Palmdale to Burbank Project Section

PEPD RECORD SET REV02

Construction Staging Plans

April 2021

The environmental review, consultation, and other actions required by applicable federal environmental laws for this project are being or have been carried out by the State of California pursuant to 23 U.S.C. 327 and a Memorandum of Understanding dated July 23, 2019, and executed by the Federal Railroad Administration and the State of California.
# General Sheets

## Construction Staging Sheets

<table>
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<tr>
<th>Drawing No.</th>
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# Northern California High-Speed Rail Authority

**Project:** Palmdale to Burbank
**Alignment:** Refined SR14/E1/E2
**Scale:** No Scale

---

*Drawing created by:* SENER
*Reviewed by:* CALIFORNIA HIGH-SPEED RAIL AUTHORITY
CONSTRUCTION STAGING NOTES:
AT-GRADE AND VIADUCT CONSTRUCTION INCLUDES:
1. DEMOLITION
2. CLEARING AND GRUBBING
3. UTILITY RELOCATIONS
4. REALIGNMENT OF ROADWAYS AND RAILWAYS
5. EARTHWORKS
6. DRAINAGE
7. STRUCTURES
8. HSR TRACK
9. RAILWAY SYSTEMS
TUNNELING CONSTRUCTION INCLUDES:
1. ADITS
2. POSTALS
3. EXCAVATION
4. ROCK WORK
5. RAILWAY SYSTEM
6. VENTILATION SYSTEMS
7. OTHER TUNNEL INSTALLATIONS (FLS, LIGHTING, ETC.)

LEGEND:
AT-GRADE AND VIADUCT
TUNNEL
ADIT
HSR STATIONS
BAKERSFIELD TO PALMDALE SECTION

ABBREVIATIONS:
REFINED SR14 ALIGNMENT "REFINED SR14"
LAN BAKERSFIELD TO PALMDALE SECTION, LANCASTER SUBSECTION

GENERAL NOTES:
1. STA 296+82.67 (SPRUCE CT) IS THE NORTHERN LIMIT OF THE PALMDALE-BURBANK ENVIRONMENTAL DOCUMENT.
   NORTH OF THIS POINT REFER TO BAKERSFIELD-PALMDALE ENVIRONMENTAL DOCUMENT.
   DESIGN FEATURES BETWEEN STA 265+00.00 AND STA 296+82.67 (SPRUCE CT) SHOWN FOR REFERENCE.

CALIFORNIA HIGH-SPEED RAIL PROJECT
PALMDALE TO BURBANK
ALIGNMENT REFINED SR14
CONSTRUCTION STAGING KEY MAP

DATE
DRAWN BY
DESIGNED BY
CHECKED BY
IN CHARGE
04/30/2021
9:17:53
GENERAL NOTES:
1. DETAILED CONSTRUCTION SEQUENCE FOR GRADE SEPARATIONS IS NOT PROVIDED IN THIS SET OF PLANS. UTILITY RELOCATIONS ARE SHOWN IN THE SET OF PLANS.
2. EXISTING STRUCTURES TO BE DEMOLISHED IN CONCURRANCE WITH APPROPRIATE PHASING.
3. CUT/FILL AREAS TO BE CONSTRUCTED IN THE LAST PHASE. HATCHED AREAS ONLY REFER TO CIVIL WORKS.
4. CONSTRUCTION PHASES WILL OVERLAP AS NEEDED TO REDUCE CONSTRUCTION DURATIONS.
5. HSR TRACK AND SYSTEMS TO BE CONSTRUCTED IN THE LAST PHASE. HATCHED AREAS ONLY REFER TO CIVIL WORKS.

CONSTRUCTION STAGING NOTES:
1. EXISTING STRUCTURES TO BE DEMOLISHED IN CONCURRANCE WITH APPROPRIATE PHASING.

LEGEND:
- PHASE 1
- PHASE 2
- PHASE 3
- PHASE 4
- PHASE 5

ABBREVIATIONS:
CLA  CONSTRUCTION STAGING/ LAYDOWN AREA
HSR  HIGH SPEED RAIL
SCRRA SOUTHERN CALIFORNIA REGIONAL RAIL AUTHORITY
TBM TUNNEL BORING MACHINE
ANF ANGELES NATIONAL FOREST
SS  SWITCHING STATION
CT  COMMUNICATION TOWER

PHASE 1
1. DEMOLISH OLD MINE SITE FACILITIES (WITHIN FOOTPRINT AREAS)
2. CLEAR AND GRUB CONSTRUCTION SITE
3. PERFORM HS GRADING OPERATIONS
4. CONSTRUCT SANTA CLARA RIVER VIADUCTS

PHASE 2
1. PERFORM TBM EXCAVATION OF TUNNELS
2. PERFORM HS GRADING OPERATIONS (SOUTH OF SANTA CLARA RIVER)

PHASE 3
1. CONSTRUCT OPEN AIR TUNNEL STRUCTURE (WITHIN LIMITS)

PHASE 4
1. COVER TUNNEL STRUCTURE BUILT IN PHASE 3
2. RESTORE ORIGINAL GROUND PROFILE

PHASE 5
1. CONSTRUCT TUNNEL PORTAL SERVICES, INCLUDING FLPS FACILITIES
2. PERFORM FINAL RESTORATION OF ORIGINAL GROUND PROFILE
3. CONSTRUCT ACCESS ROAD TO TUNNEL PORTAL
4. INSTALL RAILWAY SYSTEMS

CALIFORNIA HIGH-SPEED RAIL PROJECT
PALMDALE TO BURBANK
ALIGNMENT REFINED SR 14
CENTRAL SUBSECTION
CONSTRUCTION STAGING
STA 1251+65.33 TO STA 1362+91.36

LAKE SR 14

SANTA CLARA ROAD

SANTA CLARA RIVER

EXISTING ROADWAY LIMITS

ABBREVIATIONS:
CLA  CONSTRUCTION STAGING/ LAYDOWN AREA
HSR  HIGH SPEED RAIL
SCRRA SOUTHERN CALIFORNIA REGIONAL RAIL AUTHORITY
TBM TUNNEL BORING MACHINE
ANF ANGELES NATIONAL FOREST
SS  SWITCHING STATION
CT  COMMUNICATION TOWER

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4. INSTALL RAILWAY SYSTEMS

CALIFORNIA HIGH-SPEED RAIL PROJECT
PALMDALE TO BURBANK
ALIGNMENT REFINED SR 14
CENTRAL SUBSECTION
CONSTRUCTION STAGING
STA 1251+65.33 TO STA 1362+91.36
DETAILED CONSTRUCTION SEQUENCE FOR GRADE
CONSTRUCTION PHASES WILL OVERLAP AS NEEDED
TRAFFIC DETOURS ARE NOT SHOWN IN THIS SET
BUILD NEW HSR STRUCTURE OVER TUXFORD ST.
CONSTRUCT SCRRA BRIDGE AND PASS SCRRA AND VULCAN
CONSTRUCT SCRRA/VULCAN SHOOFLY TRACK AT SHELDON ST.
CONSTRUCT HSR TRACK AND SYSTEMS FACILITIES

GENERAL NOTES:
1. DETAILED CONSTRUCTION SEQUENCE FOR GRADE
   CONSTRUCTION IS NOT PROVIDED IN THIS SET OF
   PLANS, UTILITY RELOCATIONS ARE NOT SHOWN.
2. TRAFFIC DETOURS ARE NOT SHOWN IN THE SET
   OF PLANS.
3. LAYOUT AREAS, STATIONS AND OTHER
   CONTRACTOR'S FACILITIES ARE INCLUDED IN
   THE SET OF PLANS.
4. CONSTRUCTION PHASES WILL OVERLAP AS NEEDED
   TO REDUCE CONSTRUCTION DURATIONS.
5. NO TRAFFIC AND SYSTEMS TO BE CONSTRUCTED IN
   THE LAST PHASE, MATCHED AREAS ONLY REFER
   TO CIVIL WORKS.

TRAFFIC CHANGING NOTES:
PHASE 1: VEHICULAR TRAFFIC THROUGH EXISTING
SHELTON ST AT SUNLAND BLVD.
PHASE 2: VEHICULAR TRAFFIC THROUGH EXISTING
SHELTON ST AT SUNLAND BLVD.
PHASE 3: VEHICULAR TRAFFIC THROUGH EXISTING
SHELTON ST AT SUNLAND BLVD.

LEGEND:
1. PHASE 1
2. PHASE 2
3. PHASE 3
4. CONSTRUCTION STAGING/ LAYDOWN AREA (CLA)
5. PROPOSED PERMANENT
6. PROPOSED RIGHT OF WAY
7. UNLOADING FACILITY
8. EXIST UNLOADING FACILITY
9. PROP DRAINAGE
10. PROP HSR NB
11. PROP HSR SB
12. PROP VULCAN TRACK
13. EXIST VULCAN TRACK
14. EXIST & PROP SCRRA
15. EXIST & PROP SCRRA

CALIFORNIA HIGH-SPEED RAIL PROJECT
PALMDALE TO BURBANK
ALIGNMENT REFINED SR14
CENTRAL AND BURBANK SUBSECTION
CONSTRUCTION STAGING
STA 1998+90 TO STA 2254+47.04
NOTE:
- THE HSR ALIGNMENT DELINEATED IS SCHEMATIC, SEE DESIGN DETAILS IN THE ALIGNMENT LENS.
- THE HAULING ROUTES DEFINED ARE THE PRINCIPAL ROUTES FROM THE LOCATIONS WHERE SPOILS ARE ORIGINATED TO THE CLOSEST POTENTIAL DISPOSAL SITES. ALTERNATIVE ADDITIONAL ROUTES MAY BE DEFINED IN LATER STAGES OF THE PROJECT.
- THE POTENTIAL DISPOSAL AREAS IDENTIFIED SHOULD BE CONFIRMED IN LATER STAGES OF THE PROJECT.

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(*) SEE CONSTRUCTABILITY ASSESSMENT REPORT FOR ADDITIONAL DATA

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LEGEND:
- AT-GRACE AND VIADUCT
- TUNNEL
- DISPOSAL ROUTE
- HSR STATIONS
- CLA
- POTENTIAL DISPOSAL SITE

ABBREVIATIONS:
- CLA CONSTRUCTION STAGING/ LAYDOWN AREA
- T1 TUNNEL 1
- SSE DISPOSAL SITE

CALEIFORNIA HIGH-SPEED RAIL PROJECT
PALMDALE TO BURBANK
ALIGNMENT RENEFIED SR14
CONSTRUCTION STAGING LAYDOWN AREAS & DISPOSAL SITES
1 OF 2
NOTE:
- THE HSR ALIGNMENT (DELIVERED) IS SCHEMATIC, SEE DESIGN DETAILS IN THE ALIGNMENT PLAN.
- THE MAILING ROUTES DEFINED ARE THE PRINCIPAL ROUTES FROM THE LOCATIONS WHERE SPOILS ARE ORIGINATED TO THE CLOSEST POTENTIAL DISPOSAL SITES. ALTERNATIVE/ADDITIONAL ROUTES MAY BE DEFINED IN LATER STAGES OF THE PROJECT.
- THE POTENTIAL DISPOSAL AREAS IDENTIFIED SHOULD BE CONFIRMED IN LATER STAGES OF THE PROJECT.

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**LEGEND:**
- AT-GRADE AND VIADUCT
- TUNNEL
- DISPOSAL ROUTE
- ACCESS ROAD
- ADIT
- HSR STATIONS
- CLA
- POTENTIAL DISPOSAL SITE

**ABBREVIATIONS:**
- CLA CONSTRUCTION STAGING/ LAYDOWN AREA
- TB TUNNEL 1
- TS TUNNEL 2
- DS DISPOSAL SITE
CONSTRUCTION STAGING NOTES:

AT-GRADE AND VIA-DUCT CONSTRUCTION INCLUDES:
1. DEMOLITION
2. CLEARING AND GRUBBING
3. UTILITY RELOCATIONS
4. EARTHWORKS
5. DRAINAGE
6. STRUCTURES
7. HSR TRACK
8. RAILWAY SYSTEMS

TUNNELING CONSTRUCTION INCLUDES:
1. ADITS
2. PORTALS
3. EXCAVATION
4. HSR TRACK
5. RAILWAY SYSTEMS
6. VENTILATION SYSTEMS
7. OTHER TUNNEL INSTALLATIONS (FLS, LIGHTING, ETC.)

LEGEND:

- AT-GRADE AND VIA-DUCT
- TUNNEL
- ADIT
- HSR STATIONS
- BAKERSFIELD TO PALMDALE SECTION

ABBREVIATIONS:

E1 ALIGNMENT "E1"
LAN BAKERSFIELD TO PALMDALE SECTION, LANCASTER SUBSECTION

GENERAL NOTES:

1. STA 296+82.67 (SPRUCE CT) IS THE NORTHERN LIMIT OF THE PALMDALE-BURBANK ENVIRONMENTAL DOCUMENT. NORTH OF THIS POINT REFER TO BAKERSFIELD-PALMDALE ENVIRONMENTAL DOCUMENT.

DESIGN FEATURES BETWEEN STA 265+00.00 AND STA 296+82.67 (SPRUCE CT) SHOWN FOR REFERENCE ONLY.
BUILD LOCAL ROADS, ADD UTILITIES AND DRAINAGE IMPROVEMENTS, CONSTRUCTION OF TURFERO STREET GRADE SEPARATION IN THE VICINITY OF PROP-1
2. EXCAVATION OF PROPERTY, PIDS
3. BUILD PROPOSED VULCAN UNLOADING FACILITY AND PROPOSED VULCAN TRACK
4. PERFORM CIVIL WORKS FOR HIGH SPEED RAIL (HSR) TRACKS, STATIONS, AND FACILITIES
5. CONSTRUCT WOOD AND CONCRETE I-1180 POLICE STATION
6. CONSTRUCT VULCAN TRACK AT TURFERO ST.

PHASE 2
1. MIGRATE VULCAN TRAINS, TRAFFIC TO NEW PROP VULCAN TRACK, BLDG NEW HIGH SPEED RAIL (HSR) TRACKS TO THE PROPOSED LOCATION, AND THEN CONSTRUCT TURFERO STREET GRADE SEPARATION
2. CONSTRUCT SCORA STATIONS AND PASS SCORA AND VULCAN TRACKS TO THE PROPOSED LOCATION
3. PERFORM CIVIL WORKS FOR HIGH INFRASTRUCTURE, INCLUDING TRENCHING AND DISCHARGE OF CLEAN STAGING AREAS, STAGING AREAS AND OTHER CONTRACTORS' FACILITIES ARE INCLUDED IN THIS SET OF PLANS
4. CONSTRUCTION PHASES WILL OVERLAP AS NEEDED TO REDUCE CONSTRUCTION SHUTDOWNS
5. HIGHWAY AND STREETS TO BE CONSTRUCTED IN THE LAST PHASE, MATCHED AREAS ONLY REFER TO CIVIL WORKS

TRAFFIC PHASING NOTES:
PHASE 1: VEHICULAR TRAFFIC THROUGH EXISTING TURFERO ST.
PHASE 2: VEHICULAR TRAFFIC TO BE REMOVED TURFERO ST.
PHASE 3: VEHICULAR TRAFFIC TO BE REMOVED TO TURFERO ST.
PHASE 4: VEHICULAR TRAFFIC TO BE REMOVED TURFERO ST.

GENERAL NOTES:
1. DETAILS OF CONSTRUCTION SEQUENCE FOR GRADE SEPARATIONS ARE NOT PROVIDED IN THIS SET OF PLANS. UTILITIES RELOCATIONS ARE NOT SHOWN.
2. TRAFFIC SIGNALS ARE NOT SHOWN IN THIS SET OF PLANS.
3. LEGEND AREAS, STAGING AREAS, AND OTHER CONTRACTORS' FACILITIES ARE INCLUDED IN THIS SET OF PLANS
4. CONSTRUCTION PHASES WILL OVERLAP AS NEEDED TO REDUCE CONSTRUCTION SHUTDOWNS.
5. HIGHWAY AND STREETS TO BE CONSTRUCTED IN THE LAST PHASE, MATCHED AREAS ONLY REFER TO CIVIL WORKS.

ABBREVIATIONS:
ENTV-Eastern National Tennessee Valley Authority
HSR-High Speed Rail
SCORA-Southern California Regional
UP-Union Pacific Railroad
TPSS-Trans Pacific Substation

CALIFORNIA HIGH-SPEED RAIL PROJECT
PALMDALE TO BURBANK
ALIGNMENT E1
CENTRAL AND BURBANK SUBSECTION
CONSTRUCTION STAGES
STA 1891+47.74 TO STA 2147+05.29

PLOTE 11-1994
PLOT NO.: 1
SCALE: 1" = 200' 1" = 200'
DATE: 03/20/2021
CONTRACT: HSR14-42
RESPONSIBLE PARTY: CV-14003-1
SUSAN A. SHAW

PDP RECORD NO. 1015
NOT FOR CONSTRUCTION
NOTE:
- The HSR alignment delineated is schematic. See design details in the alignment plans.
- The hachured routes defined are the potential routes from the locations where spoil is originated to the closest potential disposal site. Alternative/additional routes may be defined in later stages of the project.
- The potential disposal areas identified should be confirmed in later stages of the project.

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* See constructability assessment report for additional data.

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### LEGEND

- AT-GRADE AND VIADUCT TUNNEL
- DISPOSAL ROUTE
- HSR STATIONS
- CLA
- POTENTIAL DISPOSAL SITE

### ABBREVIATIONS

- CLA: CONSTRUCTION STAGING/LAYDOWN AREA
- T1: TUNNEL 1
- T2: TUNNEL 2
- DS: DISPOSAL SITE

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NOTE:
- The HSR alignment delineated is schematic. See design details in the alignment plans.
- The hauling routes defined are the principal routes from the locations where spoil is originated to the closest potential disposal sites. Alternative/additional routes may be defined in later stages of the project.
- The potential disposal areas identified should be confirmed in later stages of the project.

### POTENTIAL DS DATA (*)

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<tr>
<th>NO.</th>
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### LEGEND:
- AT-GRADE AND VIADUCT
- TUNNEL ROAD
- DISPOSAL ROUTE
- ADIT
- HSR STATIONS
- CLA
- POTENTIAL DISPOSAL SITE

ABBREVIATIONS:
- CLA CONSTRUCTION STAGING/ LAYDOWN AREA
- TUNNEL
- ADIT
- HSR STATIONS
- CLA POTENTIAL DISPOSAL SITE
CONSTRUCTION STAGING NOTES:

AT-GRADE AND VIADUCT CONSTRUCTION INCLUDES:
1. DEMOLITION
2. CLEARING AND GRUBBING
3. UTILITY RELocations
4. INTERRuption OF ROADWAYS AND RAILWAYS
5. EARTHWORKS
6. DRAINAGE
7. STRUCTURES
8. RAILWAY SYSTEMS

TUNNELING CONSTRUCTION INCLUDES:
1. ADITS
2. EXCAVATION
3. RAILWAY SYSTEMS
4. VENTILATION SYSTEMS
5. OTHER TUNNEL INSTALLATIONS (PLS, LIGHTING, ETC.)

LEGEND:

AT-GRADE AND VIADUCT
TUNNEL
ADIT
HSR STATIONS
BAKERSFIELD TO PALMDALE SECTION

ABBREVIATIONS:

E2 ALIgNMENT "E2"
LAN BAKERSFIELD TO PALMDALE SECTION, LANCASTER SUBSECTION

GENERAL NOTES:

1. STA 296+82.67 (SPRUCE CT) IS THE NORTHERN LIMIT OF THE PALMDALE-BURBANK ENVIRONMENTAL DOCUMENT.
NORTH OF THIS POINT REFER TO BAKERSFIELD-PALMDALE ENVIRONMENTAL DOCUMENT.
DESIGN FEATURES BETWEEN STA 265+00.00 AND STA 296+82.67 (SPRUCE CT) SHOWN FOR REFERENCE ONLY.
1. CONSTRUCT NORTHBOUND OFF-RAMP FOR SHOOFLY PHASE 5
2. CONSTRUCT PORTIONS OF TRENCH AND REALIGNED NORTHBOUND SIERRA HIGHWAY SOUTH OF NB STATE ROUTE 14 OFF-RAMP
3. CONSTRUCT CUT AND COVER BETWEEN SCRRA R/W AND REALIGNED MOUNTAIN SPRINGS ROAD
4. CONSTRUCT NORTHBOUND OFF-RAMP FOR STATE ROUTE 14

TRAFFIC ROUTE

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<th>Phase 1</th>
<th>Phase 2</th>
<th>Phase 3</th>
<th>Phase 4</th>
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<th>Phase 6</th>
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SCALE: 1" = 1000'
CALIFORNIA HIGH-SPEED RAIL PROJECT
PALMDALE TO BURBANK
ALIGNMENT E2
CENTRAL AND BURBANK AREA
CONSTRUCTION STAGES
STA 1872+00 TO STA 1890+11.55

GENERAL NOTES:
1. DETAILED CONSTRUCTION SEQUENCE FOR GRADE SEPARATIONS IS NOT PROVIDED IN THIS SET OF PLANS. UTILITY RELOCATIONS ARE NOT SHOWN.
2. TYPICAL DETAIL SHEETS ARE NOT SHOWN IN THIS SET OF PLANS.
3. LEGEND AREAS, STAGING AREAS AND OTHER CONSTRUCTION FACILITIES ARE INCLUDED IN THIS SET OF PLANS.
4. CONSTRUCTION PHASES WILL OVERLAP AS NEEDED TO REDUCE CONSTRUCTION DURATIONS.
5. NEW TRACTS AND SYSTEMS TO BE CONSTRUCTED IN THE LAST PHASE. MATCHED AREAS ONLY REFER TO CIVIL WORKS.

LEGEND:

- PHASE 1
- PHASE 2
- PHASE 3
- PROPOSED PERMANENT
- PROPOSED RIGHT OF WAY

ABBREVIATIONS:
APA = ALIGNMENT PAINTING
BSC = BURBANK STATION
CO = CITY OF BURBANK
CS = PASSENGER CARS
CR = CALIFORNIA HIGH-SPEED RAIL AUTHORITY
CRS = CR-14003-02 (BRB)
DSS = DOWNTOWN SANTA MONICA
RTS = RAILWAY TRACKS
ST = STATION
TS = TRANSFORMATION STATION
TPS = TRANSFORMATION POWER SUB STATION
TSS = TRANSFORMATION SAFFETY SYSTEMS
WCS = WATER CONSERVATION SYSTEMS
NOTE:
- The HSR alignment delineated is schematic. See design details in the alignment plans.
- The haul routes defined are the principal routes from the locations where spoils are originated to the disposal sites. Additional routes may be defined in later stages of the project.
- The potential disposal areas identified should be confirmed in later stages of the project.

| PLM1 | 91-19-0001 | QUARRY | 313 |
| PLM2 | 91-19-0002 | OPEN PIT | 234 |
| PLM3 | 91-19-0003 | OPEN PIT | 236 |
| PLM4 | 91-19-0004 | OPEN PIT | 665 |
| PLM6 | 91-19-0006 | OPEN PIT | 373 |
| PLM33 | 91-19-0033 | OPEN PIT | 293 |

*See constructability assessment report for additional data*

<p>| CLA DATA | CLA DATA |</p>
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LEGEND:
- AT-GRADE AND ViADuct
- TUNNEL
- DISPOSAL ROUTE
- HSR STATIONS
- CLA POTENTIAL DISPOSAL SITE

ABBREVIATIONS:
- CLA: CONSTRUCTION STAGING/ LAYDOWN AREA
- T1: TUNNEL 1
- T2: TUNNEL 2
- DS: DISPOSAL SITE
NOTE:
- The HSR alignment delineated is schematic. See design details in the alignment plans.
- The hauling routes defined are the principal routes from the locations where spoil is originated to the closest potential disposal site. Additional routes may be defined in later stages of the project.
- The potential disposal areas identified should be confirmed in later stages of the project.

<table>
<thead>
<tr>
<th>POTENTIAL DS DATA (M)</th>
<th>NO.</th>
<th>VINE ID</th>
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(*) See constructability assessment report for additional data.

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LEGEND:
- AT-GRADE AND VIADUCT
- TUNNEL
- DISPOSAL ROUTE
- ADIT
- HSR STATIONS
- CLA
- POTENTIAL DISPOSAL SITE

ABBREVIATIONS:
- T2: TUNNEL 2
- T3: TUNNEL 3
- DS: DISPOSAL SITE

CONSTRUCTION STAGING, LAYDOWN AREAS & DISPOSAL SITES

CALIFORNIA HIGH-SPEED RAIL PROJECT
PALMDALE TO BURBANK
ALIGNMENT E2

CONSTRUCTION STAGING LAYDOWN AREAS & DISPOSAL SITES
2 OF 2

DATE: 04/30/2021

0205240