



# 91 Express Lanes and the Foothill Transportation Corridor (State Route 241) Connector Update



# Purpose of Feasibility Study



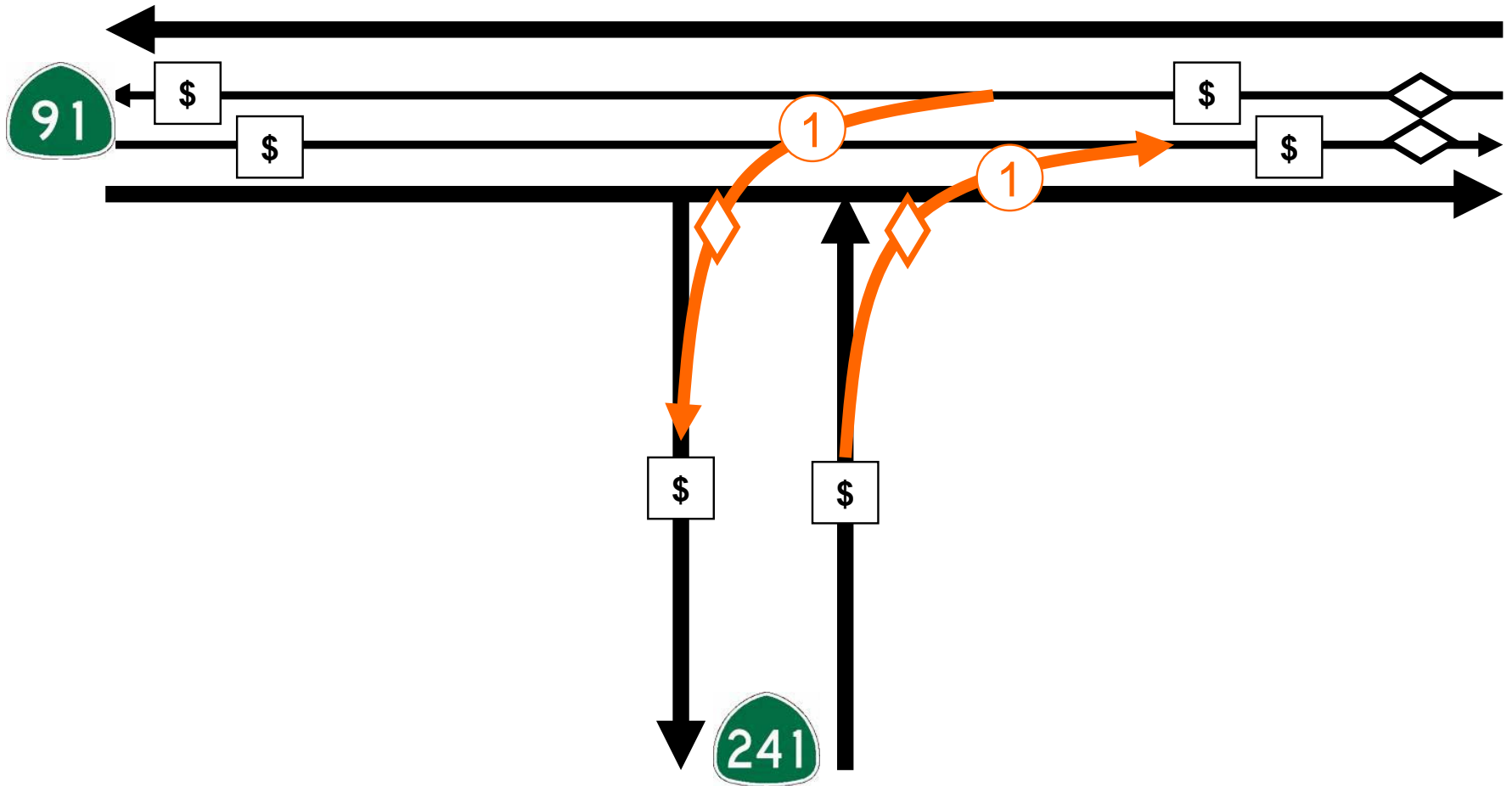
- Purpose of study
  - Provide connectivity between 91 Express Lanes and SR-241
  - Determine a logical termination of the addition of the third express lane
- Concept originated from TCA's SR-241 Project
  - TCA completed feasibility study in 2001
- Process begin with six alternative concepts
  - Narrowed down to three
- Completed in March 2009

SR-241 – Foothill Transportation Corridor (State Route 241)

TCA – Transportation Corridor Agencies

- **Alternative Concepts (ACs)**
  - 1) Two-lane high-occupancy vehicle (HOV)/  
high-occupancy toll (HOT) connector to existing  
91 Express Lanes
  - 2) Four-lane HOT connector to existing  
91 Express Lanes
  - 3) Two-lane reversible HOT connector to existing  
91 Express Lanes

# AC 1: Two-lane HOV/HOT Connector to Existing 91 Express Lanes



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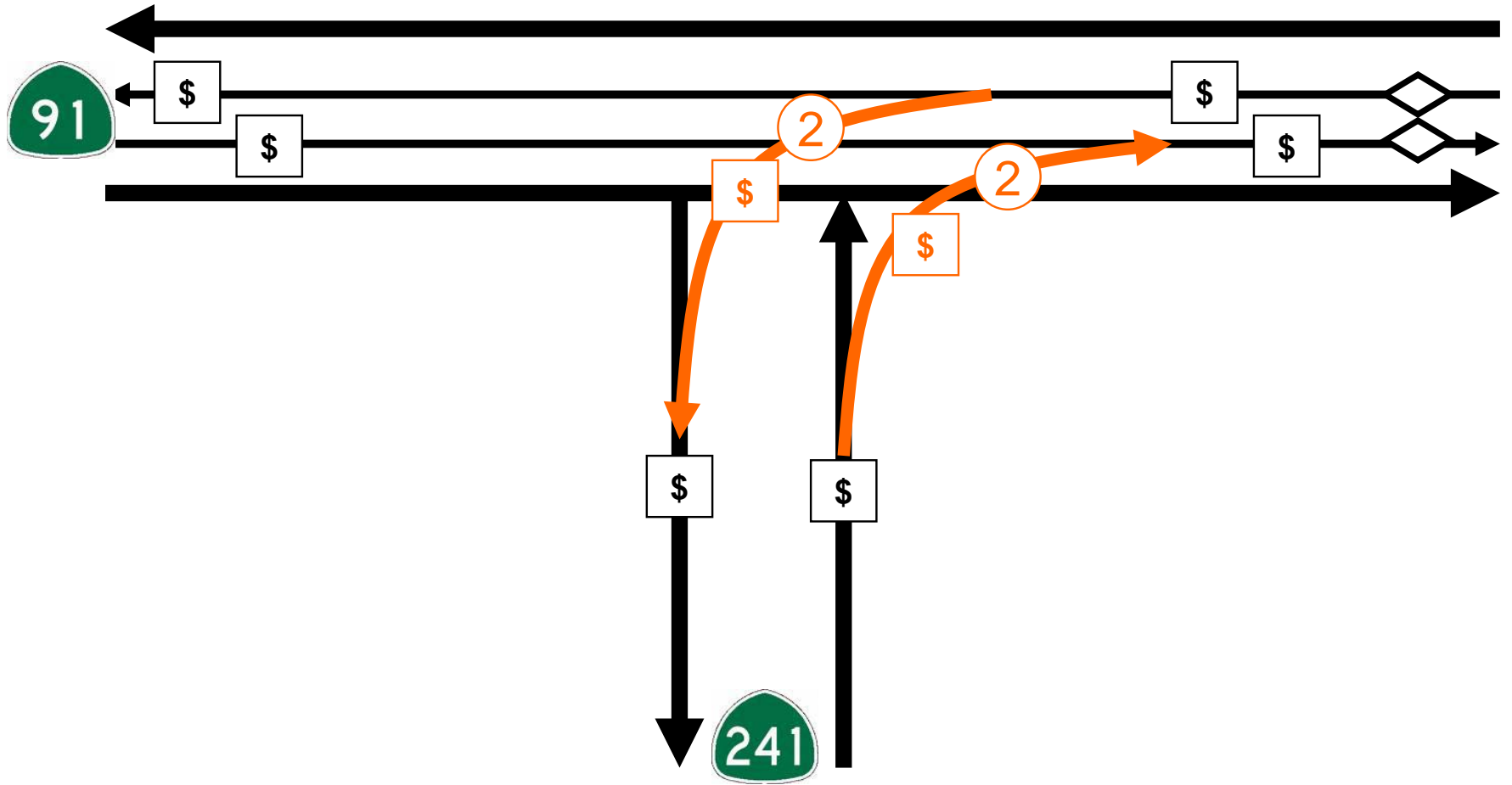
## ■ Pros

- Consistent with Caltrans' HOV design standards
- Minimizes construction cost
- Consistent with SR-241 environmental document
- 3+ free promotes carpool and transit
- One lane is likely sufficient capacity for HOV/HOT

## ■ Cons

- May conflict with plans to extend the toll lanes into Riverside County

# AC 2: Four-lane HOT Connector to Existing 91 Express Lanes

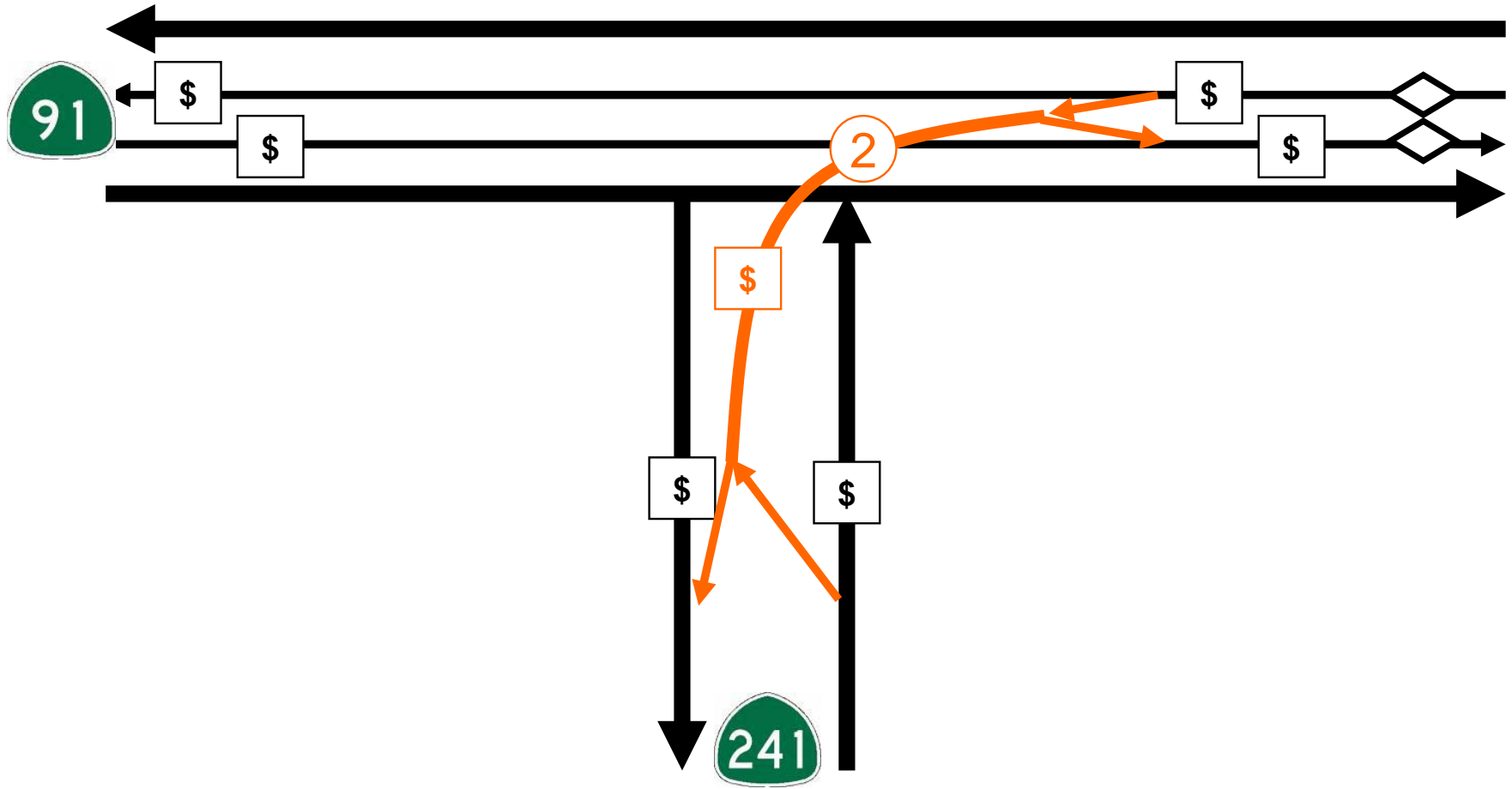


# AC 2: Four-lane HOT Connector to Existing 91 Express Lanes



- Pros
  - Highest capacity option
  - Allows for some toll revenue
- Cons
  - Potential operations issues if 91 Express Lanes extension is not built
  - Higher construction cost
  - Right-of-way constraints

# AC 3: Two-lane Reversible HOT Connector to Existing 91 Express Lanes





# AC 3: Two-lane Reversible HOT Connector to Existing 91 Express Lanes



## ■ Pros

- Minimizes construction cost
- Allows for some toll revenue
- Focuses on peak travel conditions

## ■ Cons

- Increases ongoing maintenance costs
- Requires complex signing and control on both the 91 Express Lanes and SR-241
- Future directional splits may not be as severe
- Potential operations issues if Express Lanes extension is not built

- Complete traffic and revenue study
- Outline roles and responsibilities with TCA and Caltrans
- Identify and initiate next project development phase
  - Update project to reflect RCTC's corridor improvement, SR-91/SR-71, and SR-91/I-15 projects
  - Further development of the three ACs

SR-91 – Riverside Freeway (State Route 91)

SR-71 – Ortega Highway (State Route 71)

I-5 – Santa Ana Freeway (Interstate 5)