

City of Anaheim
DEPARTMENT OF PUBLIC WORKS



May 26, 2021

Ms. Stephanie Chhan
Orange County Transportation Authority
600 South Main Street
Orange, CA 92863

RE: REQUEST FOR MASTER PLAN OF ARTERIAL HIGHWAYS (MPAH)
AMENDMENT – SANTA ANA CANYON ROAD BETWEEN ROOSEVELT
ROAD AND WEIR CANYON ROAD

Dear Ms. Chhan:

The City of Anaheim is requesting the formal initiation of a Master Plan of Arterial Highways (MPAH) Amendment process for Santa Ana Canyon Road between Roosevelt Road and Weir Canyon Road.

Existing Conditions

Santa Ana Canyon Rd between Roosevelt Rd and Weir Canyon Rd is currently classified as a Major Arterial in the MPAH. Major Arterials are defined as 6 lane (3 lanes in each direction) divided roadways. Currently, that portion of Santa Ana Canyon Rd is consistent with the MPAH classification as it is a divided roadway which provides 6 lanes (3 in each direction).

Proposed Classification

The proposed modification to the MPAH is for an asymmetric re-classification of Santa Ana Canyon Rd between Roosevelt Rd and Weir Canyon Rd. The City is requesting Santa Ana Canyon Rd (eastbound) between Roosevelt Rd and Weir Canyon Rd to be re-classified from its current Major Arterial classification to an Asymmetric Primary Arterial classification. The roadway would then provide 3 through lanes in the westbound direction and 2 through lanes eastbound.

The asymmetric re-classification would facilitate implementation of the City's General Plan Circulation Element. As part of the City's Circulation Element Planned Roadway Network, this portion of Santa Ana Canyon Rd is classified as a Divided Scenic Expressway (4 to 6 lanes, divided – 2 to 3 lanes in each direction). The ultimate lane configuration for the eastbound approach at the intersection Santa Ana Canyon Rd and Weir Canyon Rd includes 3 left-turn lanes, 2 through lanes, and 1 right turn lane. Although 3 lanes are currently provided in the eastbound direction, one of those through lanes will be converted to a left-turn lane, ultimately reducing the through lanes to 2 lanes. Although the MPAH classifies Santa Ana Canyon Rd east of Weir Canyon Rd as Primary Arterial which only provides 2 lanes in each direction, the

MPAH Guidelines Section 3.10.3 states 3 through lanes should be provided through the intersection.

“A transition in arterial classification of a roadway from one side of an intersection to the other should be made by transitioning the higher classification to the lower classification over a specified section beyond the intersection where feasible.”

The City’s General Plan Circulation Element remains consistent with the MPAH classification of Santa Ana Canyon Rd as an Asymmetric Primary Arterial.

Justification

The lane configuration at the intersection of Santa Ana Canyon Rd east of Weir Canyon Rd was determined through an intersection Level of Service analysis, which demonstrated a high eastbound left-turn volume for vehicles going to SR-91, and a lower eastbound through volume. As such, the intersection analysis demonstrated a need for 3 left turn lanes and only 2 through lanes.

The latest OCTA Orange County Traffic Analysis Model (OCTAM) Year 2045 Daily Traffic Volume Forecasts support the re-classification. The forecasted daily volume for that portion of Santa Ana Canyon Rd is 36,000 vehicles, and Table A-4-1 from the MPAH Guidelines provide an asymmetrical Level of Service C (LOS C) total capacity of 37,500 for an Asymmetric Primary Arterial.

Table A-4-1: Arterial Highways MPAH Capacity Values

| Type of Arterial | | Level of Service | | | | | | Assymetric Capacity / Added Lane | | | |
|------------------|---------------|------------------|--------|--------|--------|--------|----|----------------------------------|-------|-------|----|
| | | A | B | C | D | E | F | C | D | E | F |
| 4 | Lanes Divided | 22,500 | 26,300 | 30,000 | 33,800 | 37,500 | -- | 7,500 | 8,400 | 9,400 | -- |

Ultimately, although the re-classification results in a reduction in through lanes at the intersection, the asymmetrical configurations still maintains the OCTA MPAH LOS C criteria on roadway segments.

Please feel free to contact Rafael Cobian, City Traffic Engineer, at 714-765-4991 or via email at rcobian@anaheim.net if you have any questions or need any additional information for this MPAH amendment request.

Sincerely,

Rudy Emami, P.E.
 Director of Public Works

C: Carlos Castellanos, City Engineer
 Rafael Cobian, City Traffic Engineer