

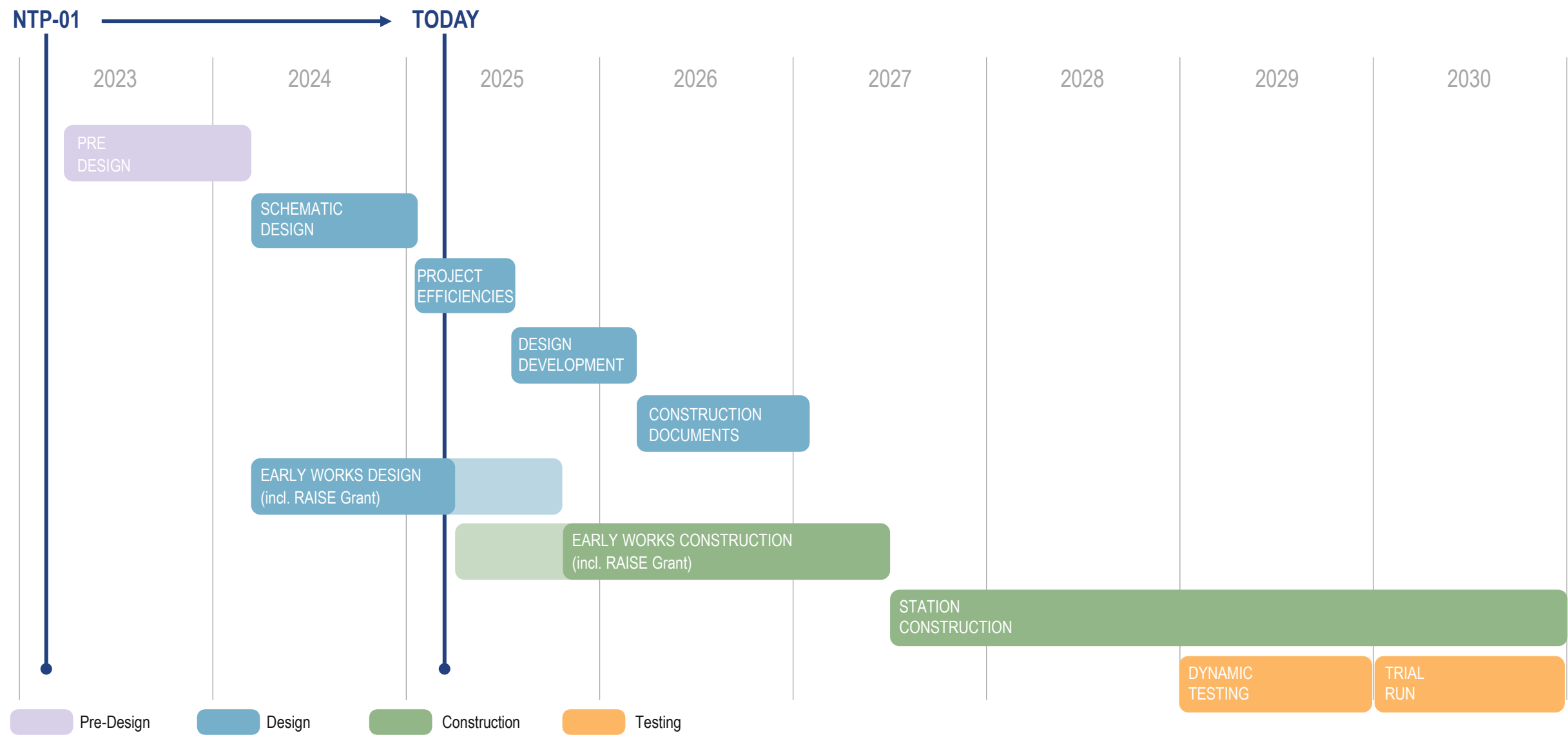


**CALIFORNIA**  
High-Speed Rail Authority

# **Central Valley Station Design Update: Request to Advance to NTP2 work**

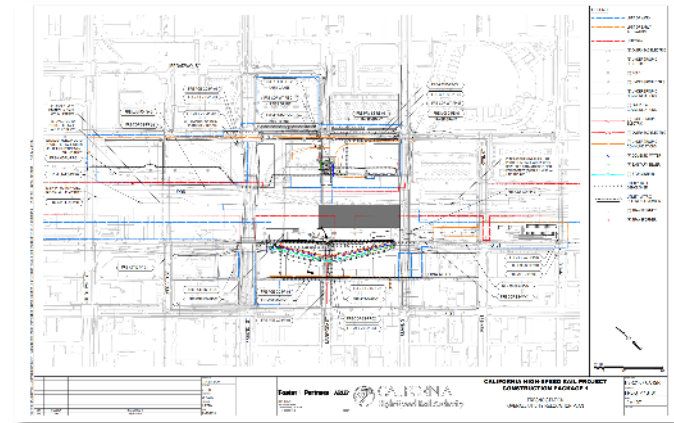
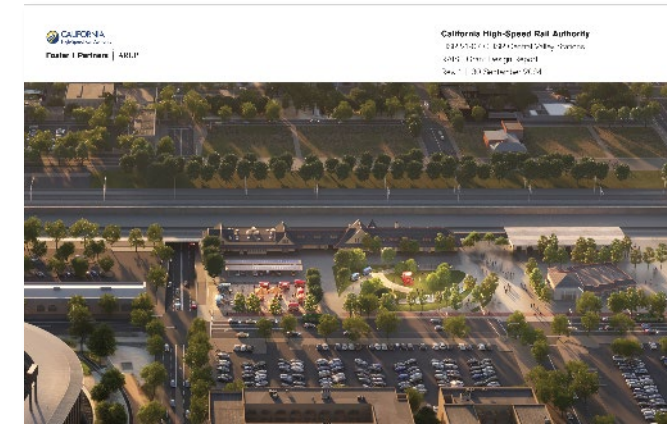
May 1, 2025

# Project Schedule



# NTP-01 List of Major Deliverables

- Accessibility Report
- Acoustic, Vibration & PA Evaluation Report
- Basis of Design\_Vol\_1
  - Architecture Station Design, Urban Planning
- Basis of Design\_Vol\_2
  - Landscape Design, Lighting Design, Security Principles, Vertical Transportation
- BIM Execution Plan
- Building Physics Report
- Complete drawing in all disciplines and architectural rendering packages for all four stations
- Civil Engineering Design Report (CEDR)
- Climate Data Report
- Climate Risk and Resilience Report
- Communications Management Plan (CMP)
- Cost Analysis Report
- Cost Estimate Report
- Crime Prevention Through Environmental Design (CPTED)
- Design Basis Threat Report
- Document Control Management Plan
- Electrical Design Report
- Environmental Report
- Facade Access and maintenance strategy Report
- Fire Life Safety Report (with calcs)
- Fresno Early Site Activation Concept Site Plan
- Fresno Early Site Activation Schematic Design / Design Development
- Fresno Early Site Activation Cost Estimate
- Fresno Early Site Activation
- Geothermal Study
- Health and Safety Management Plan (H&S)
- ICT Design Report (ICDR)
- Interface Control Documents
- Interim Climate Risk Assessment Memo
- Logistics, Operations, and Waste Management Design Report (LODR)
- Mechanical Engineering Design Report
- Pedestrian Planning & Analysis Report
- Preliminary Structural Type Selection Report
- Plumbing Design Report
- RAM Management Plan
- Resilience Hub Memo (Station Resilience Memo)
- Schematic Design Requirement Management
- Security Requirements Report
- Security System Design Report (SCDR)
- Station Resilience Hub Report
- Structural Engineering Design Report (SEDR)
- Sustainability Report
- Sustainability Requirements Master Tracker
- Train Aerodynamics Study
- Train Environmental Noise Preliminary Report
- Schematic Design Specifications
- Transport Planning & Traffic Design Report (TRDR)
- Utility Relocation Preliminary Concept Design
- Utility Relocation Final Concept Design
- Vulnerability and Risk Assessment (TVA)





# 2024 NTP-01 Outreach Feedback Shaping Design



6 Public Open Houses



4 Technical Working Group Meetings



14 Site Visits



8 Station Area Planning Meetings



Fresno Early Activation Pop-Up (Night Market)



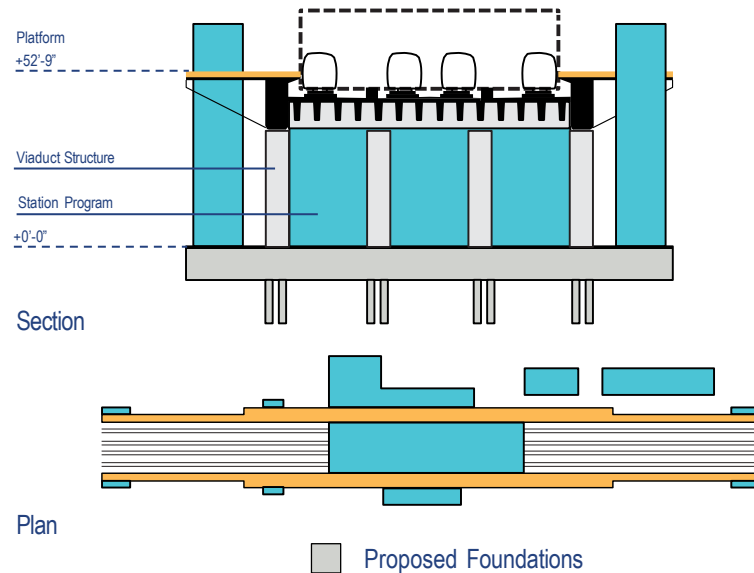
160 Interface Coordination Meetings

# NTP – 01 Merced to Bakersfield Optimization and Project Efficiencies

- Project Efficiencies (November 2024 – February 2025)
- Value Engineering (January – February 2025)
- DCM requirements (ongoing)
- Labor / Materials Cost Estimate (February – March 2025)

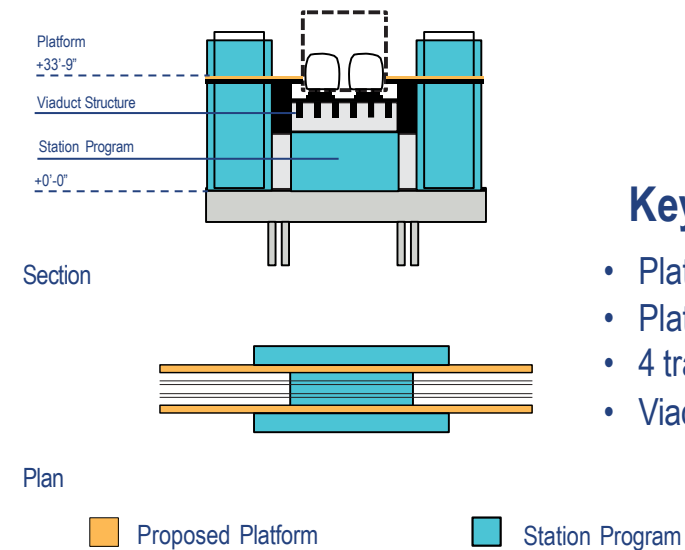
1

Original DCM compliant design  
with original rail alignment  
November 2024



2

Original Project Efficiency design  
challenging alignment and DCM  
February 2025

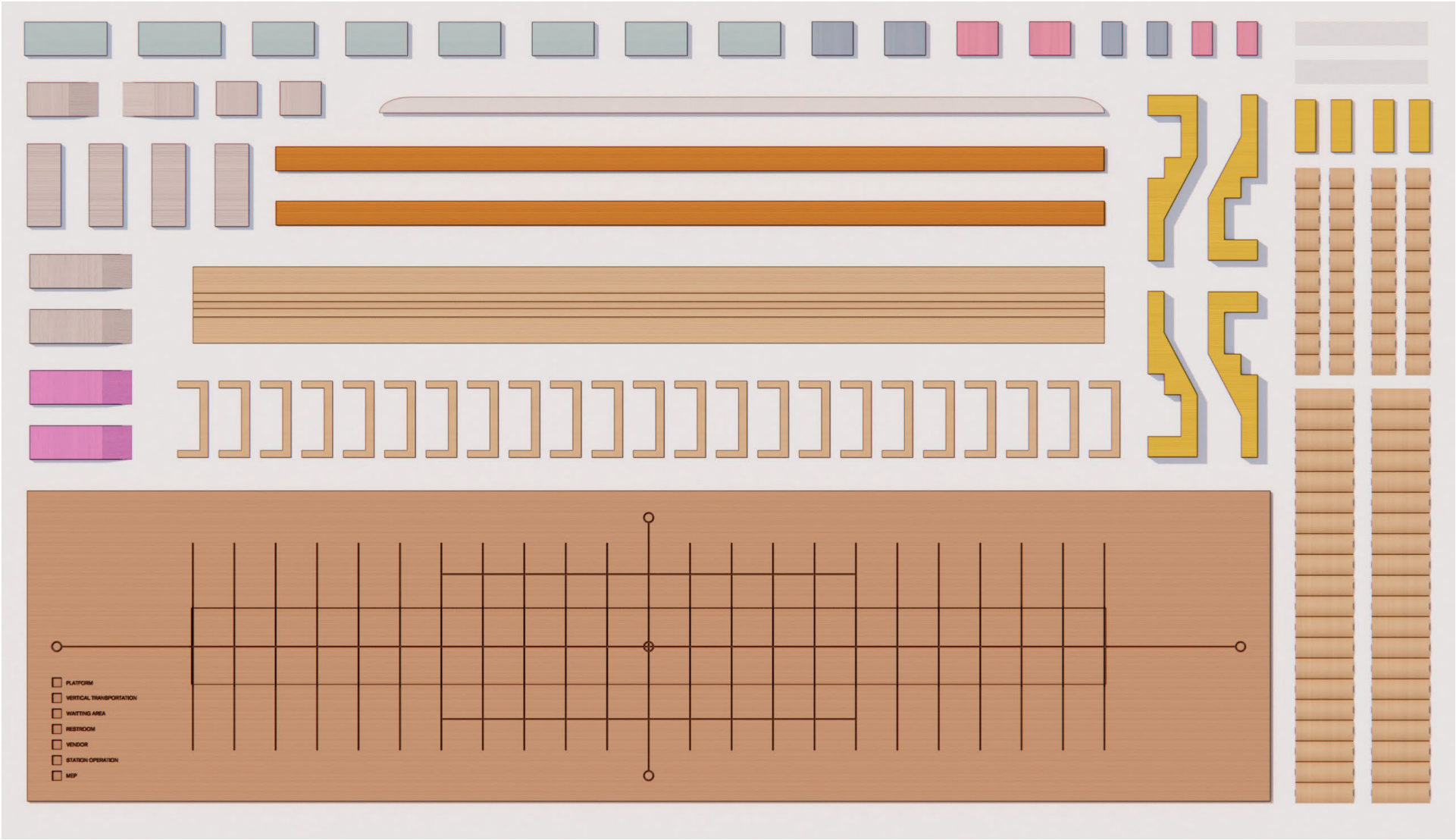


## Key Matrix

- Platform length reduction (-43%)
- Platform width reduction (-34%)
- 4 tracks to 2 tracks viaduct
- Viaduct height reduction

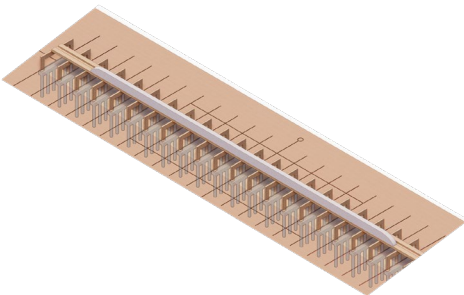


# A Kit-of-Parts

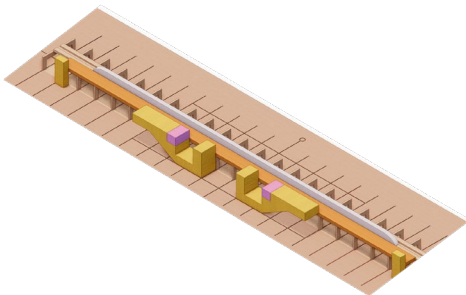


# A Modular Approach

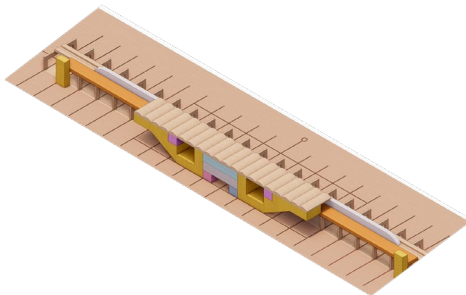
Early Works & Alignment



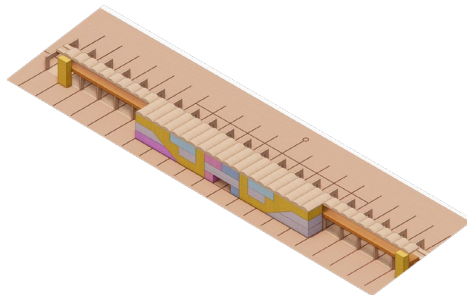
Type E



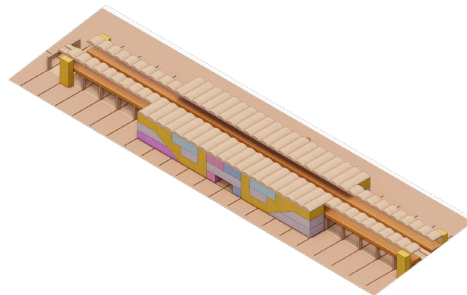
Type D



Type C



Type B/A



Day 1  
Merced - Bakersfield



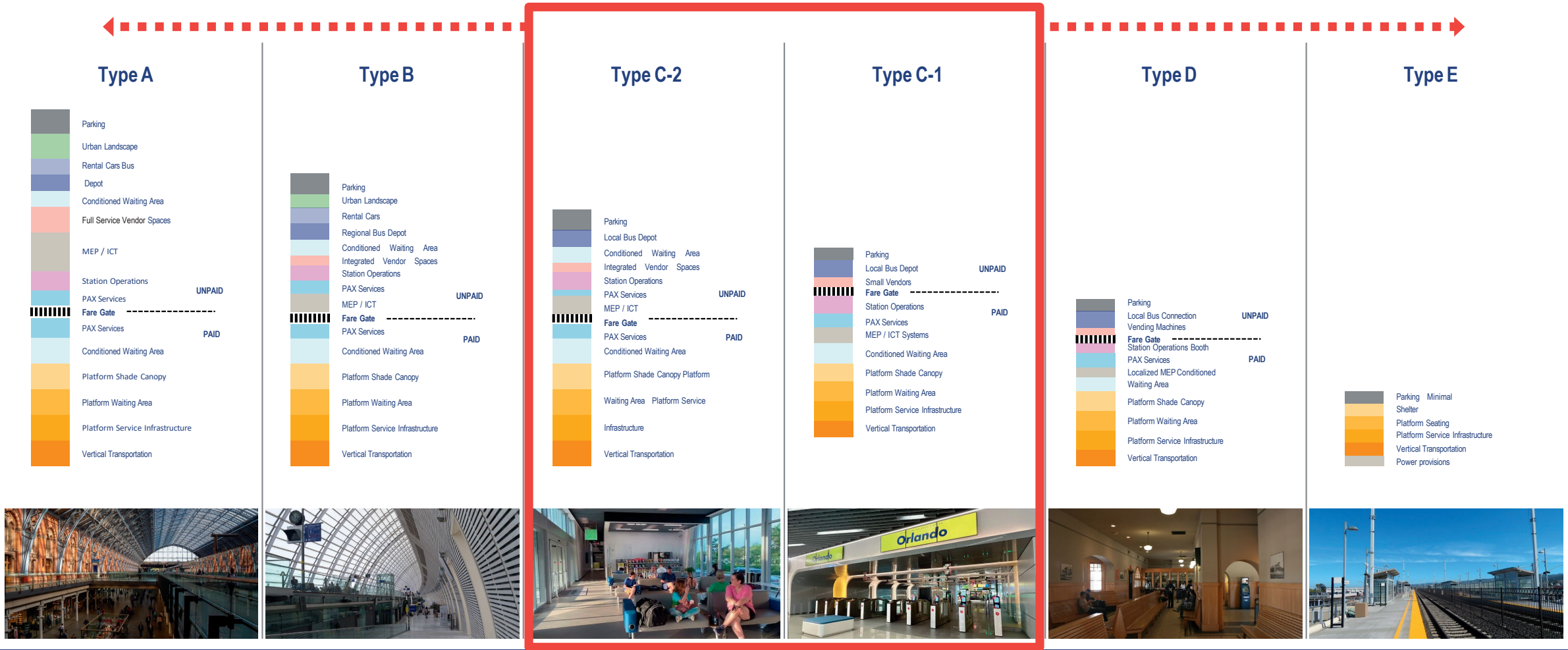
Day 2  
Expansion



Day 3  
Further Expansion  
& Rail Intermodal

# Station Typologies

← Increasing Level of Services and Amenities for Passengers →

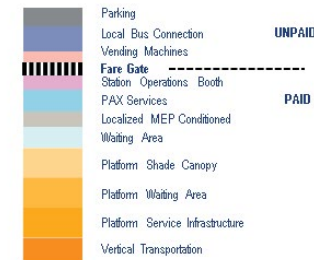




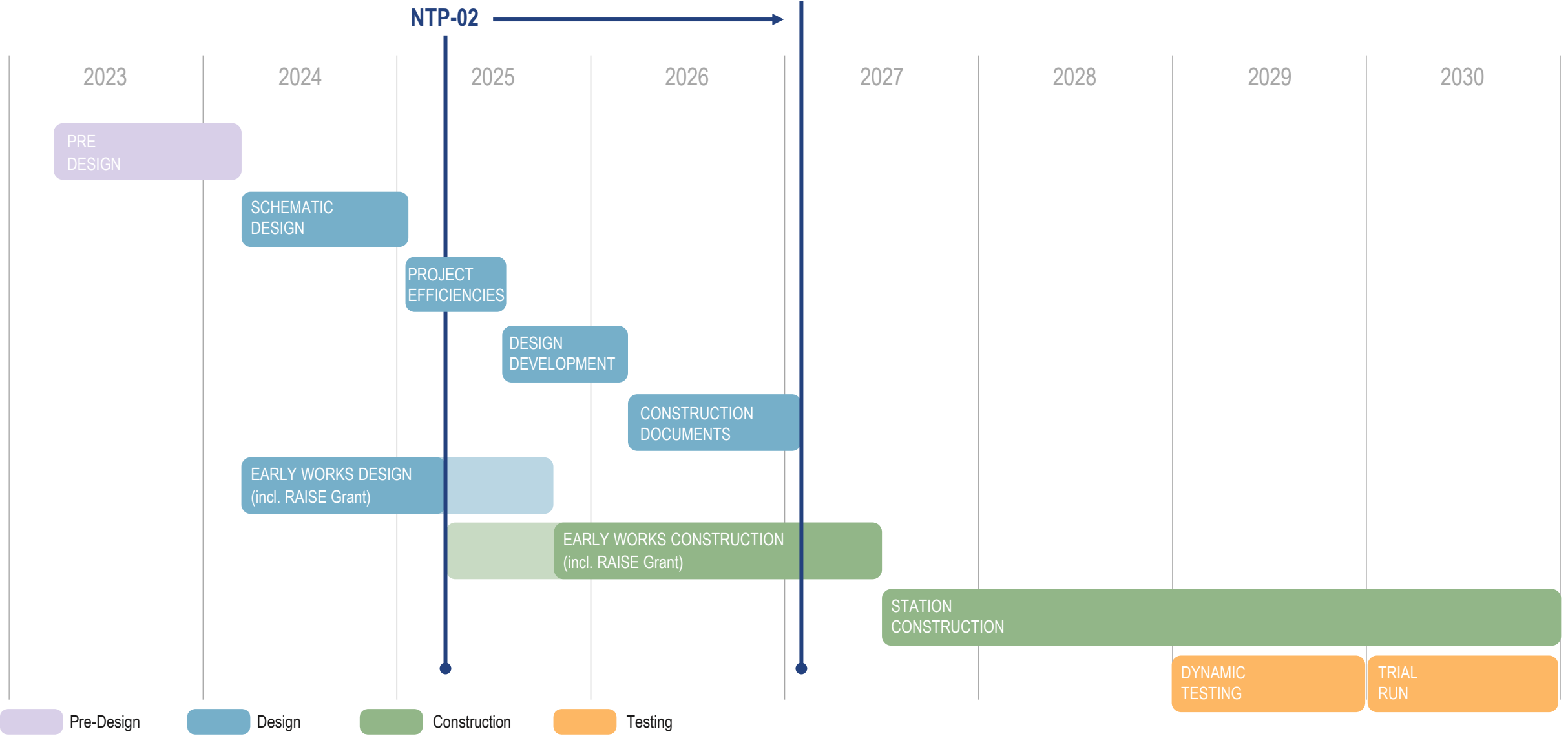
# Board Action

- Approval to exercise NTP-02 work
  - » The first phase will be to advance Fresno through design and complete Ready for Bid documents.
  - » Fresno will be the initial station focus, and will help to resolve kit of parts design issues
  - » Focus design on the Type D station
  - » This typology delivers the first building block for the stations and will be designed to provide consistent and predictable high-speed rail facilities for all stations in the system
  - »

## Type D



# NTP - 02



# Next Steps

- 2025 Anticipated Design Stages
  - » Stations Design Development: Fresno and Kit of Parts/Early Works Activities
  - » Fresno Early Site Activation - Ready for Bid (Board Item #x)
  - » Station Design Development: Merced, Bakersfield and Kings-Tulare (Pending Baseline Adjustment)
- 2025 Outreach
  - » Elected Officials Meetings
  - » Technical Working Group Meetings
  - » Public Open Houses
  - » ADA Outreach
  - » Ongoing monthly SAP meetings

Next Board Update - Winter 2026: Presentation of Reworked Station Design at Draft Design Development Stage