Transbay Transit Center
Bicycle Access and Facilities

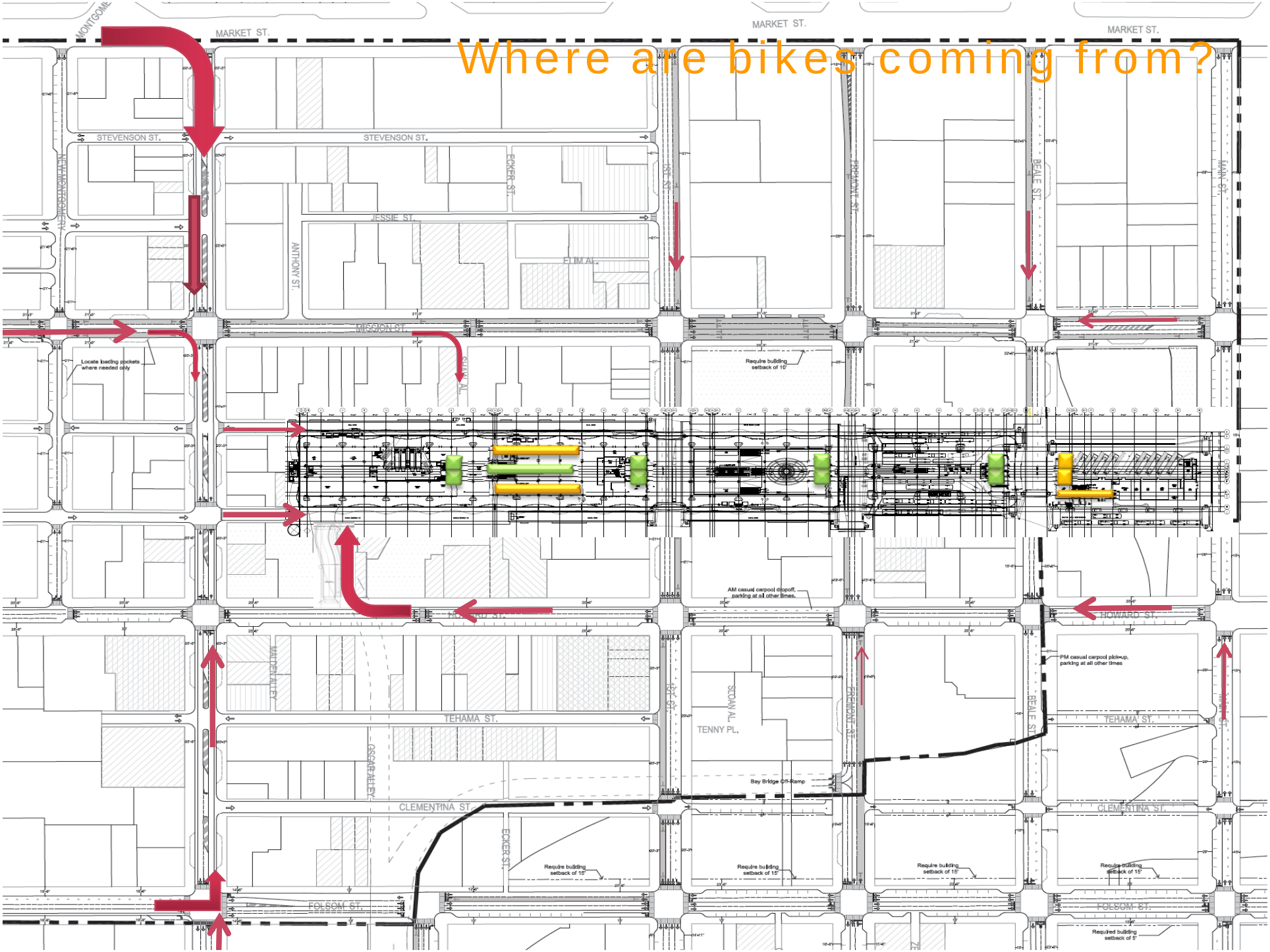
November 10th 2009

Transbay Transit Center

ARUP

TTC Bicycle Facilities
Objectives

- **Provide Safe and Convenient Bicycle Access to**
  - Caltrain
  - AC Transit
  - Muni/ST/GGT
  - High Speed Rail?
- **Provide Bike Parking**
  - Long-Term – secured
  - Short-term – street level
- **Minimize interferences**
- **Established methods**
- **Consider opportunities**


Where are bikes coming from?
MARKET ST.
MARKET ST.
MARKET ST.
STEVENSON ST.
STEVENSON ST.
JESSIE ST.
ANTHONY ST.
ECKER ST.
1ST ST.
FREMONT ST.
BEALE ST.
MAIN ST.
NEW MONTGOMERY
ELIM AL.
MISSION ST.
SHIPYARD AL.
Locate loading pockets where needed only
Require building setback of 10'
AM casual carpool dropoff, parking at all other times.
HOWARD ST.
PM casual carpool pick-up, parking at all other times
MALDEN ALLEY
TEHAMA ST.
SOAN AL.
TENNY PL.
OSCAR ALLEY
Bay Bridge Off-Ramp
CLEMENTINA ST.
Require building setback of 15'
FOLSOM ST.
Required building setback of 5'

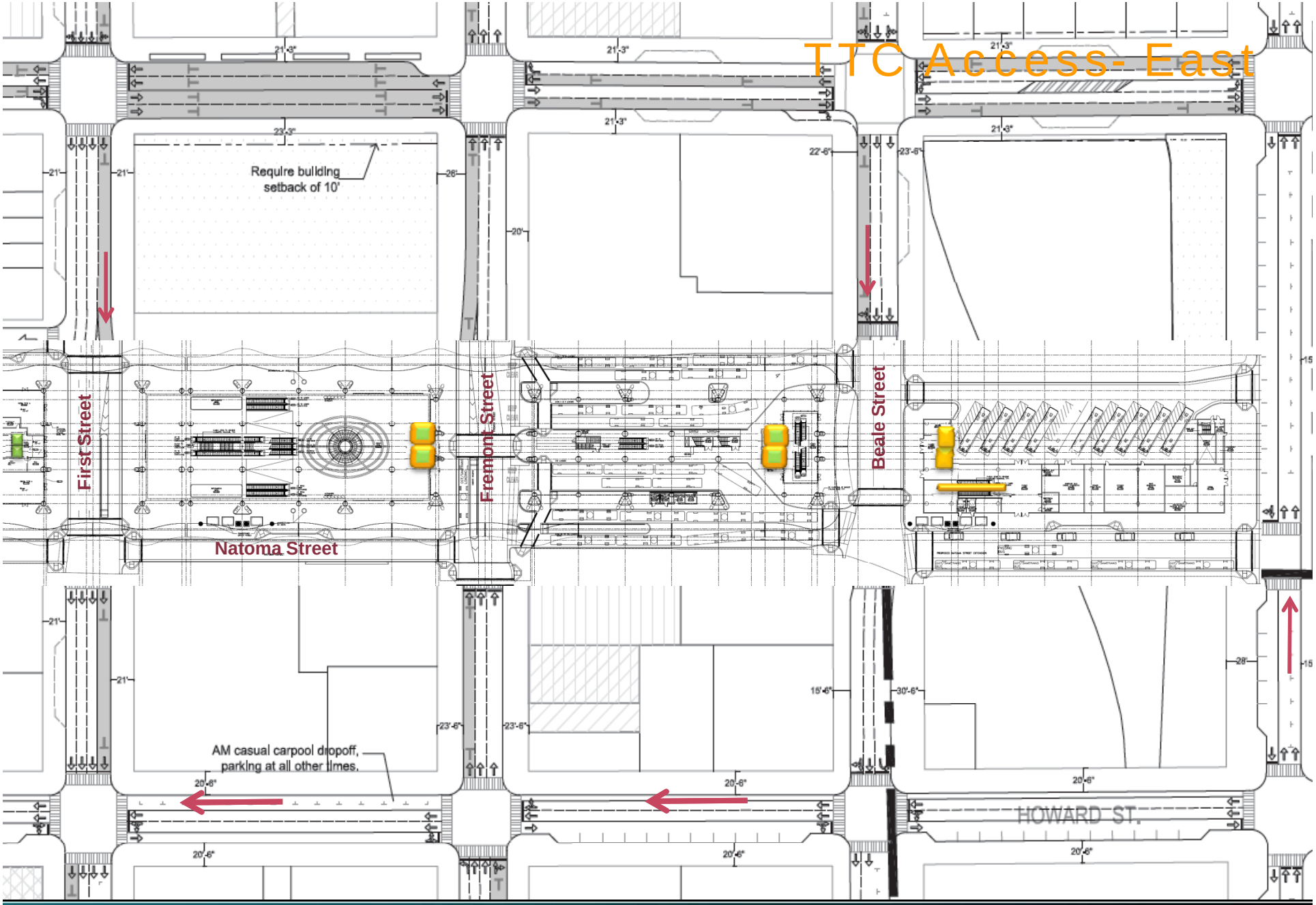
AC Transit and Bus Deck

- **2-3 bikes per bus on front rack**
- **175 buses/hr (2030)**
- **8 Elevators (2-3 bikes/elevator)**
- **Stair w/channel from Shaw Alley**
- **Other Users**
  - Caltrans Bike Shuttle
  - Treasure Island (#108)
  - Amtrak/Greyhound

Caltrain

- **12 trains per hour peak**
- **Peak Hour 650 bikes/hr (arr/dep)**
- **2 Platform elevators**
- **Most demand from West and North**

TTC Access- East



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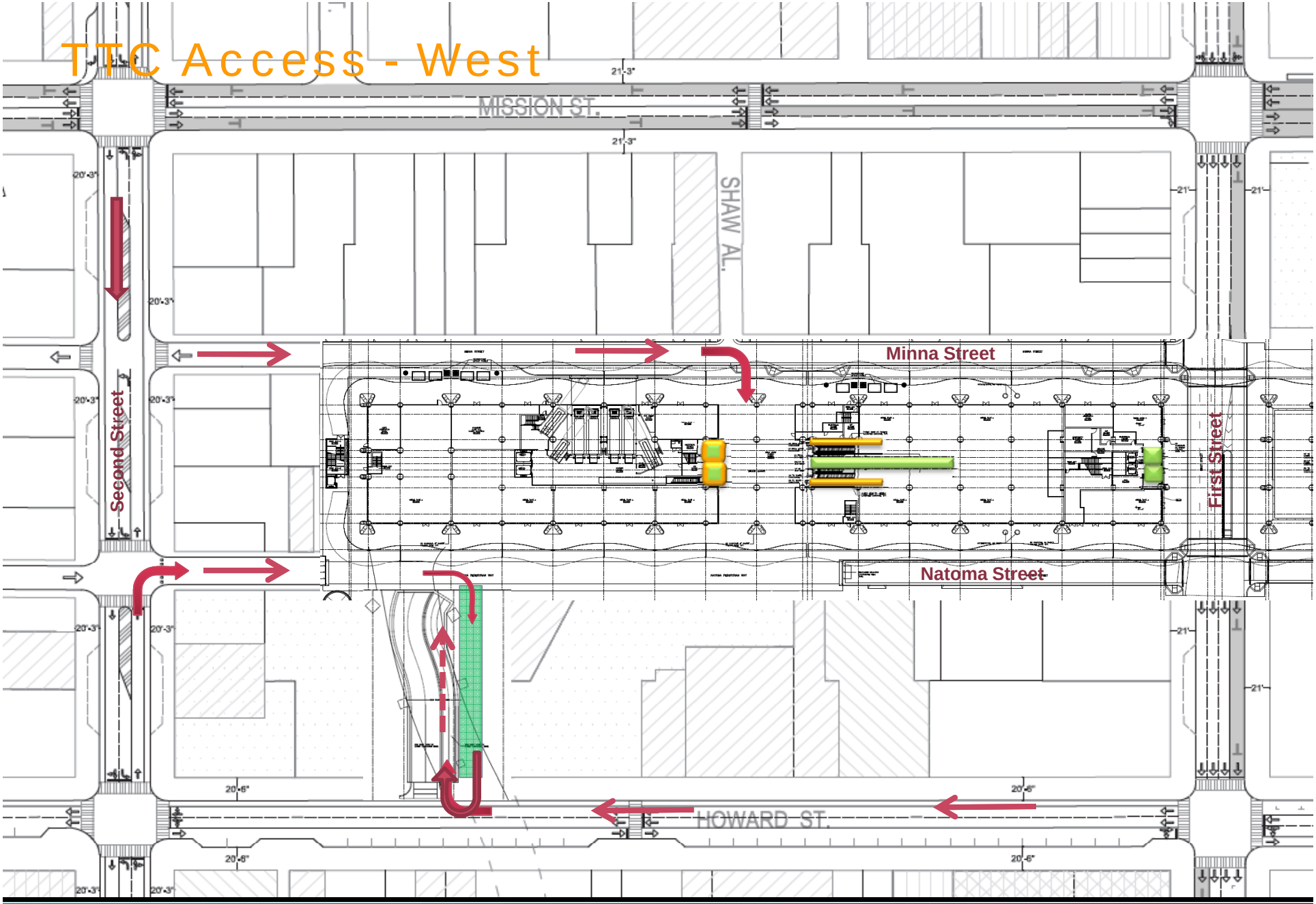
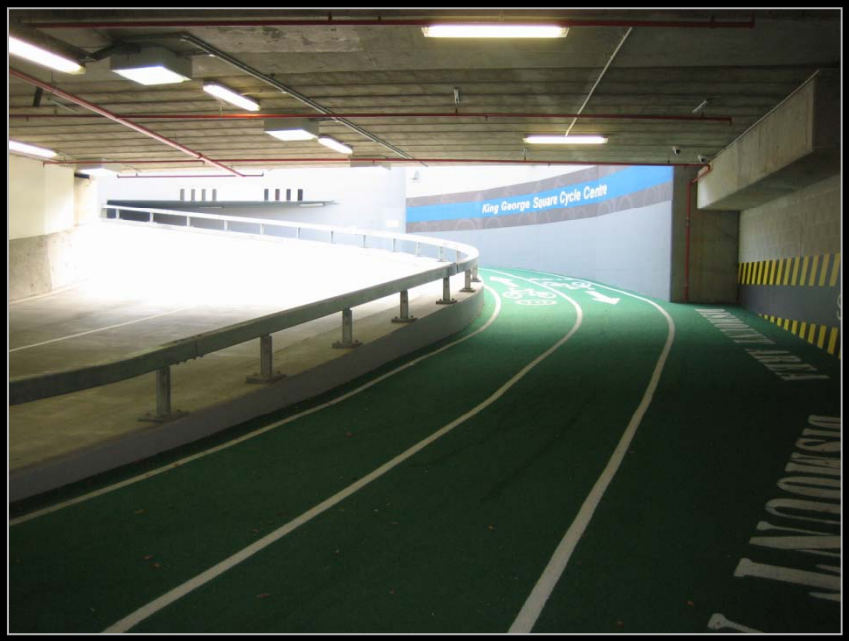
TTC Access - West



Howard Street Bike Ramp

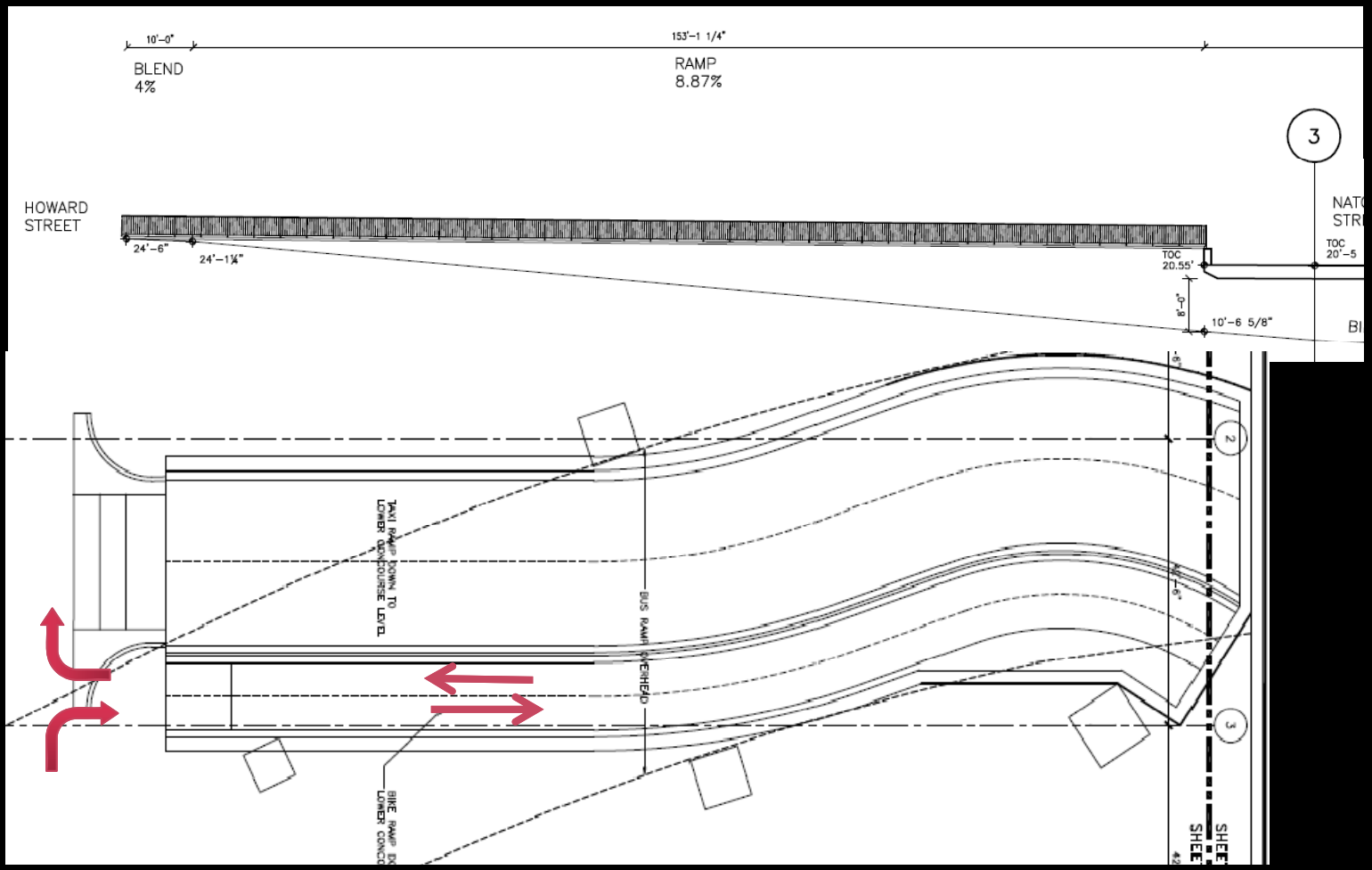
Objectives: Access to Caltrain and Bike Station

- **Connects to Howard Street Bike Lane**
- **Reduce conflicts between bicycles and pedestrians**
- **Designed to AASHTO Design Guidelines (1999)**
  - Max. Grade 8.8% (<200-feet)
  - Recovery/Corner Zone of 2.5%
  - 10’ min. travel way
  - Widened in corners
  - Dismount Zone
  - Non-slip coatings
  - Speed Control



Howard Street Bike Ramp

Objectives: Access to Caltrain and Bike Station



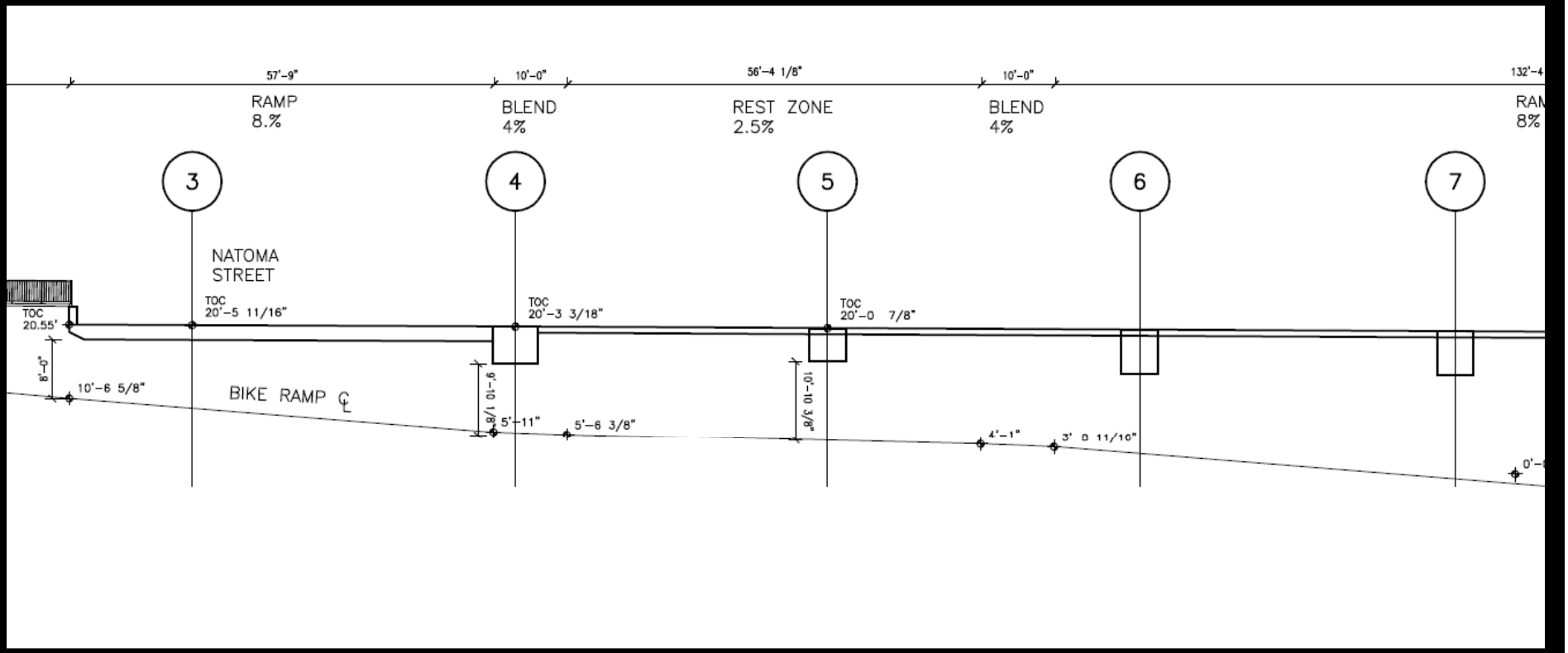
Howard Street Bike Ramp

Objectives: Access to Caltrain and Bike Station

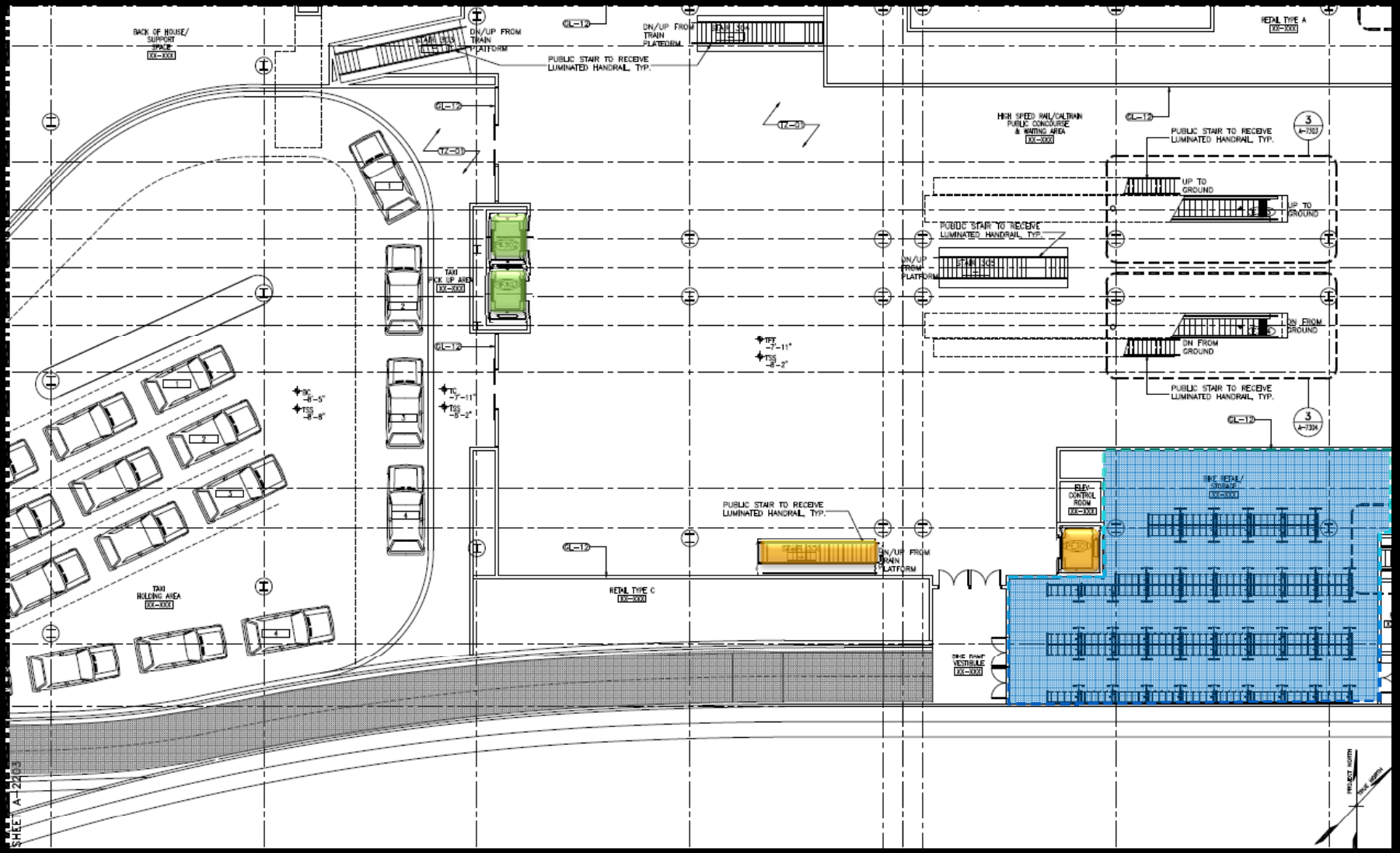
Howard Street Bike Ramp

Objectives: Access to Caltrain and Bike Station

- **400-foot ramp drops 30-feet**
- **8% grades with recovery area of 2.5% grade**

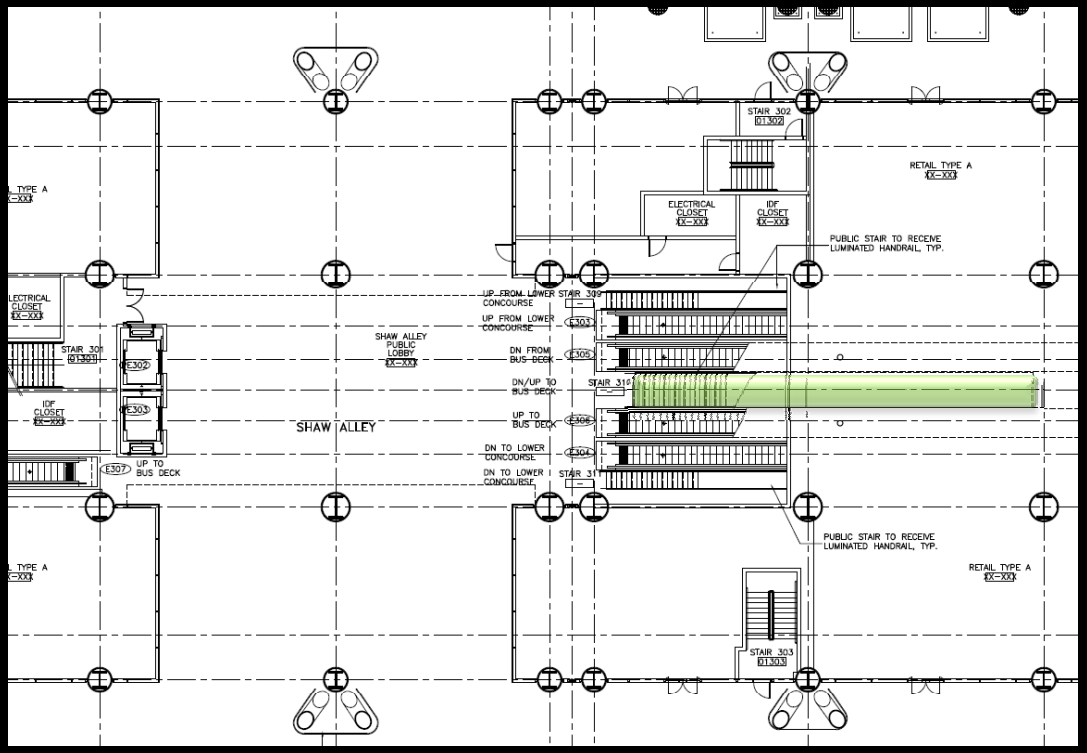


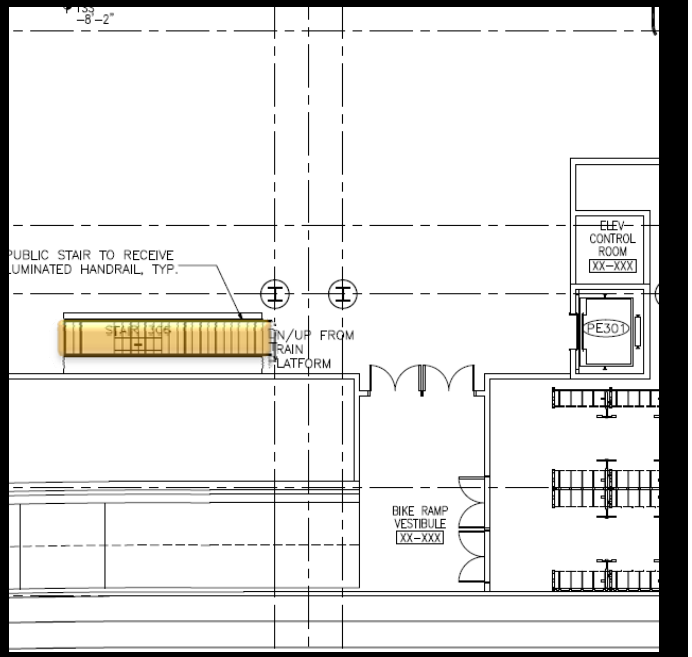
Lower Concourse Bike Access



Stairs and Bike Channels

- **Uphill Direction Only**
- **To AC Transit Deck from Shaw**
- **To Caltrain from Bike Ramp**





Short-Term Bike Parking

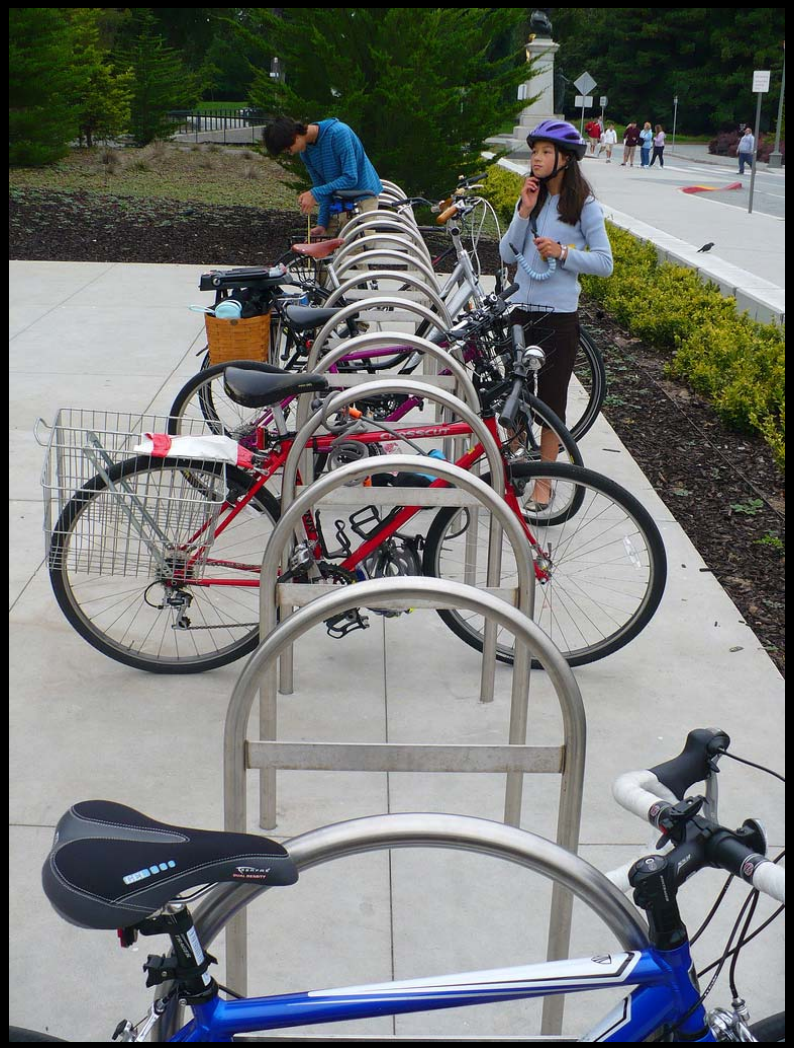
Objectives: Phase 1 and Retail Access

- **Secure Racks Surrounding TTC**
- **Blend with District and Landscaping**
- **Phases 1 & 2**

Short-Term Bike Parking

Objectives: Phase 1 and Retail Access

- **Capacity and Demand**
- **Sidewalk Obstructions**
- **Urban Form**



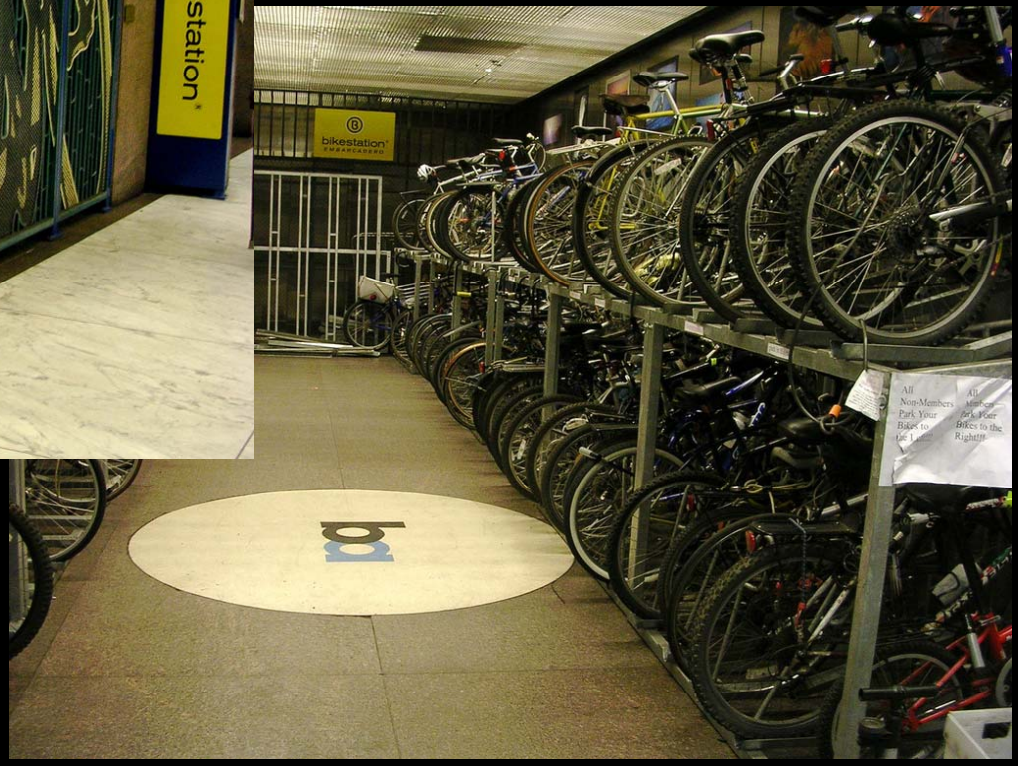
Bike Station

Objective: Long-Term Secure Storage

- **Designed for up to 500 bicycles**
- **Secure - Attended at peak hours**
- **Exploring retail concessions**

Bike Parking Station

Objective: Maximize Storage Options



Next Steps

- **Refine bike ramps, stairs, and elevator access**
- **Locate on-street/sidewalk bike parking**
- **Resolve HSR access**
- **QUESTIONS?**