California High-Speed Rail Authority

Palmdale to Burbank Project Section

PEPD RECORD SET ADDENDUM SR14A / E1A / E2A

Railway Systems Plans

April 2024

CALIFORNIA High-Speed Rail Authority

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.
TP-B0001	ALIGNMENT "SR14A/E1A/E2A" INDEX OF DRAWINGS	
TP-B0002	ALIGNMENT "SR14A/E1A/E2A" ABBREVIATIONS	
TP-B0003	ALIGNMENT "SR14A/E1A/E2A" ABBREVIATIONS AND LEGEND	

CHSR ALIGNMENT "SR14A" RAILWAY SYSTEMS AND FACILITIES

DRAWING NO.	DRAWING DESCRIPTION	SHEET NO.
TP-D0001-14A	ALIGNMENT "SR14A" - TRACTION POWER FACILITIES - LOCATION LAYOUT	
TP-B6001-14A	ALIGNMENT "SR14A" - RAILWAY SYSTEMS - KEY MAP	
TP-F4001-14A	ALIGNMENT "SR14A" - TRACTION POWER SUBSTATION 17A - VINCENT SUBSTATION 1 OF 2	
TP-F4002-14A	ALIGNMENT "SR14A" - TRACTION POWER SUBSTATION 17A - VINCENT SUBSTATION 2 OF 2	
TP-04002-14A	ALIGNMENT "SR14A" - TRACTION POWER FACILITIES - PARALLELING STATION 2	
TP-04003-14A	ALIGNMENT "SR14A" - TRACTION POWER FACILITIES - PARALLELING STATION 3	
TP-04004-14A	ALIGNMENT "SR14A" - TRACTION POWER FACILITIES - SWITCHING STATION 1	
TP-04005-14A	ALIGNMENT "SR14A" - TRACTION POWER FACILITIES - PARALLELING STATION 4	

CHSR ALIGNMENT "E1A" RAILWAY SYSTEMS AND FACILITIES

DRAWING NO.	DRAWING DESCRIPTION	SHEET NO.
TP-D0001-E1A	ALIGNMENT "E1A" - TRACTION POWER FACILITIES - LOCATION LAYOUT	
TP-B6001-EA	ALIGNMENT "E1A/E2A" - RAILWAY SYSTEMS - KEY MAP	
TP-F4001-EA	ALIGNMENT "E1A/E2A" - TRACTION POWER SUBSTATION 17B/17C - VINCENT SUBSTATION	
TP-04002-E1A	ALIGNMENT "E1A" - TRACTION POWER FACILITIES - PARALLELING STATION 2	
TC-F4002-EA	ALIGNMENT "E1A/E2A" - TRAIN CONTROL SYSTEM - STANDALONE RADIO SITE 2	

CHSR ALIGNMENT "E2A" RAILWAY SYSTEMS AND FACILITIES

DRAWING NO.	DRAWING DESCRIPTION	SHEET NO.
TP-D0001-E2A	ALIGNMENT "E2A" - TRACTION POWER FACILITIES - LOCATION LAYOUT	

TRACTION POWER FACILITIES DETAIL

DRAWING NO.	DRAWING DESCRIPTION	SHEET NO.
TP-D5001	ALIGNMENT "SR14A/E1A/E2A" - UNDERGROUND TRACTION POWER FACILITIES - DETAIL 1	
TP-D5002	ALIGNMENT "SR14A/E1A/E2A" - UNDERGROUND TRACTION POWER FACILITIES - DETAIL 2	
TP-D5003	ALIGNMENT "SR14A/E1A/E2A" - UNDERGROUND TRACTION POWER FACILITIES - DETAIL 3	

TRAIN CONTROL SYSTEM

DRAWING NO.	DRAWING DESCRIPTION	SHEET NO.
TC-E6002	ALIGNMENT "SR14A" TRAIN CONTROL SYSTEM - INTERLOCKING SITES - SITE D LOCATIONS	
TC-E6003	ALIGNMENT "E1A" TRAIN CONTROL SYSTEM - INTERLOCKING SITES - SITE D LOCATIONS	
TC-E6004	ALIGNMENT "E2A" TRAIN CONTROL SYSTEM - INTERLOCKING SITES - SITE D LOCATIONS	
TC-E6005	TRAIN CONTROL SYSTEM - INTERLOCKING SITES - BURBANK STATION	

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY R. RODRIGUEZ
DRAWN BY F. VASQUEZ
CHECKED BY A. RELAÑO
IN CHARGE A. RELAÑO
DATE 02/26/2021

PEPD RECORD SET
ADDENDUM
SR14A/E1A/E2A

NOT FOR CONSTRUCTION

SENER

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED RAIL PROJECT
PALMDALE TO BURBANK

ALIGNMENT "SR14A/E1A/E2A"
GENERAL
INDEX OF DRAWINGS

CONTRACT NO. HSR14-42
DRAWING NO. TP-B0001
SCALE NO SCALE
SHEET NO.

A

AB	AGGREGATE BASE
ABBC	ASBESTOS BONDED BITUMINOUS COATED
ABM	AIR-BLOWN MORTAR
ABN	ABANDON
ABUT	ABUTMENT
AC	ASPHALT CONCRETE
ACB	ASPHALT CONCRETE BASE
ACP	ASBESTOS CEMENT PIPE
ADL	ADDED DEAD LOAD
ADJ	ADJUST
AFES	ALTERNATIVE FLARED END SECTION
AHD	AHEAD
ALT	ALTERNATE
AM	TIME FROM MIDNIGHT TO NOON
AP	ALTERNATIVE PIPE
APC	ALTERNATIVE PIPE CULVERT
APPROX	APPROXIMATE
APU	ALTERNATIVE PIPE UNDERDRAIN
ARS	ACCELERATION RESPONSE SPECTRUM
AR	ACCESS RESTRICTION
AS	AGGREGATE SUBBASE
ASRP	ALUMINUM SPIRAL RIB PIPE
ASSY	ASSEMBLY
ATPB	ASPHALT TREATED PERMEABLE BASE
ATPM	ASPHALT TREATED PERMEABLE MATERIAL
AVE	AVENUE
AVG	AVERAGE
@	AT

B

BAGR	BRIDGE APPROACH GUARD RAILING
BB	BEGINNING OF BRIDGE
BC	BEGIN HORIZONTAL CURVE
BCC	BALANCED CANTILEVER CONSTRUCTION
BCR	BEGIN CURB RETURN
BEG	BEGIN
BIT CTD	BITUMINOUS COATED
BK	BACK
BKF	BACKFILL
BLDG	BUILDING
BLM	BRIDGE-LOG MILE
BLVD	BOULEVARD
BM	BENCH MARK
BND	BOUND
BOT	BOTTOM
BR	BRIDGE
BRG	BEARING
BTU	BRITISH THERMAL UNIT
BVC	BEGIN VERTICAL CURVE
BW	BARBED WIRE

C

CAA	CABLE ANCHOR ASSEMBLY
CAP	CORRUGATED ALUMINUM PIPE
CAPA	CORRUGATED ALUMINUM PIPE ARCH
CAS	CONSTRUCTION AREA SIGN
CB	CONCRETE BARRIER
CBW	CONCRETE BLOCK WALL
C-C	CENTER TO CENTER

C CONTINUED

CHSRA	CALIFORNIA HIGH SPEED RAIL AUTHORITY
CHST	CALIFORNIA HIGH SPEED TRAIN
CHSR	CALIFORNIA HIGH SPEED RAIL
CG	CENTER OF GRAVITY
CHNL	CHANNEL
CI	CAST IRON
CIDH	CAST-IN-DRILLED-HOLE
CIP,C-I-P	CAST-IN-PLACE, CAST IRON PIPE
CIPCP	CAST IN PLACE CONCRETE PIPE
CISS	CAST-IN-STEEL-SHELL
CJP	COMPLETE JOINT PENETRATION
CL	CENTERLINE, CLASS
℄	CENTERLINE
CL2	CLASS 2
CL-6	CHAIN LINK FENCE (6 FT)
CLR	CLEAR, CLEARANCE
CM	CORRUGATED METAL
CMP	CORRUGATED METAL PIPE
CO	COUNTY
COL	COLUMN
CONC	CONCRETE
COND	CONDUIT
CONN	CONNECTOR
CONST	CONSTRUCT, CONSTRUCTION
CONT	CONTINUOUS
COORD	COORDINATE
CP	CANDLEPOWER
CR	CREEK
CRCP	CONTINUOUS REINFORCED CONCRETE PAVT
CRSP	CONCRETED ROCK SLOPE PROTECTION
CS	CURVE TO SPIRAL
CSP	CORRUGATED STEEL PIPE
CSPA	CORRUGATED STEEL PIPE ARCH
CTB	CEMENT TREATED BASE
CTPB	CEMENT TREATED PERMEABLE BASE
CTPM	CEMENT TREATED PERMEABLE MATERIAL
CTRS	CENTERS
CULV	CULVERT
CVFPB	CENTRAL VALLEY FLOOD PROTECTION BOARD

D

D	DEPTH
DD	DOWNDRAIN, DIRECTIVE DRILLING
DBL	DOUBLE
DEG	DEGREE
DEL	DELINEATOR
DET	DETAIL, DETOUR
DF	DOUGLAS FIR
DI	DRAINAGE INLET, DROP INLET
DIA	DIAMETER
DIAPH	DIAPHRAGM
DIST	DISTANCE, DISTRICT
DMBB	DOUBLE METAL BEAM BARRIER
DR	DRIVE
DTBB	DOUBLE THRIE BEAM BARRIER
DWY	DRIVEWAY

E

E	EAST, EASTING
EA	ACTUAL SUPERELEVATION
EU	UNBALANCED SUPERELEVATION

E CONTINUED

EASE	EASEMENT
EB	END OF BRIDGE, EASTBOUND
EC	END HORIZONTAL CURVE
ECR	END CURB RETURN
ED	EDGE DRAIN
EDC	EDGE DRAIN CLEANOUT
EDO	EDGE DRAIN OUTLET
EDV	EDGE DRAIN VENT
ELEC	ELECTROLIER
ELECT	ELECTRIC
ELEV	ELEVATION
ELLN	EXTRALEGAL LEAD NETWORK
EMB	EMBANKMENT
ENGR	ENGINEER
EOD	EDGE OF DECK
EP	EDGE OF PAVEMENT
EQ	EQUATION, EQUAL
ES	EDGE OF SHOULDER
ETW	EDGE OF TRAVELED WAY
EVC	END VERTICAL CURVE
EW	ENDWALL
EXC	EXCAVATION
EXIST, EX.	EXISTING
EXP	EXPANSION
EXP JT	EXPANSION JOINT
EXT	EXTERIOR
EXWY	EXPRESSWAY

F

F & C	FRAME AND COVER
F & G	FRAME AND GRATE
FB	FLOOR BEAM
F-B	FRESNO TO BAKERSFIELD
FDN	FOUNDATION
FEBT	FACING EASTBOUND TRAFFIC
FES	FLARED END SECTION
FF	FILTER FABRIC
FG	FINISHED GRADE
FH	FIRE HYDRANT
FIG	FIGURE
FL	FLOW LINE
FNBT	FACING NORTHBOUND TRAFFIC
FOC	FACE OF CONCRETE
FPLM	FULL SPAN PRECAST LAUNCHING METHOD
FR RD	FRONTAGE ROAD
FS	FAR SIDE, FINISHED SURFACE
FSBT	FACING SOUTHBOUND TRAFFIC
FT	FOOT, FEET
FTG	FOOTING
FUT	FUTURE
FWBT	FACING WESTBOUND TRAFFIC
FWY	FREEWAY

G

G	ACCELERATION DUE TO GRAVITY
GA	GAGE
GALV	GALVANIZED
GP	GRADING PLANE
GR	GUARD RAILING
GSP	GALVANIZED STEEL PIPE
GTR	GUTTER

H

H	HEIGHT
HD	HORIZONTAL DRAIN
HDC	HIGH DESERT CORRIDOR
HDWL	HEADWALL
HEX HD	HEXAGONAL HEAD
HMA	HOT MIXED ASPHALT
HORIZ	HORIZONTAL
HP	HINGE POINT, HORSEPOWER
HPS	HIGH PERFORMANCE STEEL
HR	HOUR
HS	HIGH STRENGTH
HSR	HIGH SPEED RAIL
HST	HIGH SPEED TRAIN
HW	HEADWALL, HIGH WATER
HWM	HIGH WATER MARK
HWY	HIGHWAY

I

IB	IMPORTED BORROW
ID	INSIDE DIAMETER
IF	INSIDE FACE
IN	INCH, INCHES
INT	INTERIOR
INV	INVERT
IRR	IRRIGATION

J

JCT	JUNCTION
JP	JOINT POLE
JPCP	JOINTED PLAIN CONCRETE PAVEMENT
JS	JUNCTION STRUCTURE
JT	JOINT

K

K	DISTANCE TO ACHIEVE 1% GRADE CHANGE

L

L	LENGTH
LAT	LATITUDE
LC	LENGTH OF CURVE
LCB	LEAN CONCRETE BASE
LMF	LIGHT MAINTENANCE FACILITY
LN	LANE
LOC	LOCATION
LOL	LAYOUT LINE
LONG	LONGITUDE
LONGIT	LONGITUDINAL
LS	LENGTH OF SPIRAL
LT	LEFT

M

MAINT	MAINTENANCE
MAX	MAXIMUM
MB	METAL BEAM
MBB	METAL BEAM BARRIER
MBGR	METAL BEAM GUARD RAILING
MED	MEDIAN
M-F	MERCED TO FRESNO
MH	MANHOLE
MIN	MINIMUM
MISC	MISCELLANEOUS
MISC I & S	MISCELLANEOUS IRON AND STEEL
MKR	MARKER
M/L	MAIN LINE (RAILWAY)

M CONTINUED

MOD	MODIFIED, MODIFY
MON	MONUMENT
MP	METAL PLATE
MPGR	METAL PLATE GUARD RAILING
MPH	MILES PER HOUR
MR	MOVEMENT RATING
MSE	MECHANICALLY STABILIZED EARTH
MSS	MOVING SCAFFOLDING SYSTEM
MT	MAIN TRACK
MTL	MATERIAL

N

N	NORTH, NORTHING
N/A	NOT APPLICABLE
NB	NORTHBOUND
NO.	NUMBER (MUST HAVE PERIOD)
NOS.	NUMBERS (MUST HAVE PERIOD)
NPS	NOMINAL PIPE SIZE
NS	NEAR SIDE
NTS	NOT TO SCALE

O

OBLR	OBLITERATE
OC	OVERCROSSING
OCS	OVERHEAD CONTACT SYSTEM
OD	OUTSIDE DIAMETER
OF	OUTSIDE FACE
OG	ORIGINAL GROUND
OGAC	OPEN GRADED ASPHALT CONCRETE
OH	OVERHEAD
O-O	OUT TO OUT
OPP	OPPOSITE

P

P	PAGE
PAP	PERFORATED ALUMINUM PIPE
PB	PULL BOX
PC	POINT OF CURVATURE, PRECAST
PCC	POINT OF COMPOUND CURVE, PORTLAND CEMENT CONCRETE
PCP	PERFORATED CONCRETE PIPE, PRESTRESSED CONCRETE PIPE
PCVC	POINT OF COMPOUND VERTICAL CURVE
PED	PEDESTRIAN
PED OC	PEDESTRIAN OVERCROSSING
PED UC	PEDESTRIAN UNDERCROSSING
PERM MTL	PERMEABLE MATERIAL
PG	PROFILE GRADE
PI	POINT OF INTERSECTION
PJP	PARTIAL JOINT PENETRATION
℄,PL	PLATE
P/L	PROPERTY LINE
PM	POST MILE, TIME FROM NOON TO MIDNIGHT
PN	PAVING NOTCH
POB	POINT OF BEGINNING
POC	POINT OF HORIZONTAL CURVE
POE	POINT OF ENDING
POT	POINT OF TANGENT
POVC	POINT OF VERTICAL CURVE
PP	PIPE PILE, PLASTIC PIPE, POWER POLE
PPL	PREFORMED PERMEABLE LINER
PPP	PERFORATED PLASTIC PIPE
PRC	POINT OF REVERSE CURVE

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY R. RODRIGUEZ
DRAWN BY F. VASQUEZ
CHECKED BY A. RELANO
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CALIFORNIA HIGH-SPEED RAIL PROJECT
PALMDALE TO BURBANK

ALIGNMENT "SR14A/E1A/E2A"
GENERAL
ABBREVIATIONS

CONTRACT NO. HSR14-42
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SCALE NO SCALE
SHEET NO.

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P CONTINUED

PRF	PAVEMENT REINFORCING FABRIC
PROP	PROPOSED
PRVC	POINT OF REVERSE VERTICAL CURVE
PS&E	PLANS, SPECIFICATIONS AND ESTIMATES
PS, P/S	PRESTRESSED, PARALLEL STATION
PSP	PERFORATED STEEL PIPE
PT	POINT OF TANGENCY
PVC	POLYVINYL CHLORIDE
PVI	POINT OF VERTICAL INTERSECTION
PVMT	PAVEMENT
PVP	MAINTENANCE VEHICLE PULLOUT

Q

QTY	QUANTITY

R

R	RADIUS
R & D	REMOVE AND DISPOSE
R & S	REMOVE AND SALVAGE
R/C	RATE OF CHANGE
RCA	REINFORCED CONCRETE ARCH
RCB	REINFORCED CONCRETE BOX
RCP	REINFORCED CONCRETE PIPE
RCPA	REINFORCED CONCRETE PIPE ARCH
RD	ROAD
REINF	REINFORCED, REINFORCEMENT, REINFORCING
REL	RELOCATE
REPL	REPLACEMENT
RET	RETAINING
REV	REVISED
RDWY	ROADWAY
RM	ROAD-MIXED
R/W, ROW	RIGHT OF WAY
RP	RADIUS POINT, REFERENCE POINT
RR	RAILROAD
RSP	ROCK SLOPE PROTECTION
RT	RIGHT
RTE	ROUTE
RW	REDWOOD, RETAINING WALL
RWY	RAILWAY

S

S	SOUTH, SUPPLEMENT, STATION LINE
SAE	STRUCTURE APPROACH EMBANKMENT
SALV	SALVAGE
SAPP	STRUCTURAL ALUMINUM PLATE PIPE
SB	SOUTHBOUND
SC	SPIRAL TO CURVE
SCRRA	SOUTHERN CALIFORNIA REGIONAL RAIL AUTHORITY
SCSP	SLOTTED CORRUGATED STEEL PIPE
SD	STORM DRAIN
SEC	SECOND
SECT	SECTION
SEP	SEPARATION
SG	SUBGRADE
SHLD	SHOULDER
SHT	SHEET
SIM	SIMILAR
SM	SELECTED MATERIAL
SPEC	SPECIAL, SPECIFICATIONS
SPP	SLOTTED PLASTIC PIPE
SS	SLOPE STAKE, SPIRAL TO SPIRAL

S CONTINUED

SSBM	STRAP AND SADDLE BRACKET METHOD
SSD	STRUCTURAL SECTION DRAIN
SSPA	STRUCTURAL STEEL PLATE ARCH
SSPP	STRUCTURAL STEEL PLATE PIPE
SSPPA	STRUCTURAL STEEL PLATE PIPE ARCH
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
SWR	SEWER
SWS	SWITCHING STATION
SYM	SYMMETRICAL
S4S	SURFACE 4 SIDES

T

T	SEMI-TANGENT
TAB	TABLET
TAN	TANGENT
TBB	THRIE BEAM BARRIER
TBR	TIMBER
TC	TOP OF CURB, TANGENT TO CURVE
TCB	TRAFFIC CONTROL BOX
TEL	TELEPHONE
TEMP	TEMPORARY
TG	TOP OF GRADE
TM	TECHNICAL MEMORANDUM
TOT	TOTAL
TP	TELEPHONE POLE
TPB	TREATED PERMEABLE BASE
TPM	TREATED PERMEABLE MATERIAL
TPSS	TRACTION POWER SUPPLY STATION
TRANS	TRANSITION, TRANSVERSE
TSMF	TRAFFIC SIGNAL, TUBULAR STEEL, TANGENT TO SPIRAL TERMINAL STORAGE AND MAINTENANCE FACILITY
TYP	TYPICAL
TOR	TOP OF RAIL

U

UC	UNDERCROSSING
UD	UNDERDRAIN
UON	UNLESS OTHERWISE NOTED
UP	UNDERPASS
UPRR	UNION PACIFIC RAILROAD
USFWS	UNITED STATES FISH AND WILDLIFE SERVICE

V

V	VALVE, DESIGN SPEED
VAR	VARIABLE
VC	VERTICAL CURVE
VCP	VITRIFIED CLAY PIPE
VERT	VERTICAL
VIA	VIADUCT
VOL	VOLUME

W

W	WEST, WIDTH
WB	WESTBOUND
WH	WEEP HOLE
WM	WIRE MESH
WS	WATER SURFACE
WSP	WELDED STEEL PIPE
WT	WEIGHT
WV	WATER VALVE
WW	WINGWALL
WWLOL	WINGWALL LAYOUT LINE
W/	WITH

X

X SEC	CROSS SECTION
XING	CROSSING

Y

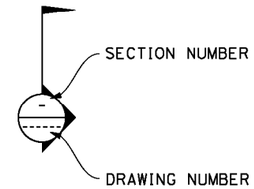
YR	YEAR
YRS	YEARS

GENERAL NOTES

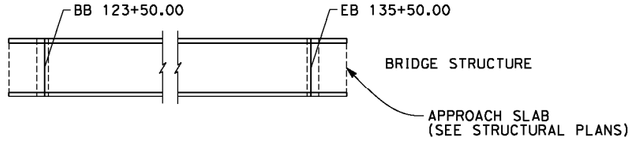
1. TRACK PROFILE IS DESIGNED AS CENTERLINE AT THE TOP OF THE SB LOW RAIL.
2. MINIMUM VERTICAL CLEARANCE REQUIREMENTS TO CANALS AND DITCHES ARE NOT KNOWN. FURTHER CONSULTATION WITH THE WATERCOURSE OWNERS WILL BE REQUIRED TO DETERMINE NECESSARY CLEARANCES. 3'-0" FREEBOARD HAS BEEN ALLOWED OVER THE 100-YEAR FLOOD LEVEL ELEVATIONS OF THE WASHES AND LA RIVER.
3. THE FOLLOWING ARE ROADWAY DESIGN STANDARD AND GUIDELINES:
   A. CALTRANS HIGHWAY DESIGN MANUAL (2006)
   B. AASHTO ROADSIDE DESIGN GUIDE (2006)
   C. APPLICABLE LOCAL DESIGN STANDARD AND GUIDELINES (I.E., CITY OF LOS ANGELES)
4. FOR ROADWAY IMPROVEMENTS, SEE ROADWAY PLANS.
5. FINAL SLOPES TO BE DEFINED AT A LATER STAGE, WHEN THE GEOTECHNICAL STUDY IS AVAILABLE.
6. STRUCTURE DIMENSIONS ARE INDICATIVE.
7. 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.

LEGEND

PLAN



PROPOSED RIGHT OF WAY
EXISTING RIGHT OF WAY
PROPOSED RETAINING WALL
LIMITS OF EMBANKMENT (FILL)
LIMITS OF EXCAVATION (CUT)
PROPOSED PERMANENT ENVIRONMENTAL FOOTPRINT
PROPOSED TEMPORARY ENVIRONMENTAL FOOTPRINT
EXISTING OVERHEAD HIGH VOLTAGE POWER LINES
HIGH SPEED TURNOUT
SCRRA TURNOUT
BUMPING POST
CURVE DATA (HSR ALIGNMENT)
MILEPOST MARKER



PROFILE

PROPOSED TRACK ELEVATION
ORIGINAL GROUND (OG)
OTHER TRACKS
HIGH SPEED TURNOUT
STRUCTURAL CLEARANCE ENVELOPE

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY R. RODRIGUEZ
DRAWN BY F.VASQUEZ
CHECKED BY A. RELAÑO
IN CHARGE A. RELAÑO
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CONTRACT NO. HSR14-42
DRAWING NO. TP-B0003
SCALE NO SCALE
SHEET NO.

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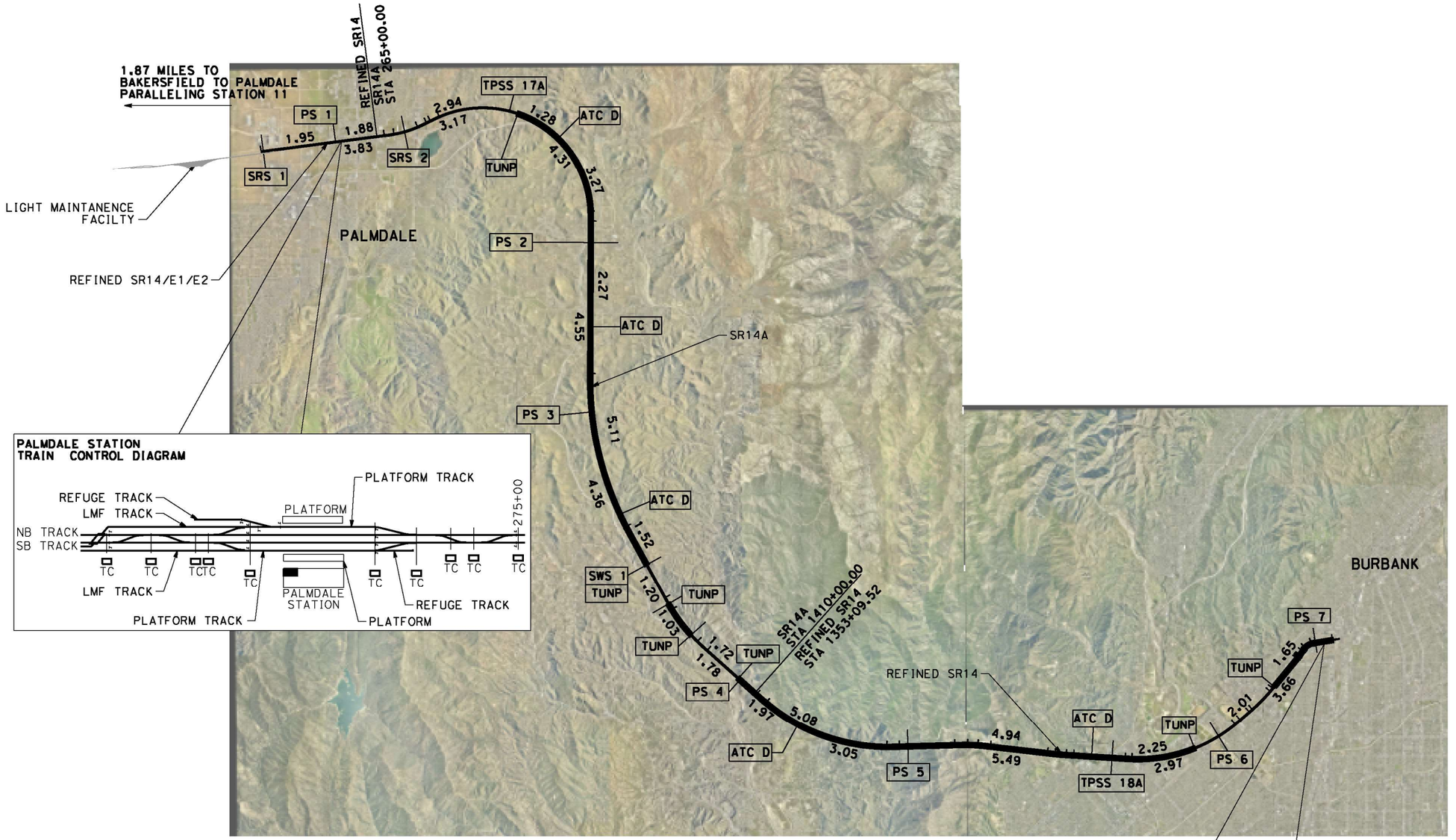

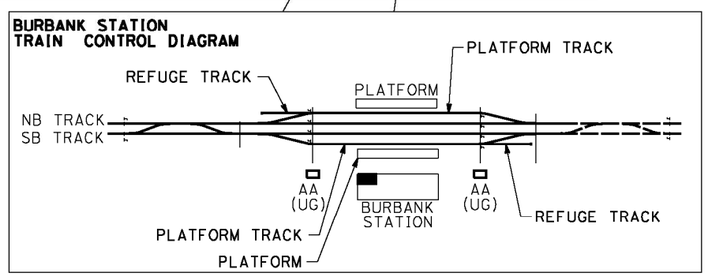

LEGEND

RAILWAY SYSTEMS FACILITY SPACING (MILES) 5.0

AT- GRADE / ELEVATED

UNDERGROUND

ABBREVIATIONS:

TPSS:	TRACTION POWER SUBSTATION
PS:	PARALLELING STATION
SWS:	SWITCHING STATION
TUNP:	TUNNEL PORTAL FACILITIES
SRS:	STANDALONE RADIO SITE
TC:	TRAIN CONTROL FACILITY
ATC:	AUTOMATIC TRAIN CONTROL

NOTES:

1. SITE STATIONING GIVEN IS APPROXIMATE AND WILL BE FINALIZED IN FUTURE DESIGN PHASE.
2. IN UNDERGROUND SECTIONS, RF COMMUNICATION WILL BE USING DIRECTIONAL ANTENNAS OR RADIANT CABLES.
3. TRACTION POWER FACILITIES HAVE RADIO ANTENNAS.
4. ALL TUNNEL PORTALS (TUNP) REQUIRE SPACE FOR RADIO MASTS AS WELL AS ANTENNAS, PLUS AN ASSOCIATED CABIN TO HOUSE RADIO EQUIPMENT. ATC EQUIPMENT CABINS WILL BE LOCATED AT THESE LOCATIONS TOO.
5. RADIO EQUIPMENT WITHIN TUNNELS WILL BE INSTALLED IN CROSS PASSAGES EQUIPMENT ROOMS AND AT PARALLELING STATIONS.

8000 0 8000 16000
1"=8000'

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY R. RODRIGUEZ
DRAWN BY F. VASQUEZ
CHECKED BY A. RELAÑO
IN CHARGE A. RELAÑO
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PEPD RECORD SET
ADDENDUM
SR14A/E1A/E2A

NOT FOR CONSTRUCTION

SENER

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED RAIL PROJECT
PALMDALE TO BURBANK
ALIGNMENT "SR14A"

TRACTION POWER FACILITIES
LOCATION LAYOUT

CONTRACT NO. HSR14-42
DRAWING NO. TP-D0001-14A
SCALE AS SHOWN
SHEET NO.

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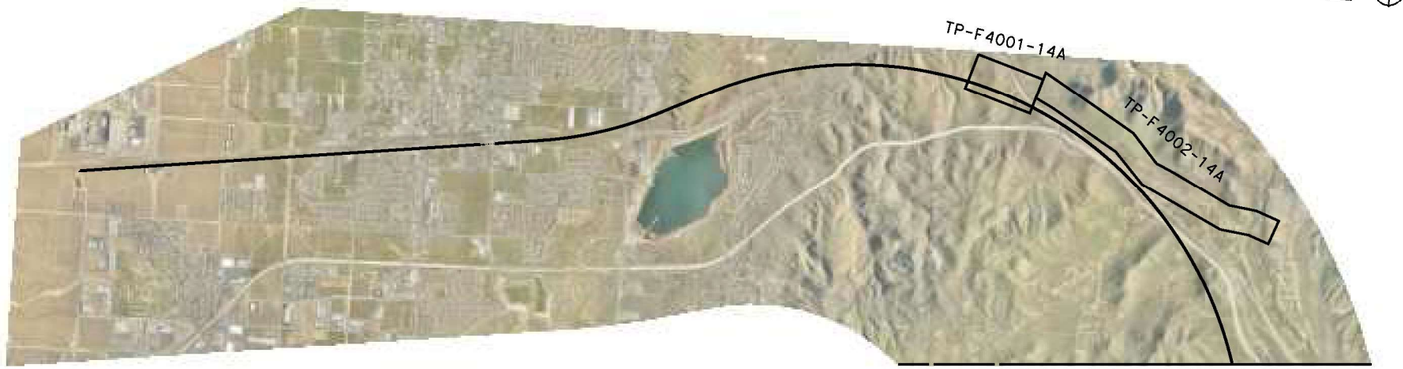
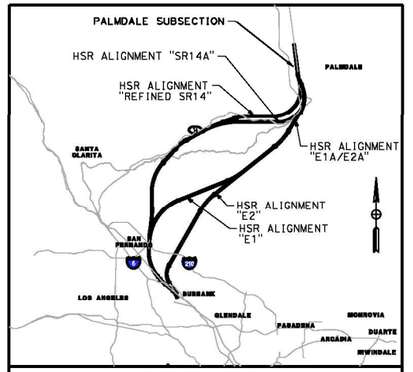
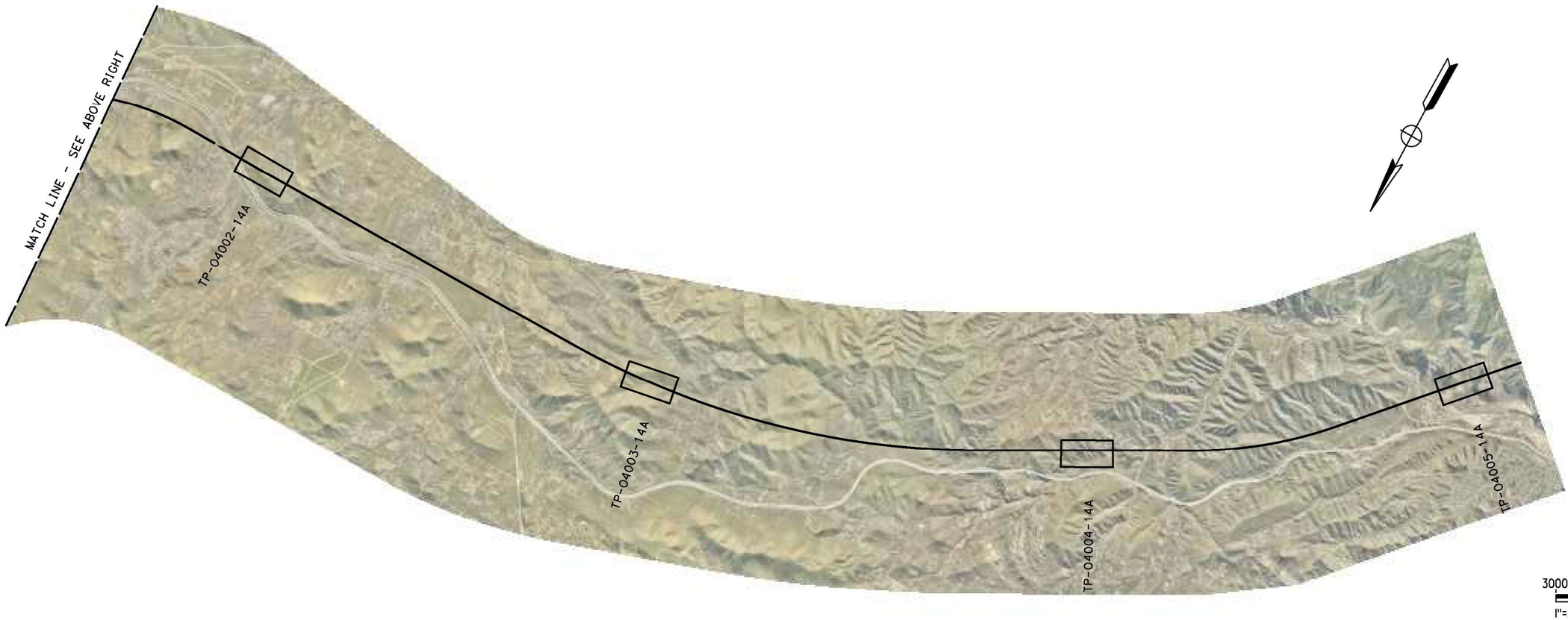




VICINITY MAP



3000 0 3000 6000
1"=3000'

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY R. RODRIGUEZ
DRAWN BY F.VASQUEZ
CHECKED BY A. RELAÑO
IN CHARGE A. RELAÑO
DATE 02/26/2021

PEPD RECORD SET
ADDENDUM
SR14A/E1A/E2A

NOT FOR CONSTRUCTION

SENER

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED RAIL PROJECT
PALMDALE TO BURBANK
ALIGNMENT "SR14A"

RAILWAY SYSTEMS
KEY MAP

CONTRACT NO. HSR14-42
DRAWING NO. TP-B6001-14A
SCALE AS SHOWN
SHEET NO.

c:\pwworking\chsr\dms28532\PB-TP-B6001-SR14A.dgn
3/4/2021 12:16:00 PM
04000074

TRACTION POWER SUBSTATION 17A

200 0 200 400
1"=200'

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY R. RODRIGUEZ
DRAWN BY F.VASQUEZ
CHECKED BY A. RELANO
IN CHARGE A. RELANO
DATE 02/26/2021

PEPD RECORD SET
ADDENDUM
SR14A/E1A/E2A

NOT FOR CONSTRUCTION

SENER

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED RAIL PROJECT
PALMDALE TO BURBANK
ALIGNMENT "SR14A"
TRACTION POWER FACILITIES
TRACTION POWER SUBSTATION 17A
VINCENT SUBSTATION 1 OF 2

CONTRACT NO. HSR14-42
DRAWING NO. TP-F4001-14A
SCALE AS SHOWN
SHEET NO.

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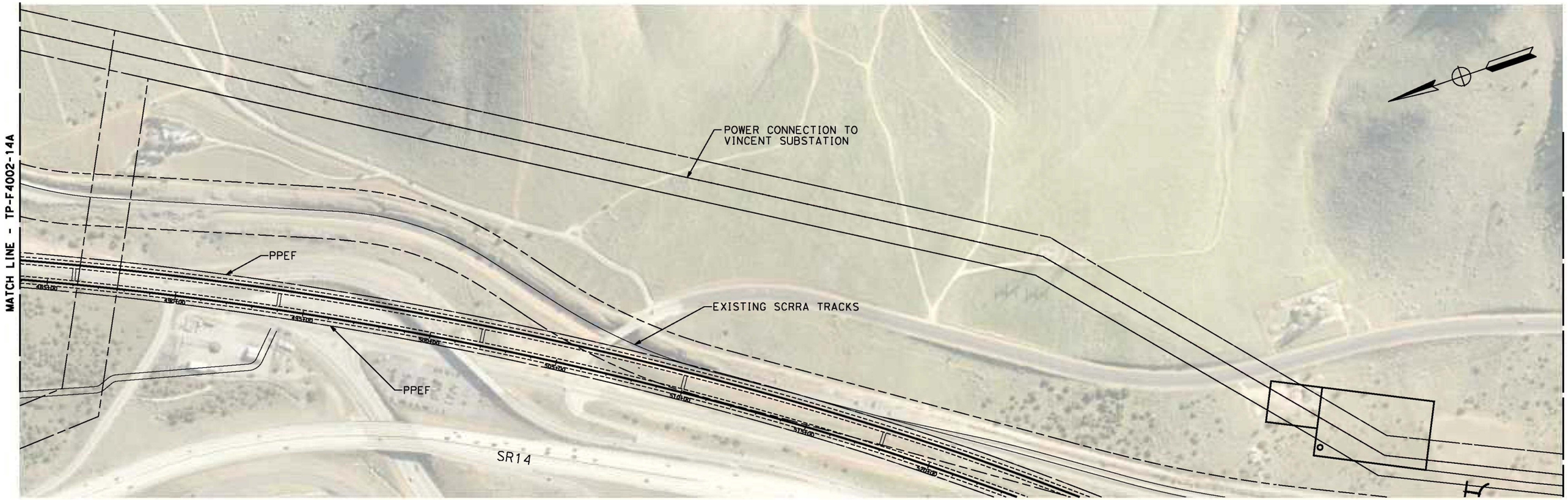
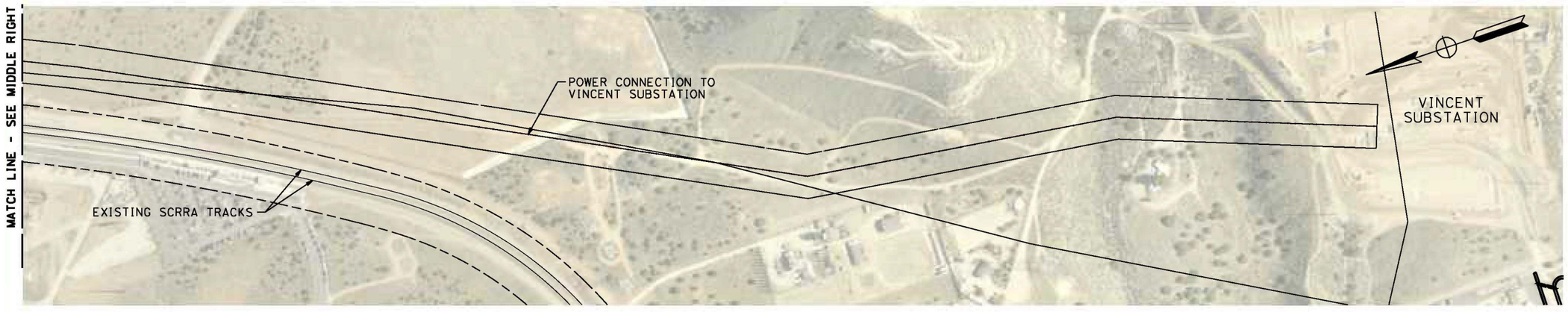




400 0 400 800
1"=400'

TRACTION POWER SUBSTATION 17A

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY R. RODRIGUEZ
DRAWN BY F.VASQUEZ
CHECKED BY A. RELAÑO
IN CHARGE A. RELAÑO
DATE 02/26/2021

PEPD RECORD SET
ADDENDUM
SR14A/E1A/E2A

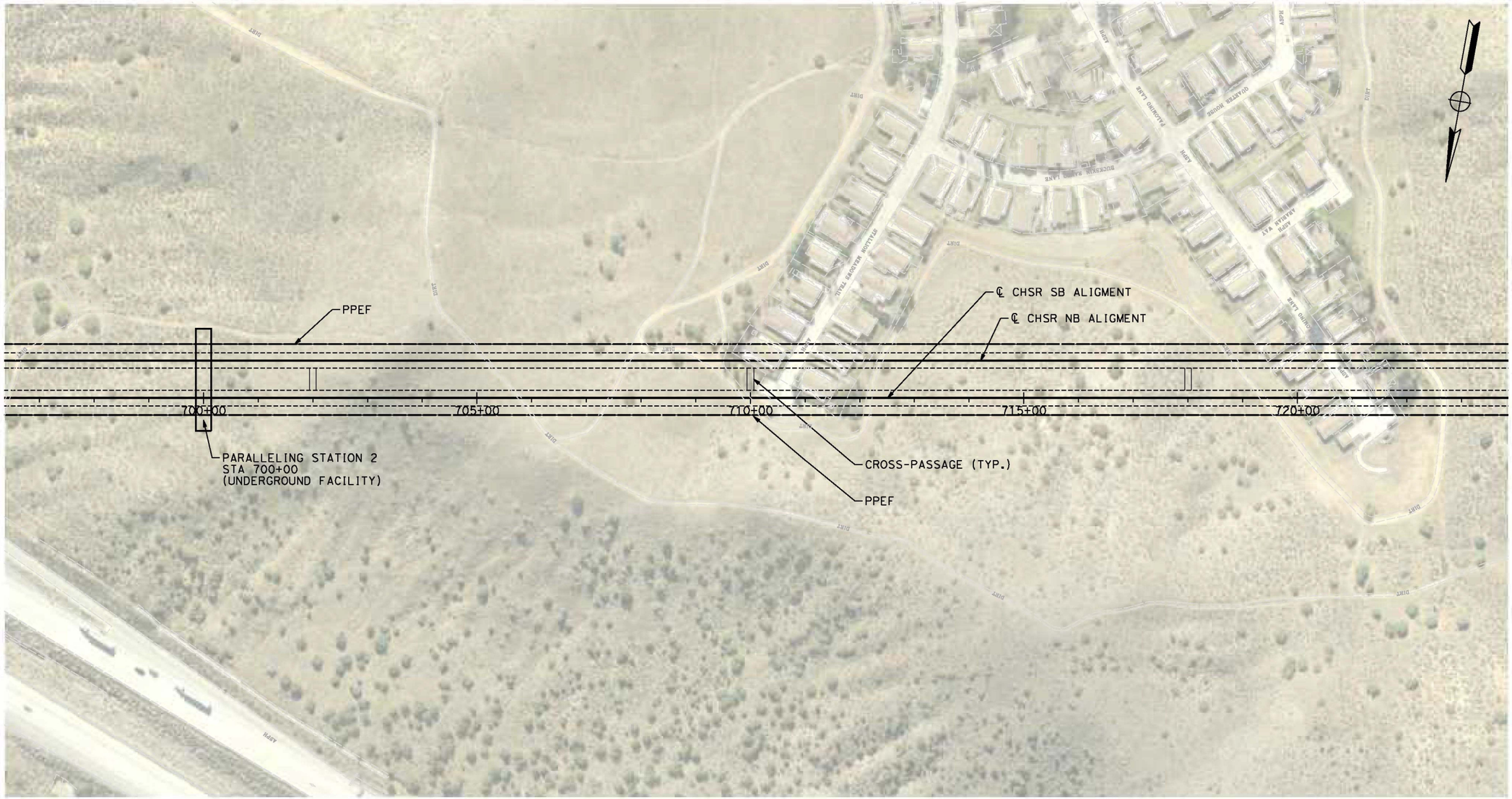
NOT FOR CONSTRUCTION

SENER

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED RAIL PROJECT
PALMDALE TO BURBANK
ALIGNMENT "SR14A"
TRACTION POWER FACILITIES
TRACTION POWER SUBSTATION 17A
VINCENT SUBSTATION 2 OF 2

CONTRACT NO. HSR14-42
DRAWING NO. TP-F4002-14A
SCALE AS SHOWN
SHEET NO.



PLAN

100 0 100 200
1"=100'

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY R. RODRIGUEZ
DRAWN BY F.VASQUEZ
CHECKED BY A. RELAÑO
IN CHARGE A. RELAÑO
DATE 02/26/2021

PEPD RECORD SET
ADDENDUM
SR14A/E1A/E2A

NOT FOR CONSTRUCTION

SENER

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED RAIL PROJECT
PALMDALE TO BURBANK
ALIGNMENT "SR14A"
TRACTION POWER FACILITIES
PARALLELING STATION 2

CONTRACT NO. HSR14-42
DRAWING NO. TP-04002-14A
SCALE AS SHOWN
SHEET NO.

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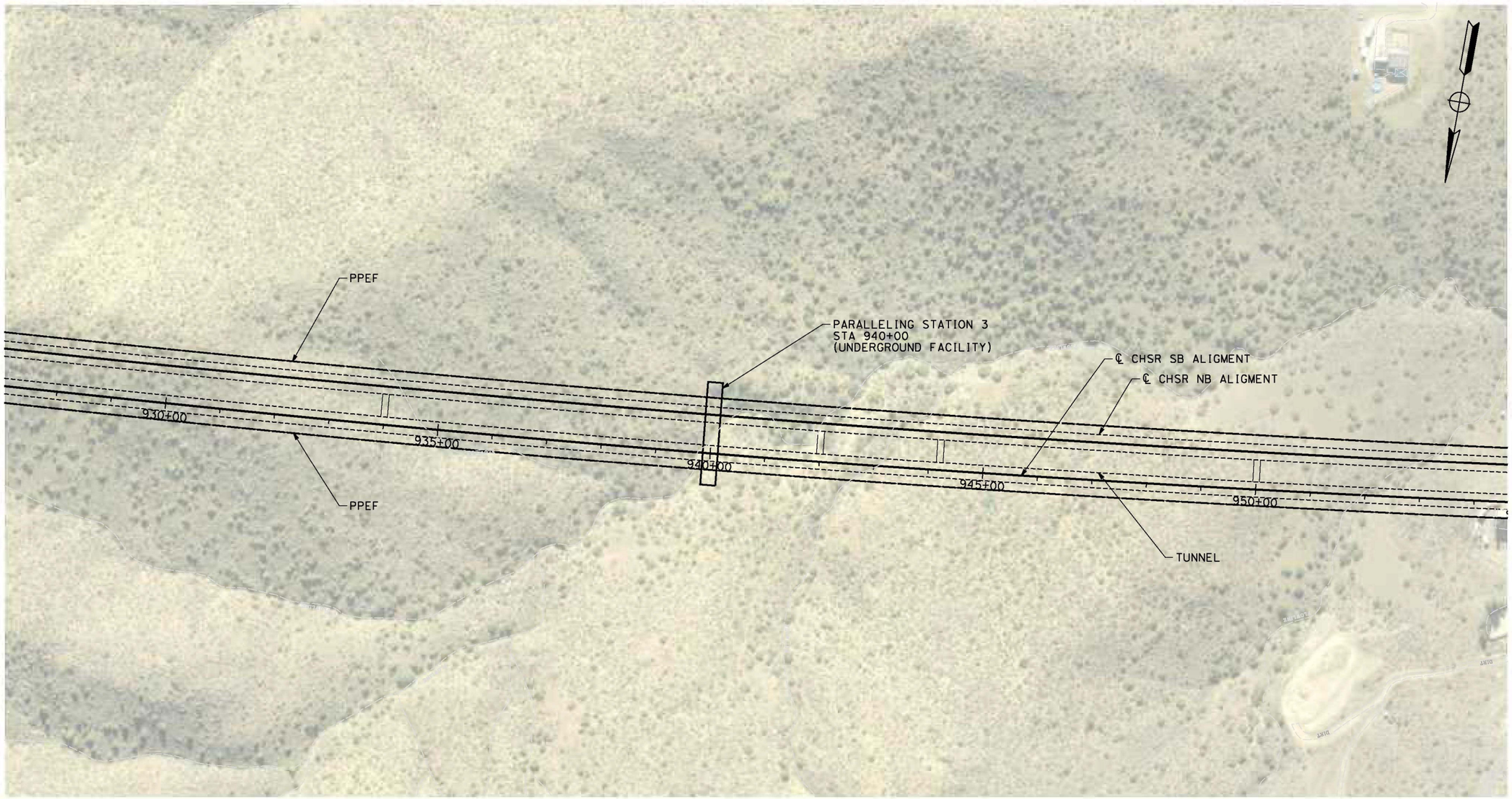

PLAN

100 0 100 200
1"=100'

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY R. RODRIGUEZ
DRAWN BY F.VASQUEZ
CHECKED BY A. RELANO
IN CHARGE A. RELANO
DATE 02/26/2021

PEPD RECORD SET
ADDENDUM
SR14A/E1A/E2A

NOT FOR CONSTRUCTION

SENER

CALIFORNIA
HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED RAIL PROJECT
PALMDALE TO BURBANK
ALIGNMENT "SR14A"
TRACTION POWER FACILITIES
PARALLELING STATION 3

CONTRACT NO. HSR14-42
DRAWING NO. TP-04003-14A
SCALE AS SHOWN
SHEET NO.

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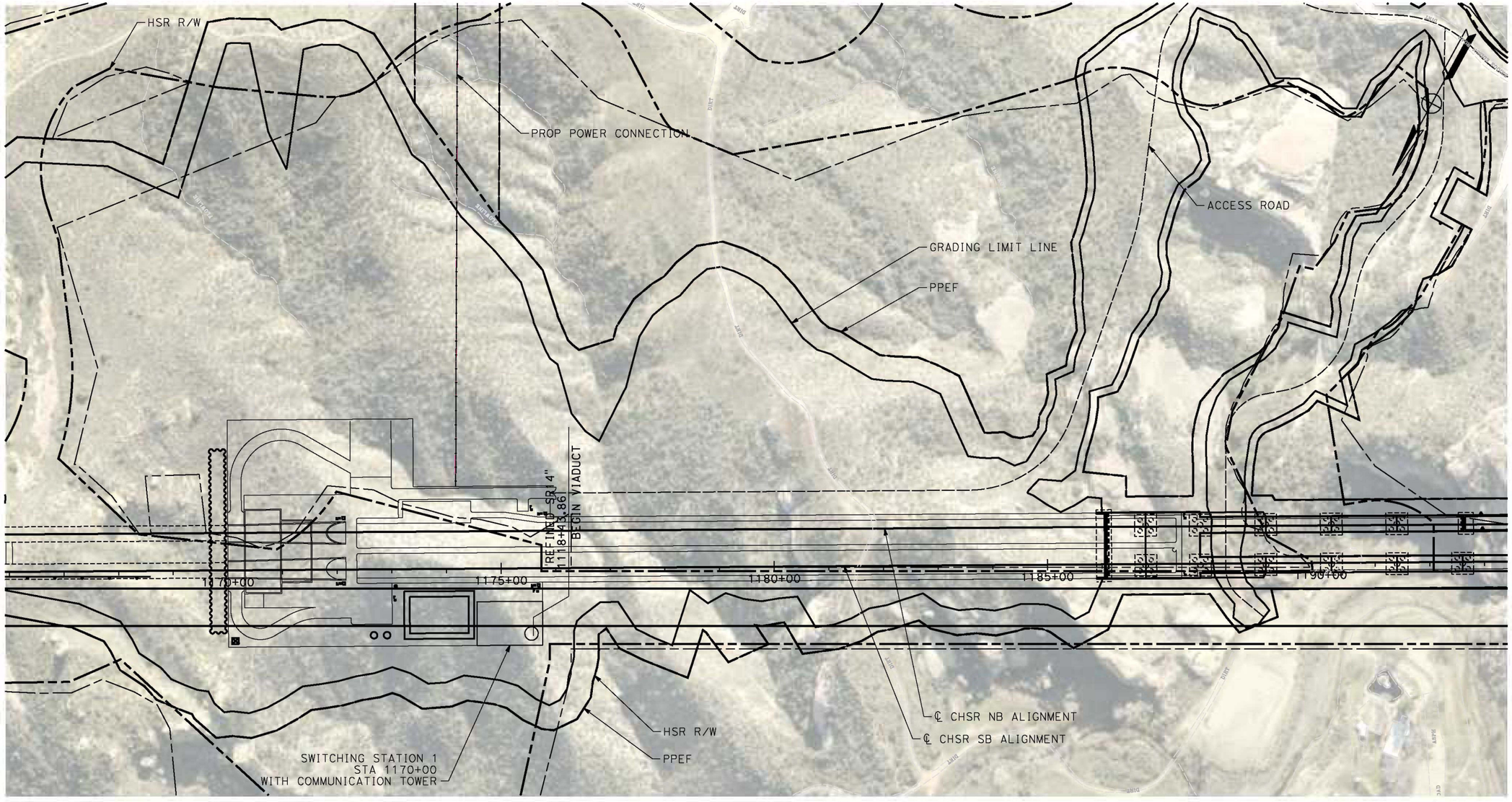

PLAN

100 0 100 200
1"=100'

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY R. RODRIGUEZ
DRAWN BY F.VASQUEZ
CHECKED BY A. RELAÑO
IN CHARGE A. RELAÑO
DATE 02/26/2021

PEPD RECORD SET
ADDENDUM SR14A/E1A/E2A

NOT FOR CONSTRUCTION

SENER

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED RAIL PROJECT
PALMDALE TO BURBANK
ALIGNMENT "SR14A"
TRACTION POWER FACILITIES
SWITCHING STATION 1

CONTRACT NO. HSR14-42
DRAWING NO. TP-04004-14A
SCALE AS SHOWN
SHEET NO.

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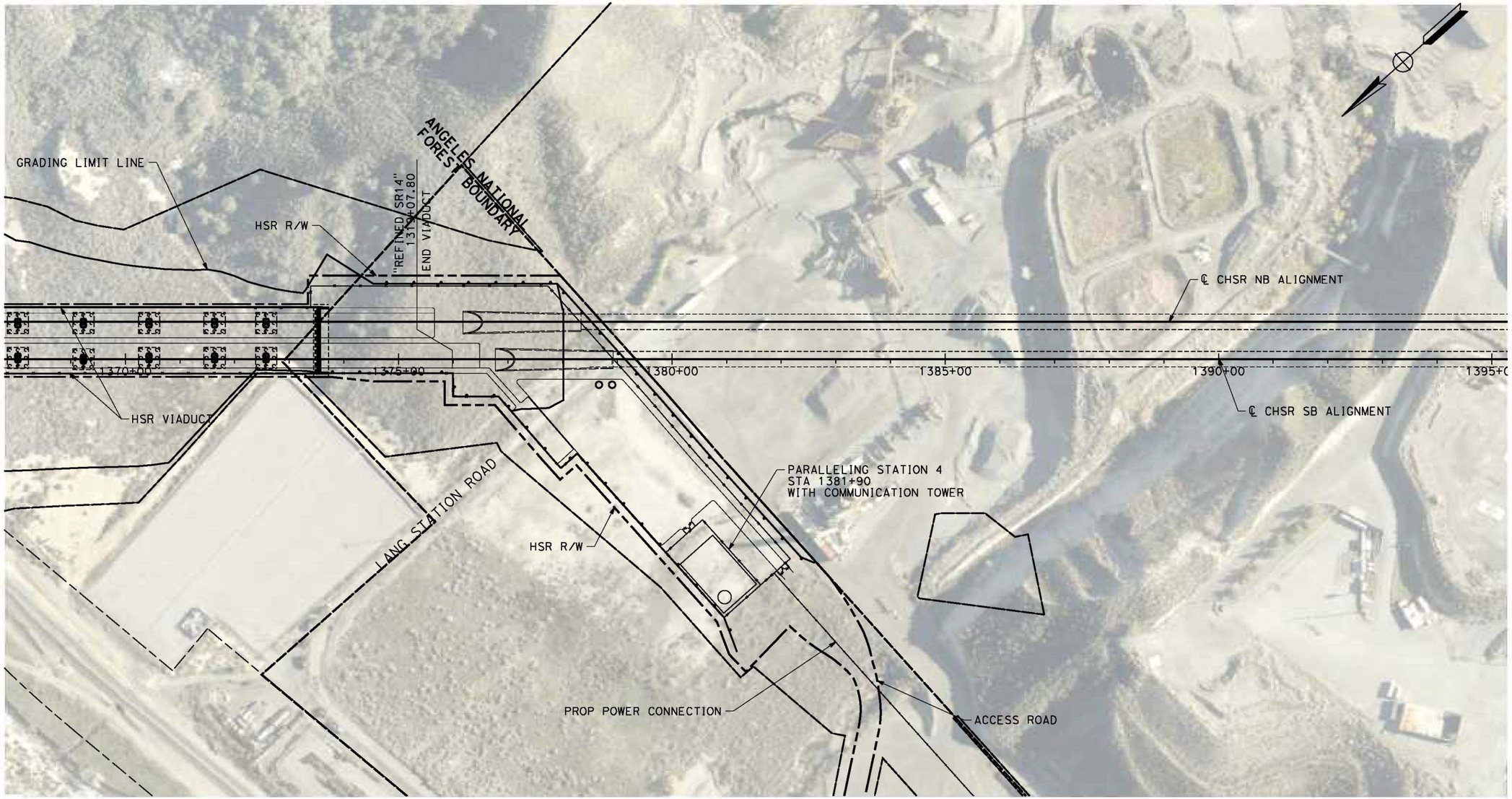

PLAN

100 0 100 200
1"=100'

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY R. RODRIGUEZ
DRAWN BY F.VASQUEZ
CHECKED BY A. RELANO
IN CHARGE A. RELAÑO
DATE 02/26/2021

PEPD RECORD SET
ADDENDUM
SR14A/E1A/E2A

NOT FOR CONSTRUCTION

SENER

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED RAIL PROJECT
PALMDALE TO BURBANK
ALIGNMENT "SR14A"
TRACTION POWER FACILITIES
PARALLELING STATION 4

CONTRACT NO. HSR14-42
DRAWING NO. TP-04005-14A
SCALE AS SHOWN
SHEET NO.

0400074

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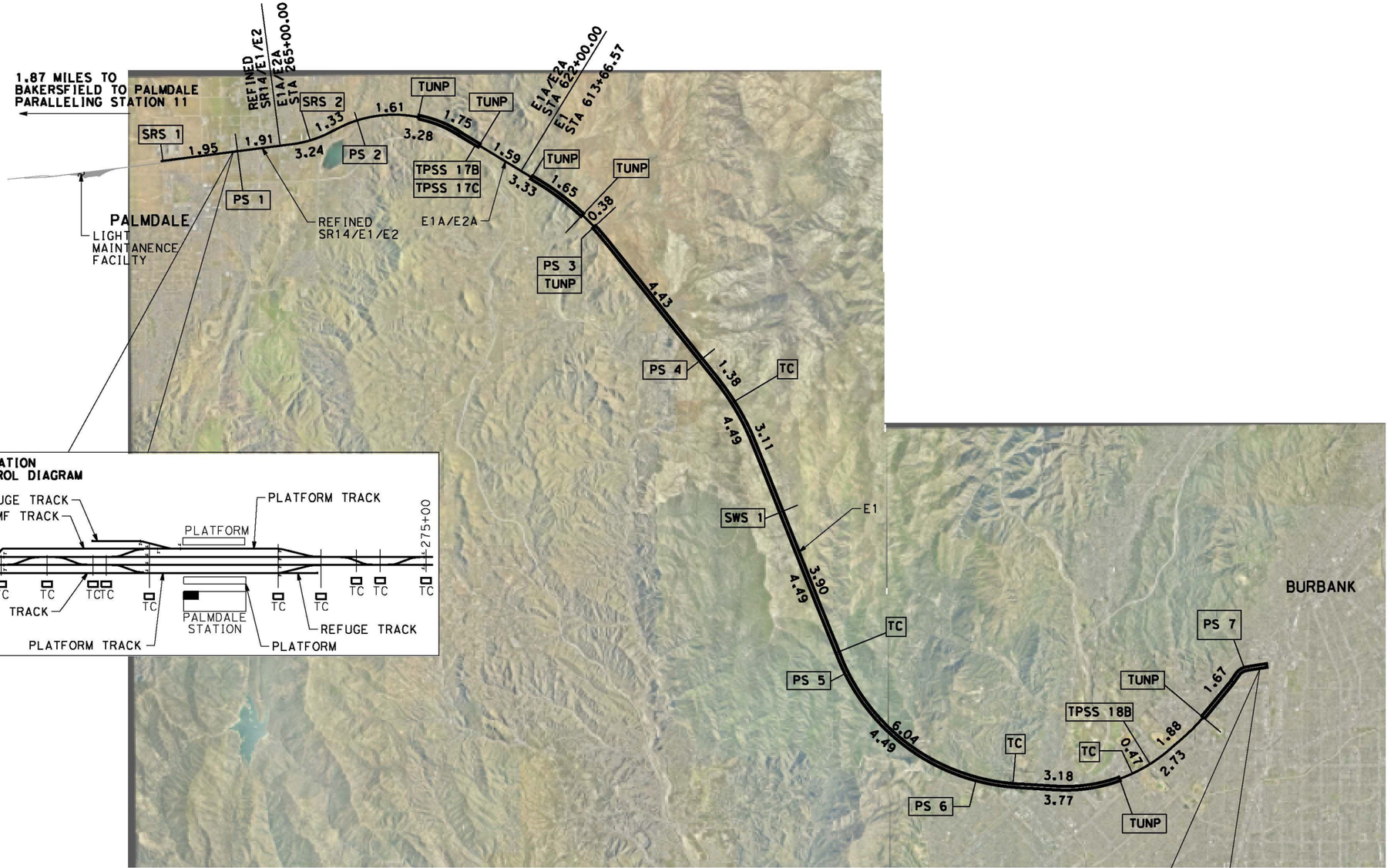
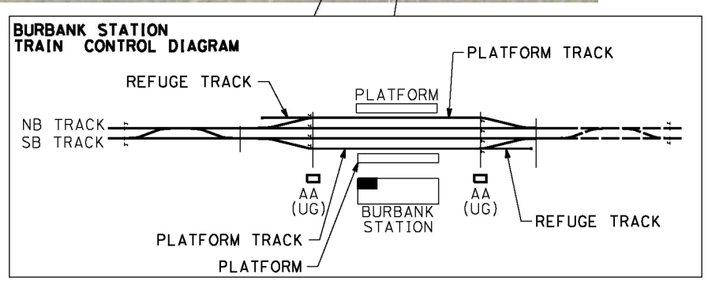




LEGEND

RAILWAY SYSTEMS FACILITY SPACING (MILES)	5.0
AT-GRADE / ELEVATED	
UNDERGROUND	

ABBREVIATIONS:

TPSS:	TRACTION POWER SUBSTATION
PS:	PARALLELING STATION
SWS:	SWITCHING STATION
TUNP:	TUNNEL PORTAL FACILITIES
SRS:	STANDALONE RADIO SITE
TC:	TRAIN CONTROL FACILITY
ATC:	AUTOMATIC TRAIN CONTROL

NOTES:

1. SITE STATIONING GIVEN IS APPROXIMATE AND WILL BE FINALIZED IN FUTURE DESIGN PHASE.

2. IN UNDERGROUND SECTIONS, RF COMMUNICATION WILL BE USING DIRECTIONAL ANTENNAS OR RADIANT CABLES.

3. TRACTION POWER FACILITIES HAVE RADIO ANTENNAS.

4. ALL TUNNEL PORTALS (TUNP) REQUIRE SPACE FOR RADIO MASTS AS WELL AS ANTENNAS, PLUS AN ASSOCIATED CABIN TO HOUSE RADIO EQUIPMENT. ATC EQUIPMENT CABINS WILL BE LOCATED AT THESE LOCATIONS TOO.

5.RADIO EQUIPMENT WITHIN TUNNELS WILL BE INSTALLED IN CROSS PASSAGES EQUIPMENT ROOMS AND AT PARALLELING STATIONS.

8000 0 8000 16000
1"=8000'

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY R. RODRIGUEZ
DRAWN BY F.VASQUEZ
CHECKED BY A. RELAÑO
IN CHARGE A. RELAÑO
DATE 02/26/2021

PEPD RECORD SET
ADDENDUM SR14A/E1A/E2A

NOT FOR CONSTRUCTION

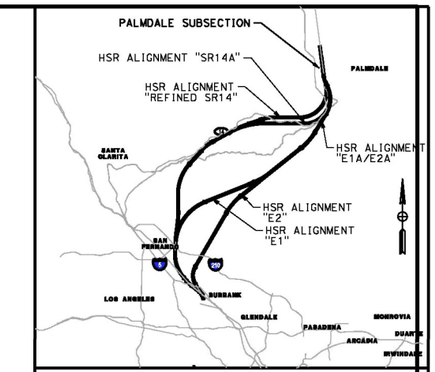
SENER

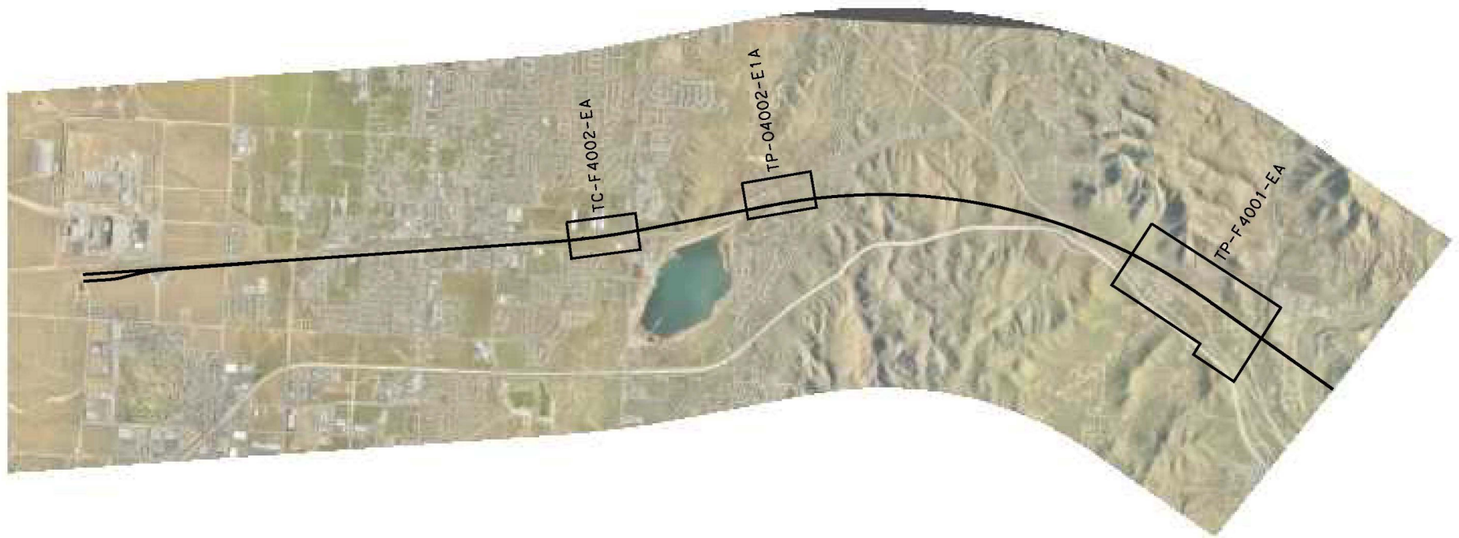
CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED RAIL PROJECT
PALMDALE TO BURBANK
ALIGNMENT "E1A"

TRACTION POWER FACILITIES
LOCATION LAYOUT

CONTRACT NO. HSR14-42
DRAWING NO. TP-D0001-E1A
SCALE AS SHOWN
SHEET NO.





3000 0 3000 6000
1"=3000'

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY R. RODRIGUEZ
DRAWN BY F.VASQUEZ
CHECKED BY A. RELAÑO
IN CHARGE A. RELAÑO
DATE 02/26/2021

PEPD RECORD SET
ADDENDUM
SR14A/E1A/E2A

NOT FOR CONSTRUCTION

SENER

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

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

RAILWAY SYSTEMS
KEY MAP

CONTRACT NO. HSR14-42
DRAWING NO. TP-B6001-EA
SCALE AS SHOWN
SHEET NO.

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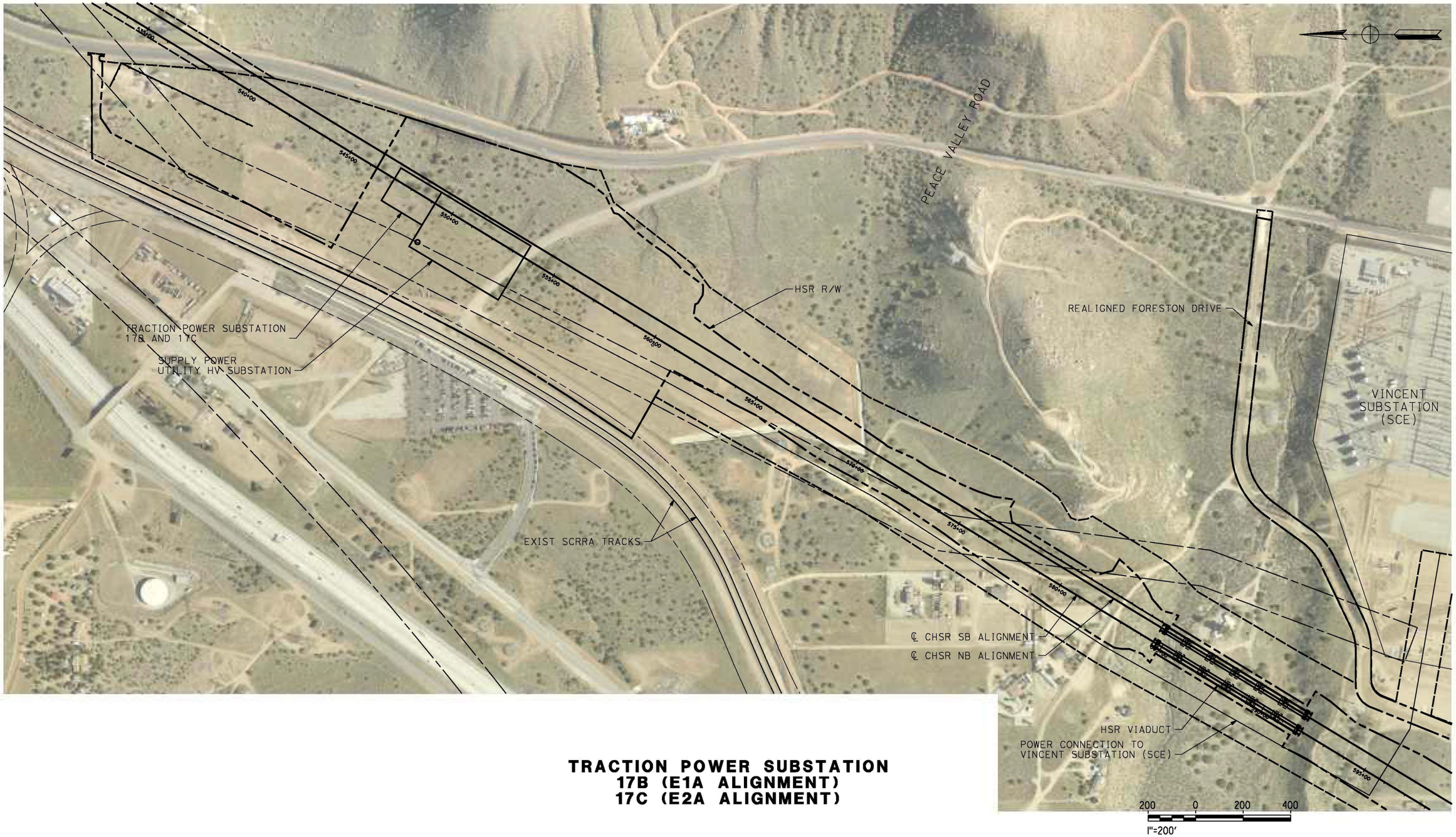

TRACTION POWER SUBSTATION
17B (E1A ALIGNMENT)
17C (E2A ALIGNMENT)

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY R. RODRIGUEZ
DRAWN BY F.VASQUEZ
CHECKED BY A. RELANO
IN CHARGE A. RELAÑO
DATE 02/26/2021

PEPD RECORD SET
ADDENDUM
SR14A/E1A/E2A

NOT FOR CONSTRUCTION

SENER

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED RAIL PROJECT
PALMDALE TO BURBANK
ALIGNMENT "E1A/E2A"
TRACTION POWER FACILITIES
TRACTION POWER SUBSTATION 17B/17C
VINCENT SUBSTATION

CONTRACT NO. HSR14-42
DRAWING NO. TP-F4001-EA
SCALE AS SHOWN
SHEET NO.

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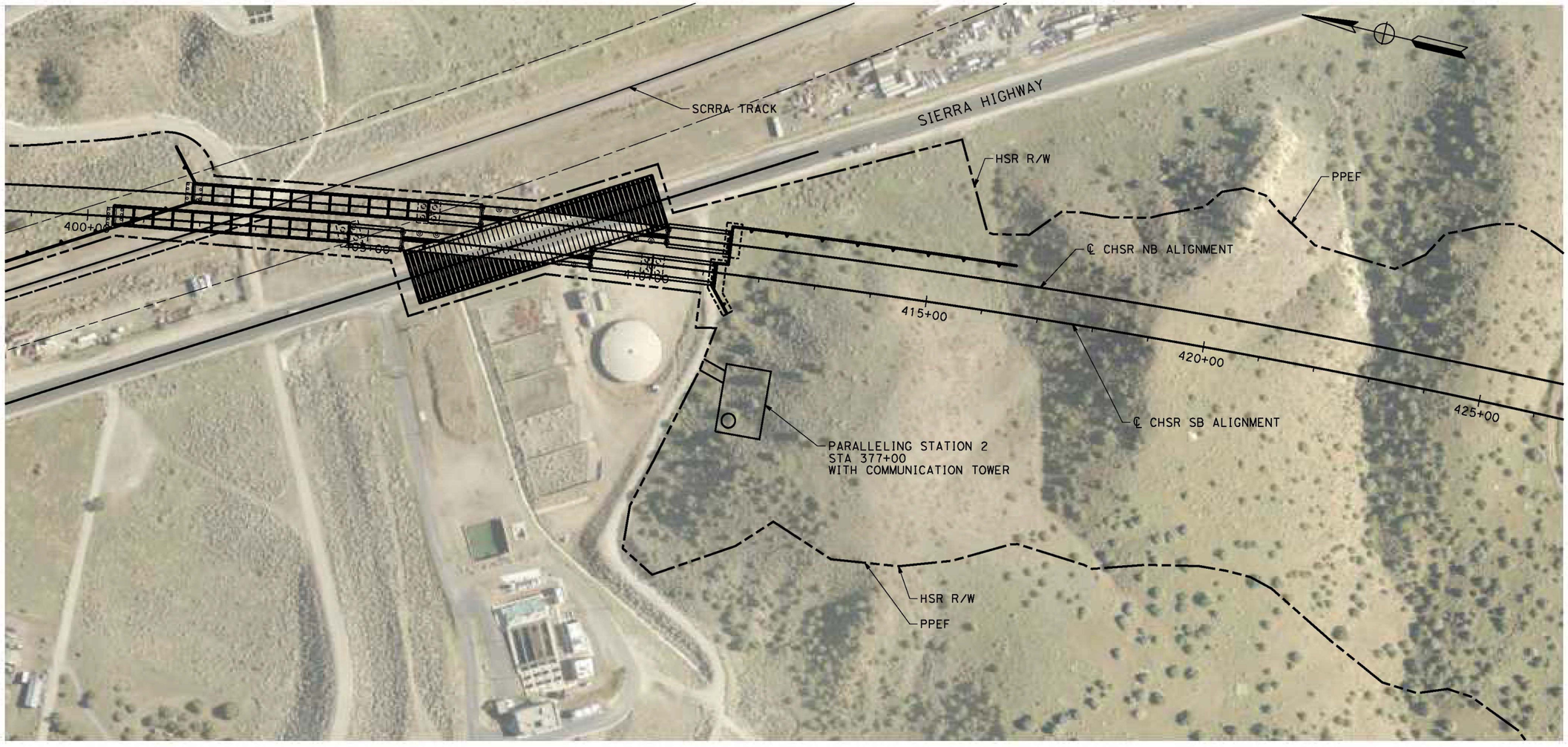


PLAN

100 0 100 200
1"=100'

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY R. RODRIGUEZ
DRAWN BY F.VASQUEZ
CHECKED BY A. RELAÑO
IN CHARGE A. RELAÑO
DATE 02/26/2021

PEPD RECORD SET
ADDENDUM SR14A/E1A/E2A

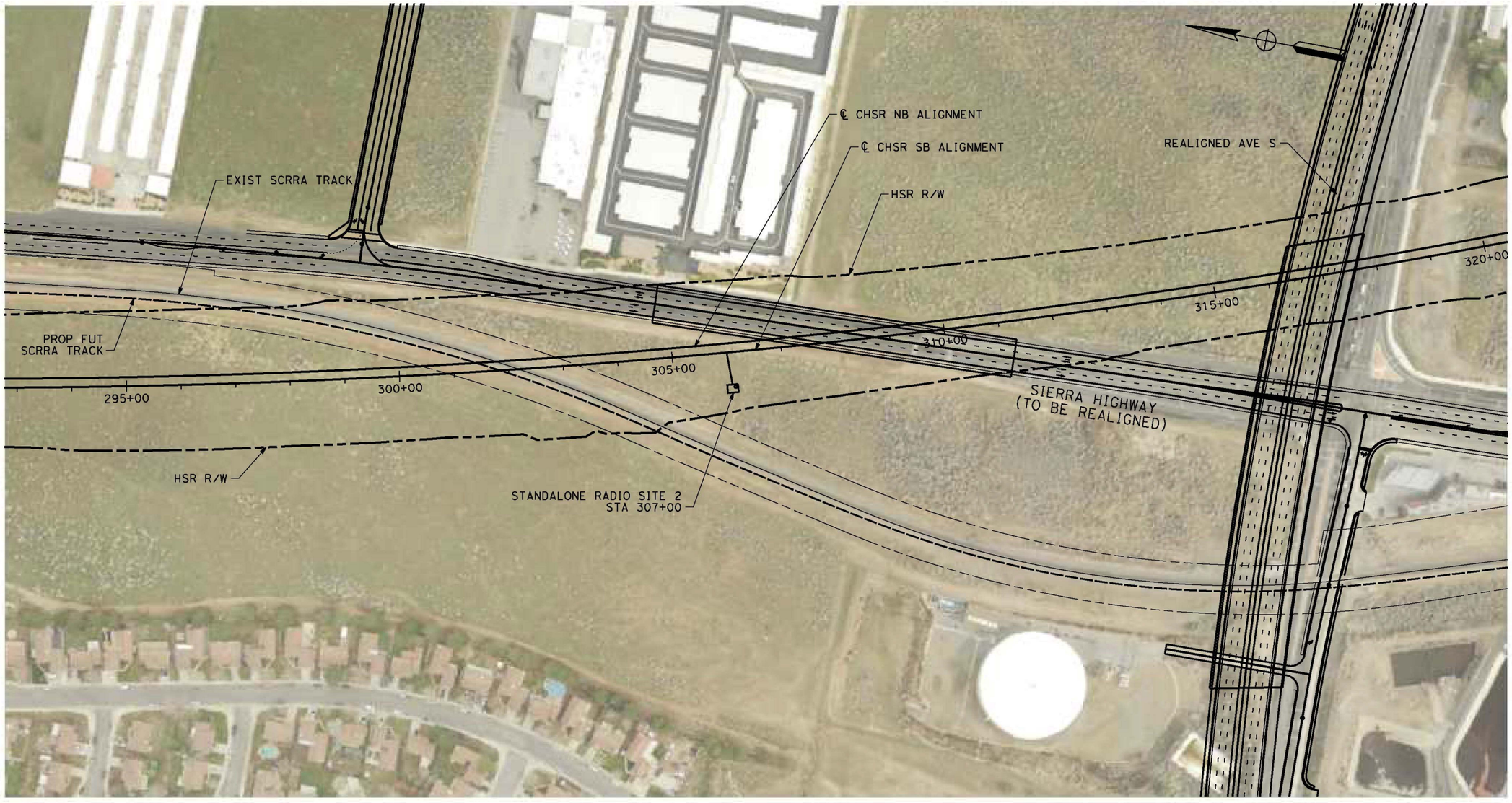
NOT FOR CONSTRUCTION

SENER

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED RAIL PROJECT
PALMDALE TO BURBANK
ALIGNMENT "E1A"
TRACTION POWER FACILITIES
PARALLELING STATION 2

CONTRACT NO. HSR14-42
DRAWING NO. TP-04002-E1A
SCALE AS SHOWN
SHEET NO.



PLAN

100 0 100 200
1"=100'

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY R.RODRIGUEZ
DRAWN BY F.VASQUEZ
CHECKED BY A.RELAÑO
IN CHARGE A.RELAÑO
DATE 02/26/2021

PEPD RECORD SET
ADDENDUM
SR14A/E1A/E2A

NOT FOR CONSTRUCTION

SENER

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED RAIL PROJECT
PALMDALE TO BURBANK
ALIGNMENT "E1A/E2A"
TRAIN CONTROL SYSTEM
STANDALONE RADIO SITE 2

CONTRACT NO. HSR14-42
DRAWING NO. TC-F4002-EA
SCALE AS SHOWN
SHEET NO.

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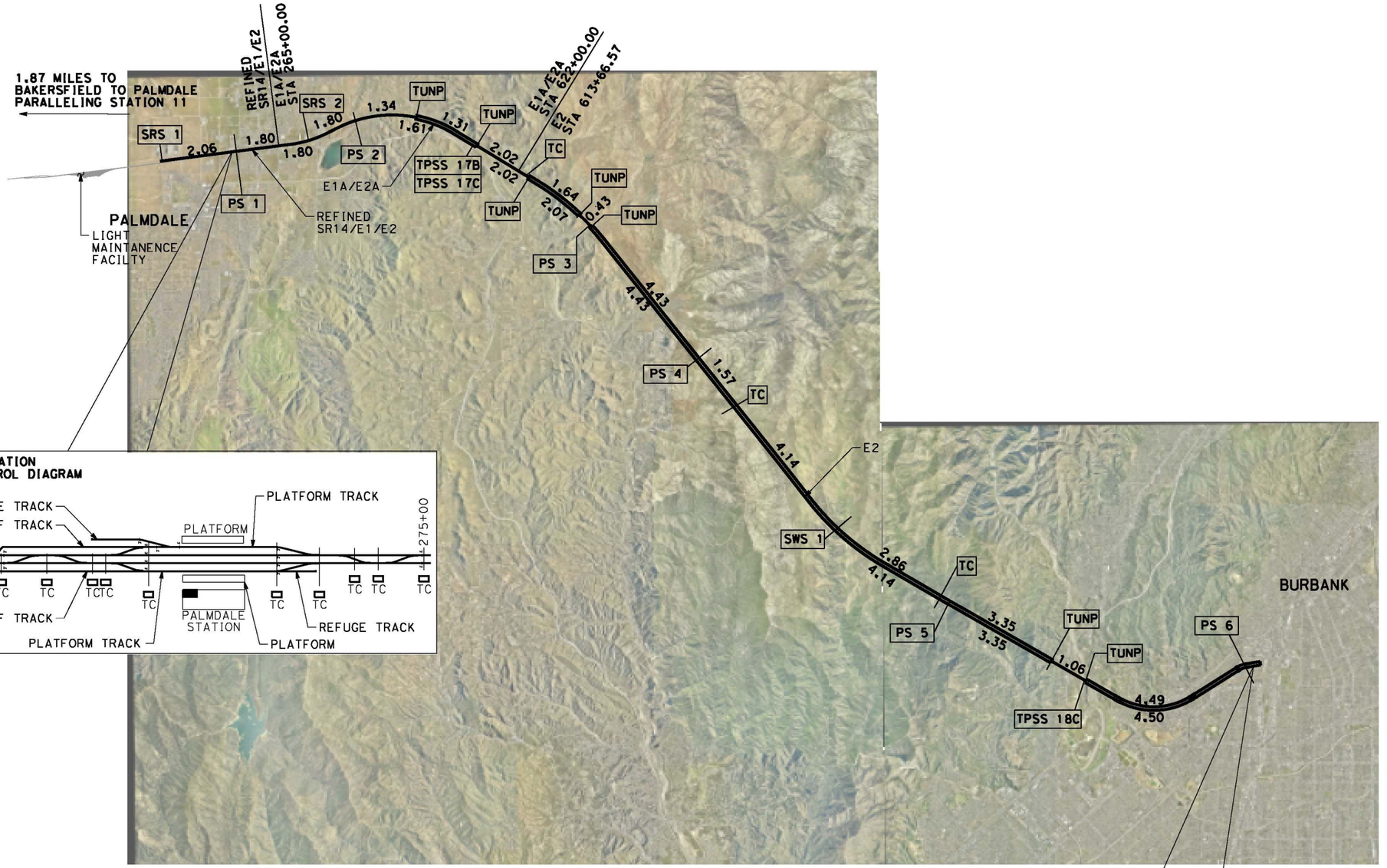

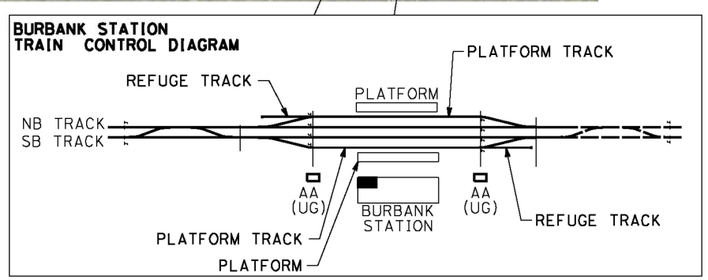

LEGEND

RAILWAY SYSTEMS FACILITY SPACING (MILES)	5.0
AT-GRADE / ELEVATED	
UNDERGROUND	

ABBREVIATIONS:

TPSS:	TRACTION POWER SUBSTATION
PS:	PARALLELING STATION
SWS:	SWITCHING STATION
TUNP:	TUNNEL PORTAL FACILITIES
SRS:	STANDALONE RADIO SITE
TC:	TRAIN CONTROL FACILITY
ATC:	AUTOMATIC TRAIN CONTROL

NOTES:

1. SITE STATIONING GIVEN IS APPROXIMATE AND WILL BE FINALIZED IN FUTURE DESIGN PHASE.

2. IN UNDERGROUND SECTIONS, RF COMMUNICATION WILL BE USING DIRECTIONAL ANTENNAS OR RADIANT CABLES.

3. TRACTION POWER FACILITIES HAVE RADIO ANTENNAS.

4. ALL TUNNEL PORTALS (TUNP) REQUIRE SPACE FOR RADIO MASTS AS WELL AS ANTENNAS, PLUS AN ASSOCIATED CABIN TO HOUSE RADIO EQUIPMENT. ATC EQUIPMENT CABINS WILL BE LOCATED AT THESE LOCATIONS TOO.

5.RADIO EQUIPMENT WITHIN TUNNELS WILL BE INSTALLED IN CROSS PASSAGES EQUIPMENT ROOMS AND AT PARALLELING STATIONS.

8000 0 8000 16000
1"=8000'

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY R. RODRIGUEZ
DRAWN BY F.VASQUEZ
CHECKED BY A. RELANO
IN CHARGE A. RELANO
DATE 02/26/2021

PEPD RECORD SET
ADDENDUM SR14A/E1A/E2A

NOT FOR CONSTRUCTION

SENER

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED RAIL PROJECT
PALMDALE TO BURBANK
ALIGNMENT "E2A"

TRACTION POWER FACILITIES
LOCATION LAYOUT

CONTRACT NO. HSR14-42
DRAWING NO. TP-D0001-E2A
SCALE AS SHOWN
SHEET NO.

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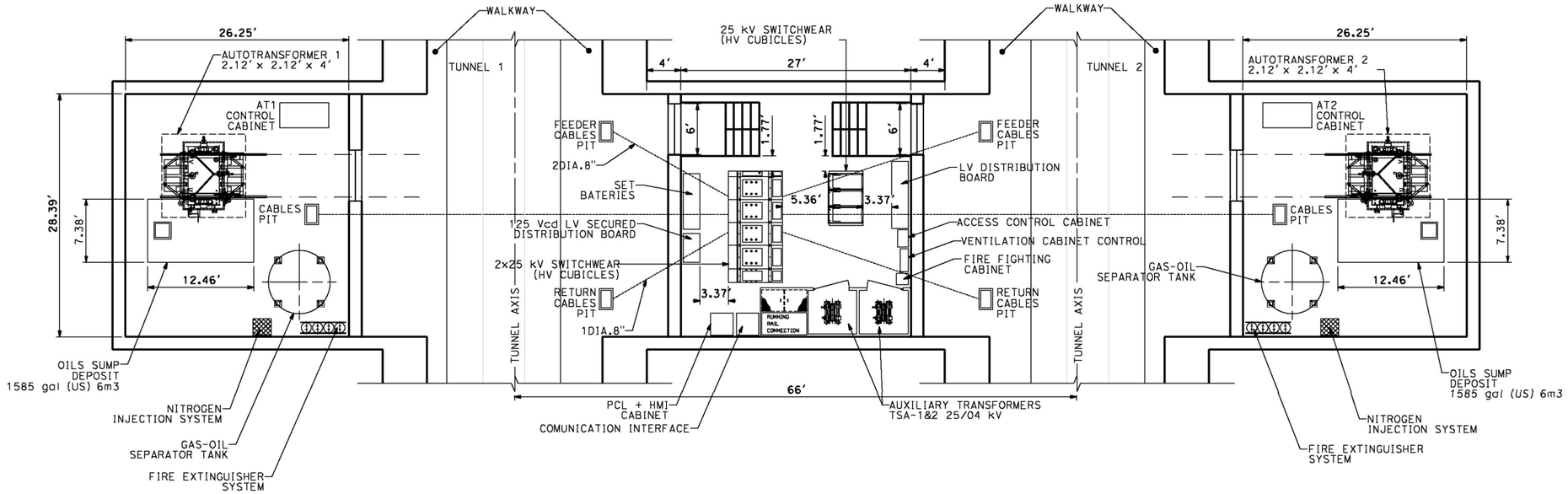


UNDERGROUND PARALLELING STATION

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY R.RODRIGUEZ
DRAWN BY F.VASQUEZ
CHECKED BY A.RELANO
IN CHARGE A.RELANO
DATE 02/26/2021

PEPD RECORD SET
ADDENDUM
SR14A/E1A/E2A

NOT FOR
CONSTRUCTION

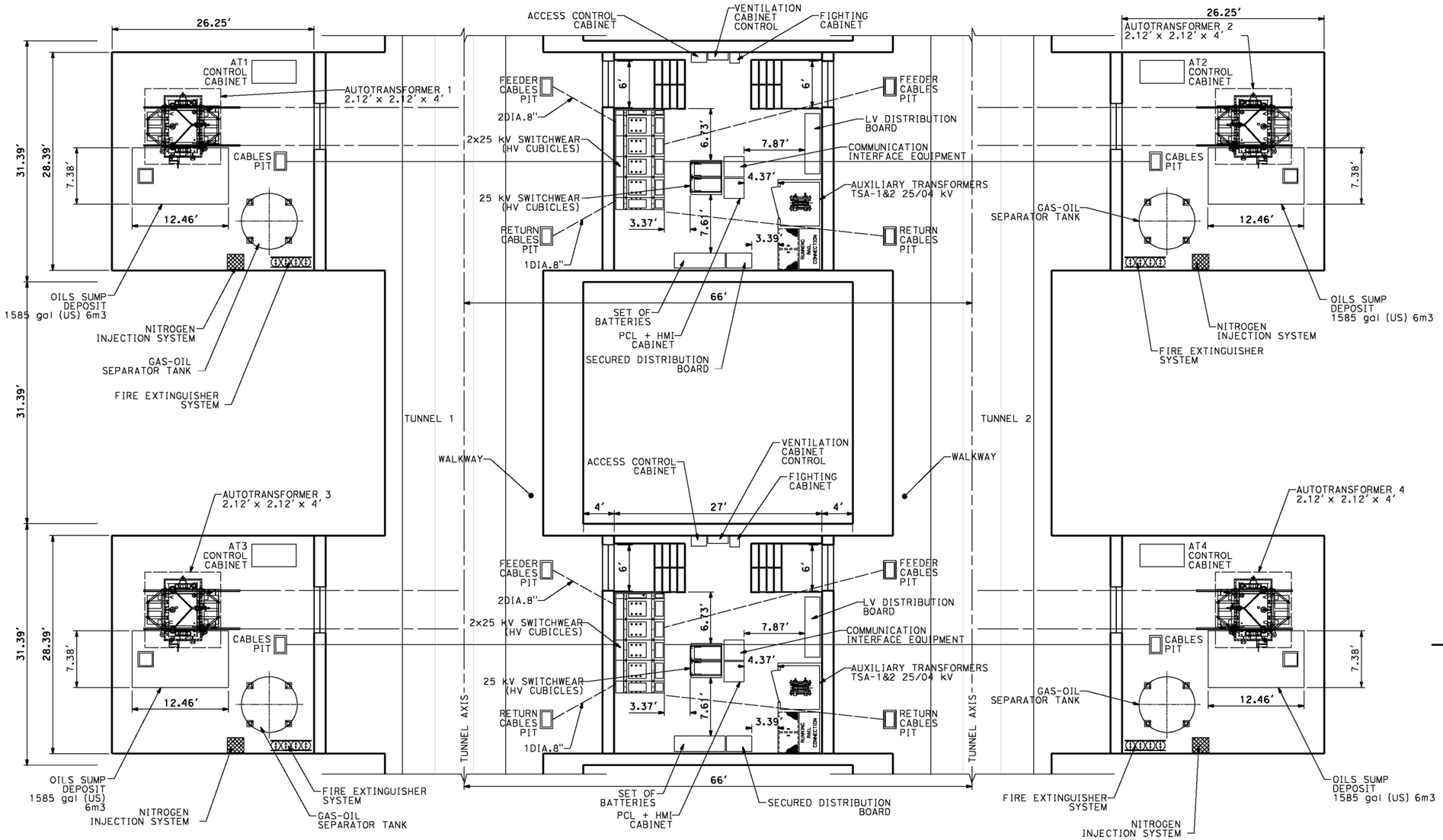
SENER

CALIFORNIA
HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED RAIL PROJECT
PALMDALE TO BURBANK
ALIGNMENT "SR14A/E1A/E2A"

UNDERGROUND TRACTION POWER FACILITIES
DETAIL 1

CONTRACT NO. HSR14-42
DRAWING NO. TP-D5001
SCALE NOT TO SCALE
SHEET NO.



UNDERGROUND SWITCHING STATION

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY R.RODRIGUEZ
DRAWN BY F.VASQUEZ
CHECKED BY A.RELAÑO
IN CHARGE A.RELAÑO
DATE 02/26/2021

PEPD RECORD SET
ADDENDUM SR14A/E1A/E2A

NOT FOR CONSTRUCTION

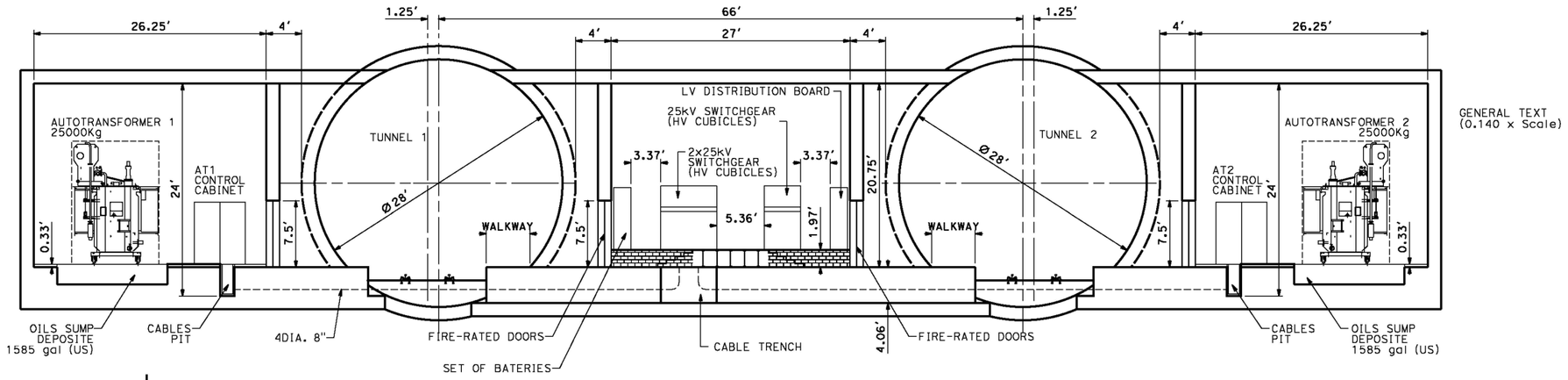
SENER

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED RAIL PROJECT
PALMDALE TO BURBANK
ALIGNMENT "SR14A/E1A/E2A"

UNDERGROUND TRACTION POWER FACILITIES
DETAIL 2

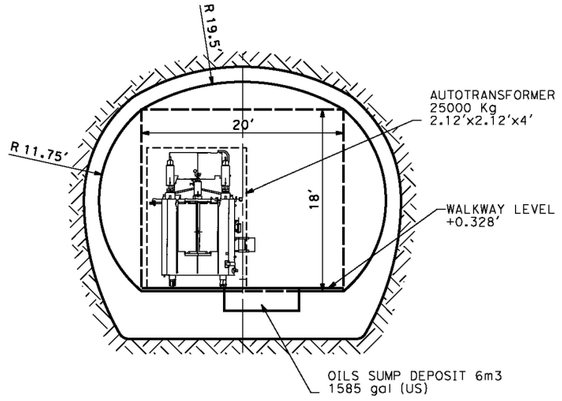
CONTRACT NO. HSR14-42
DRAWING NO. TP-D5002
SCALE NOT TO SCALE
SHEET NO.



GENERAL TEXT
(0.140 x Scale)

B

SECTION A



SECTION B

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY: R.RODRIGUEZ
DRAWN BY: F.VASQUEZ
CHECKED BY: A.RELANO
IN CHARGE: A.RELANO
DATE: 02/26/2021

PEPD RECORD SET
ADDENDUM
SR14A/E1A/E2A

NOT FOR
CONSTRUCTION

SENER

CALIFORNIA
HIGH-SPEED RAIL AUTHORITY

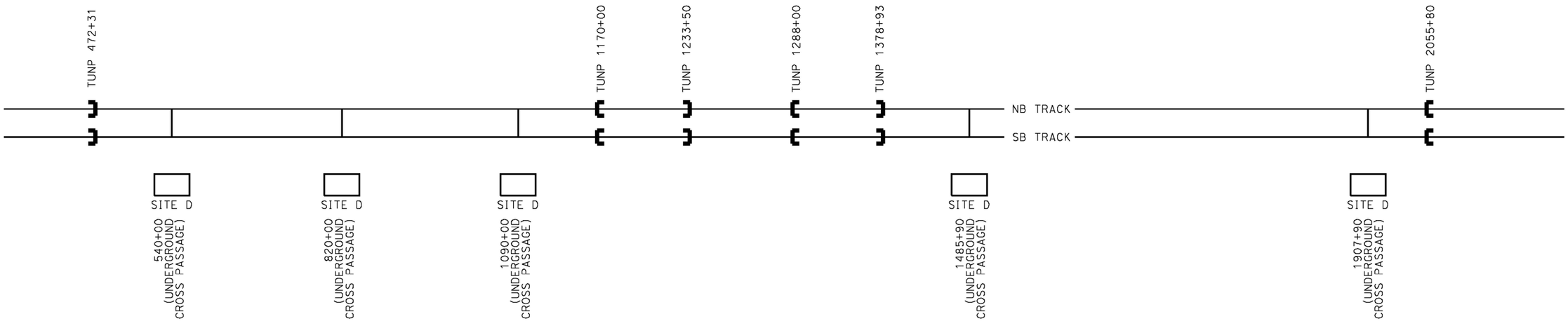
CALIFORNIA HIGH-SPEED RAIL PROJECT
PALMDALE TO BURBANK
ALIGNMENT "SR14A/E1A/E2A"

UNDERGROUND TRACTION POWER FACILITIES
DETAIL 3

CONTRACT NO. HSR14-42
DRAWING NO. TP-D5003
SCALE NOT TO SCALE
SHEET NO.

TO PALMDALE STATION

TO BURBANK STATION



SR14A ALIGNMENT

c:\pwworking\chsr\dms28892\PB-TC-E6002.dgn
1/26/2021 10:26:50 AM
0400074

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY R.RODRIGUEZ
DRAWN BY F.VASQUEZ
CHECKED BY A.RELANO
IN CHARGE A.RELANO
DATE 02/26/2021

PEPD RECORD SET
ADDENDUM
SR14A/E1A/E2A

NOT FOR CONSTRUCTION

SENER

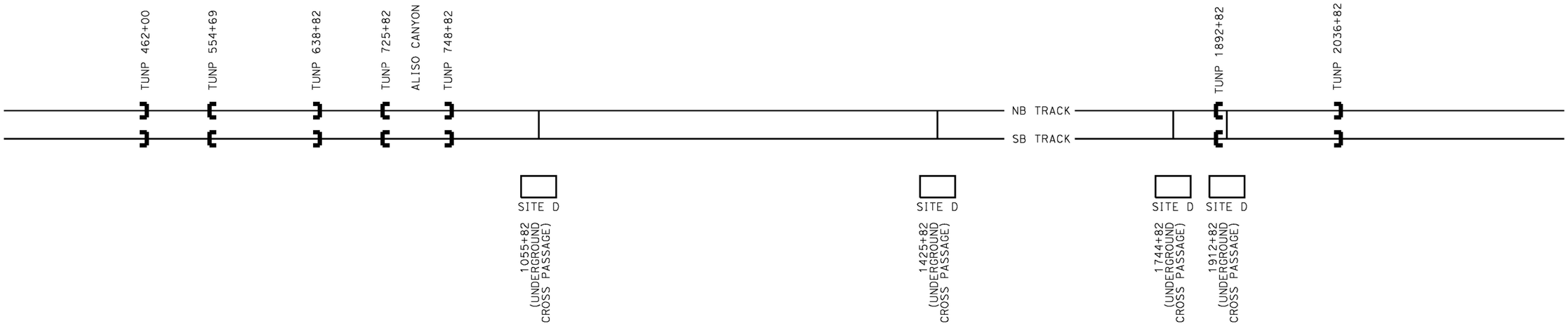
CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED RAIL PROJECT
PALMDALE TO BURBANK
ALIGNMENT "SR14A"
TRAIN CONTROL SYSTEM
INTERLOCKING SITES
"SITE D" LOCATIONS

CONTRACT NO. HSR14-42
DRAWING NO. TC-E6002
SCALE NOT TO SCALE
SHEET NO.

TO PALMDALE STATION

TO BURBANK STATION



E1A ALIGNMENT

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY R.RODRIGUEZ
DRAWN BY F.VASQUEZ
CHECKED BY A.RELANO
IN CHARGE A.RELANO
DATE 02/26/2021

PEPD RECORD SET
ADDENDUM
SR14A/E1A/E2A

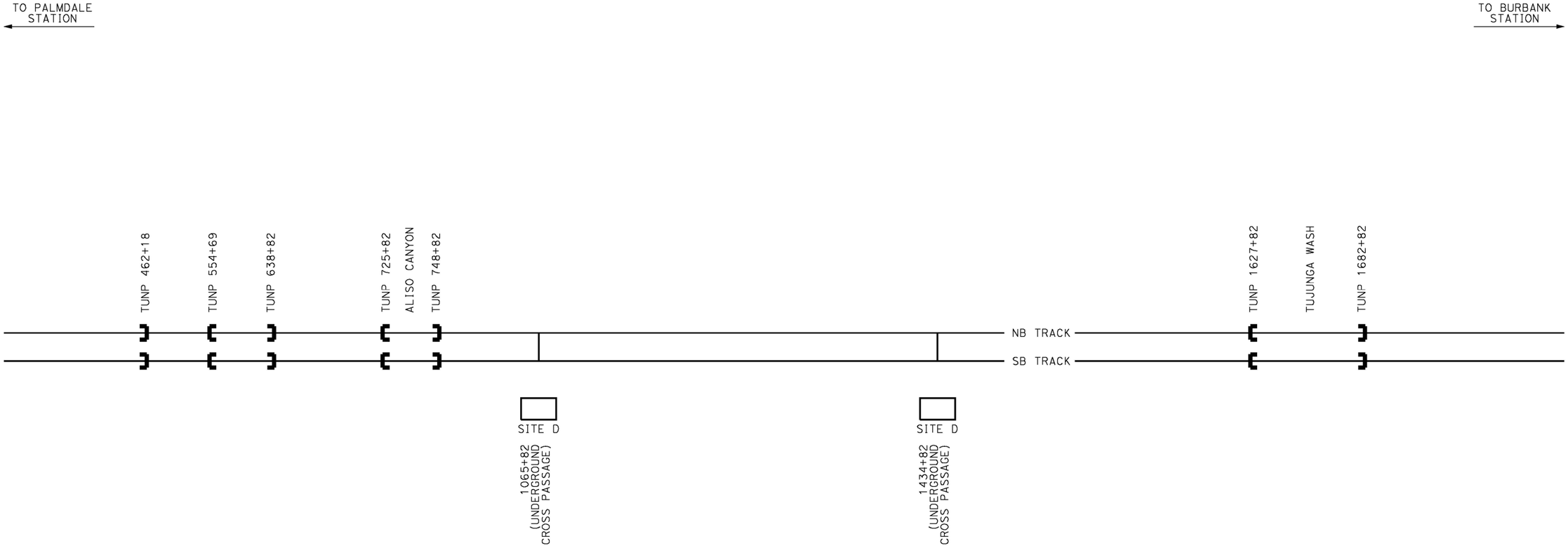
NOT FOR CONSTRUCTION

SENER

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED RAIL PROJECT
PALMDALE TO BURBANK
ALIGNMENT "E1A"
TRAIN CONTROL SYSTEM
INTERLOCKING SITES
"SITE D" LOCATIONS

CONTRACT NO. HSR14-42
DRAWING NO. TC-E6003
SCALE NOT TO SCALE
SHEET NO.



E2A ALIGNMENT

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY R.RODRIGUEZ
DRAWN BY F.VASQUEZ
CHECKED BY A.RELANO
IN CHARGE A.RELANO
DATE 02/26/2021

PEPD RECORD SET
ADDENDUM 8R14A/E1A/E2A

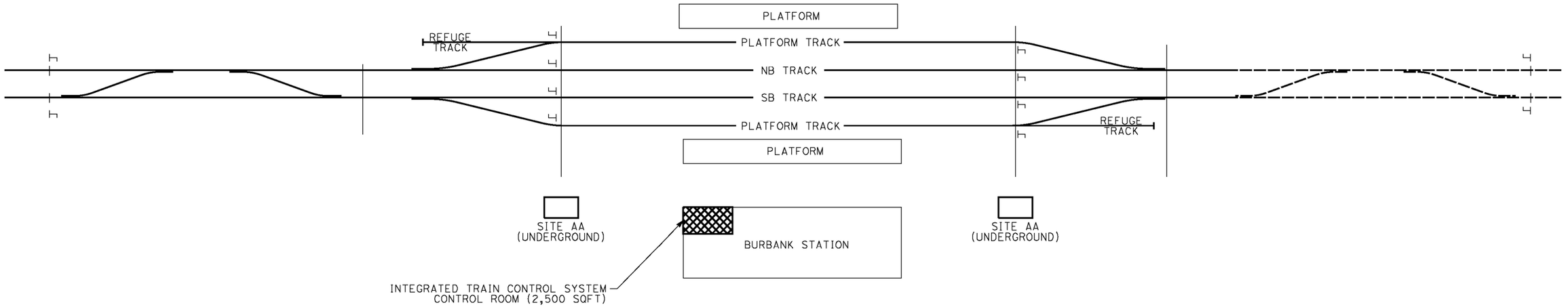
NOT FOR CONSTRUCTION

SENER

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED RAIL PROJECT
PALMDALE TO BURBANK
ALIGNMENT "E2A"
TRAIN CONTROL SYSTEM
INTERLOCKING SITES
"SITE D" LOCATIONS

CONTRACT NO. HSR14-42
DRAWING NO. TC-E6004
SCALE NOT TO SCALE
SHEET NO.



BURBANK STATION

NOTE:

1. THIS SCHEMATIC DIAGRAM IS APPLICABLE TO ALL ALTERNATIVES.

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY R.RODRIGUEZ
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CHECKED BY A.RELANO
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DATE 02/26/2021

PEPD RECORD SET
ADDENDUM
SR14A/E1A/E2A

NOT FOR CONSTRUCTION

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CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED RAIL PROJECT
PALMDALE TO BURBANK

TRAIN CONTROL SYSTEM
INTERLOCKING SITES
BURBANK STATION

CONTRACT NO. HSR14-42
DRAWING NO. TC-E6005
SCALE NOT TO SCALE
SHEET NO.