

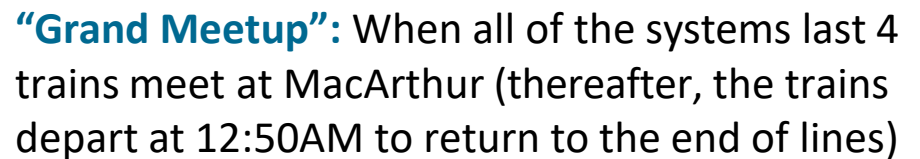


# K-Line Interlocking Construction Project Update

May 23, 2024 | BART Board of Directors Meeting

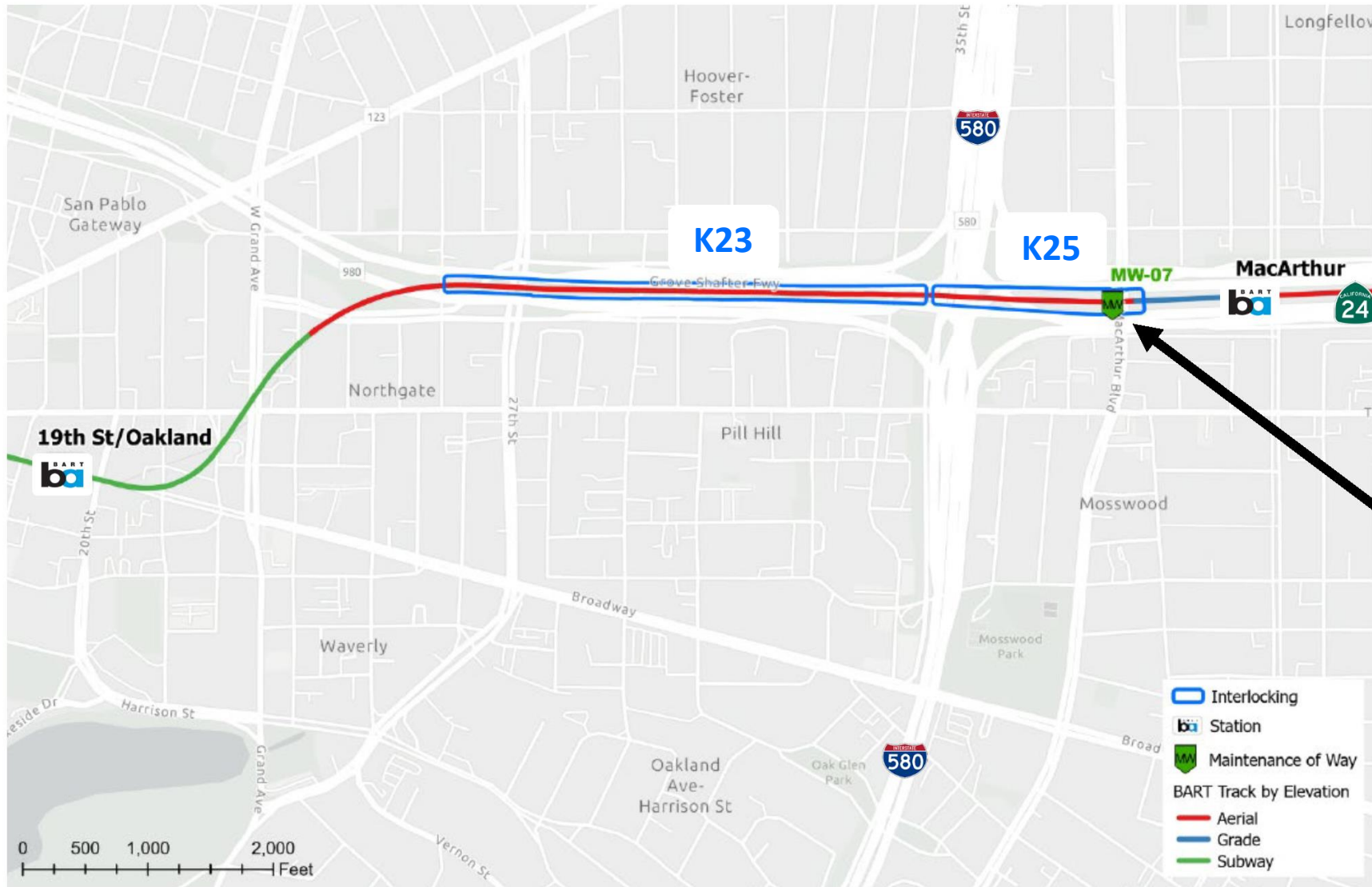


## 1





# Construction Access

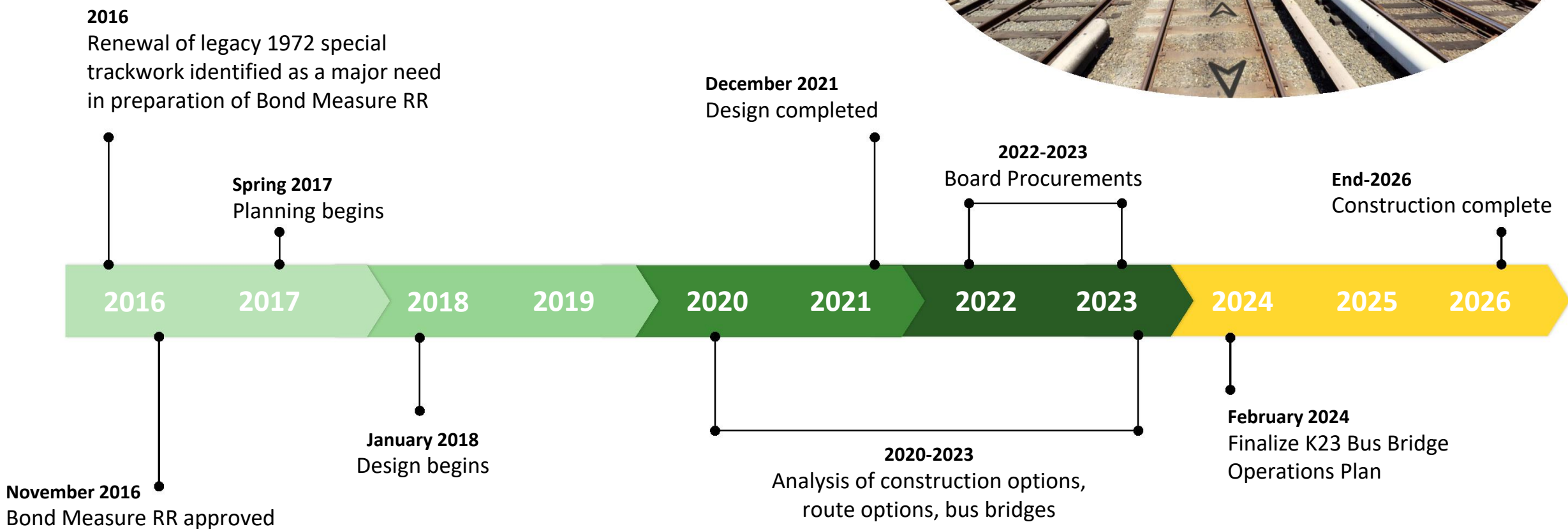


- Switches located in the median of State Route 24
- Only street access is from West MacArthur Blvd
- Rail access is from Oakland Shops, south of Lake Merritt



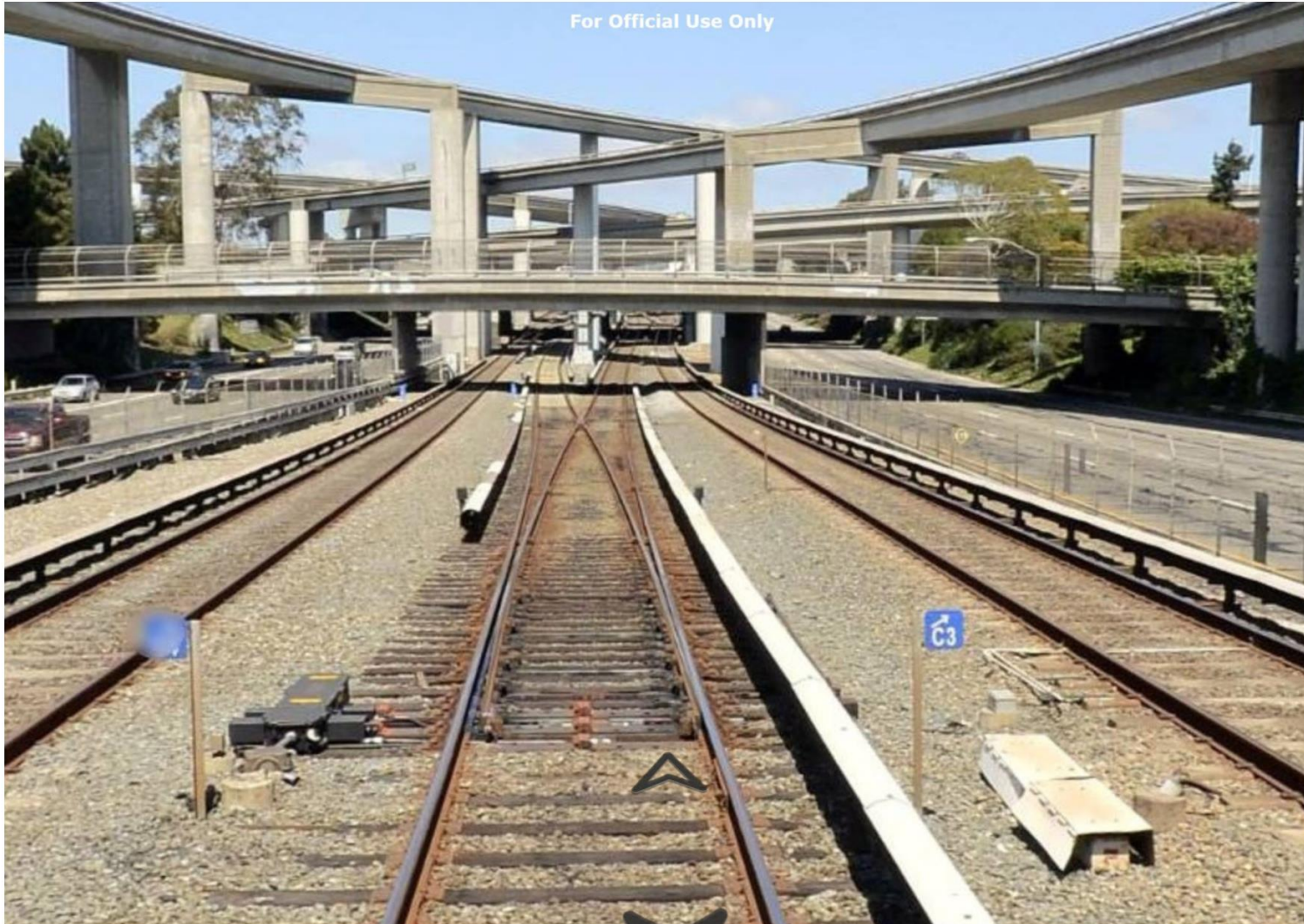
*Access Way for Maintenance on West MacArthur Blvd*

# Project Development





# Project Scope



## K23 & K25 Interlocking Quantities

- 16 switch replacements
- 1,900 concrete ties
- 3,600 LF of traction power cable
- 10,000 LF of conduit
- 13,000 LF of Third Rail
- 14,000 LF of Rail Replacement
- 28,000 LF of signal cable
- Other related work: 34.5 kV Cable Replacement, Enabling Works, Communication Based Train Control (CBTC)



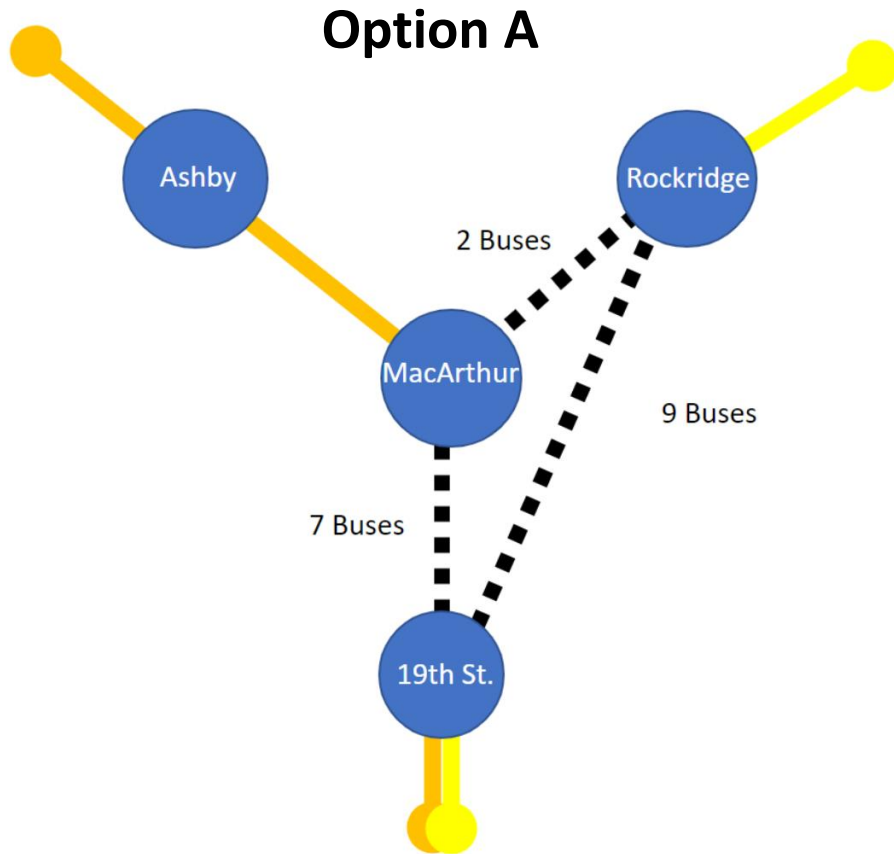
# Site Challenges for Construction



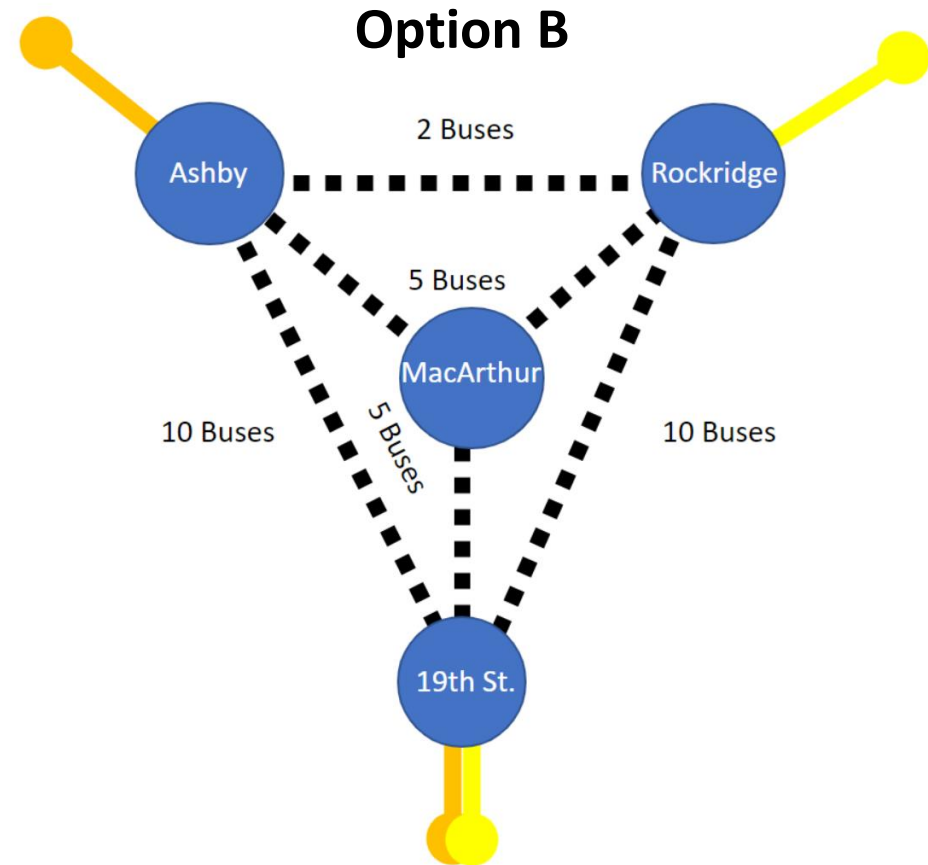
- Additional safety protections required
- Four mainline tracks tightly bundled in the median of State Route 24
- Limited space for crews
- Lack of material storage
- Newly acquired TBT maintenance train will be utilized for material delivery



# Bus Bridge Initial Planning



- Requires 18-20 buses
- Stable operation at 19<sup>th</sup> St. station
- 20-40-minute delays



- Requires 30+ buses: uncertain bus availability
- Major logistical challenges at 19<sup>th</sup> St. station
- 35-45-minute delays



# Bus Bridge Service

## Orange Line: Richmond to Berryessa

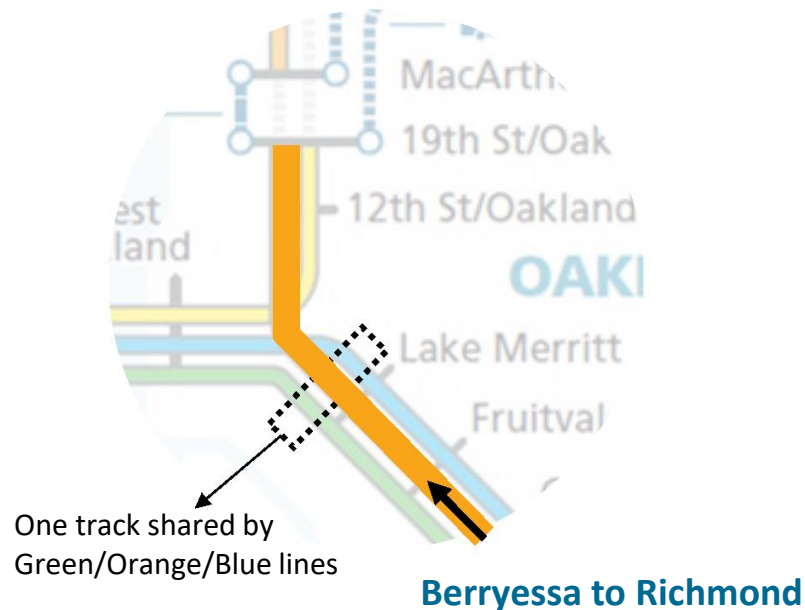
- Bus required from MacArthur to 19<sup>th</sup> St
- 30-minute headways

### Richmond to Berryessa



## Orange Line: Berryessa to Richmond

- Bus required from 19<sup>th</sup> St to MacArthur
- 30-minute headways

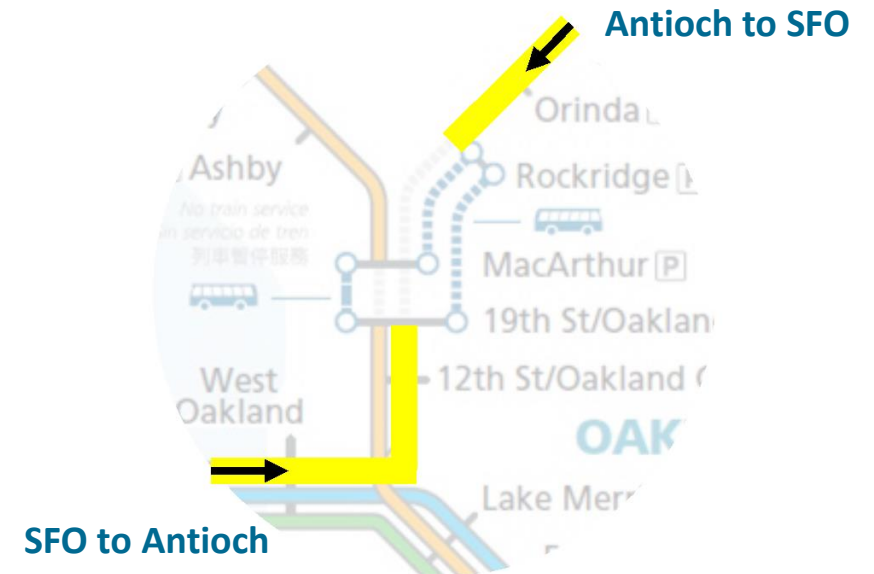


## Yellow Line: Antioch to SFO

- Bus required from Rockridge to 19<sup>th</sup> St

## Yellow Line: SFO to Antioch

- Bus required from 19<sup>th</sup> St to Rockridge
- 20-minute headways
- Distribute passenger flows through 19<sup>th</sup> St





# Bus Bridge Plan

## Train Operations on Bus Bridge Weekends:

- Yellow – 20 min headways
- Orange – 30 min headways
- Red – Cancelled (Millbrae service via the Yellow Line)
- Green – 30 min headways
- Blue – 30 min headways

## Bus Bridge Operations:

- AC Transit and Paratransit
- Up to 20 buses/weekend
- Critical station planning at 19<sup>th</sup> Street, outreach, wayfinding, passenger flows, traffic flows



# Bus Bridge Operations

## Rockridge & MacArthur

- Ample loading area for buses and passengers

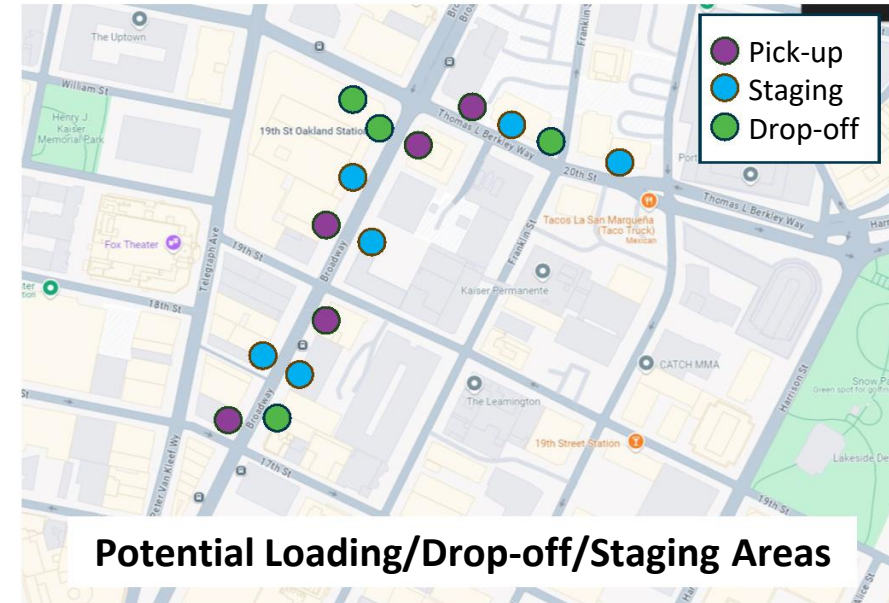
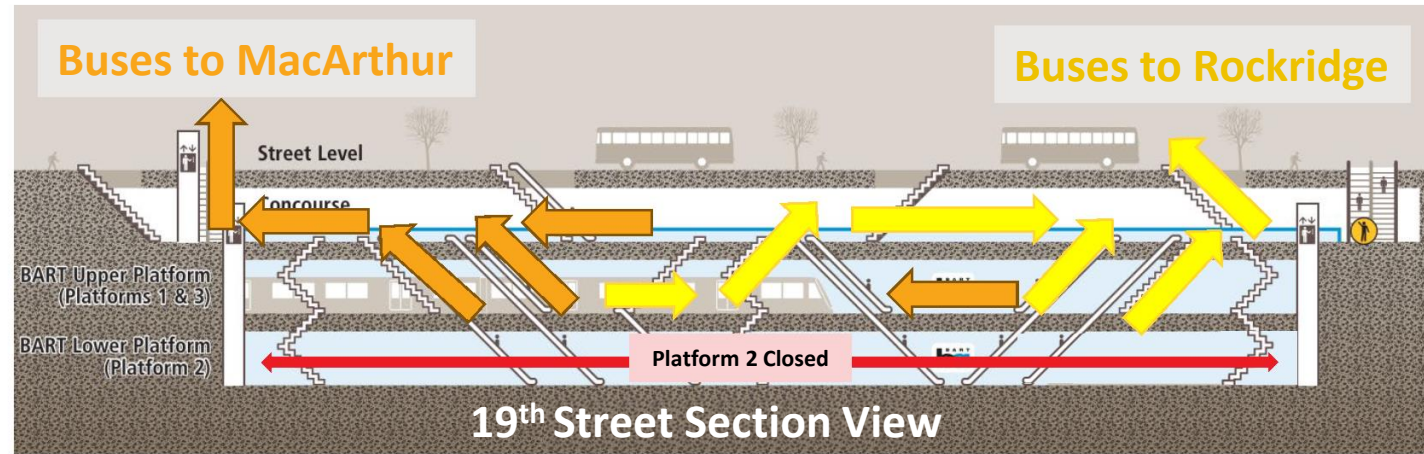
## 19th St. Station

### Constraints

- Operating with existing transit routes
- Shifting construction projects on Broadway and 20th Streets
- Built infrastructure, parking and traffic flow

### Planning Efforts

- All trains will operate on platforms 1 & 3
- Lower-level platform 2 will not be used
- Analyzed use of all possible curb space near station
- Coordinating with Oakland DOT and AC Transit
- Developing robust wayfinding plan to assist with passenger flow











# Thank You

*Connecting BART's Core  
Largest Measure RR Investment  
Most Complex Interlocking Replacement To Date*

