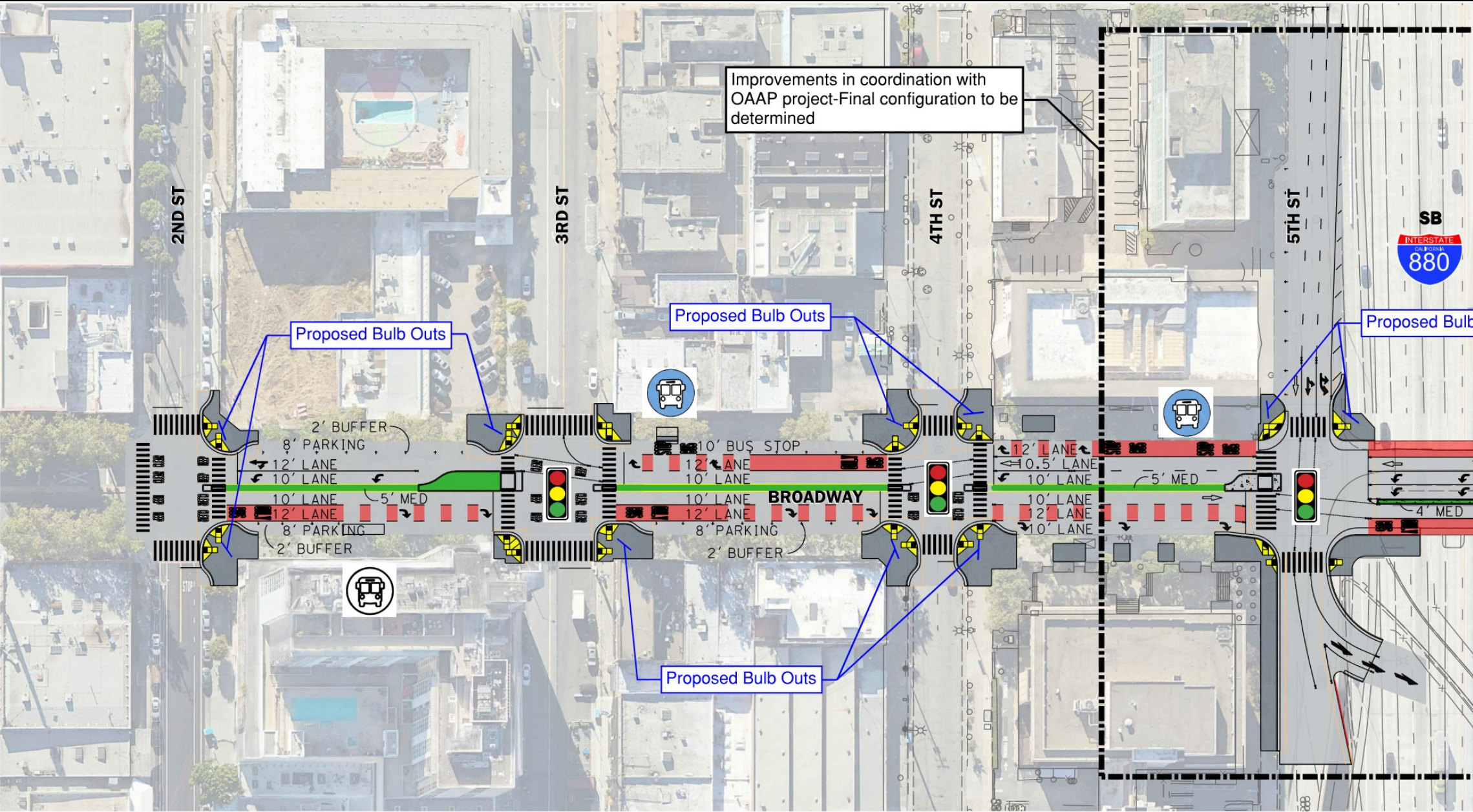
SUMMER 2023 ENGAGEMENT: Other Key Takeaways

Please tell us which aspects of the project you are most excited about?

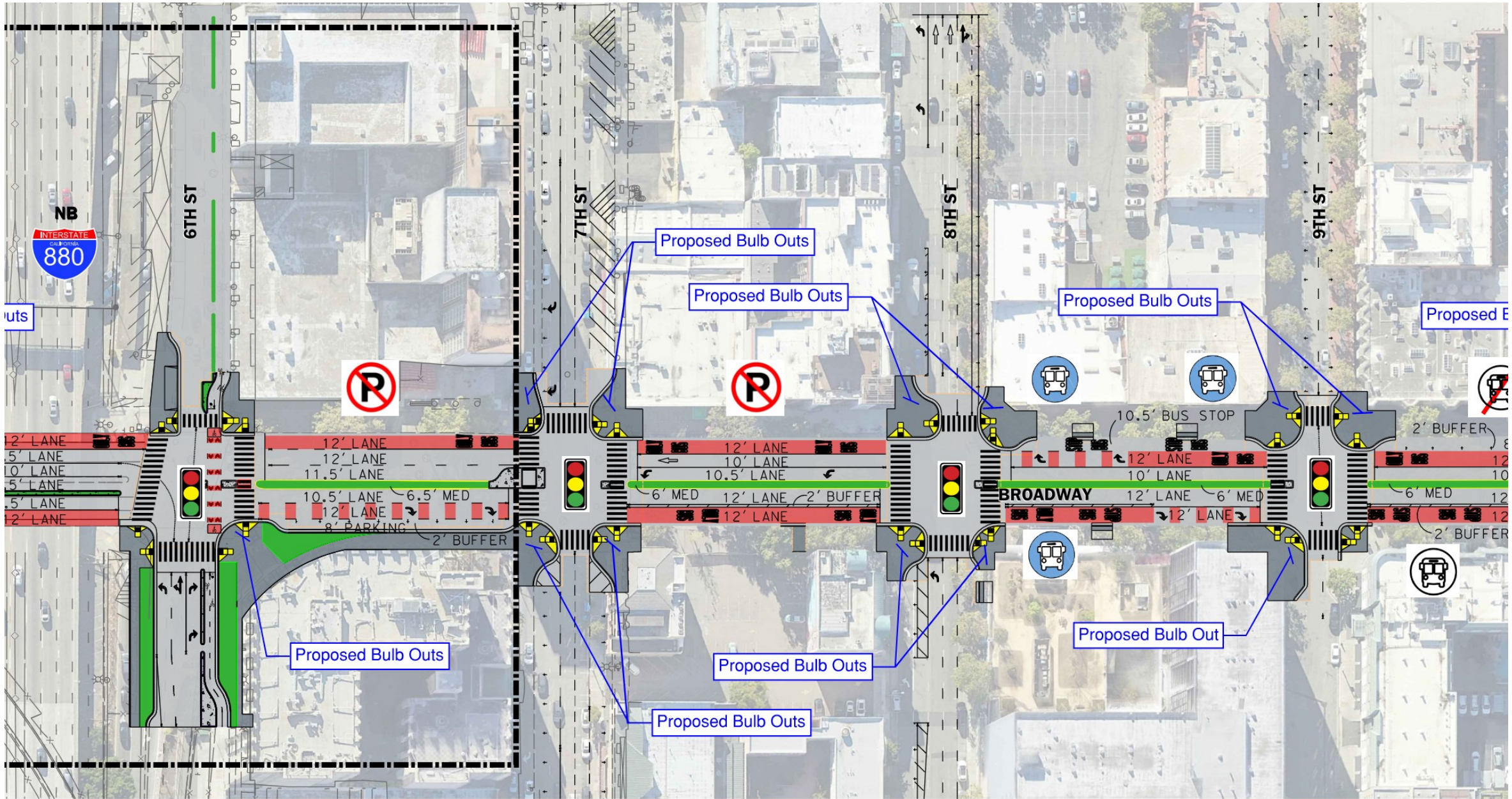
(Respondents who identified as having a disability)

Broadway Streetscape Improvements <i>(Top 3 project elements)</i>	MLK Jr. Way Streetscape Improvements <i>(Top 3 project elements)</i>
<ul style="list-style-type: none">• High visibility crosswalks• Curb ramps• Upgrades to traffic signals	<ul style="list-style-type: none">• Pedestrian lighting• New street trees• High visibility crosswalks

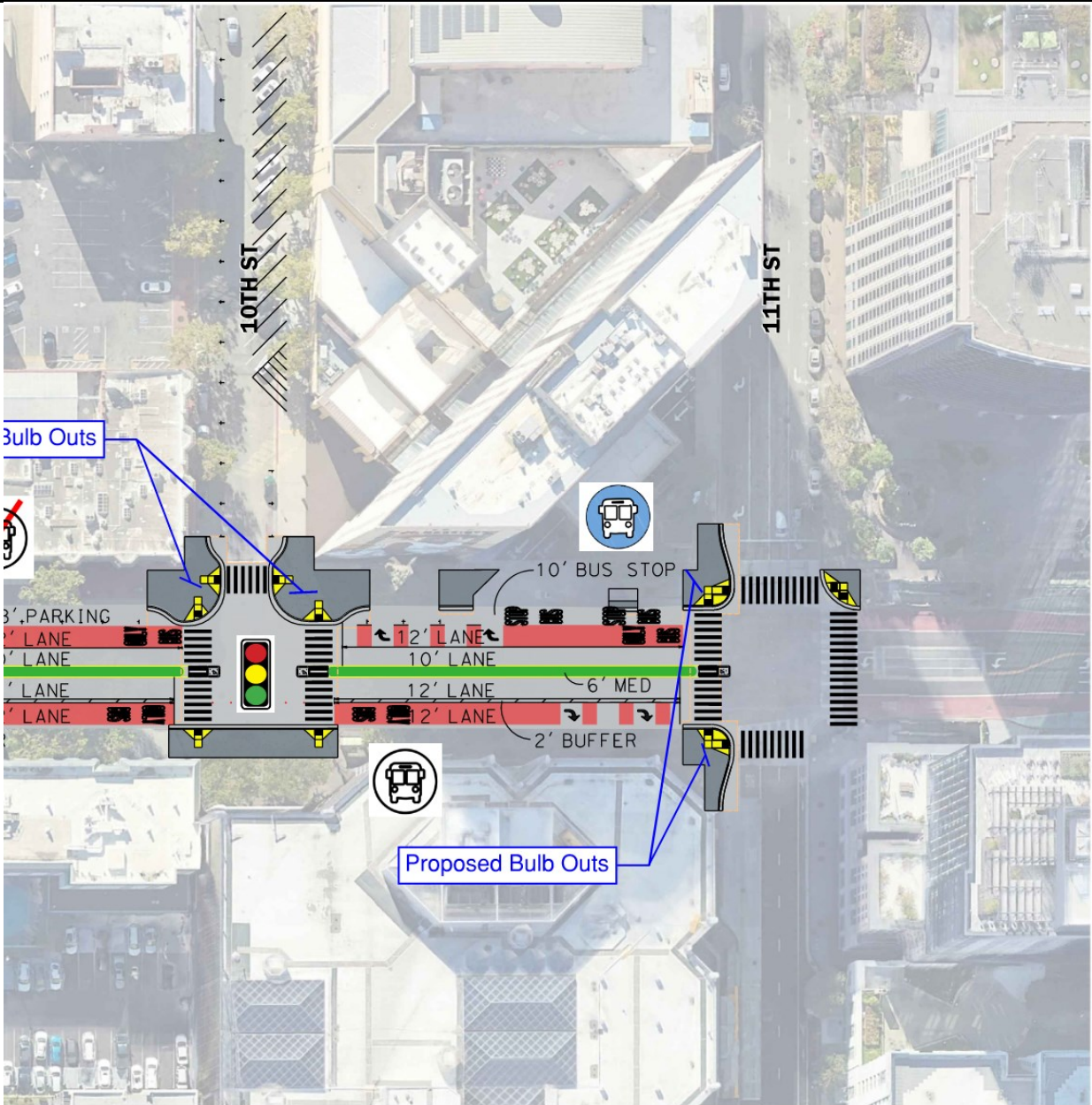
BROADWAY: Conceptual Plans



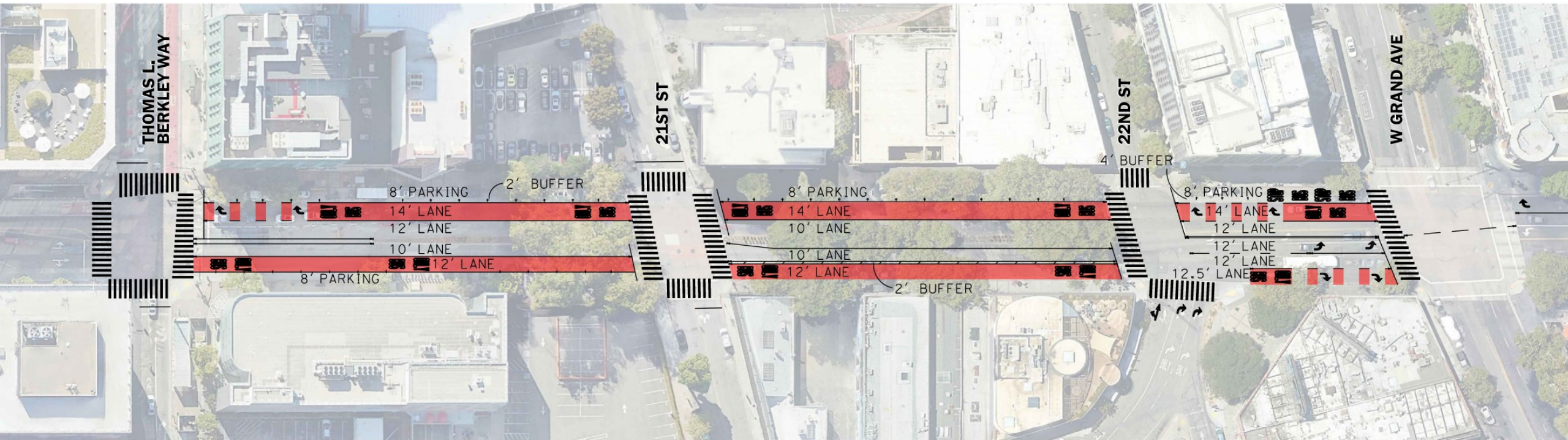
BROADWAY: Conceptual Plans



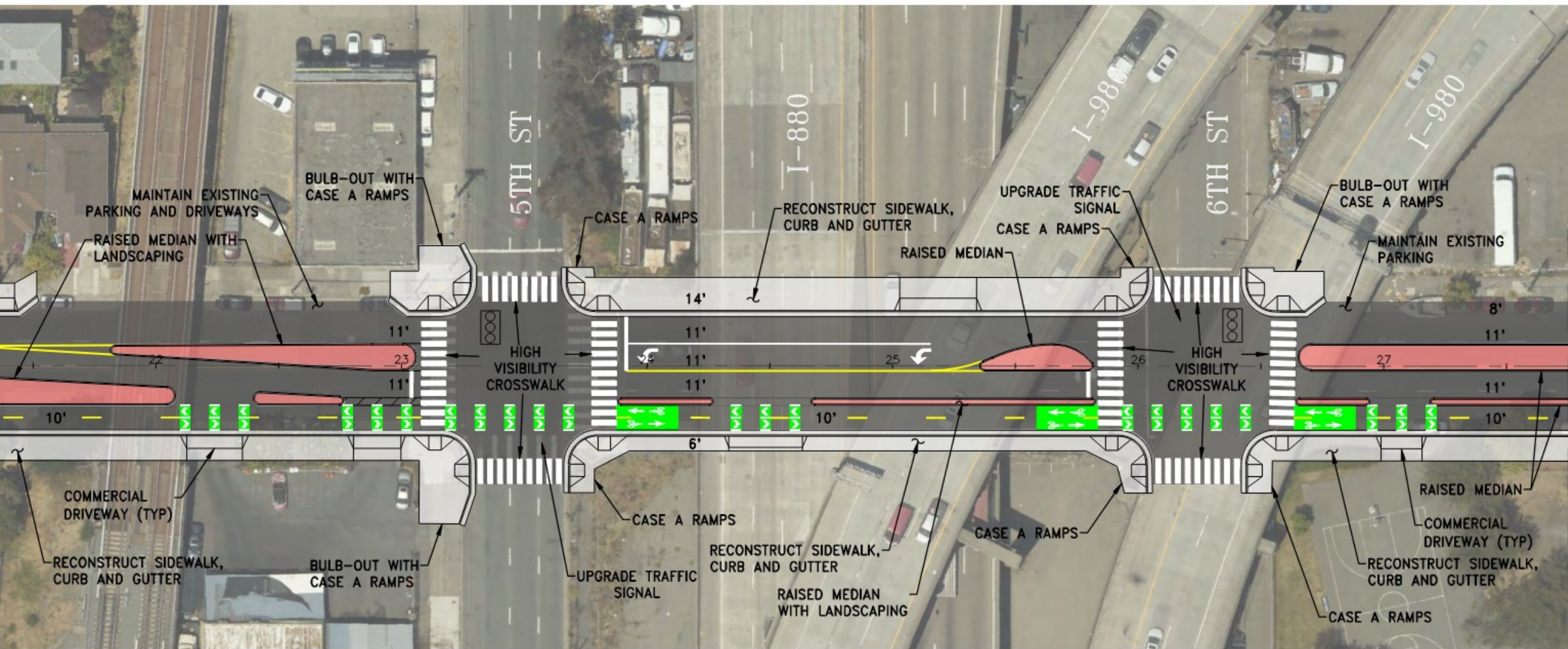
BROADWAY: Conceptual Plans



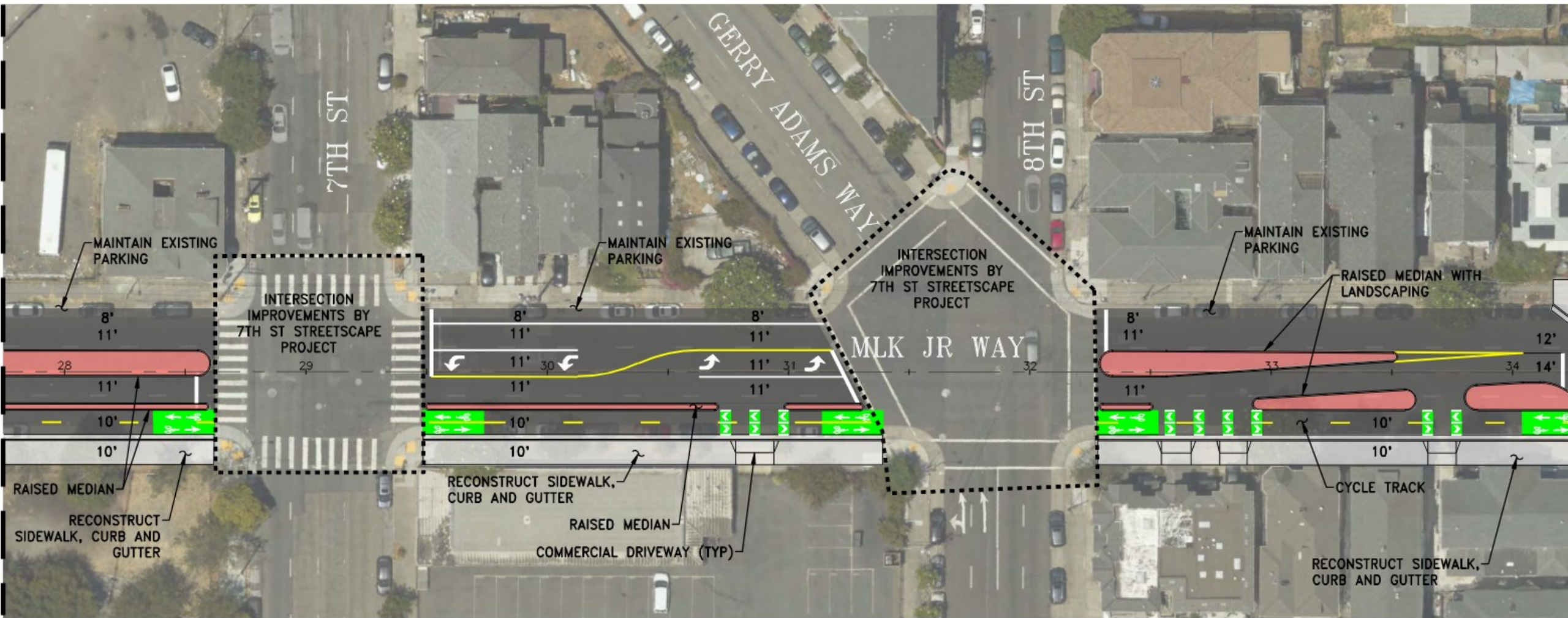
BROADWAY: Conceptual Plans



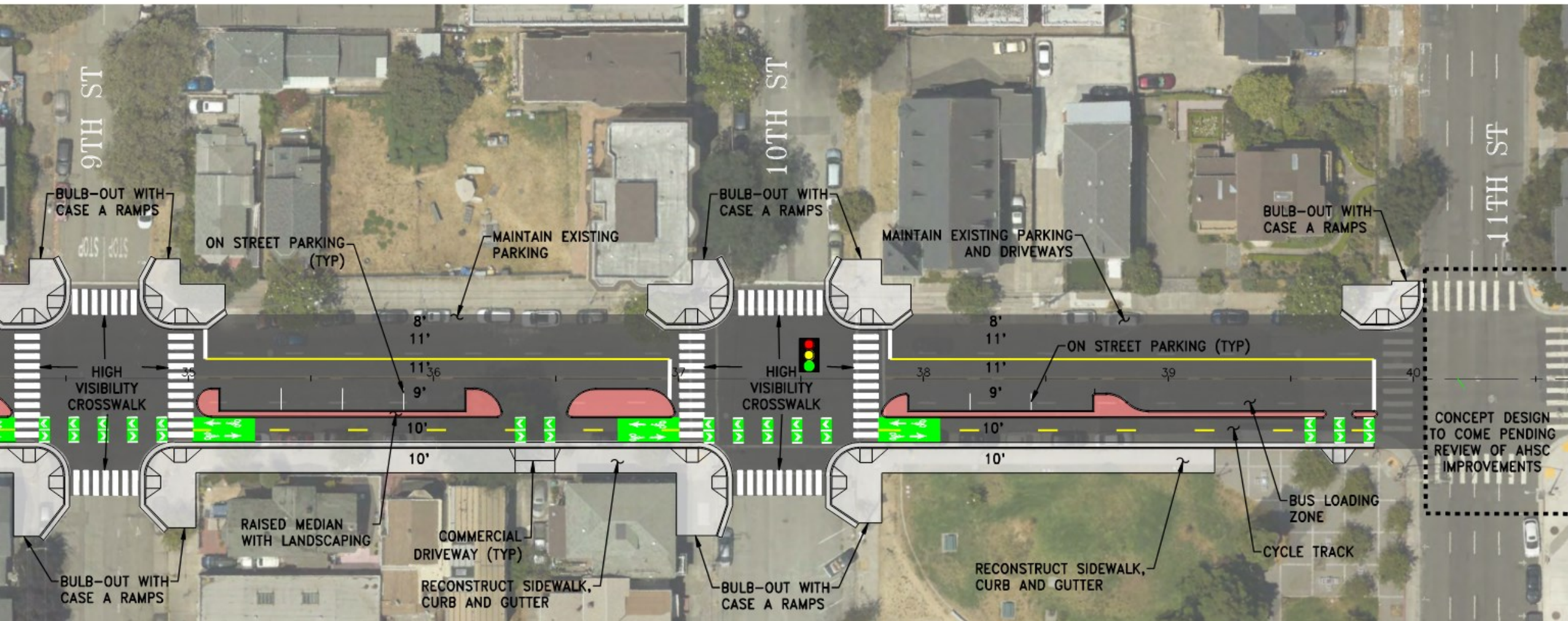
MLK: Conceptual Plans



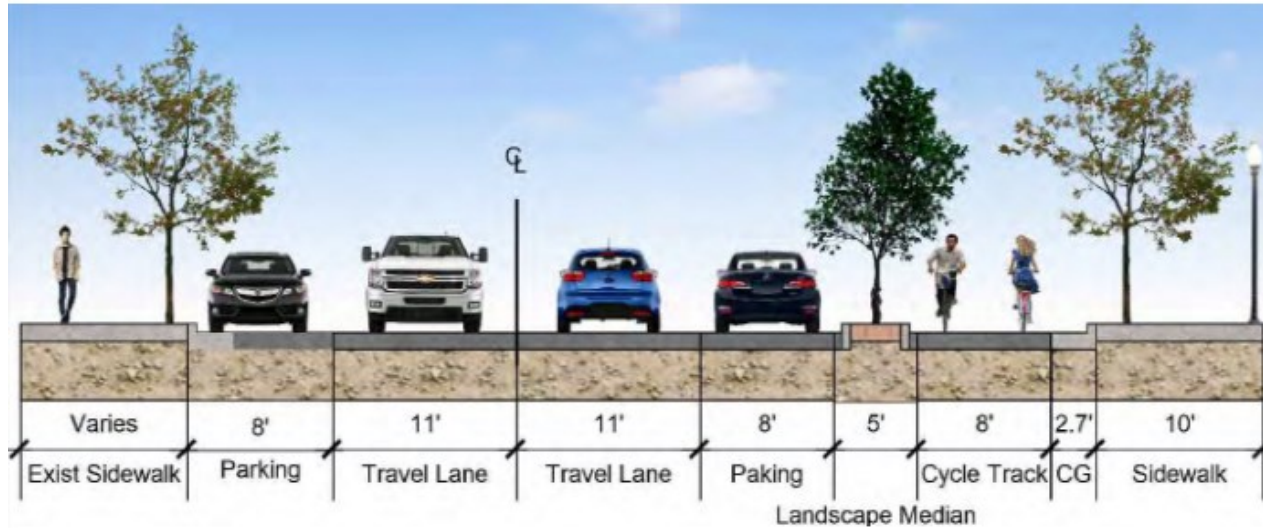
MLK: Conceptual Plans



MLK: Conceptual Plans

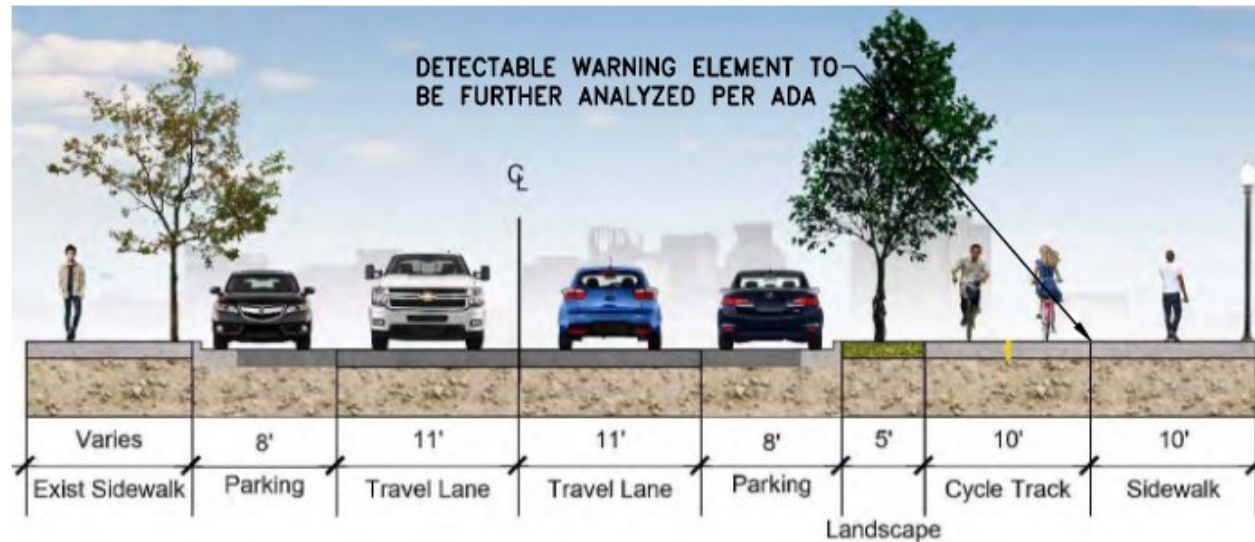


MLK: Typical Cross Sections



Two-Way Cycle Track (Street Level/Raised)

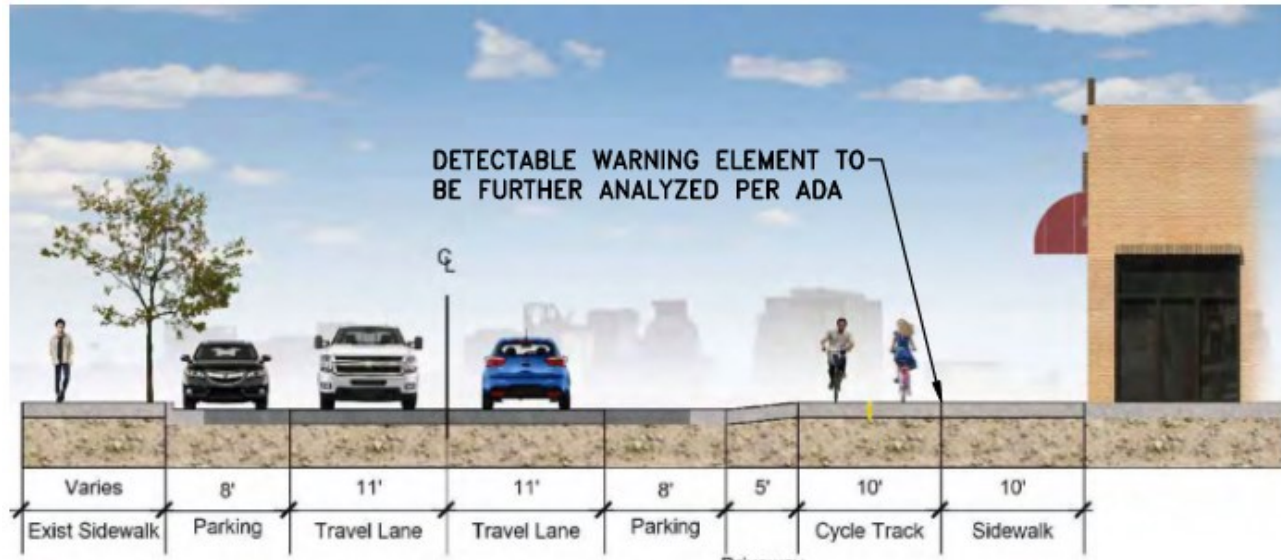
- Reduces risk of 'dooring' compared to a bike lane, and eliminates the risk of a doored bicyclist being run over by a motor vehicle.



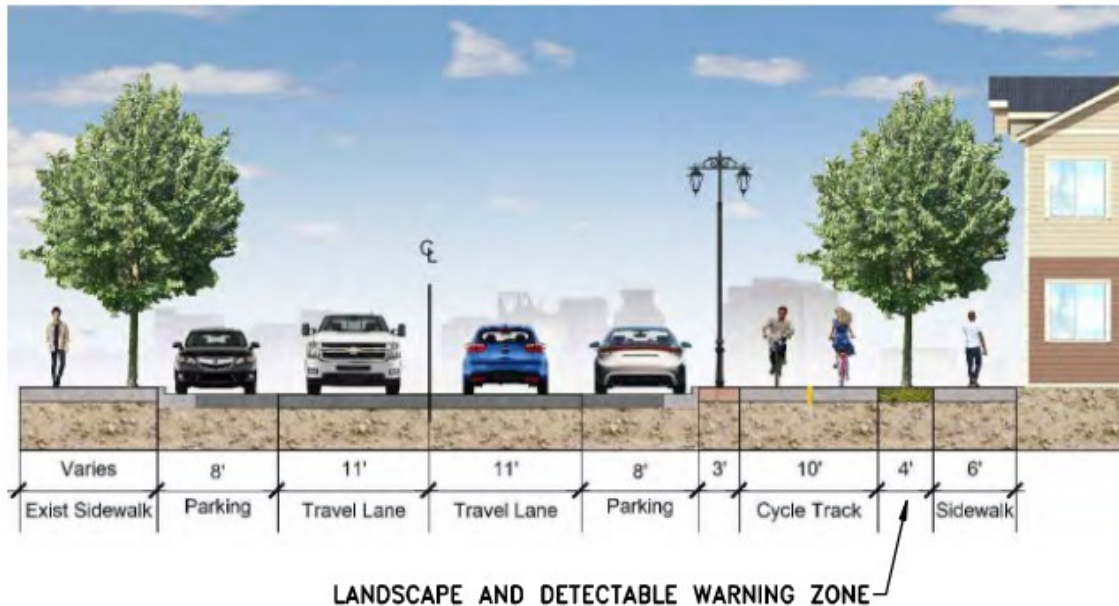
Two-Way Cycle Track (Raised) Typical Section

- Provides vertical separation from the adjacent motor vehicle lane

MLK: Typical Cross Sections



- Two-Way Cycle Track (Raised) - Driveway Section/ Intersection
- Increases visibility of bicyclists and motorists in advance of the intersection.
- Mitigates the risk of “left or right-hook” crashes with turning motorists.
- May be less expensive than using full bicycle signals.



- Two-Way Cycle Track (Raised) - Residential Section
- More Attractive to a wide range of bicyclists at all levels and ages

BROADWAY AND MLK STREETScape IMPROVEMENTS: ENGAGEMENT AND DESIGN TIMELINE

Timeline	Actions
Now – 11/2023	<ul style="list-style-type: none">• Present to BPAC, MCPD, MCOA, neighborhood groups, and host Community Gathering Forums
9/2023	<ul style="list-style-type: none">• Broadway and MLK Designs posted to project webpages
9/15/2023	<ul style="list-style-type: none">• Project engagement reports posted to project webpages
9/21/2023	<ul style="list-style-type: none">• Submit comments/questions to mpd@oaklandca.gov by the end of Thursday, 9/21
11/2023	<ul style="list-style-type: none">• Finalize 35% designs for both projects
Spring 2024	<ul style="list-style-type: none">• Finalize 100% designs for both projects
2024-2026	<ul style="list-style-type: none">• Continue to keep the community engaged with project updates and what to expect during construction (Anticipated Start '25-'26)

CONTACT US



Project Webpages

www.oaklandca.gov/mlk

www.oaklandca.gov/broadway

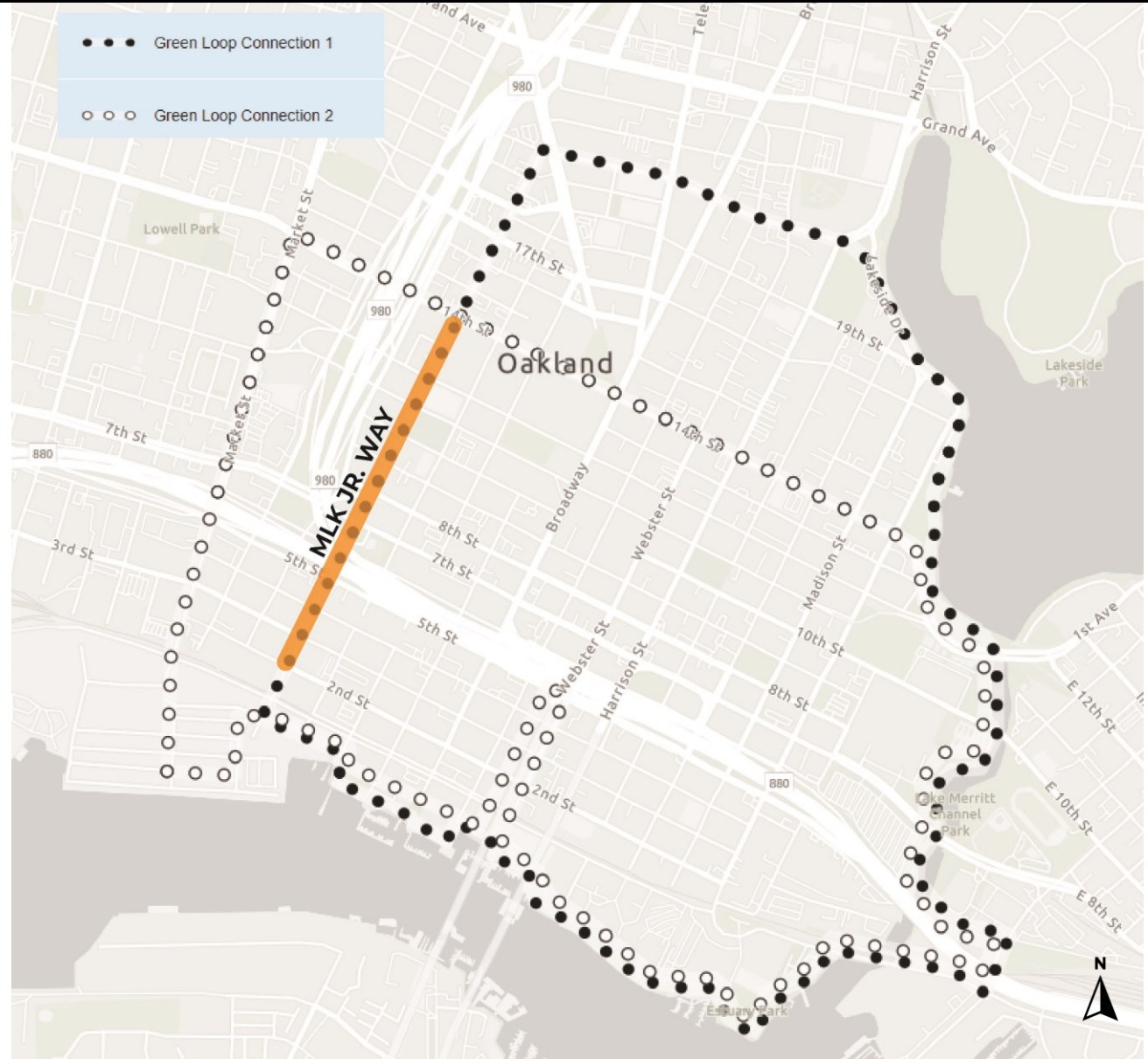
Contact:

mpd@oaklandca.gov

**Additional slides not included in
presentation that support Q&A
during meeting**

MLK JR. WAY STREETScape IMPROVEMENTS: PROJECT LOCATION

The proposed project is located is also located on the proposed **Green Loop**



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OAKLAND

DEPARTMENT OF
TRANSPORTATION

MLK JR. WAY STREETSCAPE IMPROVEMENTS: ADDRESSING INEQUITIES

Existing Disparity

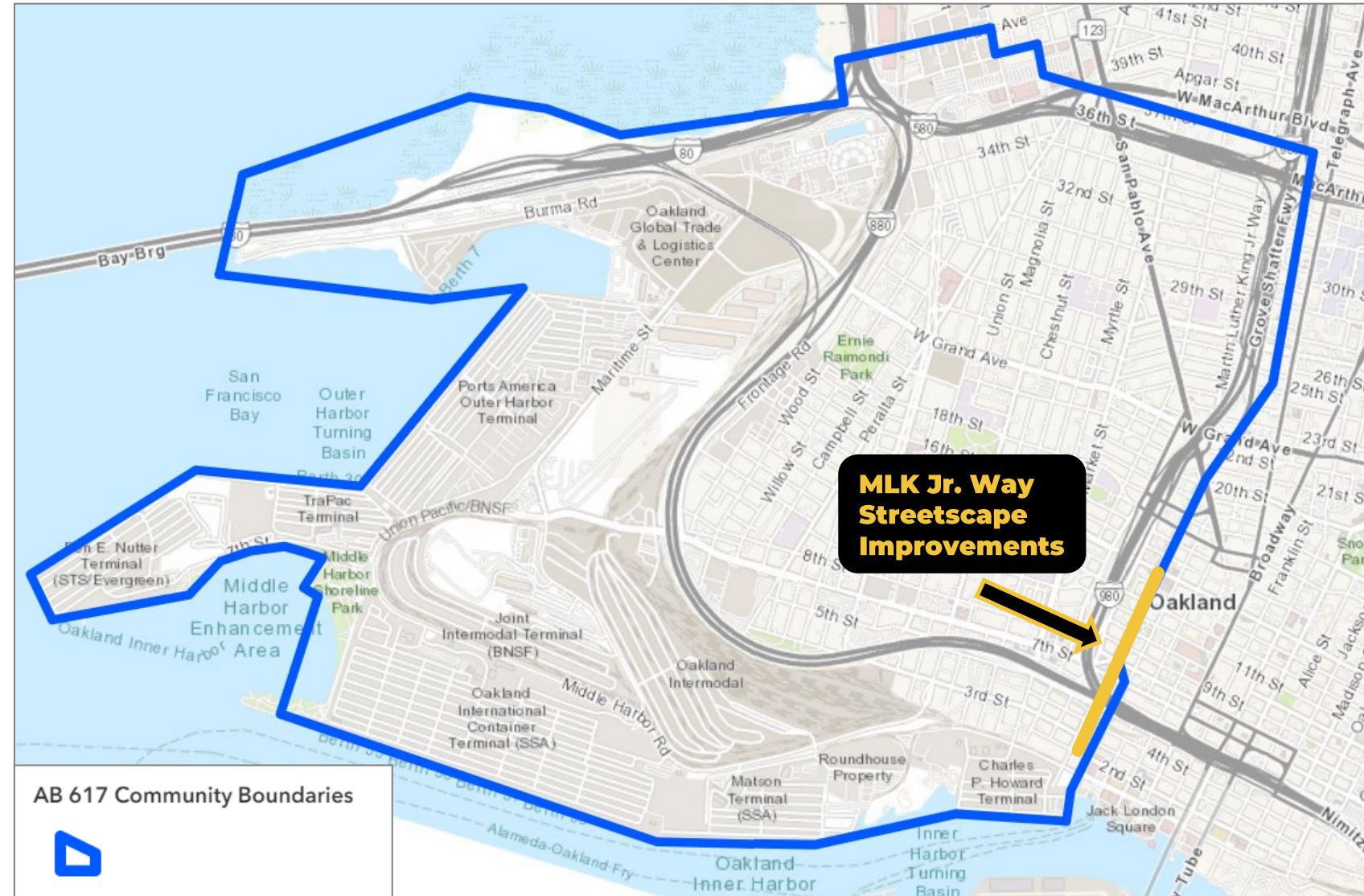
Project is in a **community most impacted by air pollution.**



How Project Addresses Disparity

Project aims to improve air quality by:

- Promoting **zero/low emission** transportation options
- Tree planting



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TRANSPORTATION

BROADWAY STREETSCAPE IMPROVEMENTS: EXISTING CONDITIONS

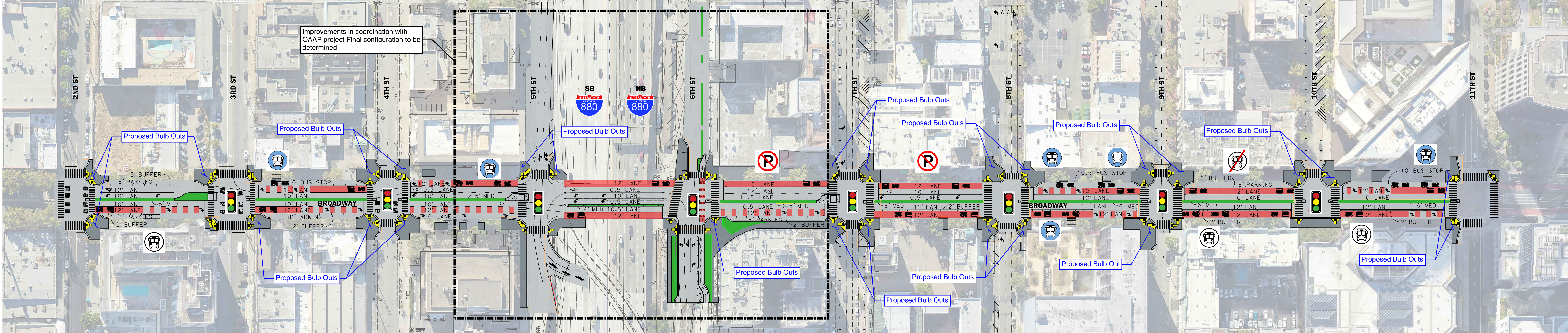
- **Ridership Trends**

- Nearly 7000 riders/day get on the bus along the project corridor
- Ridership recovered better post-pandemic compared to other AC Transit lines (roughly 80% versus 60% of pre-pandemic numbers)

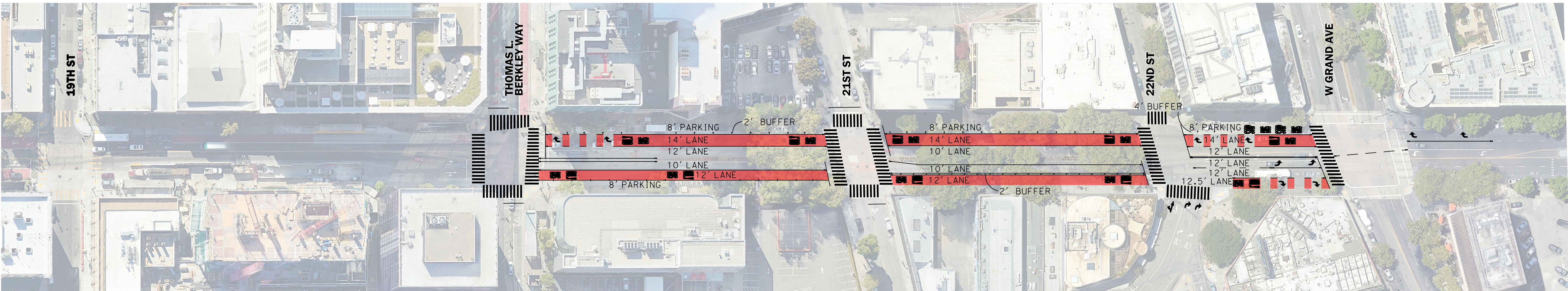
- **Bus travel time and reliability**

- Existing lanes shaved 2 minutes off travel time or about a 40% travel time savings along the 11th to 20th Street segment.
- The greatest reduction in travel times was for the slowest speeds, indicating a more reliable service overall.





BROADWAY STREETSCAPE SCOPE OF WORK



BROADWAY NORTH BUS LANES ONLY

LEGEND:
PROPOSED PAVEMENT
PROPOSED SIDEWALK ENHANCEMENT
PROPOSED LANDSCAPE
PROPOSED BUS ONLY LANE
PROPOSED CURB RAMPS
PROPOSED IMPROVEMENTS

NEW/UPGRADE TRAFFIC SIGNAL
EXISTING BUS STOP
PROPOSED BUS STOP
PROPOSED BUS STOP REMOVAL
REMOVE EXISTING PARKING



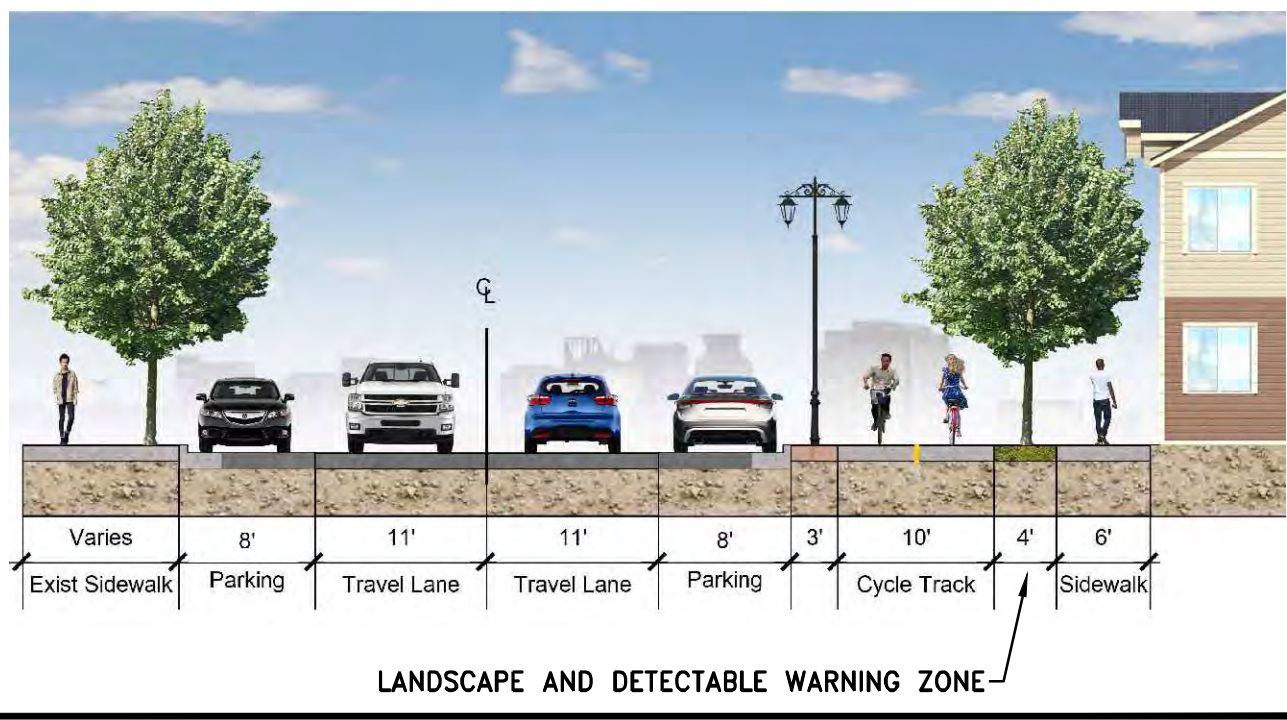
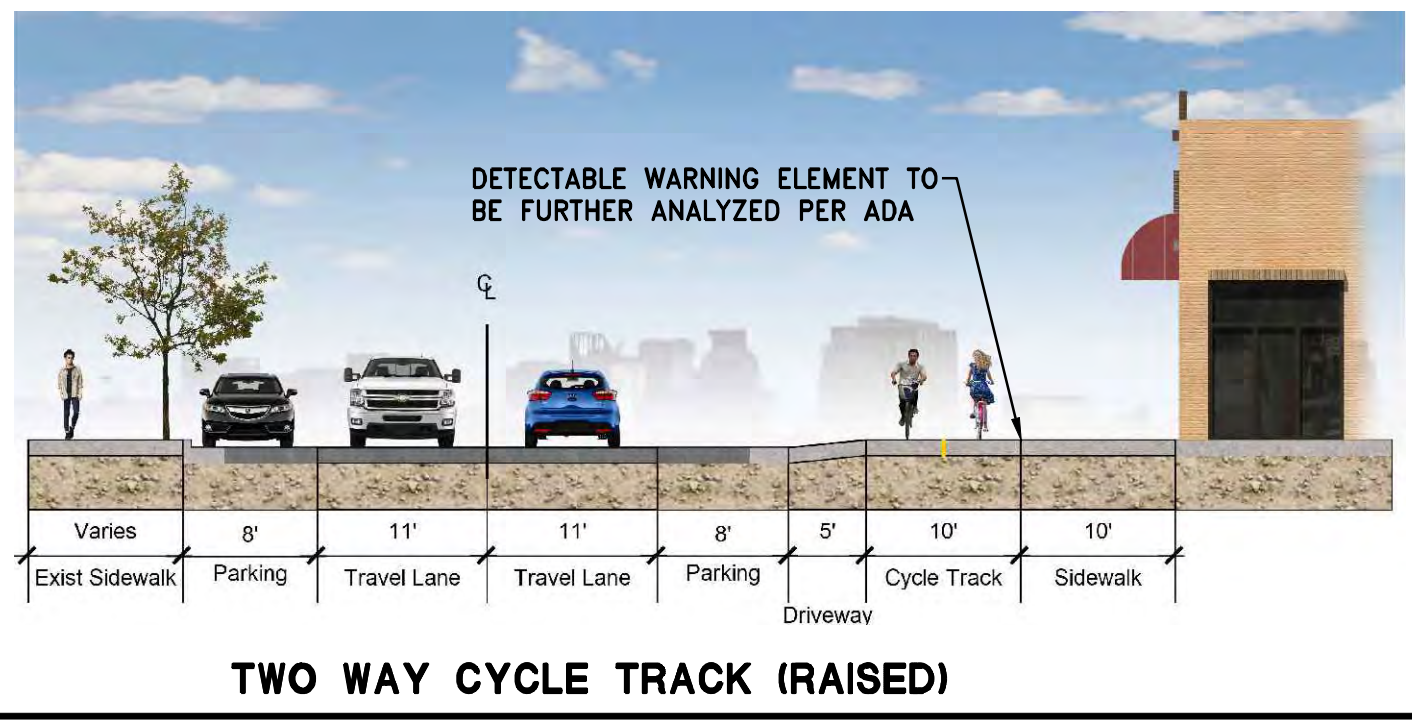
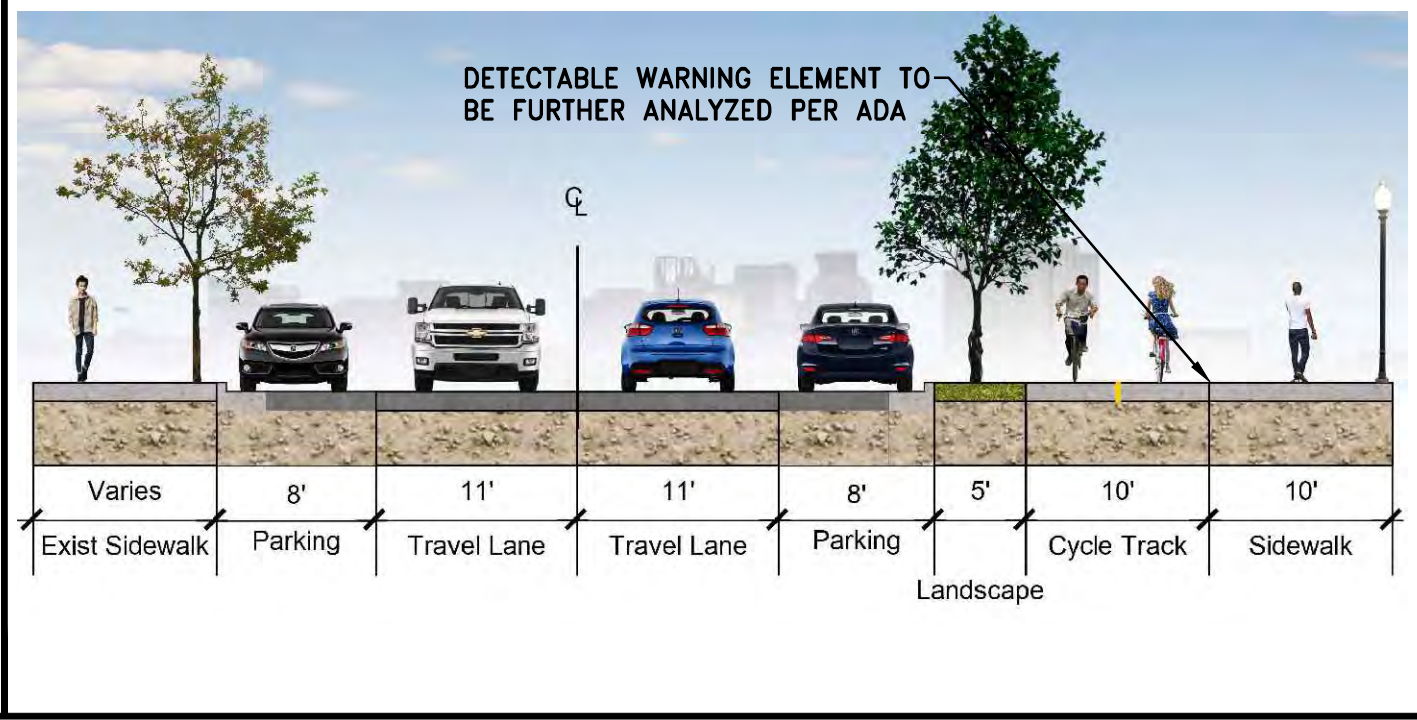
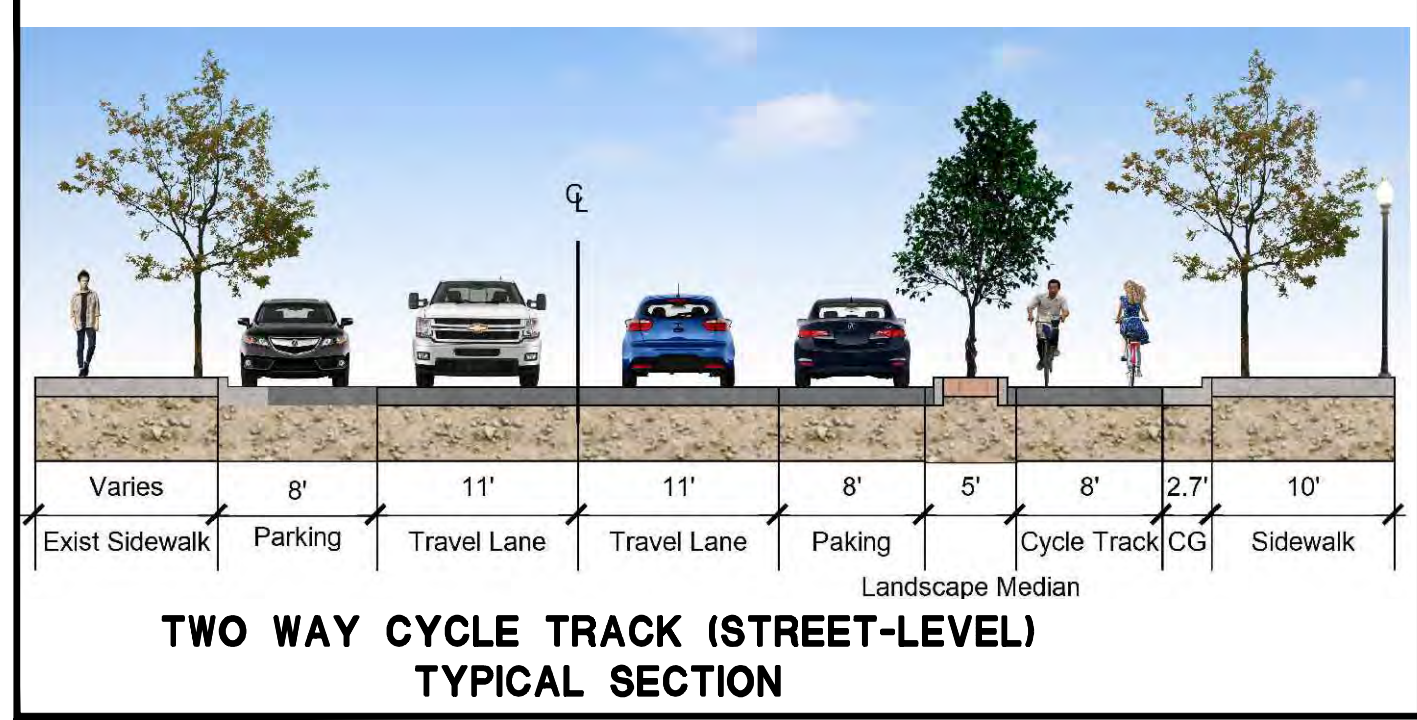
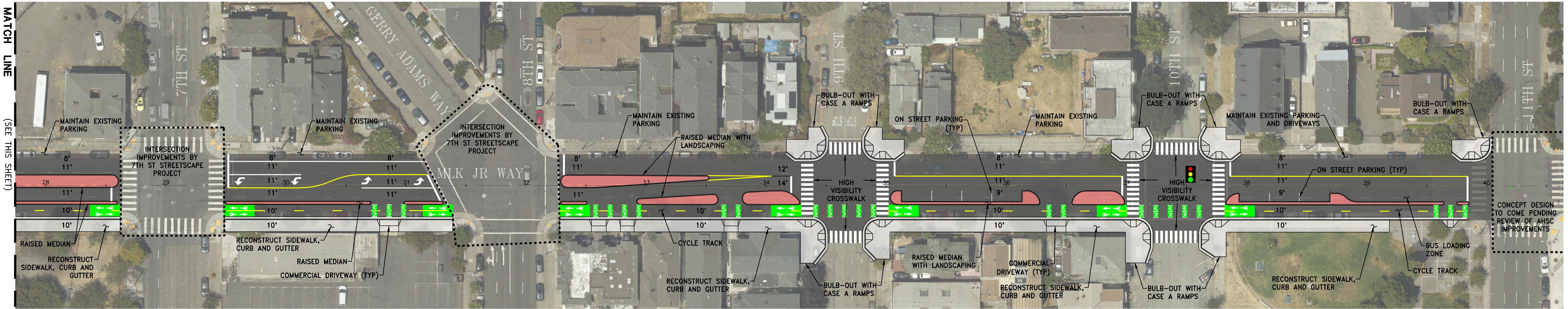
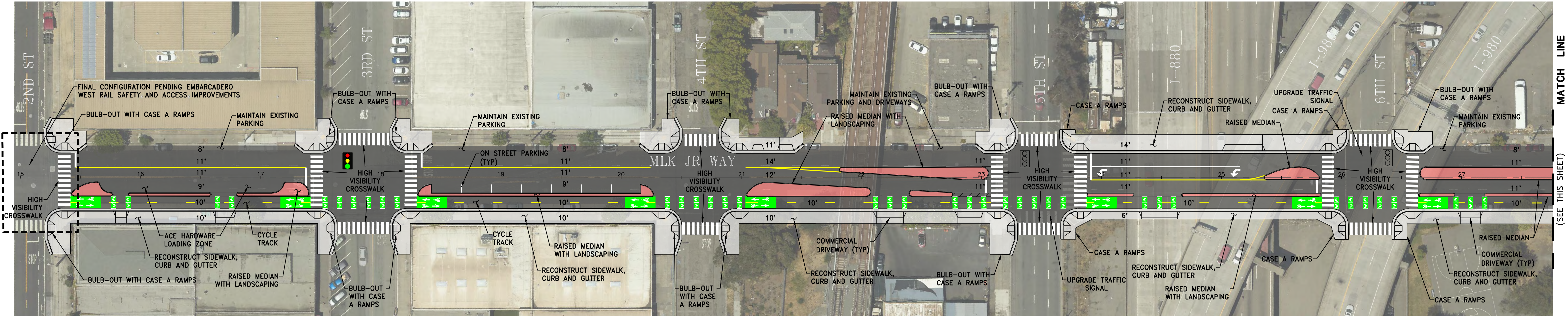
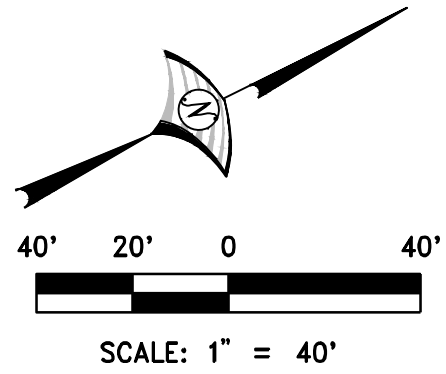
**BROADWAY STREETSCAPE
IMPROVEMENT PROJECT
OVERVIEW EXHIBIT
SEPTEMBER 2023**

TWO WAY CYCLE TRACK (STREET-LEVEL/RAISED) LAYOUT EXHIBIT

MLK JR WAY STREET IMPROVEMENTS

CITY OF OAKLAND CALIFORNIA

SEPTEMBER 2023



LEGEND

- MEDIANS
- SIDEWALK AND C&G
- PAVEMENT
- TRAFFIC SIGNAL
- EXISTING TRAFFIC SIGNAL

WOOD RODGERS
BUILDING RELATIONSHIPS ONE PROJECT AT A TIME
3301 C ST, BLDG. 100-B TEL 916.341.7760
SACRAMENTO, CA 95816 FAX 916.341.7767