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

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**Designated by:** J.C. Alamilla

**Drawn by:** J.C. Alamilla

**Checked by:** R. Rodriguez

**In Charge:** A. Relano

**Date:** 04/30/2021

**Contract No.:** HSR14-42

**Drawing No.:** CV-B0004

**Scale:** No Scale
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CALIFORNIA HIGH-SPEED RAIL PROJECT
PAMALDE TO BURBANK
ALIGNMENT "REFINED SR14/E1/E2"
GRADING AND DRAINAGE
INDEX OF DRAWINGS
2 OF 2
GENERAL NOTES

1. Minimum vertical clearance requirements to canals and ditches are not known. Further consultation with the watercourse owners will be required to determine necessary clearances. 3'-0" freeboard has been allowed over the 100-year flood level elevations of the Washes and LA River.

2. STA 296+82.67 (Spruce CT) is the northern limit of the Palmdale to Burbank Environmental Document. North of this point refers to Bakersfield--Palmdale Environmental Document. Design features between STA 269+00.00 and 296+82.67 (Spruce CT) shown for reference only.

LEGEND

- SD: Proposed storm drain
- X: Existing storm drain
- T: Direction of flow
- W: Proposed right of way
- X: Existing right of way
- Y: Retaining wall
- U: Fill
- Z: Cut
- G: Noise barrier (potential)
- O: Original ground
- X: Remove base & surfacing
- •: Point of minimum vertical clearance
- •: Water surface
- •: Estimated 100-year flood elevation
- •: Existing high voltage tower
- 0: Water valve
- W: Headwall
- O: Outlet structure
- M: Approach slab

- L: Wingwall
- L: Outlet structure
- L: Approach slab
- L: Wingwall
- L:翼板
- L: Wingwall layout line

REMARKS

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ABBREVIATIONS AND LEGEND

SSD: Structural Section Drain
SSRP: Steel Spiral Rib Pipe
SR: State Route
ST: Street, Spiral to Tangent
STA: Station
STBB: Single Thrie Beam Barrier
STD: Standard
STR: Structure
SRS: Stand Alone Radio Site
SURF: Surfacing
SW: Sidewalk, Sound Wall
SYM: Symmetrical
CALIFORNIA HIGH-SPEED RAIL PROJECT
PALMDALE TO BURBANK
ALIGNMENT "REFINED SR14"
GRADING AND DRAINAGE PLAN

DRAWN BY: A. Relano
DESIGNED BY: R. Rodriguez
CHECKED BY: J. C. Alamilla
IN CHARGE: A. Rodriguez

DATE: 04/30/2021

CONTRACT NO. HSR14-42
DRAWING NO. CV-G4011-S14
SCALE AS SHOWN
SHEET NO.

1. UNA LAKE
2. LAKE PALMDALE
3. CHSR NB ALIGNMENT "REFINED SR14"
4. CHSR SB ALIGNMENT "REFINED SR14"
5. PROP DRAINAGE DITCH
6. PROP DRAINAGE
7. LIMIT LINE
8. GRADING LIMIT LINE
9. MATCH LINE (CV-G4010-S14)
10. MATCH LINE (CV-G4012-S14)
11. (C-V-G4007-S14)

SIERA HIGHWAY

1:100

04/30/2021

CALIFORNIA HIGH-SPEED RAIL AUTHORITY
CALIFORNIA HIGH-SPEED RAIL PROJECT
PALMDALE TO BURBANK
ALIGNMENT "REFINED SR14"
GRADING AND DRAINAGE PLAN

MATCH LINE (CV-G4012-S14)

THESE ARE ALIGNMENTS "REFINED SR14"
"AS FASHIONED ALIGNMENT "REFINED SR14"

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

SAN BERNARDINO COUNTRY
130 S. HOGAN STREET
SAN BERNARDINO, CA 92410
(909) 388-5700
INFO@NMCALIFORNIA.COM
WWW.NMCAZ.COM

CHSR NB ALIGNMENT "REFINED SR14"
CHSR SB ALIGNMENT "REFINED SR14"

04/30/2021
CALIFORNIA HIGH-SPEED RAIL PROJECT
PALMDALE TO BURBANK
ALIGNMENT "REFINED SR14"
GRADING AND DRAINAGE PLAN
CALIFORNIA HIGH-SPEED RAIL PROJECT
PALMDALE TO BURBANK
ALIGNMENT "REFINED SR14"

GRADING AND DRAINAGE PLAN

DRAWN BY
DESIGNED BY
CHECKED BY
IN CHARGE

A.RELANO
R. RODRIGUEZ
JC ALAMILLA
JC ALAMILLA
CALIFORNIA HIGH-SPEED RAIL PROJECT
PALMDALE TO BURBANK
ALIGNMENT "REFINED SR14"
GRADING AND DRAINAGE PLAN

A. RODRIGUEZ
05/20/2021

COORDINATES

04/30/2021

MATCH LINE (CV-G4021 - S14)
MATCH LINE (CV-G4023 - S14)

GRADING LIMIT LINE
GRADING LIMIT LINE
GRADING LIMIT LINE

PPEF HSR R/W
PPEF HSR R/W
PPEF HSR R/W

AGU A
DU L
CA NY
ON D
R
YO N
A
CE
CL
U
DA
G
A

MATCH LINE

(1160 + 83.42) T S "REFACTED SR 14"

---

1140+00
1145+00
1150+00
1155+00
1160+00

---

0
100
200
1"=100'

---

2280
2260
2125'
2175
2200
2200'

---

( HSR R/W)

---

( TVG - G4022 - S14)
CALIFORNIA HIGH-SPEED RAIL PROJECT
PALMDALE TO BURBANK
ALIGNMENT "REFINED SR14"
GRADING AND DRAINAGE PLAN

SAN FERNANDO ROAD
MONTAGUE ST
BRADLEY AVENUE
PORTAL 10

MATCH LINE (CV-G4109-S14)

PROP STORM DRAIN
PROP STORM DRAIN
PROP STORM DRAIN
PROP STORM DRAIN
PROP STORM DRAIN

LIMIT LINE
GRADING LIMIT LINE

PROP STORM DRAIN
PROP STORM DRAIN
PROP STORM DRAIN
PROP STORM DRAIN
PROP STORM DRAIN

BASIN DETENTION PROPOSED
BASIN DETENTION PROPOSED

LIMIT LINE
GRADING

ALIGNMENT "REFINED SR14"

MATCH LINE (CV-G4109-S14)
CALIFORNIA HIGH-SPEED RAIL PROJECT
PALMDALE TO BURBANK
ALIGNMENT "REFINED SR14"
GRADING AND DRAINAGE PLAN

SCALE AS SHOWN

DATE 04/30/2021

DRAWING NO. CV-G4107-S14

DRAWN BY A.RELANO
DEIGNED BY R. RODRIGUEZ
CHECKED BY JC ALAMILLA
IN CHARGE PPEF

GRADING LIMIT LINE
PROP STORM DRAIN
MATCH LINE (CV-4106-S14)

JAMESTOWN RD
VALLEY FORGE
E TENTH ST
MISCHER ST
WHISPERING WILLOW ST
BEXLEY AVE

MISCHER ST
JAMESTOWN RD
BEXLEY AVE

E AVENUE S

0 200 400 600 800 1000 1200

P.P.E.F.
CALIFORNIA HIGH-SPEED RAIL PROJECT
PALMDALE TO BURBANK
ALIGNMENT "E1"
GRADING AND DRAINAGE PLAN

SIE RRA HIGHWAY
HA ROLD TH IRD ST
B A RR EL
S P R ING S
H A R O L D  S E C O N D ST
(REALIGNED)
SIE RRA HIGHWAY
PPEF
GRADING LIMIT LINE
DRAINAGE DITCH
ADJUST DRAINAGE CULVERT
PROP LIMIT LINE
GRADING
PPEF
PROP R/W
DRAINAGE LIMIT LINE
RELOCATED STORM DRAIN
PROP CULVERT OUTLET
PROP BRIDGE
PROP RET WALL
( C V - G 4011 - E 1 )

CONSTRUCTION
NOT FOR
REV 02
PEPD RECORD SET

A RELANO
R RODRIGUEZ

ALAMILLA
( C V - G 4013 - E 1 )
CALIFORNIA HIGH-SPEED RAIL PROJECT
PALMDALE TO BURBANK
ALIGNMENT "E1"
GRADING AND DRAINAGE PLAN
CALIFORNIA HIGH-SPEED RAIL PROJECT
PALMDALE TO BURBANK
ALIGNMENT "E1"
GRADING AND DRAINAGE PLAN
CALIFORNIA HIGH-SPEED RAIL PROJECT
PALMDALE TO BURBANK
ALIGNMENT "E1"
GRADING AND DRAINAGE PLAN
CALIFORNIA HIGH-SPEED RAIL PROJECT
PALMDALE TO BURBANK
ALIGNMENT "E1"
GRADING AND DRAINAGE PLAN
CALIFORNIA HIGH-SPEED RAIL PROJECT
PALMDALE TO BURBANK
ALIGNMENT "E1"
GRADING AND DRAINAGE PLAN

MATCH LINE (CV-G4034-E1)
JOIN EXISTING END OF SCRRA REALIGNMENT

MATCH LINE (CV-G4036-E1)

CONSTRUCTION NOT FOR REV 02 PEPD RECORD SET
GRADING AND DRAINAGE PLAN
ALIGNMENT "E1"
CALIFORNIA HIGH-SPEED RAIL PROJECT
PALMDALE TO BURBANK
ALIGNMENT "E1"
GRADING AND DRAINAGE PLAN

HSR CUT & COVER TRENCH
HSR R/W

EXISTING STORM DRAIN

CBR R/W

HSR R/W

HSR R/W

HSR R/W
CALIFORNIA HIGH-SPEED RAIL PROJECT
PALMDALE TO BURBANK
ALIGNMENT "E1"
GRADING AND DRAINAGE PLAN

EAST TENTH ST

AVE R-8

AVE R SEVEN

Palm Vista Ave

GARNET AVE

SHEFFIELD DR

HARROW CT

DUNNING ST

WHITEHALL LANE

EAVENUE R-8

Avenue R-9

Avenue R-7

Avenue R-6

Avenue R-5

Avenue R-4

Avenue R-3

Avenue R-2

Avenue R-1

Avenue R-0

Match Line

Kalver Avenue

Garnet Avenue

Whitehall Lane

Grading Limit Line

Prop R/W

Grading Limit Line

Prop R/W

Match Line (CV-G4107-E1)
CALIFORNIA HIGH-SPEED RAIL PROJECT
PALMDALE TO BURBANK
ALIGNMENT "E1"
GRADING AND DRAINAGE PLAN

DRAWN BY: A. RELOMO
DESIGNED BY: R. RODRIGUEZ
CHECKED BY: J. CAJALILLA
IN CHARGE: R. RODRIGUEZ

DATE: 04/30/2021

CONSTRUCTION NOT FOR REV 02
PEPD RECORD SET
CALIFORNIA HIGH-SPEED RAIL PROJECT
PALMDALE TO BURBANK
ALIGNMENT "E1"
GRADING AND DRAINAGE PLAN

MATCH LINE ( CV-04077-E1 )

ANGELES FOREST HWY

MATCH LINE ( CV-04077-E1 )

DRAWN BY A.RELANO
CHECKED BY JC ALAMILLA

9:07:54 AM
4/20/2021

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CONTRACT NO.
HSR14-42
DRAWING NO.
CV-G4109-E1
SCALE AS SHOWN
SHEET NO.

DATE
CHK
APP

REV
DESCRIPTION

0400074
c:\pwworking\chsr\dms19528\PB-CV-G4109-E1.dgn
CALIFORNIA HIGH-SPEED RAIL PROJECT
PALMDALE TO BURBANK
ALIGNMENT "E2"
GRADING AND DRAINAGE PLAN

Lake Palmdale
CALIFORNIA HIGH-SPEED RAIL PROJECT
PALMDALE TO BURBANK
ALIGNMENT "E2"
GRADING AND DRAINAGE PLAN
GRADING AND DRAINAGE PLAN

CALIFORNIA HIGH-SPEED RAIL PROJECT
PALMDALE TO BURBANK
ALIGNMENT "E2"
GRADING AND DRAINAGE PLAN

CONTRACT NO. HSR14-42
DRAWING NO. CV-G4105-E2
SCALE AS SHOWN

DATE 04/30/2021
chk
app
rev
description

DRAWN BY
DESIGNED BY
CHECKED BY
IN CHARGE

0400074

4:36:51 PM
4/22/2021

Lake Palmdale
CALIFORNIA HIGH-SPEED RAIL PROJECT
PALMDALE TO BURBANK
ALIGNMENT "E2"
GRADING AND DRAINAGE PLAN

GRADING LIMIT LINE
MATCH LINE (CV-G4021-E2)

R. RODRIGUEZ
A. RELANO
JC. ALAMILLA
CALIFORNIA HIGH-SPEED RAIL PROJECT
PALMDALE TO BURBANK
ALIGNMENT "E2"
GRADING AND DRAINAGE PLAN

ALIGNMENT "E2"
PROP BRIDGE

DRAWN BY
R. RODRIGUEZ
A. RELANO
JC. ALAMILLA

CHECKED BY
R. RODRIGUEZ
A. RELANO
JC. ALAMILLA

IN CHARGE
A. RELANO

DESIGNED BY
R. RODRIGUEZ
A. RELANO
JC. ALAMILLA

DRAWING NO.
CV-G4302-E2
SCALE
AS SHOWN
SHEET NO.
0400074