

PM Conformity Hot Spot Analysis – Project Summary for Interagency Consultation

| | | | | |
|---|--|--|--|--------------|
| RTIP ID# <i>(required)</i> LA0G086 | | | | |
| TCWG Consideration Date April 28, 2015 | | | | |
| Project Description <i>(clearly describe project)</i> The project proposes to construct an elevated off-ramp (fly-over) connector from the northbound I-110 HOT lanes facility to Figueroa Street in downtown Los Angeles. Currently, there is an existing off-ramp from the I-110 HOT lanes to Adams Boulevard. The proposed off-ramp bridge structure would provide an alternate and direct connection for the HOT lanes traffic at the terminus of the existing HOT viaduct to northbound Figueroa Street. The fly-over connector is proposed to have two lanes merging into a single lane to Figueroa Street. | | | | |
| Type of Project <i>(use Table 1 on instruction sheet)</i> New Interchange | | | | |
| County LA | Narrative Location/Route & Postmiles I-110/Postmile 20.10/20.92 Caltrans Projects – EA# 27800 | | | |
| Lead Agency: Caltrans | | | | |
| Contact Person Andrew Yoon | Phone# 213-897-6117 | Fax# 213-897-1634 | Email andrew.yoon@dot.ca.gov | |
| Hot Spot Pollutant of Concern <i>(check one or both)</i> PM2.5 X PM10 X | | | | |
| Federal Action for which Project-Level PM Conformity is Needed <i>(check appropriate box)</i> | | | | |
| Categorical Exclusion (NEPA) | EA or Draft EIS | X FONSI or Final EIS | PS&E or Construction | Other |
| Scheduled Date of Federal Action: 12/2015 | | | | |
| NEPA Assignment – Project Type <i>(check appropriate box)</i> | | | | |
| Exempt | Section 326 – Categorical Exemption | X Section 327 – Non-Categorical Exemption | | |
| Current Programming Dates <i>(as appropriate)</i> | | | | |
| | PE/Environmental | ENG | ROW | CON |
| Start | 7/2014 | 2016 | 2017 | 2022 |
| End | 7/2016 | 2019 | 2019 | 2023 |
| Project Purpose and Need (Summary): <i>(attach additional sheets as necessary)</i> The current terminus of the northbound I-110 HOT lanes and off-ramp at Adams Boulevard presents a particularly challenging bottleneck, as approximately half of the HOT lane traffic exits through the existing off-ramp at Adams Boulevard to access downtown Los Angeles via Figueroa Street. The existing off-ramp and HOT lanes currently experience heavy queuing and congestion. Increasing capacity at this location is the key to ensuring the HOT lanes to manage delay and serve the motorists. The purpose of the project is to alleviate congestion and reduce queuing and delay in the HOT lanes mainline and off-ramp. | | | | |
| Surrounding Land Use/Traffic Generators <i>(especially effect on diesel traffic)</i> Land use consists of commercial and residential uses in the immediately adjacent to the project area, along with manufacturing and public facilities. The Exposition/University Park redevelopment project area is in close proximity to this proposed project. Other developments within 500 feet of the project area include church, hospital, daycare center and children’s school. | | | | |

Opening Year: Build and No Build LOS, AADT, % and # trucks, truck AADT of proposed facility

| Northbound I-110 HOT Lanes, Opening Year 2023 | | | |
|--|-------------|-------|-----------|
| Location | Alternative | ADT | Truck ADT |
| Proposed HOT Off-Ramp to Figueroa St | Build | 26400 | 0 |
| HOT Off-Ramp to Adams Bl | No-Build | 22000 | 0 |
| | Build | 6600 | 0 |

| Northbound I-110 HOT Lanes, Opening Year 2023 | | | | | |
|---|-------------|---------------|----|-----------------------|-------|
| Intersection | Alternative | Peak Hour LOS | | Peak Hour Delay (sec) | |
| | | AM | PM | AM | PM |
| HOT Off-Ramp & Adams Bl | No-Build | F | F | 216.7 | 174.6 |
| | Build | F | C | 111.4 | 27.7 |
| Figueroa NB & 23 rd near proposed HOT Off-Ramp | No-Build | E | D | 58.2 | 52 |
| | Build | D | C | 49.9 | 34 |

RTP Horizon Year / Design Year: Build and No Build LOS, AADT, % and # trucks, truck AADT of proposed facility

| Northbound I-110 HOT Lanes, Horizon Year 2040 | | | |
|--|-------------|-------|-----------|
| Location | Alternative | ADT | Truck ADT |
| Proposed HOT Off-Ramp to Figueroa St | Build | 33600 | 0 |
| HOT Off-Ramp to Adams Bl | No-Build | 27000 | 0 |
| | Build | 8400 | 0 |

| Northbound I-110 HOT Lanes, Horizon Year 2040 | | | | | |
|---|----------|---------------|----|-----------------------|-------|
| Intersection | Location | Peak Hour LOS | | Peak Hour Delay (sec) | |
| | | AM | PM | AM | PM |
| HOT Off-Ramp & Adams Bl | No-Build | F | F | 264.6 | 197.8 |
| | Build | F | D | 166.7 | 39.7 |
| Figueroa NB & 23 rd near proposed HOT Off-Ramp | No-Build | F | E | 85.4 | 63.2 |
| | Build | E | C | 77.3 | 33.6 |

Opening Year: If facility is an interchange(s) or intersection(s), Build and No Build cross-street AADT, % and # trucks, truck AADT

| Cross Street Data for Opening Year 2023 | | | |
|--|-------------|-------|-----------|
| Location | Alternative | ADT | Truck ADT |
| Figueroa St North of 23 rd St | No-Build | 24092 | 482 |
| | Build | 31483 | 630 |
| Adams Bl between Figueroa St & Flower St | No-Build | 25725 | 515 |
| | Build | 21167 | 423 |
| Adams Bl between Flower St & Existing HOT Off-Ramp | No-Build | 30683 | 614 |
| | Build | 17783 | 356 |

| Northbound I-110 HOT Lanes, Opening Year 2023 | | | | | |
|---|-------------|---------------|----|-----------------------|-------|
| Intersection | Alternative | Peak Hour LOS | | Peak Hour Delay (sec) | |
| | | AM | PM | AM | PM |
| HOT Off-Ramp & Adams Bl | No-Build | F | F | 216.7 | 174.6 |
| | Build | F | C | 111.4 | 27.7 |
| Figueroa NB & 23 rd near proposed HOT Off-Ramp | No-Build | E | D | 58.2 | 52 |
| | Build | D | C | 49.9 | 34 |

RTP Horizon Year / Design Year: If facility is an interchange (s) or intersection(s), Build and No Build cross-street AADT, % and # trucks, truck AADT

| Cross Street Data for Horizon Year 2040 | | | |
|--|-------------|-------|-----------|
| Location | Alternative | ADT | Truck ADT |
| Figueroa St North of 23 rd St | No-Build | 25925 | 519 |
| | Build | 33883 | 678 |
| Adams BI between Figueroa St & Flower St | No-Build | 27683 | 554 |
| | Build | 22758 | 455 |
| Adams BI between Flower St & Existing HOT Off-Ramp | No-Build | 33017 | 660 |
| | Build | 19267 | 385 |

| Cross Street Data, Horizon Year 2040 | | | | | |
|--------------------------------------|----------|---------------|----|-----------------------|-------|
| Alternative | Location | Peak Hour LOS | | Peak Hour Delay (sec) | |
| | | AM | PM | AM | PM |
| NB I-110 off-ramps & Adams Blvd. | No-Build | F | F | 264.6 | 197.8 |
| | Build | F | D | 166.7 | 39.7 |
| Figueroa St. & 23rd St. | No-Build | F | E | 85.4 | 63.2 |
| | Build | E | C | 77.3 | 33.6 |

Describe potential traffic redistribution effects of congestion relief (impact on other facilities)

The proposed project would help motorists bypass the current bottleneck intersection at Flower/Adams and provide a direct connection from the HOT lanes to Figueroa Street. This would alleviate the queuing and improve the operation and safety of the HOT lanes facility within the project area. According to the Traffic Study Report prepared by Caltrans (April 2015), the SYNCHRO simulation model indicates that the proposed fly-over HOT off-ramp to Figueroa Street would alleviate traffic congestions at key analyzed intersections in the vicinity of the project.

Comments/Explanation/Details (attach additional sheets as necessary)

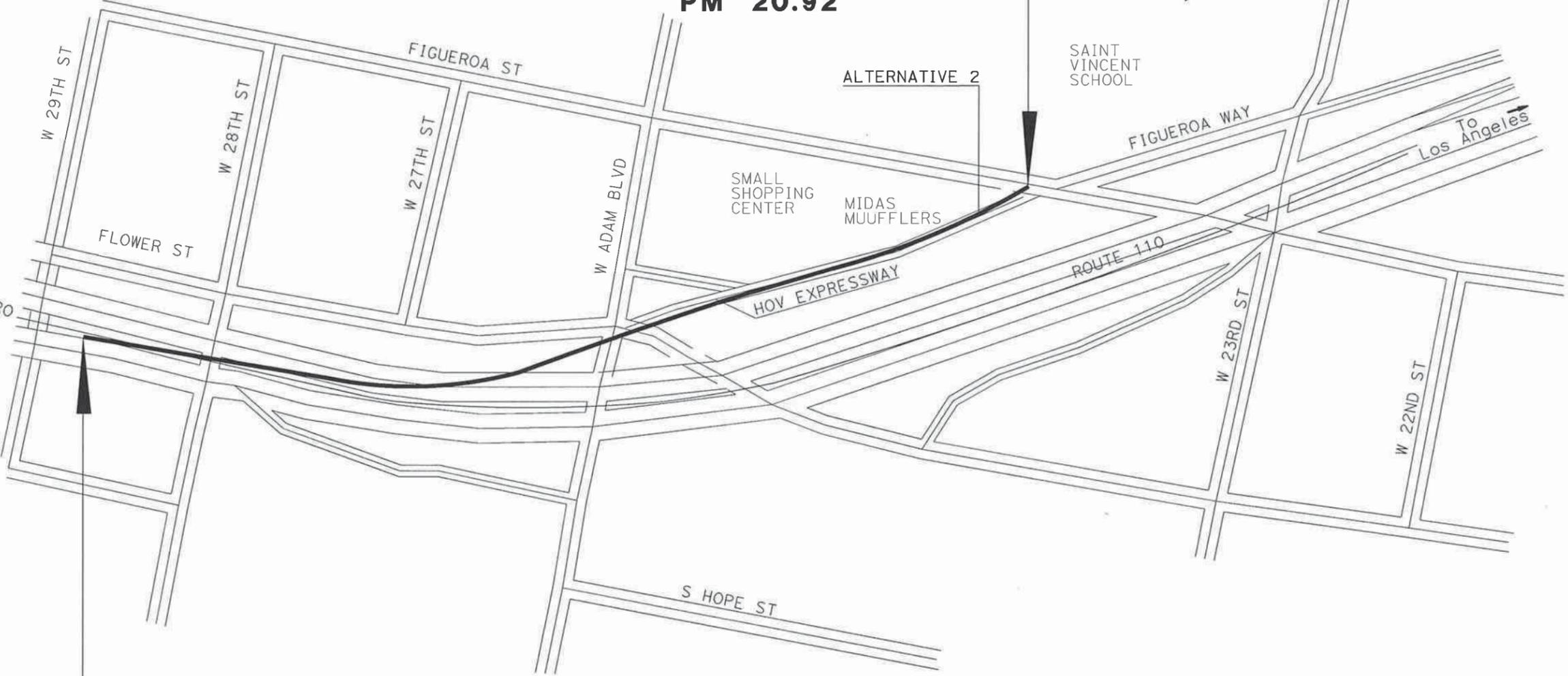
The project is proposed to provide an alternate bypass for the current bottleneck intersections; to reduce the queuing; and to improve the operation and safety of the HOT lanes facility and off-ramps. According to the traffic data, the proposed project is anticipated to improve the delay and LOS at the existing HOT lane off-ramp at Adams Boulevard. The projected 2040 ADT and truck traffic for the proposed facility and the arterials in the vicinity are far less than those criteria listed in the 40 CFR 92.123(b)(1). The State vehicle code prohibits use of high occupancy facilities by heavy duty truck traffic; and thus the heavy duty trucks are not anticipated to use the proposed off-ramp. The delay and LOS at several intersections are anticipated to improve as a result of the project. The proposed project would thus not be of air quality concern for PM_{2.5} and PM₁₀.



PROJECT LOCATION MAP

CITY OF LOS ANGELES

**END CONSTRUCTION
PM 20.92**



**BEGIN CONSTRUCTION
PM 20.58**

VICINITY MAP

NO SCALE

TO SAN PEDRO

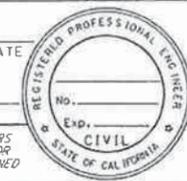
To Los Angeles

| | | | | | |
|------|--------|-------|--------------------------|-----------|--------------|
| Dist | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No. | TOTAL SHEETS |
| 07 | LA | 110 | 20.10/20.92 | | |

REGISTERED CIVIL ENGINEER DATE _____

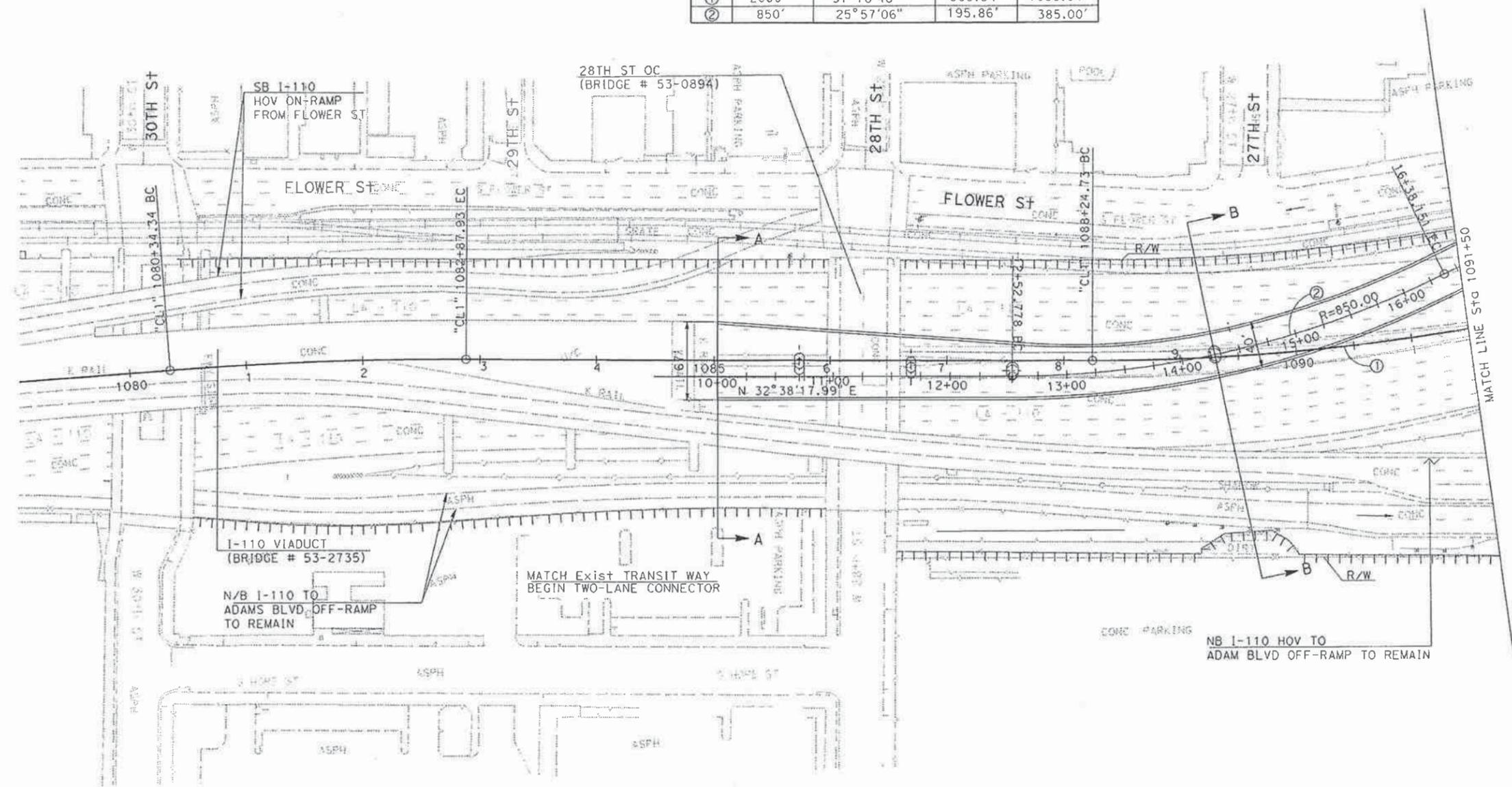
PLANS APPROVAL DATE _____

THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.



CURVE DATA

| No. | R | Δ | T | L |
|-----|-------|-----------|---------|----------|
| ① | 2000' | 31°18'48" | 560.54' | 1093.04' |
| ② | 850' | 25°57'06" | 195.86' | 385.00' |



STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans

REVISOR BY: _____ DATE REVISED: _____

CALCULATED-DESIGNED BY: _____ CHECKED BY: _____

FUNCTIONAL SUPERVISOR: _____

ALTERNATIVE 2

SCALE: 1" = 50'

L-1

LAST REVISION DATE PLOTTED => 24-JUN-2014 00-00-00 TIME PLOTTED => 09:05

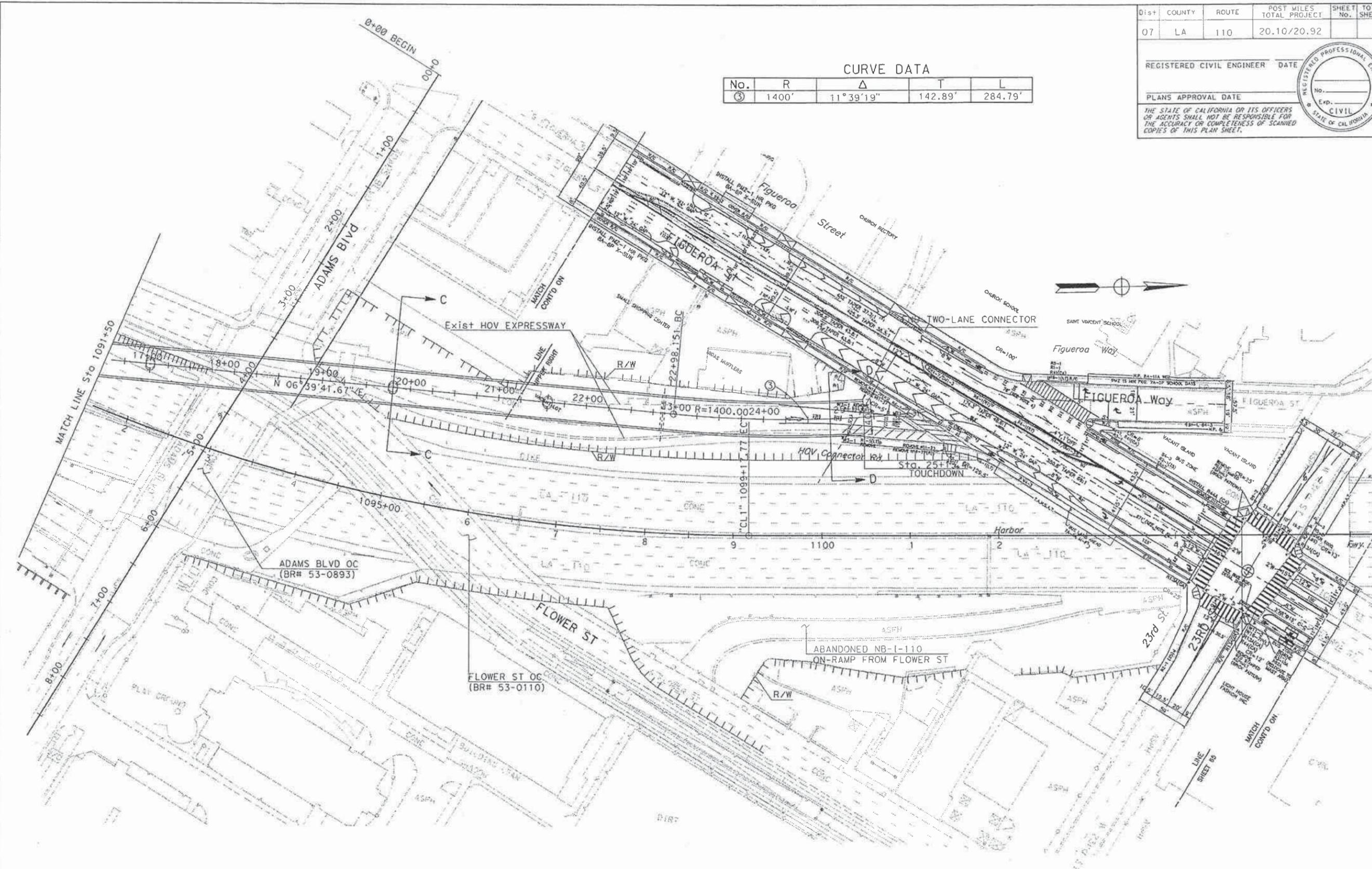
| | | | | | |
|------|--------|-------|--------------------------|-----------|--------------|
| Dist | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No. | TOTAL SHEETS |
| 07 | LA | 110 | 20.10/20.92 | | |

| | |
|---------------------------|------|
| REGISTERED CIVIL ENGINEER | DATE |
| PLANS APPROVAL DATE | |

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CURVE DATA

| No. | R | Δ | T | L |
|-----|-------|-----------|---------|---------|
| ③ | 1400' | 11°39'19" | 142.89' | 284.79' |



ALTERNATIVE 2
SCALE: 1" = 50'
L-2

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans DESIGN
 FUNCTIONAL SUPERVISOR
 CHECKED BY
 CALCULATED/DESIGNED BY
 REVISOR BY
 DATE REVISOR

BORDER LAST REVISED 4/11/2008

RELATIVE BORDER SCALE IS IN INCHES

USERNAME => s129590
 DGN FILE => 727800e02.dgn
 CU 1821
 070000537 0
 EA 278000

DATE PLOTTED => 24-JUN-2014
 TIME PLOTTED => 09:05