

California High-Speed Rail Authority

Palmdale to Burbank Project Section

PEPD RECORD SET ADDENDUM SR14A / E1A / E2A

Construction Staging Plans

April 2024



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

DRAWING NO.	DRAWING DESCRIPTION	SHEET NO.
CV-10001	INDEX OF DRAWINGS	



CONSTRUCTION STAGING SHEETS

DRAWING NO.	DRAWING DESCRIPTION	SHEET NO.
CV-16001-14A	ALIGNMENT SR14A. CONSTRUCTION STAGING KEYMAP	
CV-14001-14A	ALIGNMENT SR14A. CENTRAL SUBSECTION. CONSTRUCTION STAGING. STA 265+00.00 TO STA 345+00.00	
CV-14002-14A	ALIGNMENT SR14A. CENTRAL SUBSECTION. CONSTRUCTION STAGING. STA 1310+00.00 TO STA 1415+00.00	
CV-14003-14A	ALIGNMENT SR14A. CONSTRUCTION STAGING LAYDOWN AREAS AND DISPOSAL SITES.	
CV-16001-EA	ALIGNMENT E1A/E2A. CONSTRUCTION STAGING KEYMAP	
CV-14001-EA	ALIGNMENT E1A/E2A. CENTRAL SUBSECTION. CONSTRUCTION STAGING. STA 265+00.00 TO STA 345+00.00	
CV-14002-EA	ALIGNMENT E1A/E2A. CONSTRUCTION STAGING LAYDOWN AREAS AND DISPOSAL SITES.	

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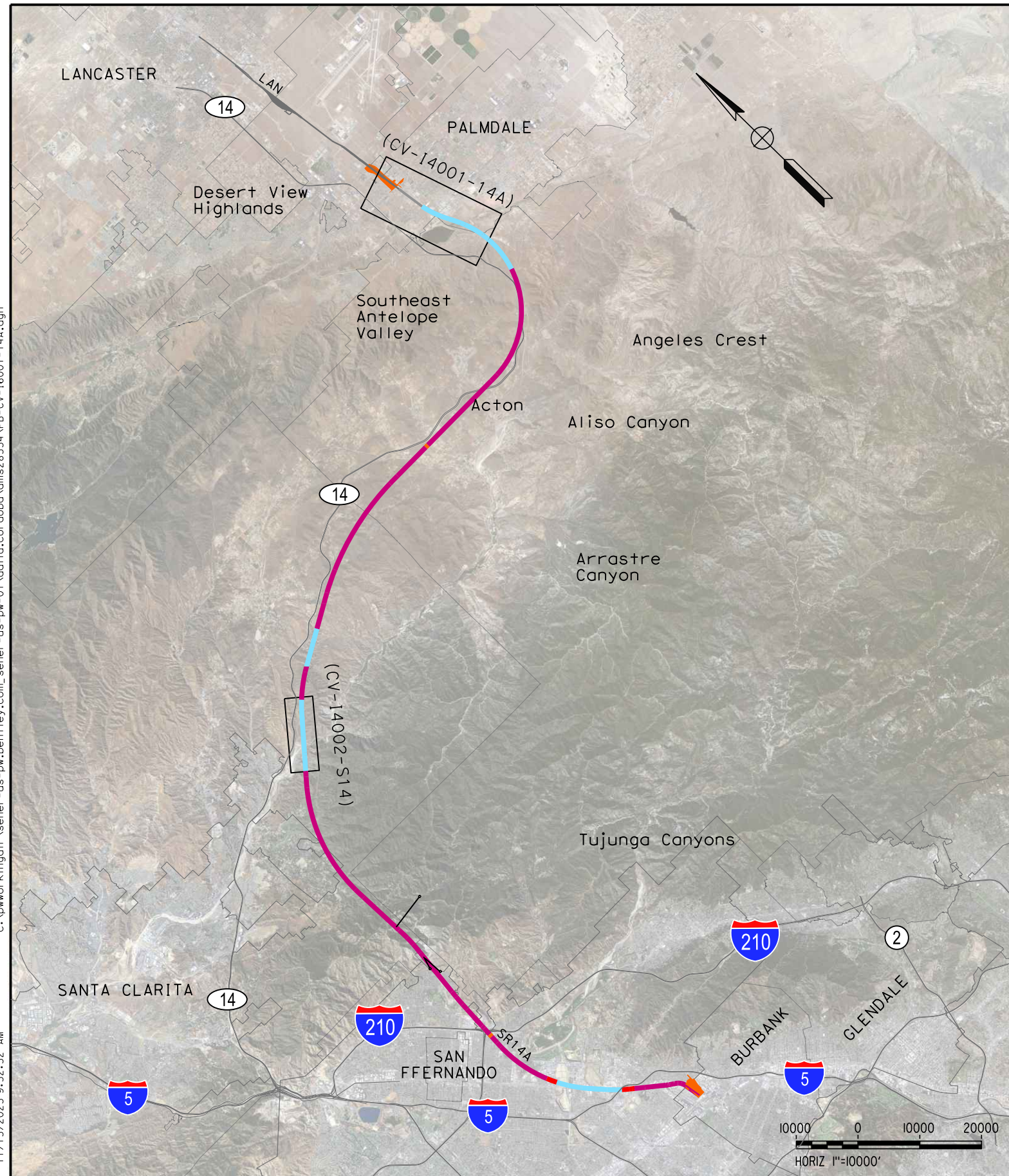
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	DESIGNED BY E.VELASCO DRAWN BY F.J.DOMINGUEZ CHECKED BY C.RECHEA IN CHARGE A.RELAÑO DATE 02/26/2021	PEPD RECORD SET ADDENDUM SR14A/E1A/E2A NOT FOR CONSTRUCTION			CALIFORNIA HIGH-SPEED RAIL PROJECT PALMDALE TO BURBANK ALIGNMENT SR14A/E1A/E2A GENERAL INDEX OF DRAWINGS	CONTRACT NO. HSR14-42 DRAWING NO. CV-10001 SCALE NO SCALE SHEET NO.																														
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>REV</th> <th>DATE</th> <th>BY</th> <th>CHK</th> <th>APP</th> <th>DESCRIPTION</th> </tr> </thead> <tbody> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> </tbody> </table>	REV	DATE	BY	CHK	APP	DESCRIPTION																														
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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. PORTALS
3. EXCAVATION
4. HSR TRACK
5. RAILWAY SYSTEMS
6. VENTILATION SYSTEMS
7. OTHER TUNNEL INSTALLATIONS (FLS, LIGHTING, ETC.)

LEGEND :

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

ABBREVIATIONS:

- SR14A ALIGNMENT "SR14A"
- LAN BAKERSFIELD TO PALMDALE SECTION, LANCASTER SUBSECTION

GENERAL NOTES:

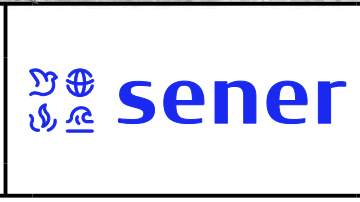
1. STA 296+82.67 (SPRUCE CT) IS THE NORTHERN LIMIT OF THE PALMDALE-BURBANK ENVIRONMENTAL DOCUMENT. NORTH OF THIS POINT REFER TO BAKERSFIELD-PALMDALE ENVIRONMENTAL DOCUMENT. DESIGN FEATURES BETWEEN STA 265+00.00 AND STA 296+82.67 (SPRUCE CT) SHOWN FOR REFERENCE ONLY.

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
E. VELASCO
DRAWN BY
F.J. DOMINGUEZ
CHECKED BY
C. RECHEA
IN CHARGE
A. RELAÑO
DATE
10/31/2023

**PEPD RECORD SET
ADDENDUM
SR14A/E1A/E2A**

**NOT FOR
CONSTRUCTION**



CALIFORNIA HIGH-SPEED RAIL PROJECT
PALMDALE TO BURBANK
ALIGNMENT SR14A

CONSTRUCTION STAGING KEY MAP

CONTRACT NO.
HSR14-42

DRAWING NO.
CV-16001-14A

SCALE
AS SHOWN

SHEET NO.

PHASE 1

1. TRANSFER ALL SCRRRA TRAFFIC TO THE EASTERNMOST TRACK
2. BUILD THE NORTH PART OF THE NEW SCRRRA TRACK AND THE SHOOFLY
3. BUILD AVE. R 11 AND AVE.S, 10TH ST.

PHASE 2

1. TRAFFIC DETOUR FROM SIERRA HWY THROUGH AVE S, 10TH ST. E AND AVE. R 11;
2. TRANSFER SCRRRA TRAFFIC TO BURBANK THROUGH THE SHOOFLY.
3. EARTHWORKS BETWEEN STA 298+00 AND 315+00
4. BUILD AVE S VIADUCT

PHASE 3

1. BUILD SCRRRA AND SIERRA HWY OVERHEADS
2. BUILD NEW SCRRRA ALIGNMENT
3. BUILD SIERRA HWY NORTHERNMOST PART (EAST AVE R 8 THROUGH AVE S)

PHASE 4

1. BUILD SIERRA HWY SOUTHERNMOST PART (SOUTH OF AVE S)
2. RESTORE TRAFFIC TO BURBANK THROUGH NEW SCRRRA ALIGNMENT
3. DISMANTLE SHOOFLY
4. AVE S EARTHWORKS, AND TRAFFIC DETOUR THROUGH THE NEW VIADUCT
5. EARTHWORKS BETWEEN STA 315+00 AND 320+00

GENERAL NOTES:

1. DETAILED CONSTRUCTION SEQUENCE FOR GRADE SEPARATIONS IS NOT PROVIDED IN THIS SET OF PLANS. UTILITY RELOCATIONS ARE NOT SHOWN. TRAFFIC DETOURS ARE NOT SHOWN IN THIS SET OF PLANS.
2. LAYDOWN AREAS, STAGING AREAS AND OTHER CONTRACTOR'S FACILITIES ARE INCLUDED IN THIS SET OF PLANS.
3. CONSTRUCTION PHASES WILL OVERLAP AS NEEDED TO REDUCE CONSTRUCTION DURATIONS.
4. HSR TRACK AND SYSTEMS TO BE CONSTRUCTED IN THE LAST PHASE. HATCHED AREAS ONLY REFER TO CIVIL WORKS.

TRAFFIC PHASING NOTES:

- PHASE 1: VEHICULAR TRAFFIC THROUGH EXISTING SIERRA HIGHWAY
- PHASE 2 AND PHASE 3: VEHICULAR TRAFFIC THROUGH AVE.S, 10TH ST. E AND AVE. R 11. ALTERNATIVELY, VEHICULAR TRAFFIC CAN BE DETOURED THROUGH ANTELOPE VALLEY SR14 FWY AND AVE OR PALMDALE BLVD
- PHASE 4: VEHICULAR TRAFFIC DETOURED BY ANTELOPE VALLEY FWY AND AVE R OR PALMDALE BLVD. GRADE SEPARATIONS

CONSTRUCTION STAGING NOTES:

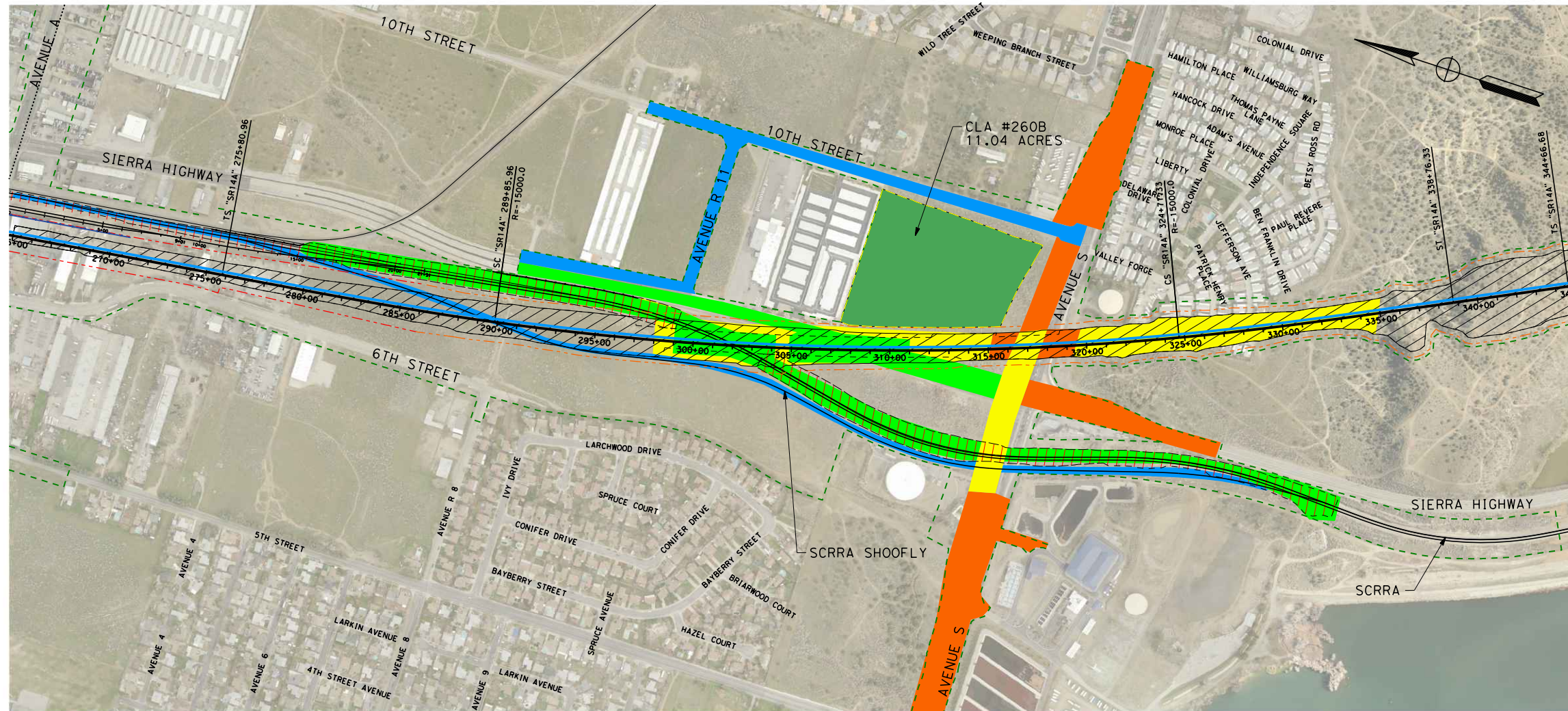
1. HSR RAIL TO BE SUPPLIED FROM RAIL STORAGE AREA IN THE BAKERSFIELD TO PALMDALE SECTION.
2. EXISTING STRUCTURES TO BE DEMOLISHED IN CONCURRANCE WITH APPROPRIATE PHASING.

LEGEND :

- PHASE 1
- PHASE 2
- PHASE 3
- PHASE 4
- CUT AREAS
- FILL AREAS
- CONSTRUCTION STAGING/ LAYDOWN AREA (CLA)
- PROPOSED PERMANENT ENVIRONMENTAL FOOTPRINT
- PROPOSED RIGHT OF WAY

ABBREVIATIONS:

- CLA CONSTRUCTION STAGING/ LAYDOWN AREA
- HSR HIGH SPEED RAIL
- OC OVERCROSSING
- SCRRRA SOUTHERN CALIFORNIA REGIONAL RAIL AUTHORITY
- UP UNDERPASS
- UPRR UNION PACIFIC RAILROAD



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REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
E.VELASCO

DRAWN BY
F.J.DOMINGUEZ

CHECKED BY
C.RECHEA

IN CHARGE
A.RELAÑO

DATE
02/26/2021

**PEPD RECORD SET
ADDENDUM
SR14A/E1A/E2A**

**NOT FOR
CONSTRUCTION**



CALIFORNIA HIGH-SPEED RAIL PROJECT

PALMDALE TO BURBANK

ALIGNMENT SR14A
CENTRAL SUBSECTION
CONSTRUCTION STAGING
STA 265+00.00 TO STA 345+00.00

CONTRACT NO.
HSR14-42

DRAWING NO.
CV-14001-14A

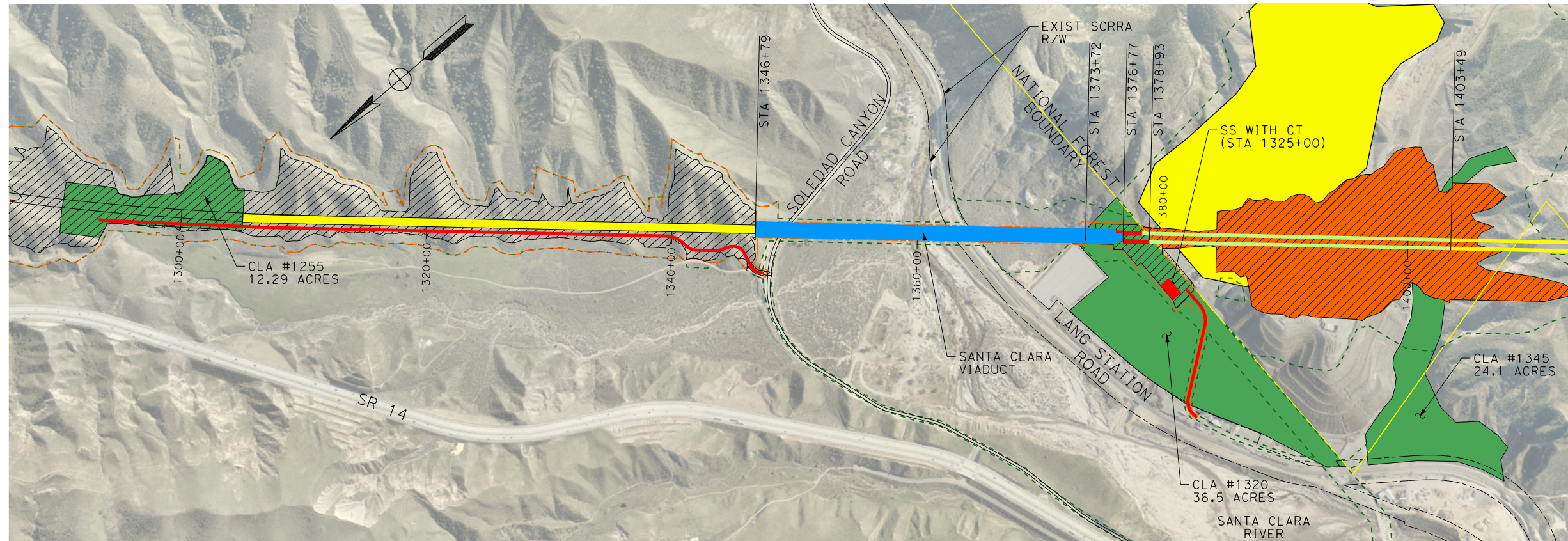
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- PHASE 1**
1. DEMOLISH OLD MINE SITE FACILITIES (WITHIN FOOTPRINT AREAS)
 2. CLEAR AND GRUB CONSTRUCTION SITE
 3. PERFORM HSR GRADING OPERATIONS
 4. CONSTRUCT SANTA CLARA RIVER VIADUCTS
- PHASE 2**
1. PERFORM TBM EXCAVATION OF TUNNELS
 2. PERFORM HSR GRADING OPERATIONS (NORTH OF SANTA CLARA RIVER)
 3. TRANSFER TO VULCAN MINE THE SPOILS FROM THE TBM TUNNEL AND HSR GRADING OPERATIONS
- PHASE 3**
1. CONSTRUCT OPEN AIR TUNNEL STRUCTURE WITHIN ANF LIMITS
- PHASE 4**
1. COVER TUNNEL STRUCTURE BUILT IN PHASE 3
 2. RESTORE ORIGINAL GROUND PROFILE
- PHASE 5**
1. CONSTRUCT TUNNEL PORTAL FACILITIES, INCLUDING FLS FACILITIES
 2. PERFORM FINAL RESTORATION OF ORIGINAL GROUND PROFILE
 3. CONSTRUCT ACCESS ROAD TO TUNNEL PORTAL
 4. INSTALL RAILWAY SYSTEMS

GENERAL NOTES:

1. DETAILED CONSTRUCTION SEQUENCE FOR GRADE SEPARATIONS IS NOT PROVIDED IN THIS SET OF PLANS. UTILITY RELOCATIONS ARE NOT SHOWN.
2. NOT ALL TRAFFIC DETOURS ARE SHOWN IN THIS SET OF PLANS.
3. LAYDOWN AREAS, STAGING AREAS AND OTHER CONTRACTOR'S FACILITIES ARE INCLUDED IN THIS SET OF PLANS.
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 CONCURRENCE WITH APPROPRIATE PHASING.
2. THE EXCAVATION BOUNDARY IN CONSTRUCTION STAGING PHASE 4, AS SHOWN IN THE PORTAL 9 AREA, HAS BEEN REVISED. SEE PORTAL 9 EXCAVATION REFINEMENT MEMO DATED 2/13/2024.

LEGEND :

- PHASE 1
- PHASE 2
- PHASE 3
- PHASE 4
- PHASE 5
- CUT/FILL AREAS
- CONSTRUCTION STAGING/ LAYDOWN AREA (CLA)
- PROPOSED PERMANENT ENVIRONMENTAL FOOTPRINT
- PROPOSED RIGHT OF WAY
- ANGELES NATION FOREST LIMITS
- EXISTING ROADWAY LIMITS

ABBREVIATIONS:

CLA	CONSTRUCTION STAGING/ LAYDOWN AREA
HSR	HIGH SPEED RAIL
SCRRRA	SOUTHERN CALIFORNIA REGIONAL RAIL AUTHORITY
TBM	TUNNEL BORING MACHINE
ANF	ANGELES NATIONAL FOREST

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY E.VELASCO
DRAWN BY F.J.DOMINGUEZ
CHECKED BY C.RECHEA
IN CHARGE A.RELAÑO
DATE 10/31/2023

**PEPD RECORD SET
ADDENDUM
SR14A/E1A/E2A**

**NOT FOR
CONSTRUCTION**



**CALIFORNIA HIGH-SPEED RAIL PROJECT
PALMDALE TO BURBANK**

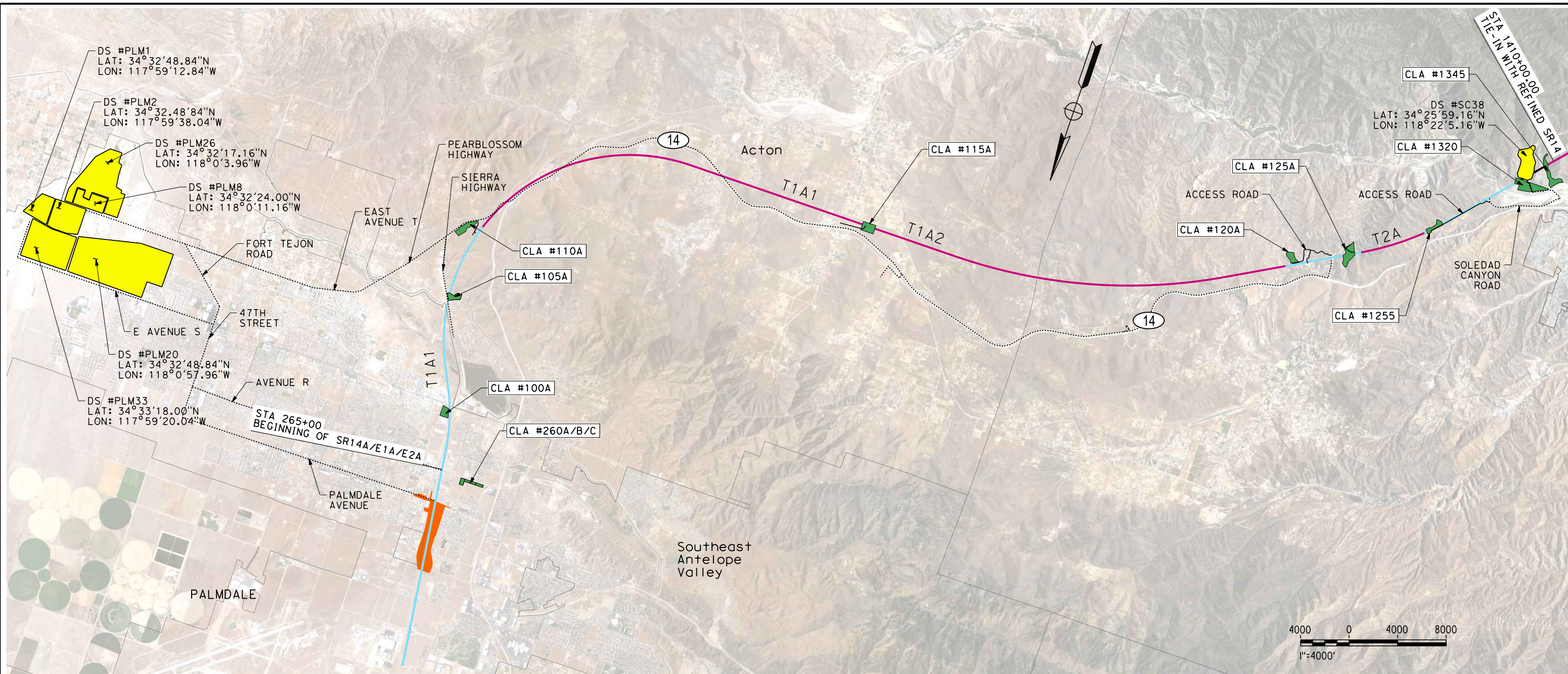
ALIGNMENT SR14A
CENTRAL SUBSECTION
CONSTRUCTION STAGING
STA 1310+00.00 TO STA 1415+00.00

CONTRACT NO. HSR14-42
DRAWING NO. CV-14002-14A
SCALE AS SHOWN
SHEET NO.

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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 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.

POTENTIAL DS DATA (*)			
NO.	MINE ID	OPERATION TYPE	ACREAGE PERMITTED
PLM1	91-19-0001	QUARRY	313
PLM2	91-19-0002	OPEN PIT	234
PLM8	91-19-0008	OPEN PIT	236
PLM20	91-19-0020	OPEN PIT	665
PLM26	91-19-0026	OPEN PIT	373
PLM33	91-19-0033	OPEN PIT	293
SC38	91-19-0038	OPEN PIT	133

(*) SEE CONSTRUCTABILITY ASSESSMENT REPORT FOR ADDITIONAL DATA

CLA DATA	
NO.	AREA (ACRES)
260A	3.8
260B	4.2
260C	2.6
100A	11.0
105A	12.1
110A	18.0
115A	18.0
120A	12.6
125A	25.7

CLA DATA	
NO.	AREA (ACRES)
1255	12.3
1320	36.5
1345	24.1

LEGEND :

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

ABBREVIATIONS:

- CLA CONSTRUCTION STAGING/ LAYDOWN AREA
- DS DISPOSAL SITE
- T1A1 TUNNEL 1A1
- T1A2 TUNNEL 1A2
- T2A TUNNEL 2A

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
E. VELASCO

DRAWN BY
F.J. DOMINGUEZ

CHECKED BY
C. RECHEA

IN CHARGE
A. RELAÑO

DATE
10/31/2023

**PEPD RECORD SET
ADDENDUM
SR14A/E1A/E2A**

**NOT FOR
CONSTRUCTION**



CALIFORNIA HIGH-SPEED RAIL PROJECT

PALMDALE TO BURBANK

ALIGNMENT SR14A

CONSTRUCTION STAGING LAYDOWN AREAS & DISPOSAL SITES

CONTRACT NO.
HSR14-42

DRAWING NO.
CV-14003-14A

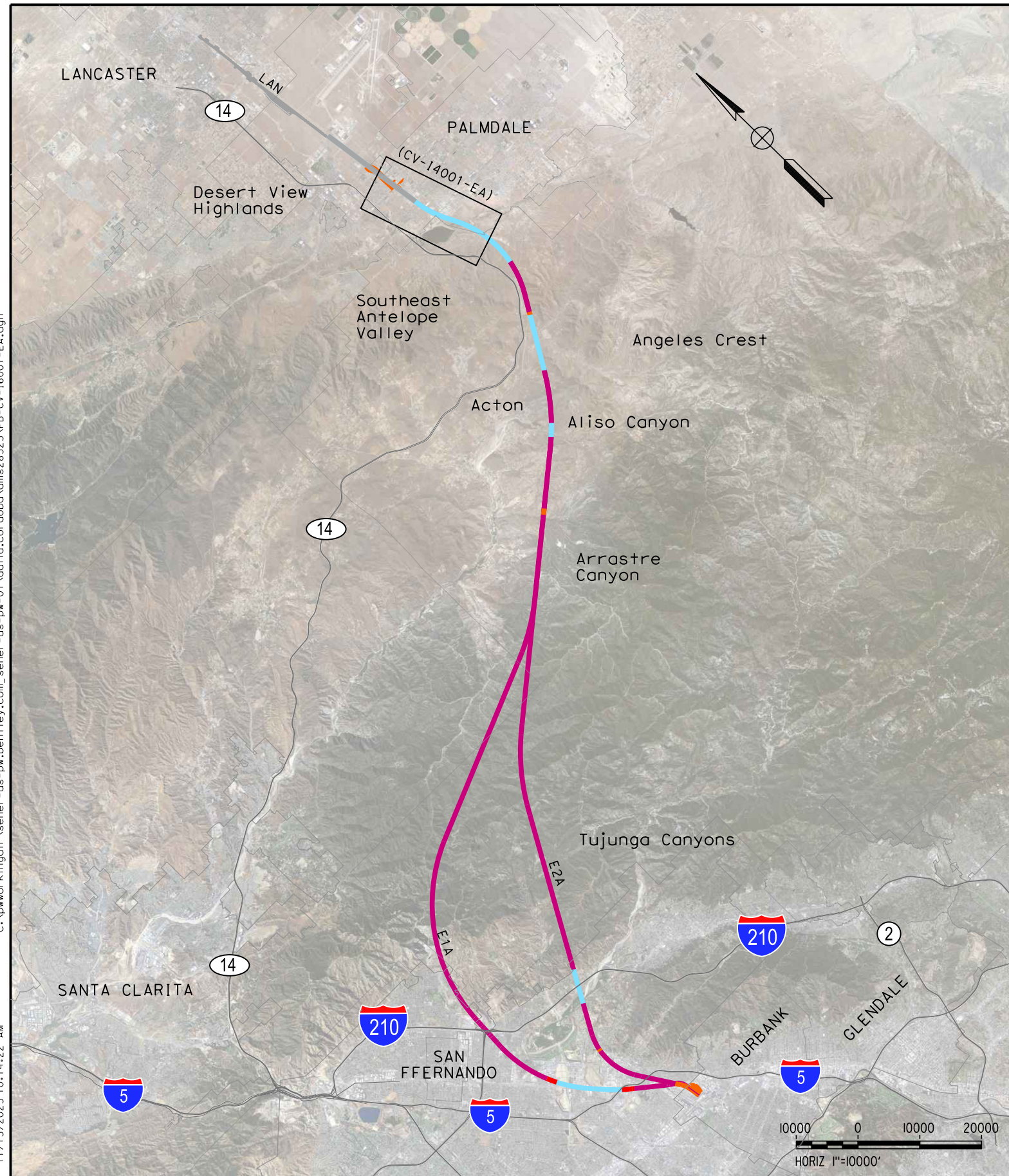
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CONSTRUCTION STAGING NOTES:

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. PORTALS
3. EXCAVATION
4. HSR TRACK
5. RAILWAY SYSTEMS
6. VENTILATION SYSTEMS
7. OTHER TUNNEL INSTALLATIONS (FLS, LIGHTING, ETC.)

LEGEND :

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

ABBREVIATIONS:

- E1A ALIGNMENT "E1A"
- E2A ALIGNMENT "E2A"
- LAN BAKERSFIELD TO PALMDALE SECTION, LANCASTER SUBSECTION

GENERAL NOTES

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

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
E. VELASCO
DRAWN BY
F.J. DOMINGUEZ
CHECKED BY
C. RECHEA
IN CHARGE
A. RELAÑO
DATE
02/26/2021

**PEPD RECORD SET
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CONSTRUCTION**



CALIFORNIA HIGH-SPEED RAIL PROJECT
PALMDALE TO BURBANK
ALIGNMENT E1A/E2A

CONSTRUCTION STAGING KEY MAP

CONTRACT NO.
HSR14-42

DRAWING NO.
CV-16001-EA

SCALE
AS SHOWN

SHEET NO.

PHASE 1

1. TRANSFER ALL SCRRRA TRAFFIC TO THE EASTERMOST TRACK
2. BUILD THE NORTH PART OF THE NEW SCRRRA TRACK AND THE SHOOFLY
3. BUILD AVE. R 11 AND AVE.S, 10TH ST.

PHASE 2

1. TRAFFIC DETOUR FROM SIERRA HWY THROUGH AVE S, 10TH ST. E AND AVE. R 11;
2. TRANSFER SCRRRA TRAFFIC TO BURBANK THROUGH THE SHOOFLY.
3. EARTHWORKS BETWEEN STA 298+00 AND 315+00
4. BUILD AVE S VIADUCT

PHASE 3

1. BUILD SCRRRA AND SIERRA HWY OVERHEADS
2. BUILD NEW SCRRRA ALIGNMENT
3. BUILD SIERRA HWY NORTHERNMOST PART (EAST AVE R 8 THROUGH AVE S)

PHASE 4

1. BUILD SIERRA HWY SOUTHERNMOST PART (SOUTH OF AVE S)
2. RESTORE TRAFFIC TO BURBANK THROUGH NEW SCRRRA ALIGNMENT
3. DISMANTLE SHOOFLY
4. AVE S EARTHWORKS, AND TRAFFIC DETOUR THROUGH THE NEW VIADUCT
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CONSTRUCTION STAGING NOTES:

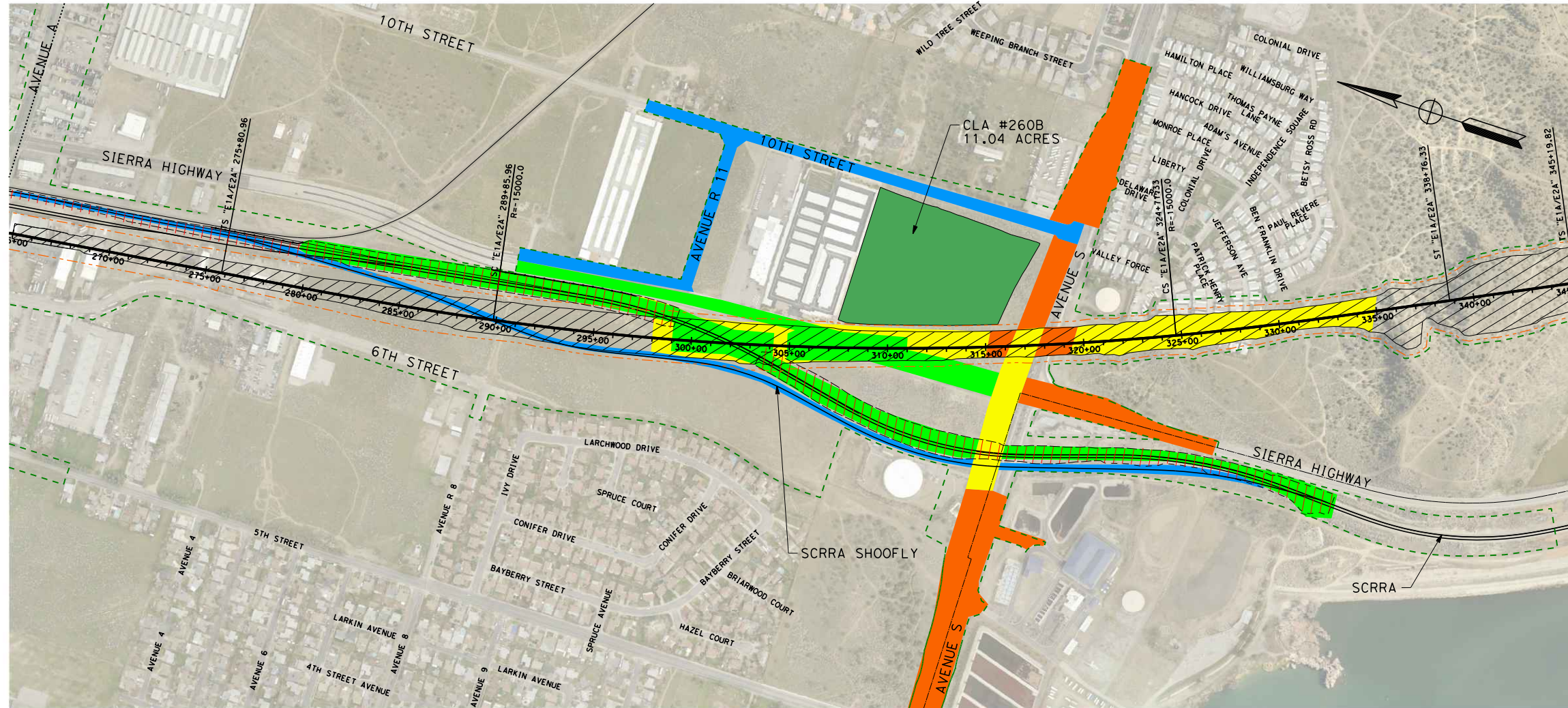
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LEGEND :

- PHASE 1
- PHASE 2
- PHASE 3
- PHASE 4
- CUT AREAS
- FILL AREAS
- CONSTRUCTION STAGING/ LAYDOWN AREA (CLA)
- PROPOSED PERMANENT ENVIRONMENTAL FOOTPRINT
- PROPOSED RIGHT OF WAY

ABBREVIATIONS:

- CLA CONSTRUCTION STAGING/ LAYDOWN AREA
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- OC OVERCROSSING
- SCRRRA SOUTHERN CALIFORNIA REGIONAL RAIL AUTHORITY
- UP UNDERPASS
- UPRR UNION PACIFIC RAILROAD



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DESIGNED BY
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DRAWN BY
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**CALIFORNIA HIGH-SPEED RAIL PROJECT
PALMDALE TO BURBANK**

ALIGNMENT E1A/E2A
CENTRAL SUBSECTION
CONSTRUCTION STAGING
STA 265+00.00 TO STA 345+00.00

CONTRACT NO.
HSR14-42

DRAWING NO.
CV-14001-EA

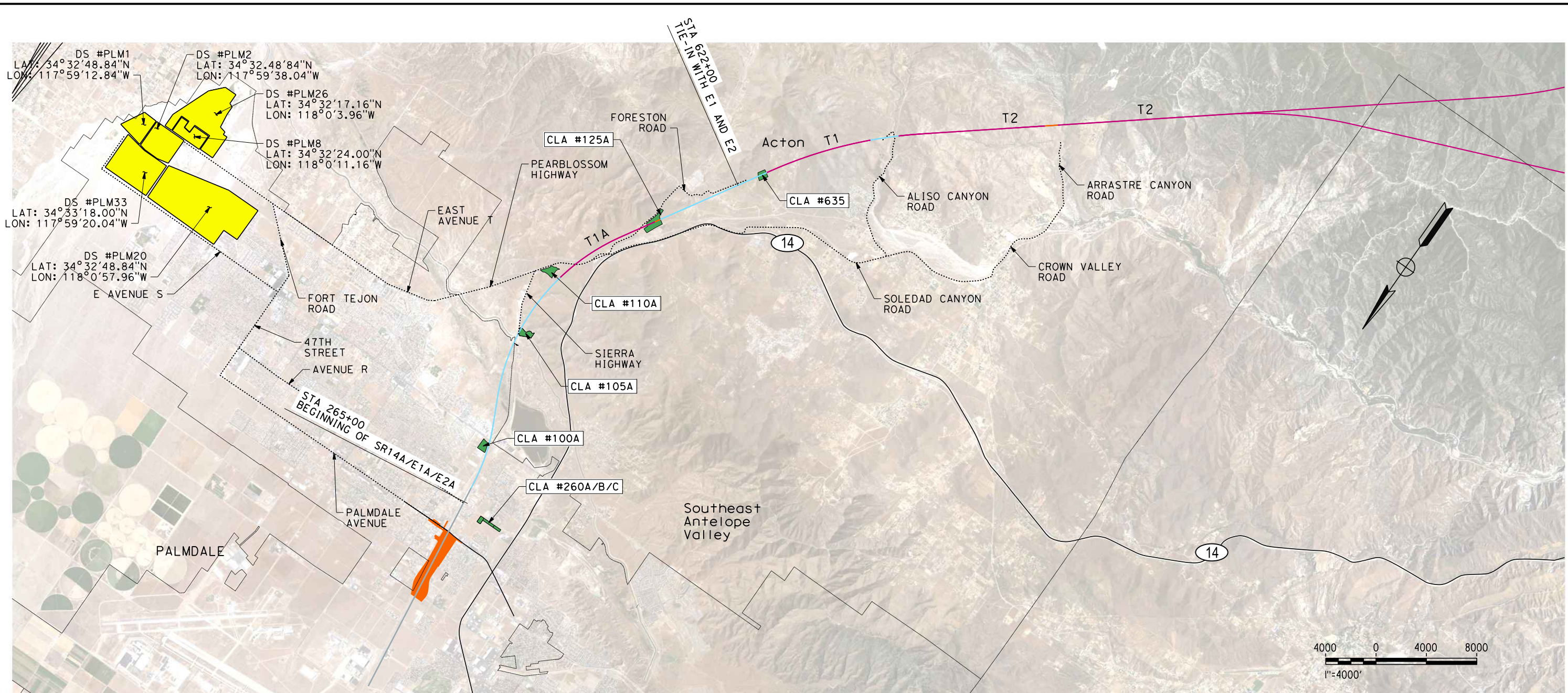
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SHEET NO.

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NOTE:

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POTENTIAL DS DATA (*)			
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(*) SEE CONSTRUCTABILITY ASSESSMENT REPORT FOR ADDITIONAL DATA

CLA DATA	
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260A	3.8
260B	4.2
260C	2.6
100A	11.0
105A	12.1
110A	18.0
125A	25.6
635	9.9

LEGEND :

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

ABBREVIATIONS:

- CLA CONSTRUCTION STAGING/ LAYDOWN AREA
- T1 TUNNEL 1
- T1A TUNNEL 1A
- T2 TUNNEL 2
- DS DISPOSAL SITE

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
E.VELASCO
DRAWN BY
F.J.DOMINGUEZ
CHECKED BY
C.RECHEA
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DATE
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**NOT FOR
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CALIFORNIA HIGH-SPEED RAIL PROJECT
PALMDALE TO BURBANK
ALIGNMENT E1A/E2A

CONSTRUCTION STAGING LAYDOWN AREAS & DISPOSAL SITES

CONTRACT NO.
HSR14-42

DRAWING NO.
CV-E4002-EA

SCALE
AS SHOWN

SHEET NO.