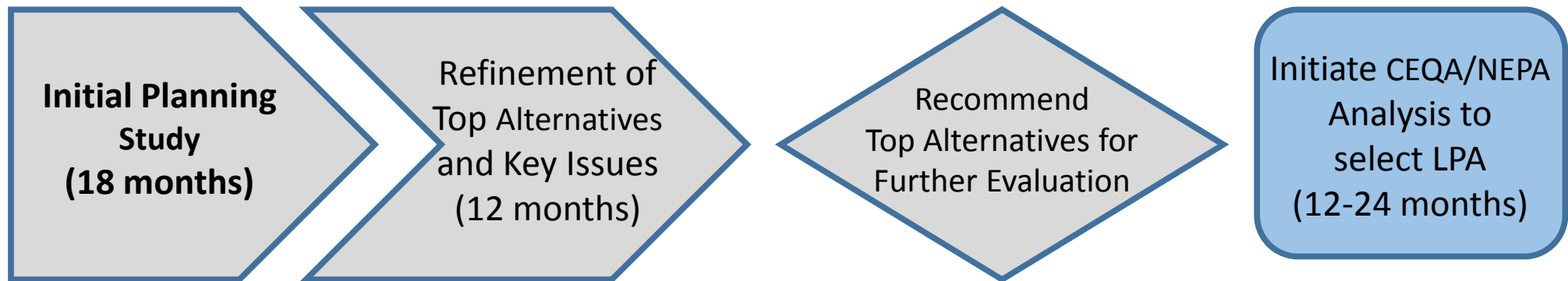


Central Harbor Boulevard Transit Corridor Study Update

Today's Update

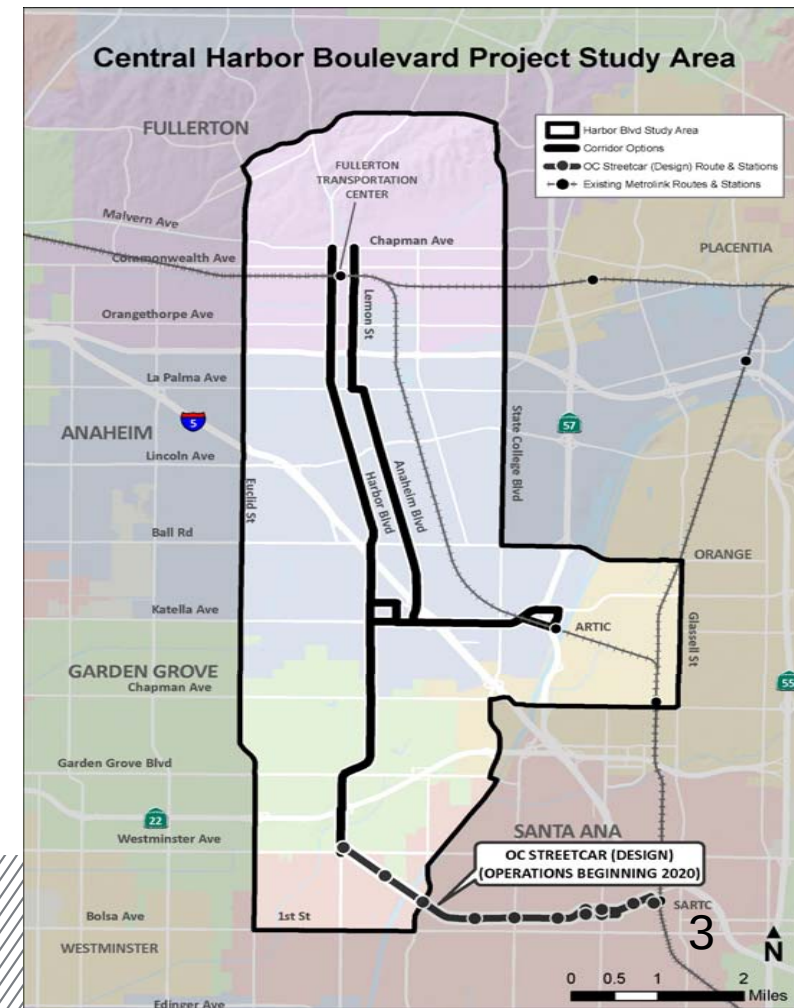
- Walk through 12 draft alternatives
- Share draft evaluation criteria
- Initiate second phase of outreach



CEQA - California Environmental Quality Act
NEPA - National Environmental Policy Act
LPA - Locally Preferred Alternative

Study Focus

- Identify transit improvement strategies for the Harbor Boulevard corridor between Westminster Avenue and the Fullerton Transportation Center
- Consider Anaheim Boulevard/Lemon Street as a viable alternative route
- Evaluate transit connections between Harbor Boulevard and the Anaheim Regional Transportation Intermodal Center



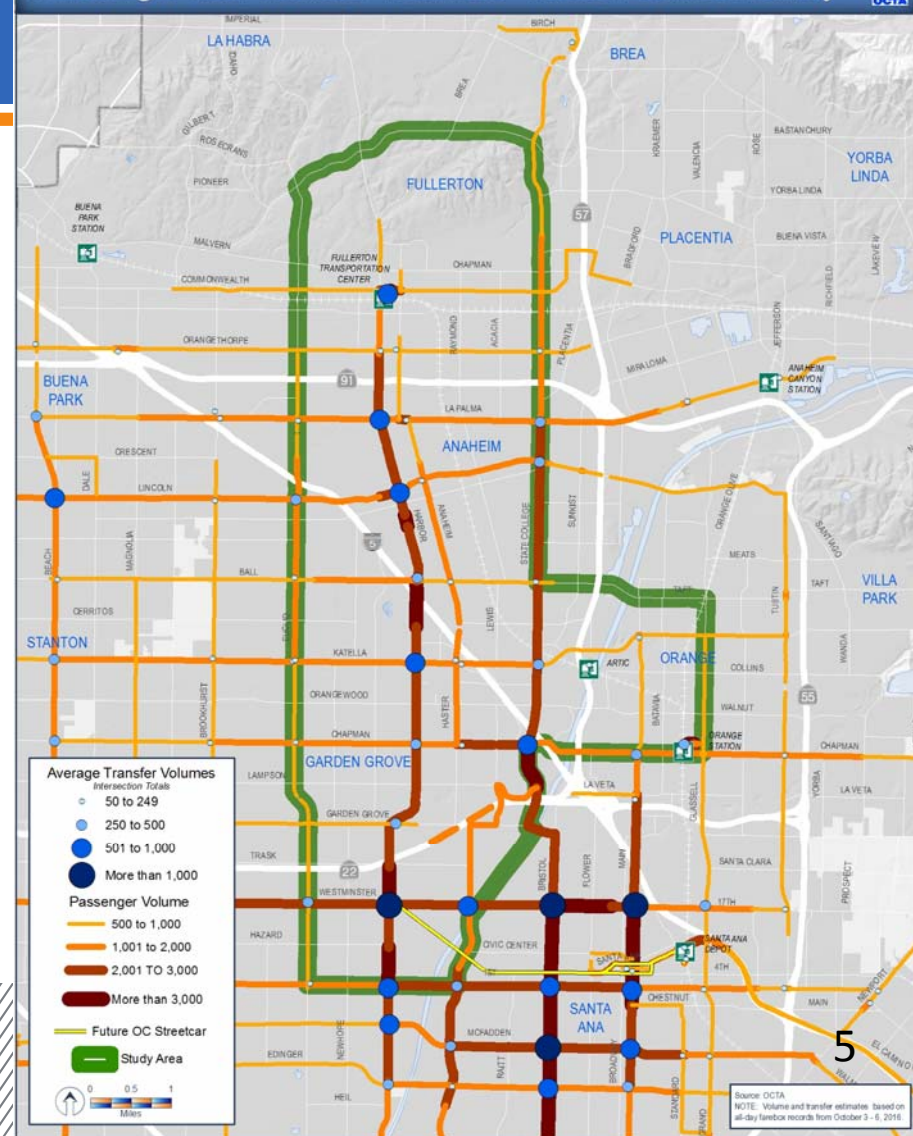
Study Phases and Schedule

- Purpose and Need: August 2015-December 2016
- Outreach 1: February-April 2016
- Alternatives Development: February 2016-April 2017
- Outreach 2: February-April 2017
- Alternatives Evaluation: April-May 2017
- Draft Final Report: July 2017

Mobility Needs

- Highest transit usage
- Commute focused trips
- Population and employment densities 20 percent higher than county average
- More development planned
- Central north-south transit spine

Passenger and Transfer Volumes - Harbor Corridor Study



Evaluation Criteria Recommendations

- Transit Performance
- Land Use
- Connectivity
- Corridor Constraints
- Mode Choices/User Experience
- Cost-Effectiveness
- Community Support

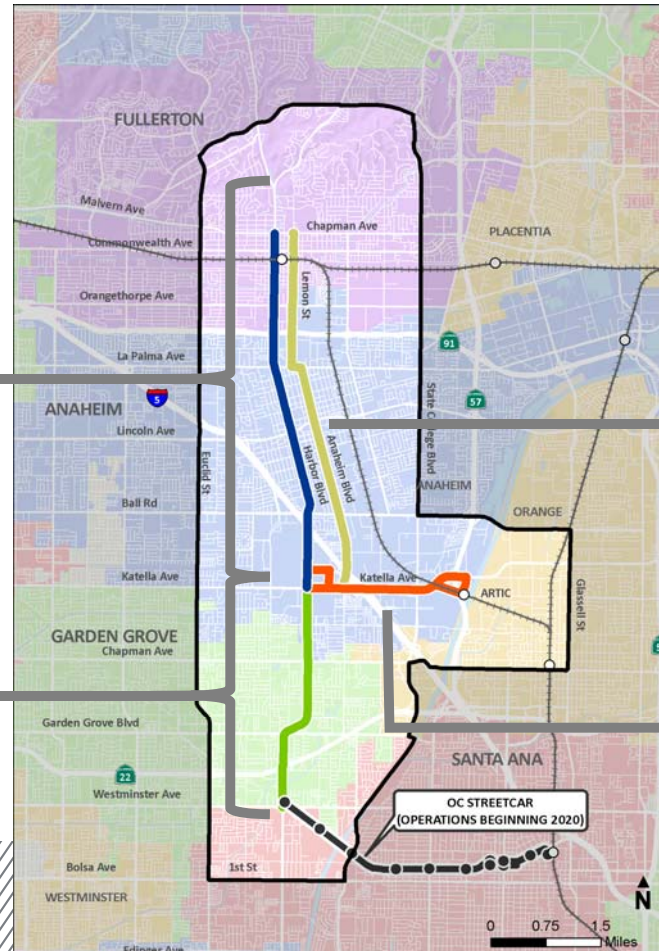
Alignment Options

HARBOR NORTH

HARBOR SOUTH

ANAHEIM/LEMON

KATELLA



Mode/Feature Options



Enhanced Bus

Shared Lane
Enhanced Stations
Queue Jumpers
Signal Priority
All Door Boarding
Off-Board Fare Collection



Bus-Rapid Transit

Enhanced Bus plus:
Dedicated Transit Lanes



Streetcar

Shared Lane
Enhanced Stations
Queue Jumpers
Signal Priority
All Door Boarding
Off-Board Fare Collection



Rapid Streetcar

Streetcar plus:
Dedicated Transit Lanes

12 Draft Alternatives

HARBOR LONG

- H-2: Harbor Long Streetcar
- H-3: Harbor Rapid Streetcar
- H-4: Harbor Enhanced Bus
- H-5: Harbor Bus Rapid Transit

HARBOR SHORT

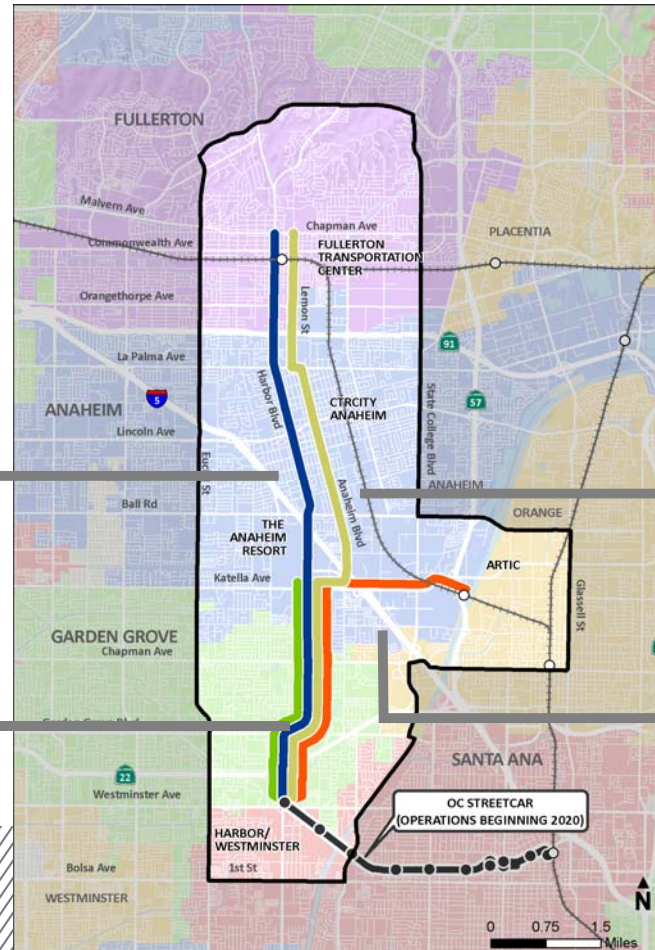
- H-1: Harbor Short Streetcar

ANAHEIM/LEMON

- L-1: Anaheim/Lemon Streetcar
- L-2: Anaheim/Lemon Rapid Streetcar
- L-3: Anaheim/Lemon Enhanced Bus
- L-4: Anaheim/Lemon BRT

KATELLA

- K-1: Katella Streetcar
- K-2: Katella+ Anaheim/Lemon Enhanced Bus
- K-3: Katella + Harbor Hybrid



No Build Alternative

Alignment:

Harbor South

Anaheim/Lemon

Harbor North

Katella

Mode:

Enhanced Bus

Streetcar

Bus Rapid Transit

Rapid Streetcar

Changes to Bus Service:

Harbor Local 43

Anaheim/Lemon Local 47

Unchanged

Unchanged

Harbor Bravo! 543

Katella Local 50

Unchanged

Unchanged



H-1: Harbor Short Streetcar

Alignment:

Harbor South

Anaheim/Lemon

Harbor North

Katella

Mode:

Enhanced Bus

Streetcar

Bus Rapid Transit

Rapid Streetcar

Changes to Bus Service:

Harbor Local 43

Anaheim/Lemon Local 47

Unchanged

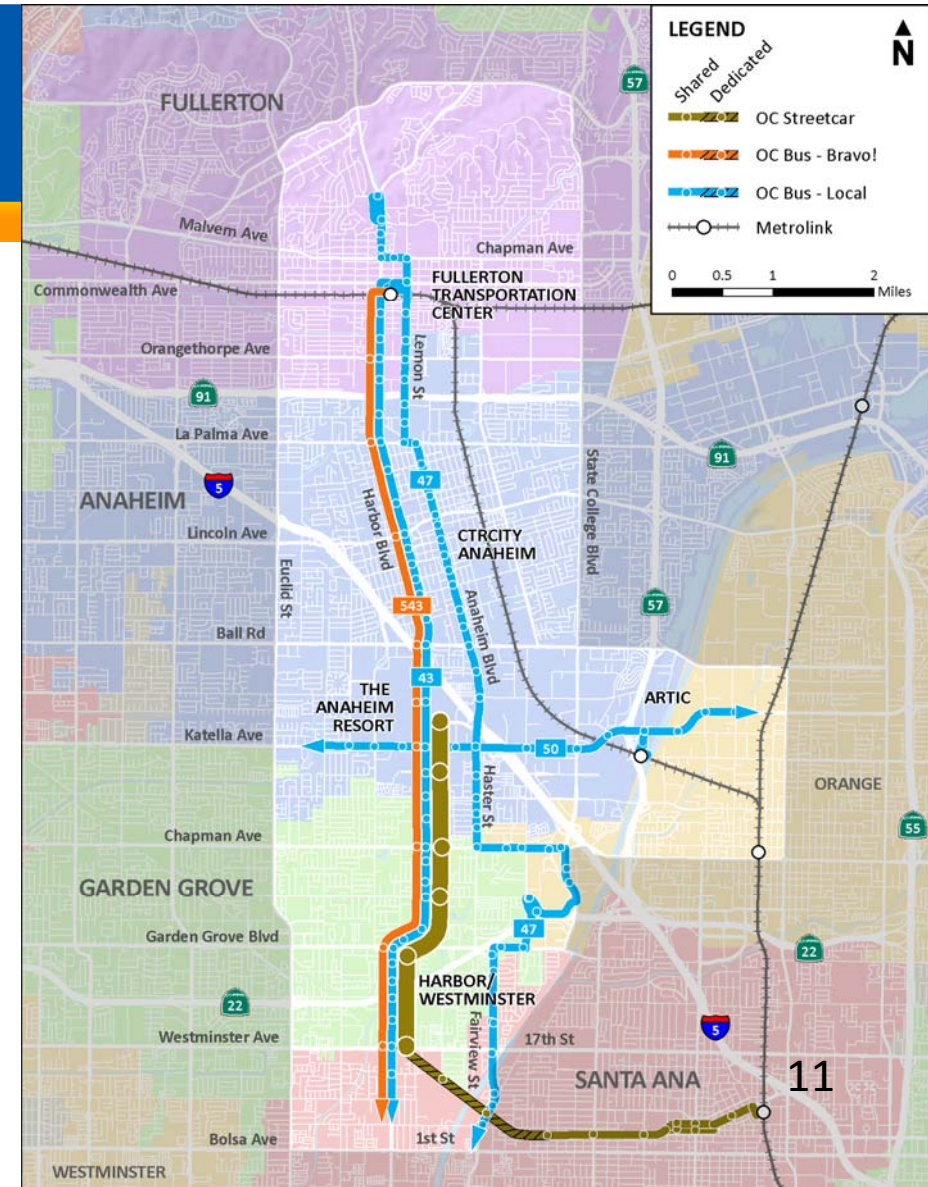
Unchanged

Harbor Bravo! 543

Katella Local 50

Unchanged

Unchanged



H-2: Harbor Long Streetcar

Alignment:

Harbor South

Anaheim/Lemon

Harbor North

Katella

Mode:

Enhanced Bus

Streetcar

Bus Rapid Transit

Rapid Streetcar

Changes to Bus Service:

Harbor Local 43

Anaheim/Lemon Local 47

Enhanced S of Westminster

Unchanged

Harbor Bravo! 543

Katella Local 50

Discontinued

Unchanged



H-3: Harbor Rapid Streetcar

Alignment:

Harbor South

Anaheim/Lemon

Harbor North

Katella

Mode:

Enhanced Bus

Streetcar

Bus Rapid Transit

Rapid Streetcar

Changes to Bus Service:

Harbor Local 43

Anaheim/Lemon Local 47

Enhanced S of Westminster

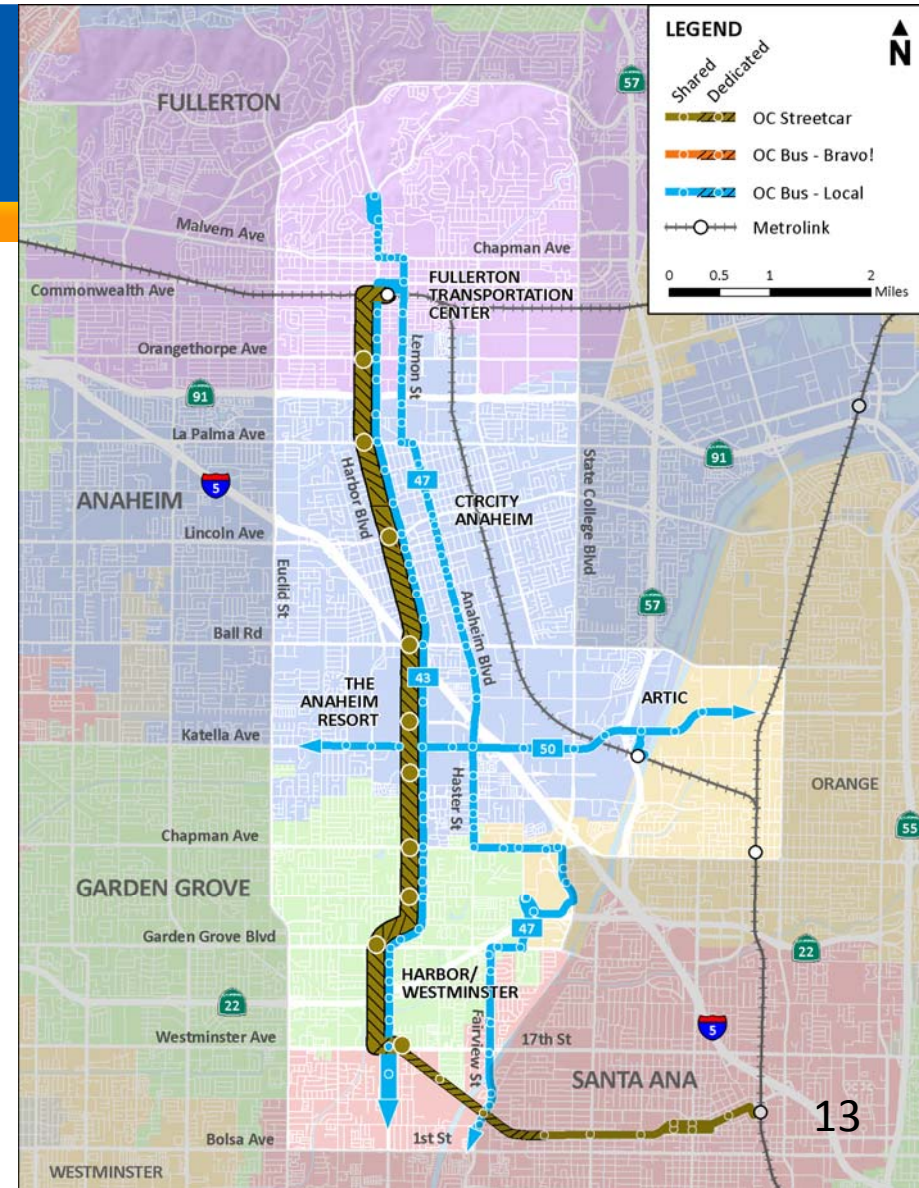
Unchanged

Harbor Bravo! 543

Katella Local 50

Discontinued

Unchanged



H-4: Harbor Enhanced Bus

Alignment:

Harbor South

Anaheim/Lemon

Harbor North

Katella

Mode:

Enhanced Bus

Streetcar

Bus Rapid Transit

Rapid Streetcar

Changes to Bus Service:

Harbor Local 43

Anaheim/Lemon Local 47

Unchanged

Unchanged

Harbor Bravo! 543

Katella Local 50

Enhanced

Unchanged



H-5: Harbor Bus Rapid Transit

Alignment:

Harbor South

Anaheim/Lemon

Harbor North

Katella

Mode:

Enhanced Bus

Streetcar

Bus Rapid Transit

Rapid Streetcar

Changes to Bus Service:

Harbor Local 43

Anaheim/Lemon Local 47

Unchanged

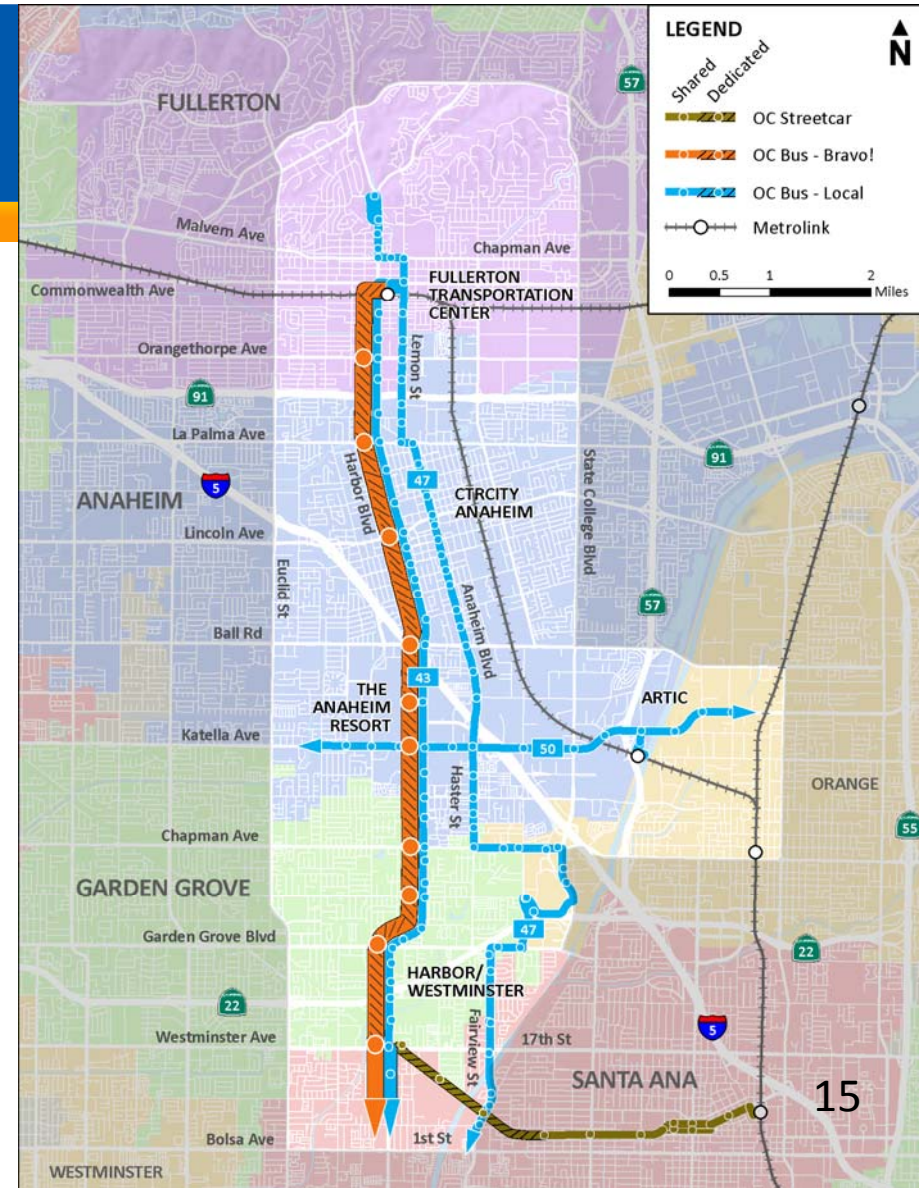
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Harbor Bravo! 543

Katella Local 50

Discontinued

Unchanged



L-1: Anaheim/Lemon Streetcar

Alignment:

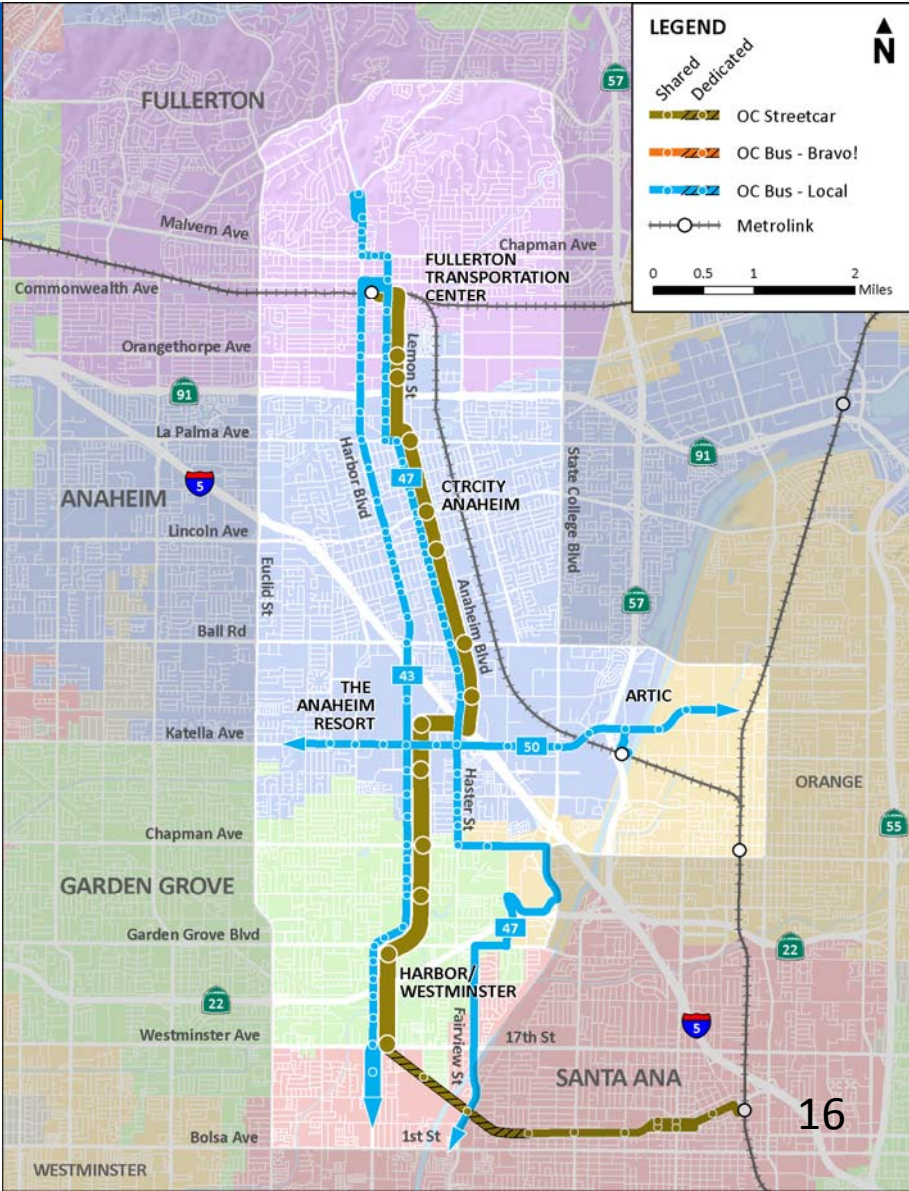
Harbor South	Anaheim/Lemon
Harbor North	Katella

Mode:

Enhanced Bus	Streetcar
Bus Rapid Transit	Rapid Streetcar

Changes to Bus Service:

Harbor Local 43	Anaheim/Lemon Local 47
Enhanced S of Westminster	Unchanged
Harbor Bravo! 543	Katella Local 50
Discontinued	Unchanged



L-2: Anaheim/Lemon Rapid Streetcar

Alignment:

Harbor South

Anaheim/Lemon

Harbor North

Katella

Mode:

Enhanced Bus

Streetcar

Bus Rapid Transit

Rapid Streetcar

Changes to Bus Service:

Harbor Local 43

Anaheim/Lemon Local 47

Enhanced S of Westminster

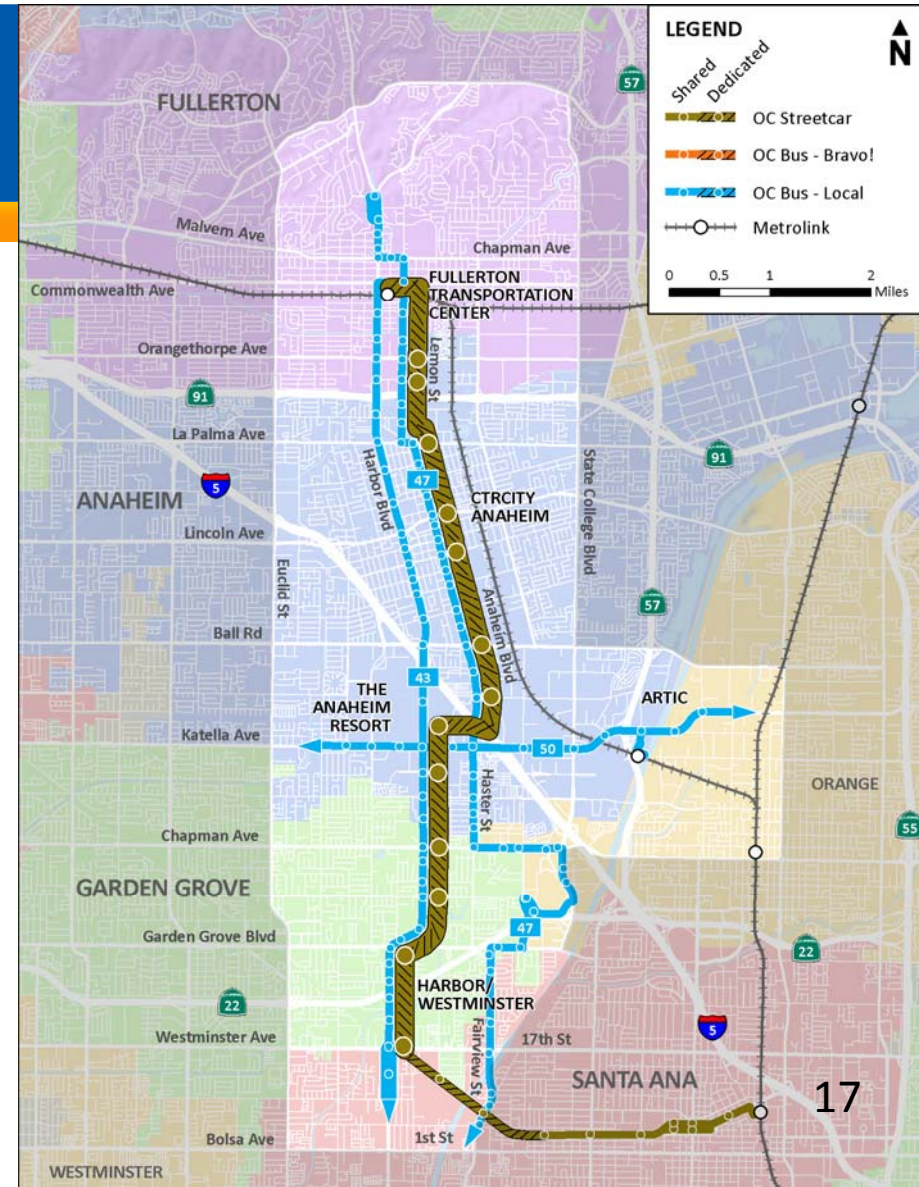
Unchanged

Harbor Bravo! 543

Katella Local 50

Discontinued

Unchanged



L-3: Anaheim/Lemon Enhanced Bus

Alignment:

Harbor South

Anaheim/Lemon

Harbor North

Katella

Mode:

Enhanced Bus

Streetcar

Bus Rapid Transit

Rapid Streetcar

Changes to Bus Service:

Harbor Local 43

Anaheim/Lemon Local 47

Unchanged

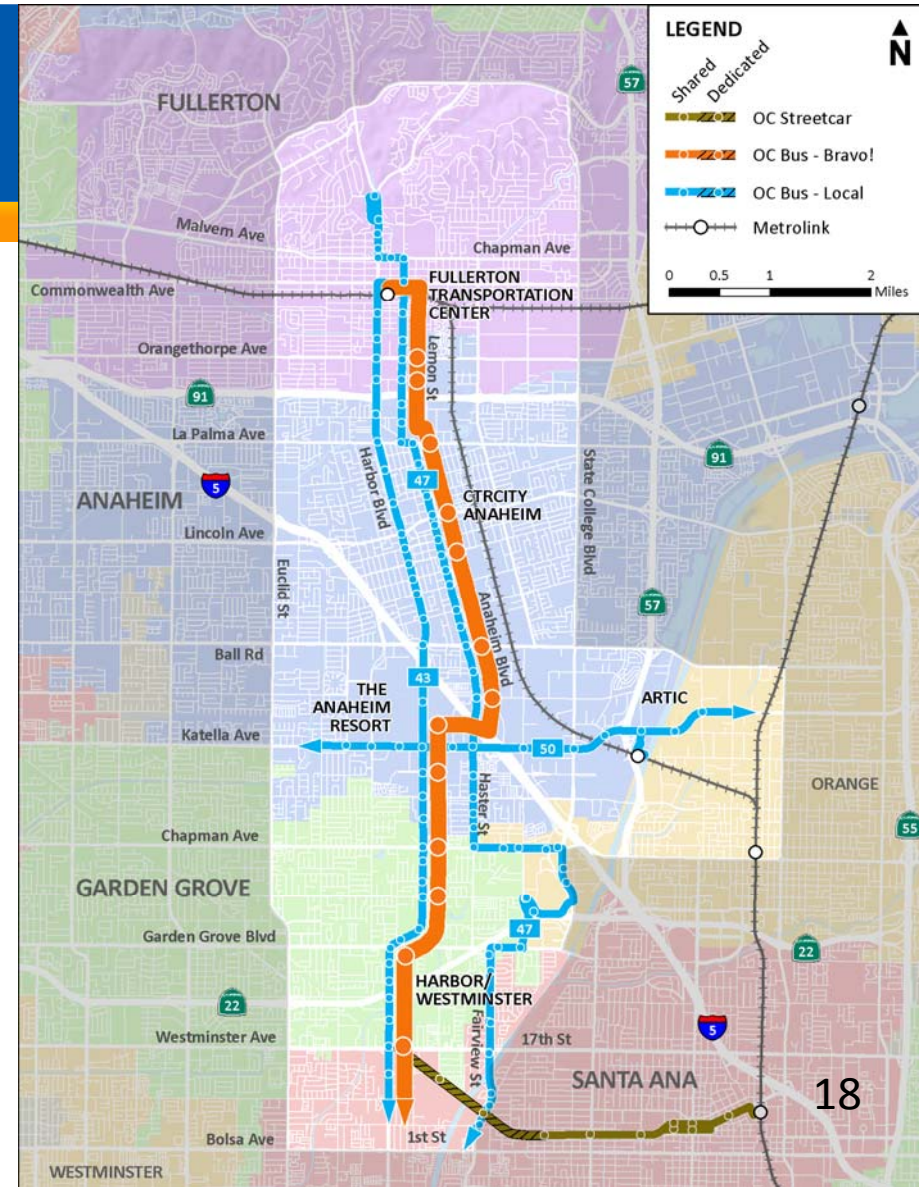
Unchanged

Harbor Bravo! 543

Katella Local 50

Enhanced / Rerouted

Unchanged



L-4: Anaheim/Lemon Bus Rapid Transit

Alignment:

Harbor South

Anaheim/Lemon

Harbor North

Katella

Mode:

Enhanced Bus

Streetcar

Bus Rapid Transit

Rapid Streetcar

Changes to Bus Service:

Harbor Local 43

Anaheim/Lemon Local 47

Unchanged

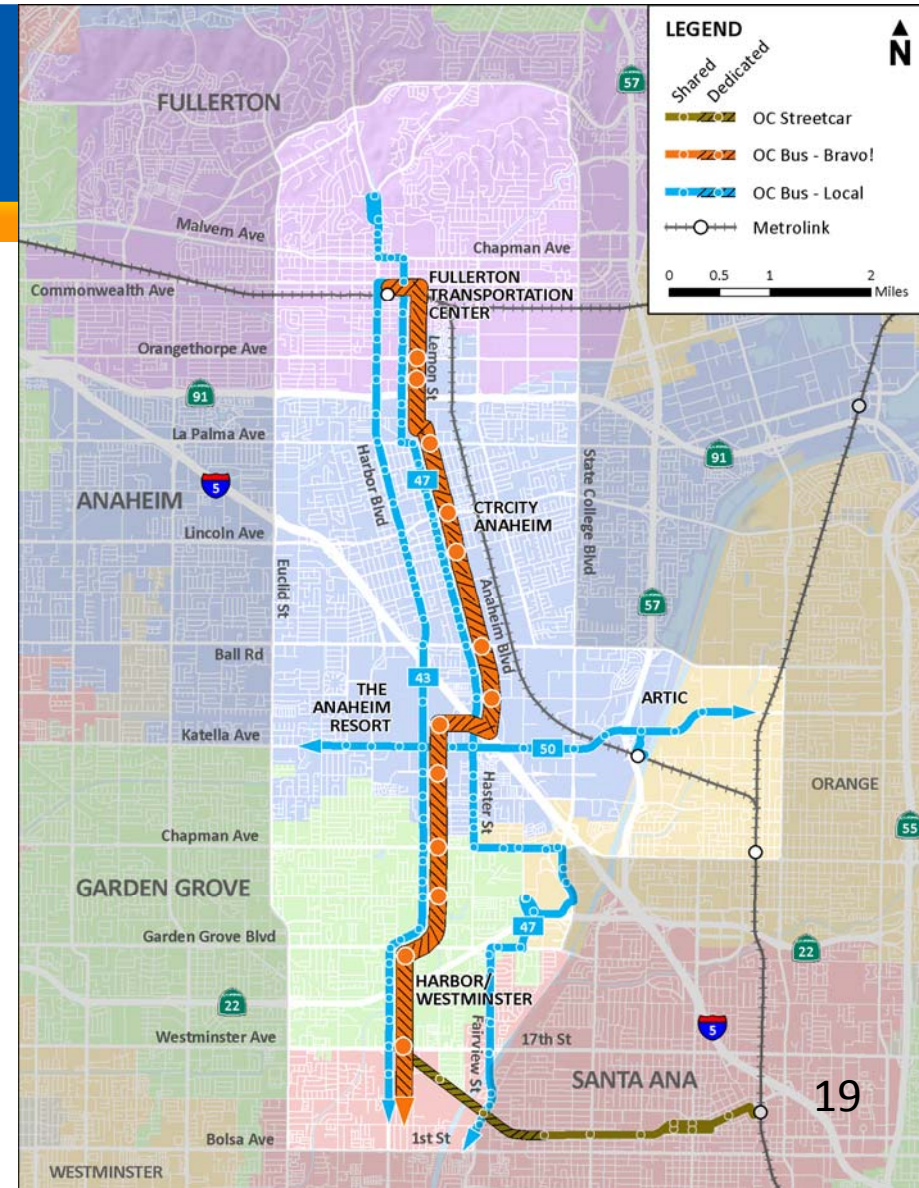
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Harbor Bravo! 543

Katella Local 50

Discontinued

Unchanged



K-1: Harbor-Katella Streetcar

Alignment:

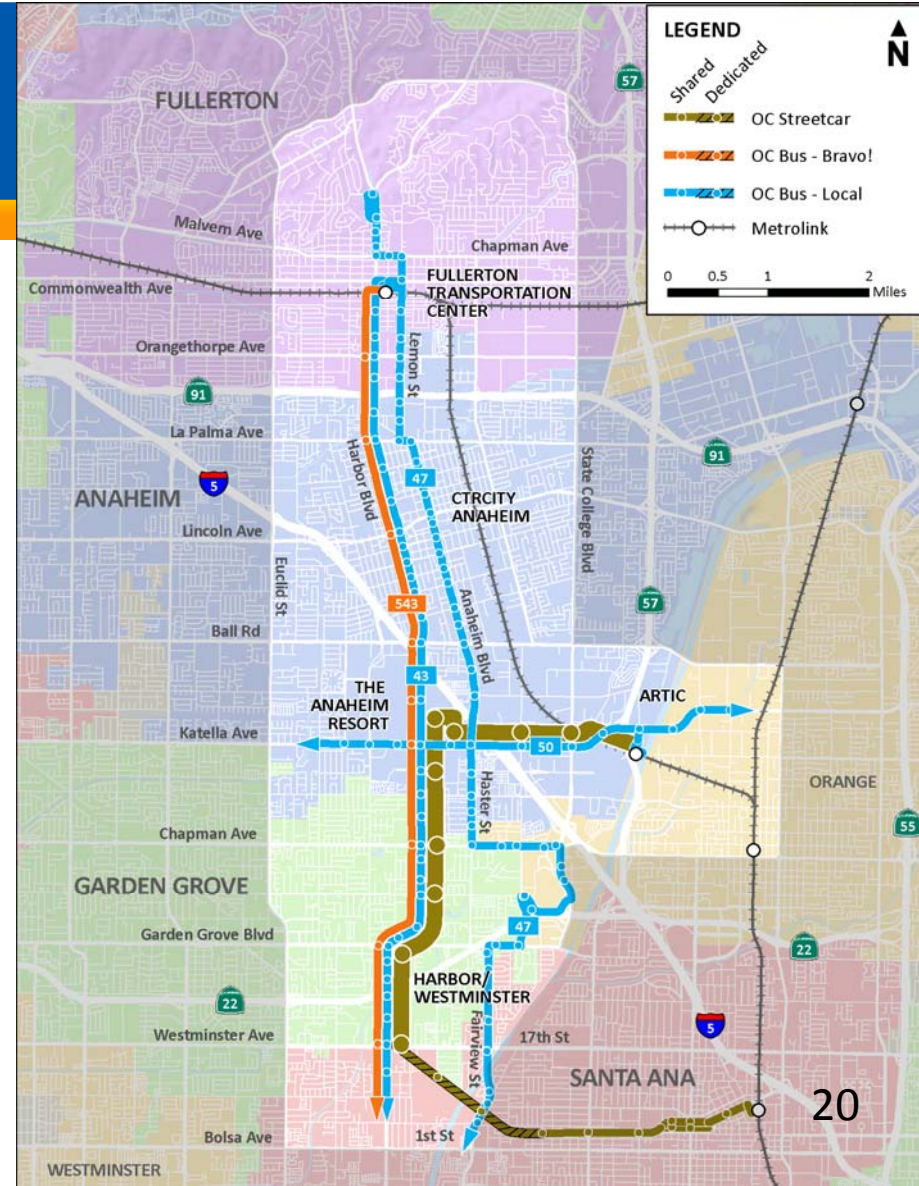
Harbor South	Anaheim/Lemon
Harbor North	Katella

Mode:

Enhanced Bus	Streetcar
Bus Rapid Transit	Rapid Streetcar

Changes to Bus Service:

Harbor Local 43	Anaheim/Lemon Local 47
Unchanged	Unchanged
Harbor Bravo! 543	Katella Local 50
Unchanged	Unchanged



K-2: Katella + Anaheim/ Lemon Enhanced Bus

Alignment:

Harbor South

Anaheim/Lemon

Harbor North

Katella

Mode:

Enhanced Bus

Streetcar

Bus Rapid Transit

Rapid Streetcar

Changes to Bus Service:

Harbor Local 43

Anaheim/Lemon Local 47

Enhanced S of Westminster

Unchanged

Harbor Bravo! 543

Katella Local 50

Enhanced / Rerouted

Unchanged



K-3: Katella + Harbor Hybrid

Alignment:

Harbor South

Anaheim/Lemon

Harbor North

Katella

Mode:

Enhanced Bus

Streetcar

Bus Rapid Transit

Rapid Streetcar

Changes to Bus Service:

Harbor Local 43

Anaheim/Lemon Local 47

Unchanged

Unchanged

Harbor Bravo! 543

Katella Local 50

Enhanced / Rerouted

Unchanged



Outreach Plan

- City council updates
- Stakeholder Working Group meeting
- Public workshops in Anaheim and Santa Ana
- Online public engagement
 - o Online survey
 - o Virtual public workshops



Next Steps

- Perform outreach
- Refine draft alternatives based on comments received
- Begin evaluation of alternatives
- Draft final report
 - Summary of results
 - Recommendations