CALIFORNIA HIGH-SPEED TRAIN Engineering Plans

Kings/Tulare

Burbank to Los Angeles

Volume 7

HSR Burbank Airport Station

April 2019



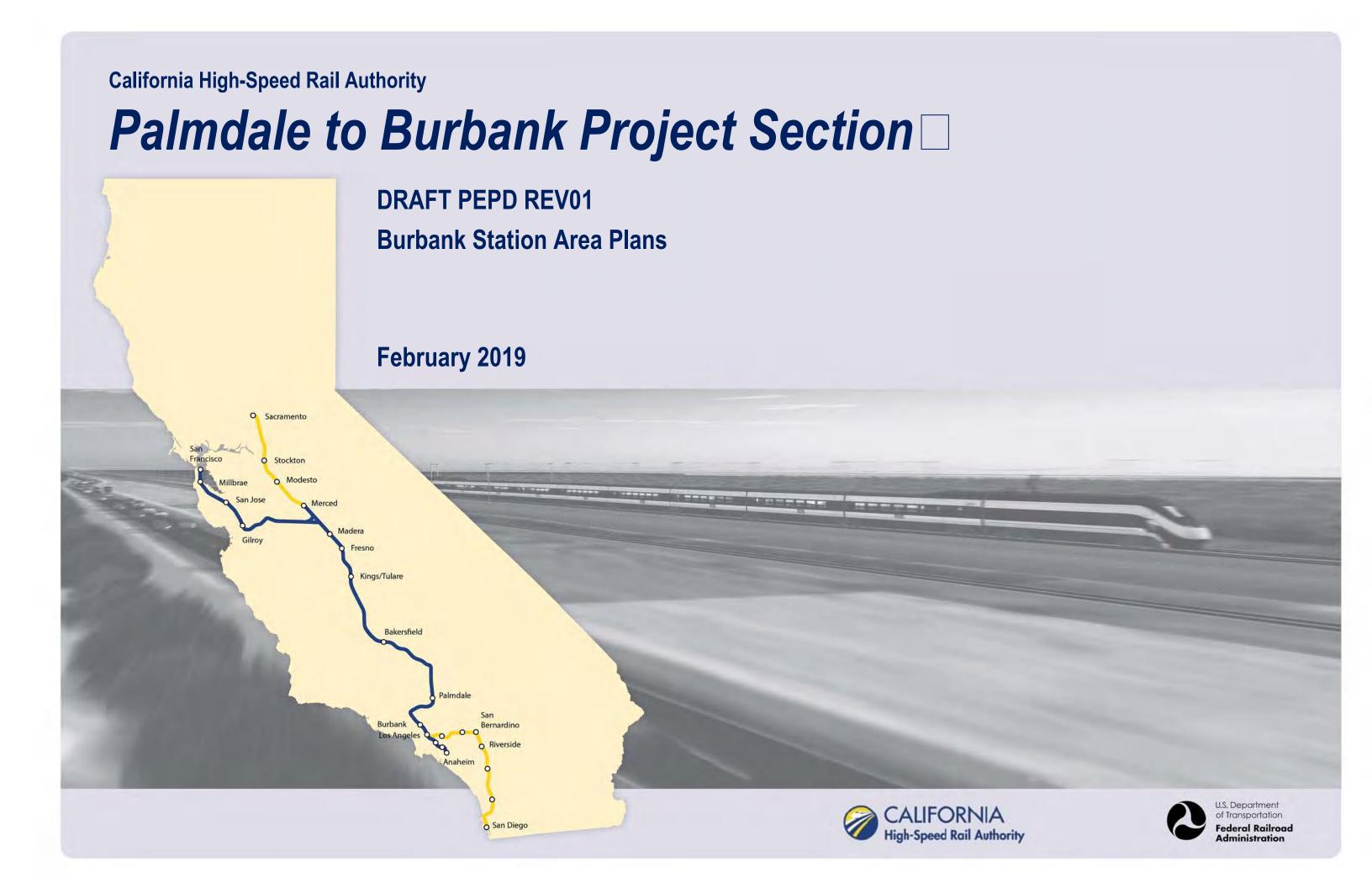
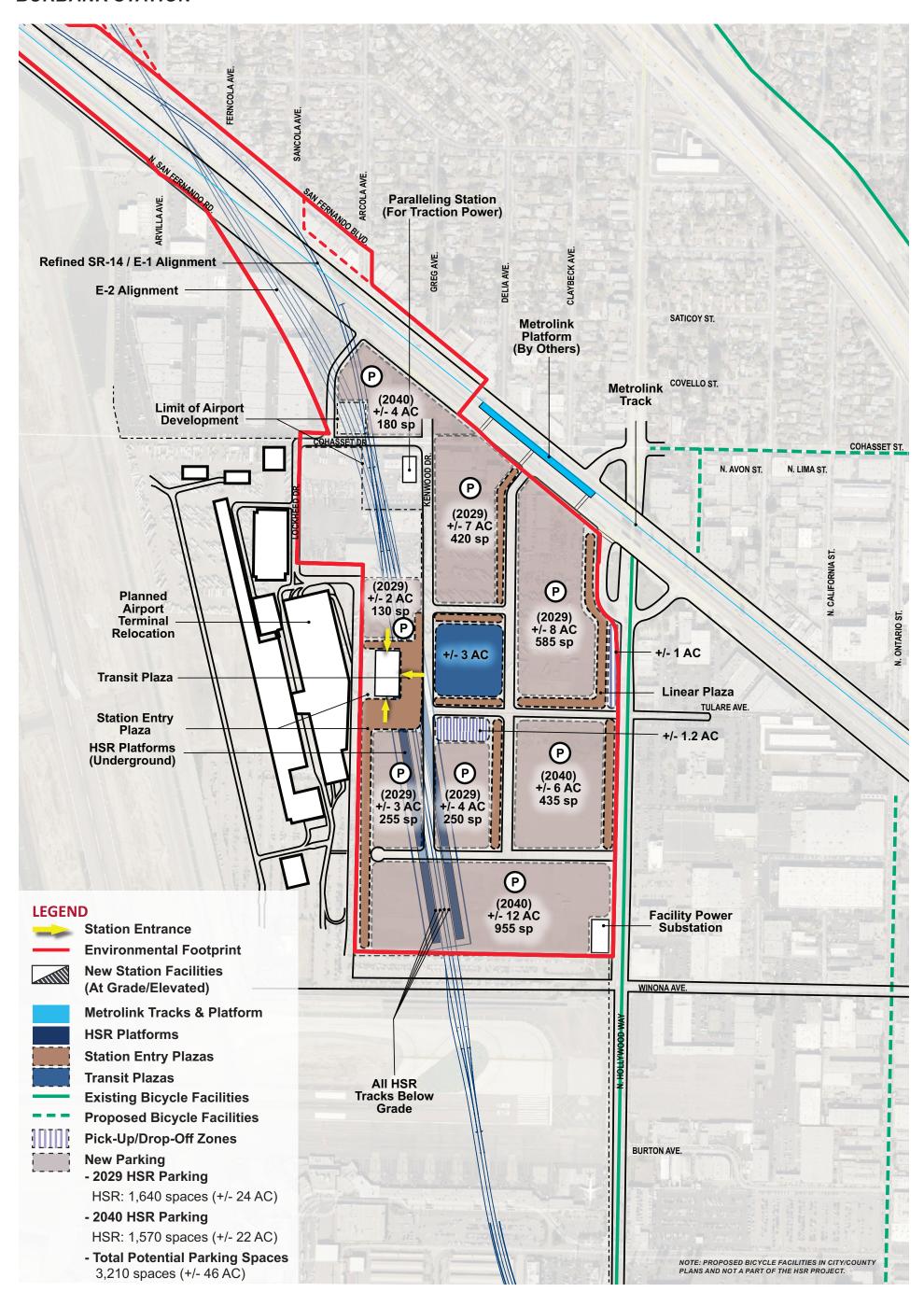
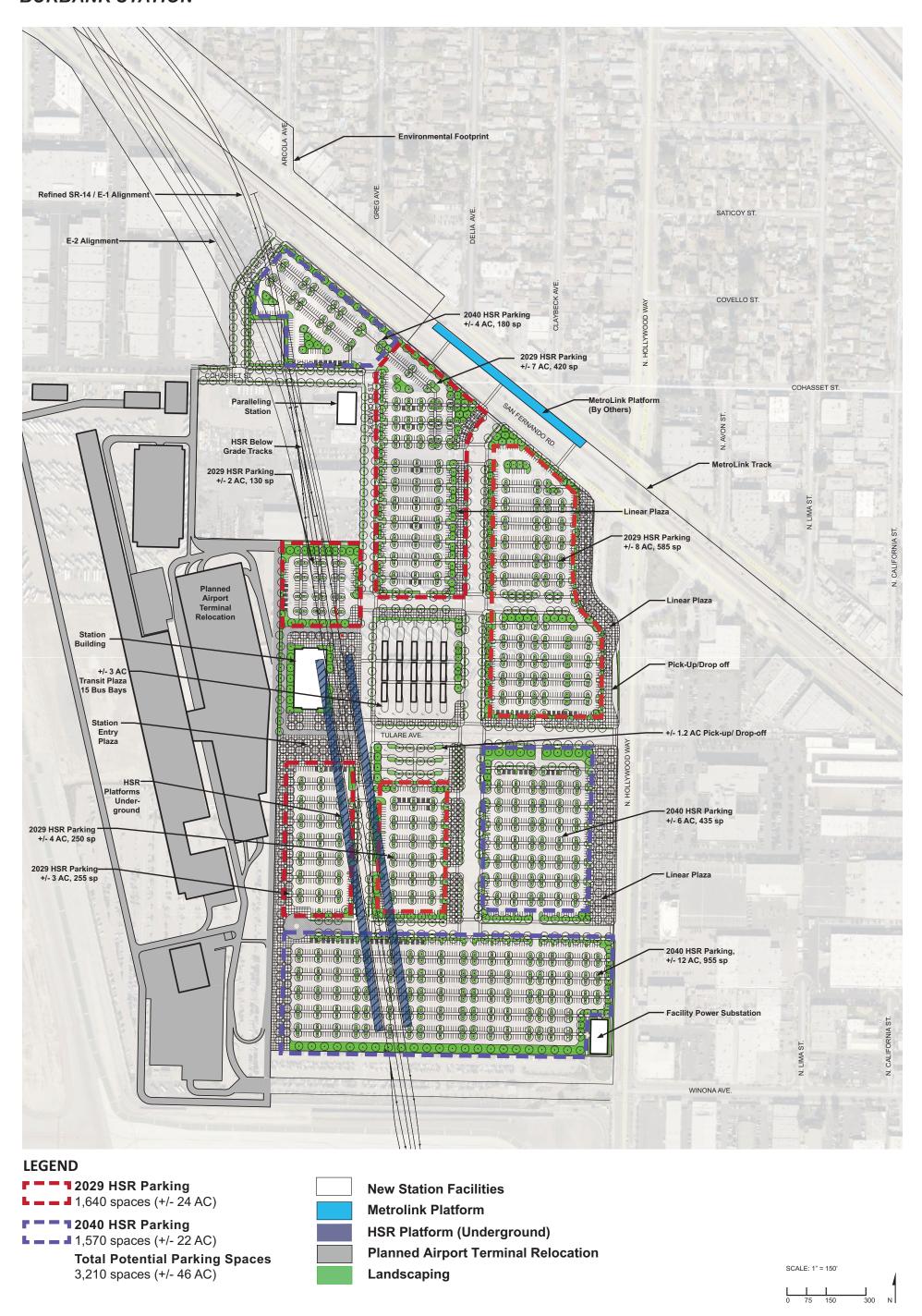


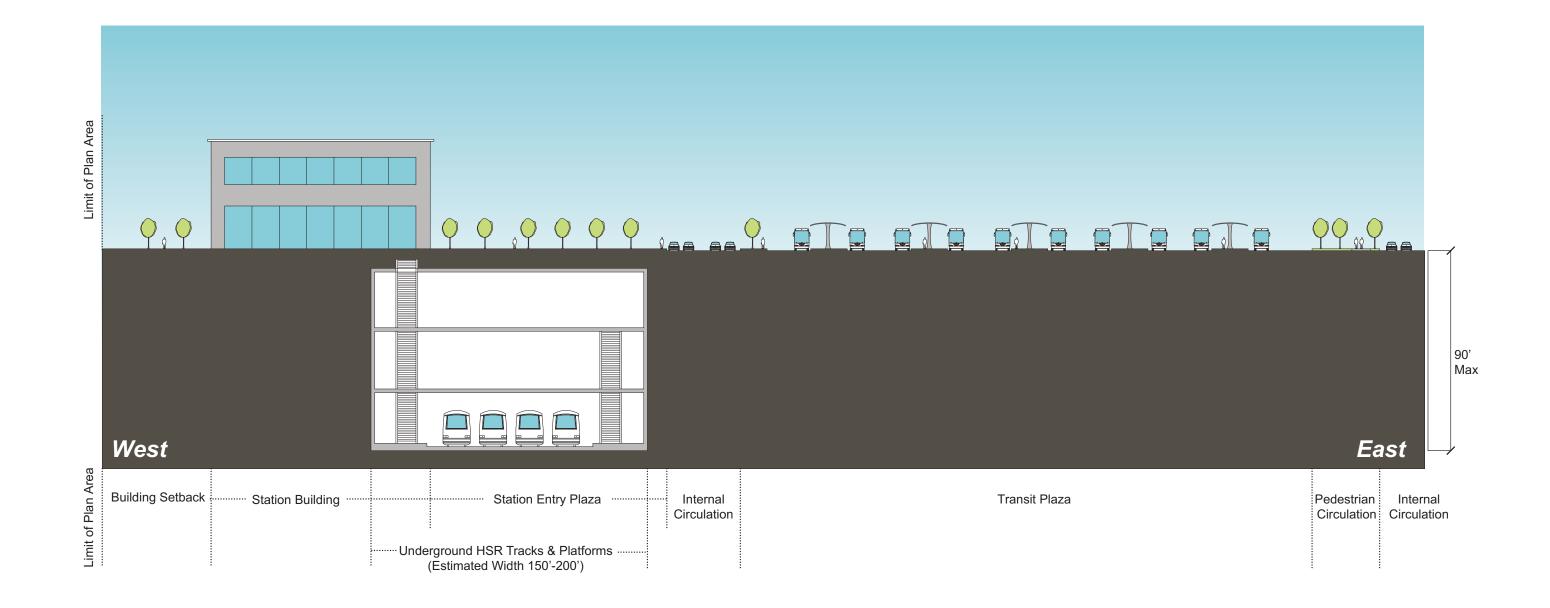
TABLE OF CONTENTS:

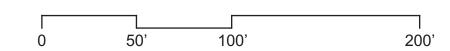
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Burbank Station General Site Plan



















Burbank Station Programmi	ng & Area Requirements Table			
Function Name	Description	Formula	Required Area (Net SF) Minimum	Comments
Burbank Daily Peak Ridership Boardings 2040	Long distance + Short Distance Boardings	12,800	12,800	CHSR 2016 Business Plan
P360B	Highest Daily Boardings X Conversation Factor for Boardings=6hour Boardings	Highest Daily Boardings x 0.67=P360B 12,800 x 0.67	8,576	
P360A	Peak 6 Hour Boardings X Conversation Factor for Alightings =6hour Alightings	P360B x 0.75=P360A 8576 x 0.75	6,432	
P60B	Peak 6 hour Boardings x Peak hour conversion Factor for Boardings=Peak Hour Boardings	P360B x 0.17=P60B 8576 X 0.17	1,458	
P60A	Peak Hour Boardings x Peak Hour Conversion Factor for Alightings=Peak Hour Alightings	P60B x 0.75=P60A 552 x 0.75	1,094	
P30B	Peak Hour Boardings /2 x Surge Factor = Peak 30-minute Boardings	(P60B /2) x 1.2=P30B (1458/2) x 1.2	875	
P30A	Peak 30-minute Boardings x Conversion Factor = Peak 30 minute Alightings	P30B x 0.075=P30A 875 x 0.75	656	
P15B	Peak Hour Boardings / 4 x Surge Factor = Peak 15- minute Boardings	(P60B / 4) x 1.3= P15B (1458 /4) x 1.3	474	
P15A	Peak 15-minute Boardings x Conversion Factor=Peak 15 minute Alightings	P15B x 0.75=P15A 474 x 0.75	356	California HSTP Design Criteria, Chapter 14-Stations, Oct 2015, Working Draft, Rev.2 Table 14-1 Passenger Ridership Assumptions
P5B	Peak Hour Boardings /12 x Surge Factor = Peak 5-minute Boardings	(P60B / 12) x 1.4= P5B (1458/12) x 1.4	170	Table 14-3 Concourse Circulation and Waiting Areas
P5A	Peak 5-minute Boardings x Conversion Factor = Peak 5-minute Alightings	P5B x 0.75=P5A 170 x 0.75	128	
P1B	Peak Hour Boardings /60 x Surge Factor=Peak 1 Minute Boardings	(P60B /60) x 1.5=P1B (1458 /60) x 1.5	36	
P1A	Peak 1-minute Boardings x Conversion Factor for Alightings=Peak 1 Minute Alightings	P1Bx0.75 36x0.75	27	
Cf	Unobstructed Net Concourse Free Public Area Circulation Width	(P15B+P15A)/(15x10 people/ft/min) or 16 ft min. (474+356)/(15x10 people/ft/min)	476	
Wf	Net Waiting Area in Concourse Free Public Area	((P15Bx1.1) + (P15Ax0.1))x 14 square feet ((474x1.1) +(356x0.1)) x 14	7,798	
Public Restrooms	Women + Men + Unisex accessible restroom for each group	(P15B+P15A) / 2 (474+356) /2	415	14.3.4 Public Restrooms
Passenger Amenity Space Allocation	Station Design Target Year Daily Boardings	More than 10,000	9,000	Table 14-7, Chapter 14 March 2016, corrected as directed Comment 45_3-09-2017
Ticket Windows	Station Quantity	P60B/600 638:600	2	Table 14-5: HST Ticket Sales Facilities
Ticket Vending Machines		P60B/280 638/280	3	
Value Added Machines	2 Per Platform Minimum			1
Fare Gates Intermediate		P1B /50 ppm 36/50 One additional gate to be provided if under 10	2	Table 14-6 Fare Gates
Emergency Gates			2	14.3.3.6
Side Platform Station	Peak- hour boarding and fully occupied train alighting	P60B + 900 p	2358	14.3.6.2
Sr	Seating at Concourse Free Waiting Area	((P15B x 1.1) + (P15A x 0.1)) x .25	139	Table 14-22: Station Seating

Burbank Station Facility Sizing Table Burbank Projected Daily Ridership (2040) 25,600 (12,800 Boardings + 12,800 Alightings), based on CHSR Authority 2016 Business Plan STATION TYPE: Intermediate, Full-Service, Large: based on Chapter 14 Stations Design Criteria, Table 14-3 Chapter 14:Stations Comments **Function Name** Required Area Formula (Net SF) Minimum Station Concourse (Free Area - Main Hall) 29,050 P15 x 35 SF/person 14.3.5.1 P15 = P15 B + P15 A = 474 + 356 = 830 ,use 35 SF/person 107 Ln.Ft. 14.3.5.2 Entrances (P60B x 1.1)/15 Ln.Ft. P60B=552, 15 ft width at least one entrance Mezzanine N/A tracks and platform underground Passenger Waiting Area 7,798 $((P15B \times 1.1)+(P15Ax0.1))$ 14.3.5.3.B.C California HSTP Design Criteria, Chapter 14-Stations, March 2016, Rev 2 and October 2015, Working draft, Rev 2. Table 14-1 Passenger x 14 SF Table 14-3 Ridership Assumptions, Table 14-3 Ticket Vending Machines (TVM) 72 P60B/280 Table 14-5, 14.3.5.6 P60B = 1458, 6 TVM, Minimum 2 required Concourse Public 9,000 Table 14-7 Concessionaire More than 10,000 Boardings 14.3.5.7.C **Business Lounge** 600 14.3.5.4 **Public Restrooms** 1,100 CBC 2016, CPC 2016 P15 = 830 A-3 Assembly Occupancy, 415 Male, 415 Female: 8 Water Closets, 5 Lavatories (P15B + P15A)/2Male: 3 Water closets, 4 Urinal, 3 Lavatories **Drinking Fountains: 3 Unisex Restrooms** 100 14.3.5.4 1 Unisex (or family) accessible restroom for each group of restrooms 60 14.3.7.1.D **Janitor Closets** 14.3.5.7A Minimum 1 required **Ticket Office Counter** 14.3.5.6.B Ticket Office Window Quality P60B/600 P60B = 552, Minimum 1 + 1 ADA accessible 14.3.5.7A 14.3.6.2.A 500 Police Office **Includes Lockers** 60 14.3.7.1.D Janitor Closets 144 14.3.6.2.B Security Guard Office 14.3.2.1 **HSR Platform** 14.3.2.1 Metrolink Platform Station Entry Plazas (Total Area) 14.4.4.8 Transit Plazas (Total Area) 14.4.2.4 Transit Plazas (Sizing Assumptions) 14.4.2.4 Pick-up Drop Off (Total Area) 14.4.2.5 Pick-up Drop Off (Sizing Assumptions) 14.4.2.5 2029 Parking Totals Sidewalks and landscaping are also included in parking area.

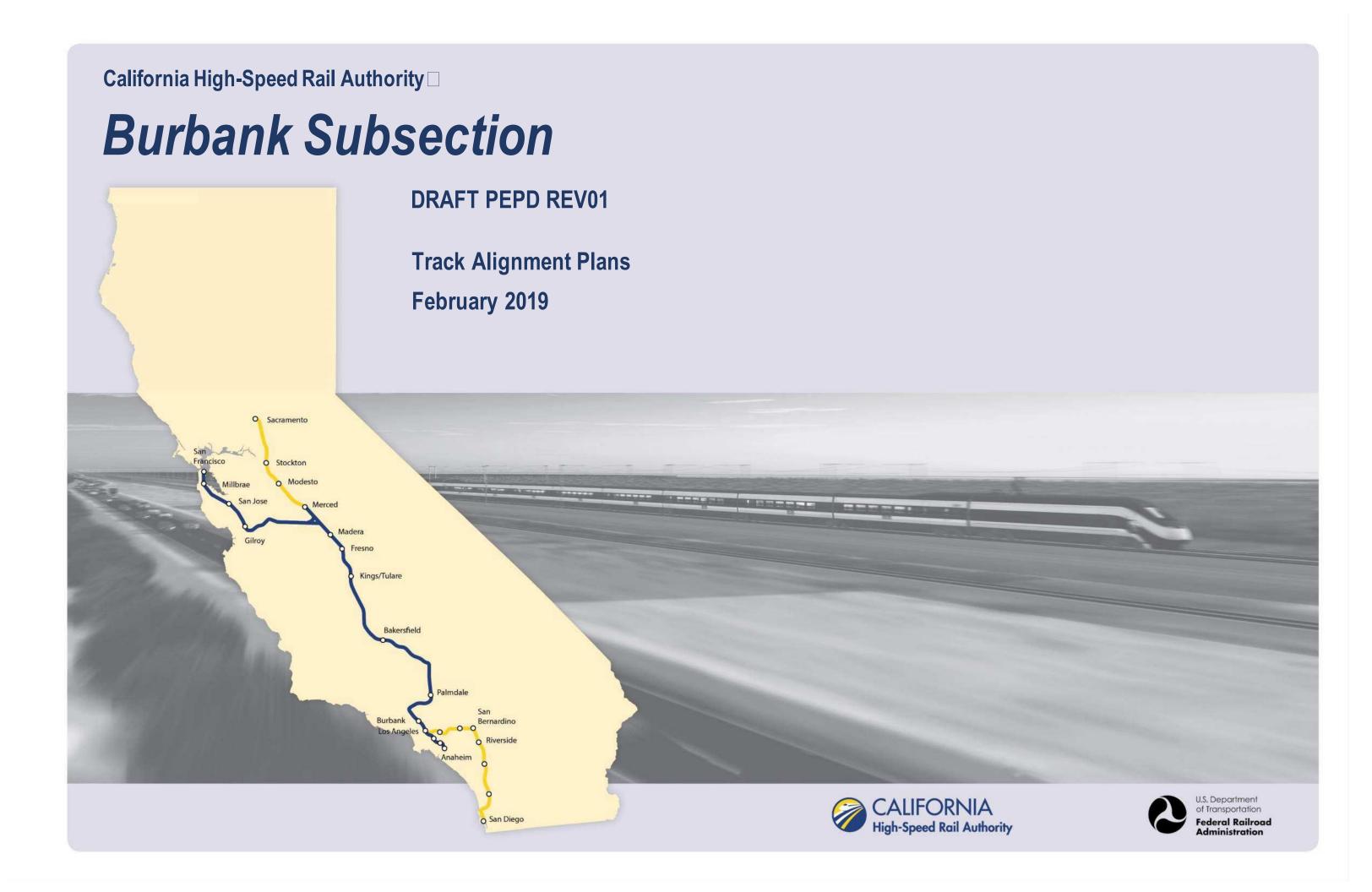
Sidewalks and landscaping are also included in parking area.

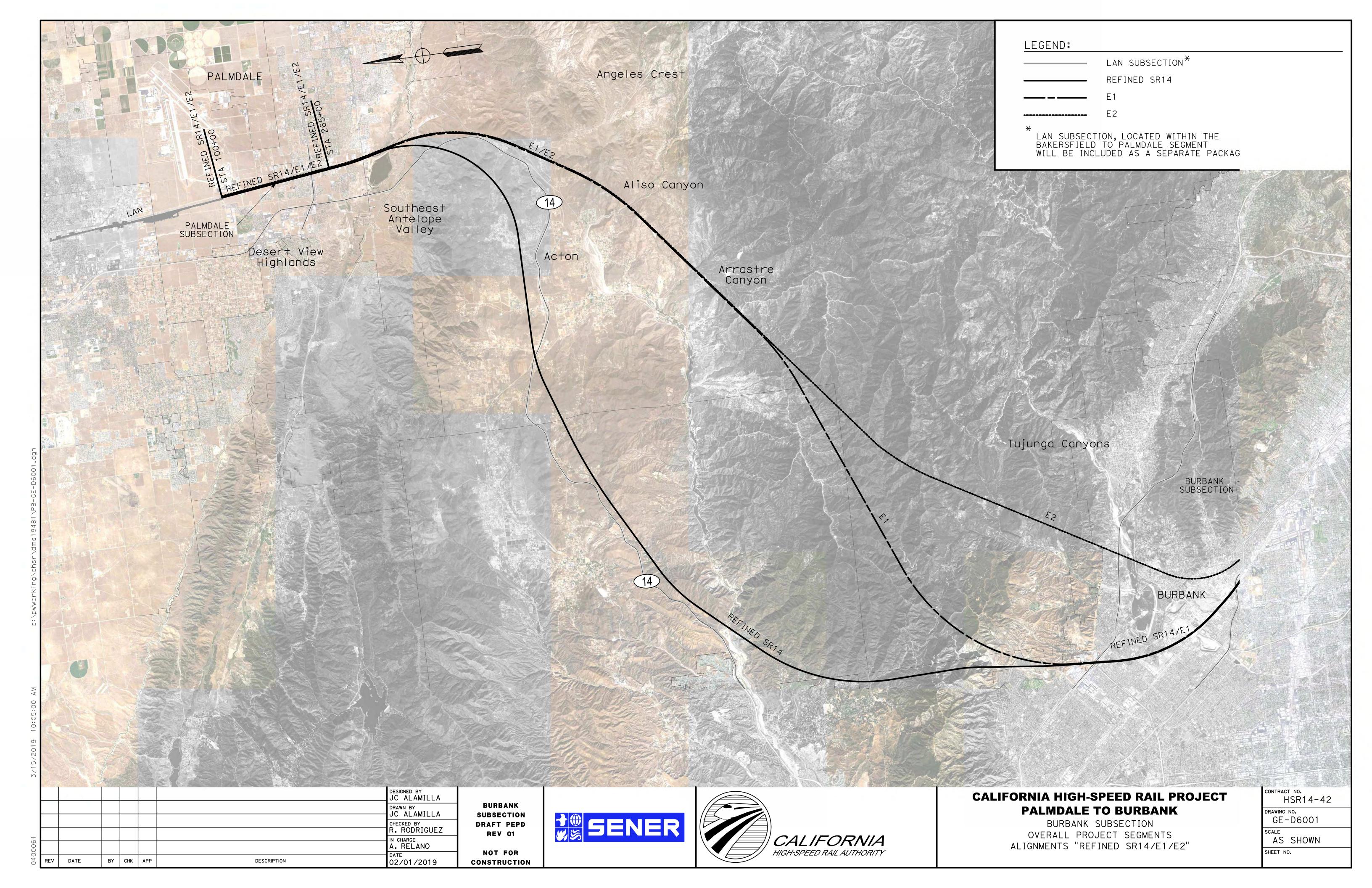
2040 Parking Totals

Burbank Station Facility Sizing Table Burbank Projected Daily Ridership (2040) 25,600 (12,800 Boardings + 12,800 Alightings), based on CHSR Authority 2016 Business Plan STATION TYPE: Intermediate, Full-Service, Large: based on Chapter 14 Stations Design Criteria, Table 14-3 Required Area Chapter 14:Stations Comments **Function Name** (SF) Minimum 225 14.3.5.7.A 75 SF per window, 3 ticket sales windows **Ticket Sales Office** 260 Ticket Admin., Handling & Storage 14.3.5.6.B Ticket Administration Office 14.3.5.7 14.3.6.2.C-D 200 14.3.6.1E-F Lost & Found & First Aid Room 1,100 14.3.6.2.E Station Control Room (SCR) **SCR Dedicated Computer Room** 500 14.3.6.2.F 300 Temporary Incident Command Post (CP) 14.3.6.2.G Station Staff Only 1,100 **SOR Workroom** 14.3.6.2.H **SOR Dedicated Computer Room** 500 14.3.6.2.F-H Staff Lockers, Showers, Restrooms 780 CBC 2016, CPC 2016 14.3.6.1.I 2016_ Business Plan Operations and Maintenance Cost Model, Table 20- Station Service Level C, Table 21, Table 24, Table 28. Assumed administration staff, police, security and cleaning personnel 27. B Business Occupancy, 14 Male, 14 Female. Female: 2 Watercloset, 1 Lavatory Male: 1 Watercloset, 1 Urinal, 1 Lavatory 2 Staff Shower Rooms adjacent to Locker rooms and Restrooms 60 14.3.7.1.C Janitor Closets 675 27/shift x 25SF 14.3.6.1G-H Staff Breakroom & Meeting Rooms 200 SF min or as reg to provide 25 SF /staff Station Manager Office 270 14.3.6.1A 270 SF 270 14.3.6.1C Facility Manager's Office Admin Office Space 270 14.3.6.1.B Facilities Maintenance Office 330 14.3.6.1.C 200 14.3.7.1.E Add 60 SF for misc. if required. Station General Storage Rooms 200 100 SF x (2) 14.3.6.2.1 OMB shall be provided on each platform, 2 platforms Platform Area Op. Mgt. Booth Mech., Elec. & Plumbing Rooms 1,000 14.3.7.2 **Battery Room** 400 200 SF x (2) 14.3.7.4.B Two rooms req, including one room at each end of station for LV batteries. UPS Room 1,800 900 SF x (2) 14.3.7.2.C Two rooms req., one at each end of station for low voltage (LV) distribution, transforming, EP and Fire Detection & Protection Rooms 100 14.3.7.2.C **Building Services** 14.3.7.2.E Train Control /Communications Room 1,915 Table 14-8 For the train control and communications equipment 240 14.3.7.2.E Table 14-8 For entry of service cabling into the building. May be co-located with the TCC room. Entrance Facility Room 120 14.3.7.2.E 3rd Party Telecom Room Table 14-8 390 130 SFx (3) 14.3.7.2.E Communications Closets Table 14-8 Number TBD. Locate close to center of each 10,000 SF of Station Floor Area

Renewable Energy/Stormwater

Burbank S	Burbank Station Facility Sizing Table					
Burbank P	urbank Projected Daily Ridership (2040) 25,600 (12,800 Boardings + 12,800 Alightings), based on CHSR Authority 2016 Business Plan					
			STATION TYPE: Intermediat	e, Full-Service, Large: b	pased on Chapter 14 Stations Design Criteria, Table 14-3	
	Function Name	Required Area (SF) Minimum	Formula	Chapter 14:Stations	Comments	
Ę	Main Station Building Recycling/Refuse	150		14.3.7.1.A		
Maint. Support Areas	Secondary Station Building Recycling	60		14.3.7.1.C		
t. Su Area	Landscape Maintenance Room	100		14.3.7.1.F		
laint	Loading Zone and Service Entrance	800		14.3.7.1.G		
2	Loading Dock	480	24 Ft wide x 20 Ft deep	14.3.7.1.H		
	SUBTOTAL	70,977 SF				
	Efficiency Factor	2				
	TOTAL AREA- MAIN STATION BUILDING	141,954 SF				
	TOTAL AREA-Substation:	10,000 SF				
	TOTAL:	151,954 SF				





GENERAL

DRAWING NO.	DESCRIPTION	SHEET	NO.
GE-D6001	OVERALL PROJECT SEGMENTS		
TT-B0001	INDEX OF DRAWINGS		
TT-B0004	ABBREVIATIONS		
TT-B0005	ABBREVIATIONS AND LEGEND		

BURBANK AIRPORT STATION

DRAWING NO.	DESCRIPTION	SHEET	NO.
TT-C6001-BUR	HIGH SPEED RAIL PLANS - KEY MAP		
TT-D1001A-BUR	PLAN AND PROFILE - STA 2226+00.00 TO STA 2254+47.54		
TT-D1002A-BUR	SB PLATFORM TRACK - PLAN AND PROFILE - STA 3220+87.48 TO STA 3254+47.54		
TT-D1003A-BUR	NB PLATFORM TRACK - PLAN AND PROFILE - STA 4230+87.49 TO STA 4296+77.55		
TT-D1004A-BUR	NB REFUGE TRACK - PLAN AND PROFILE - STA 5219+79.818 TO STA 5239+77.524		

						DESIGNED BY JC ALAMILLA
						DRAWN BY JC ALAMILLA
						CHECKED BY R. RODRIGUEZ
						IN CHARGE A. RELANO
REV	DATE	BY	СНК	APP	DESCRIPTION	DATE 02/01/2019

BURBANK SUBSECTION DRAFT PEPD REV 01

NOT FOR

CONSTRUCTION





CALIFORNIA HIGH-SPEED RAIL PROJECT PALMDALE TO BURBANK

BURBANK SUBSECTION

GENERAL INDEX OF DRAWINGS

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

NOT FOR

CONSTRUCTION

02/01/2019

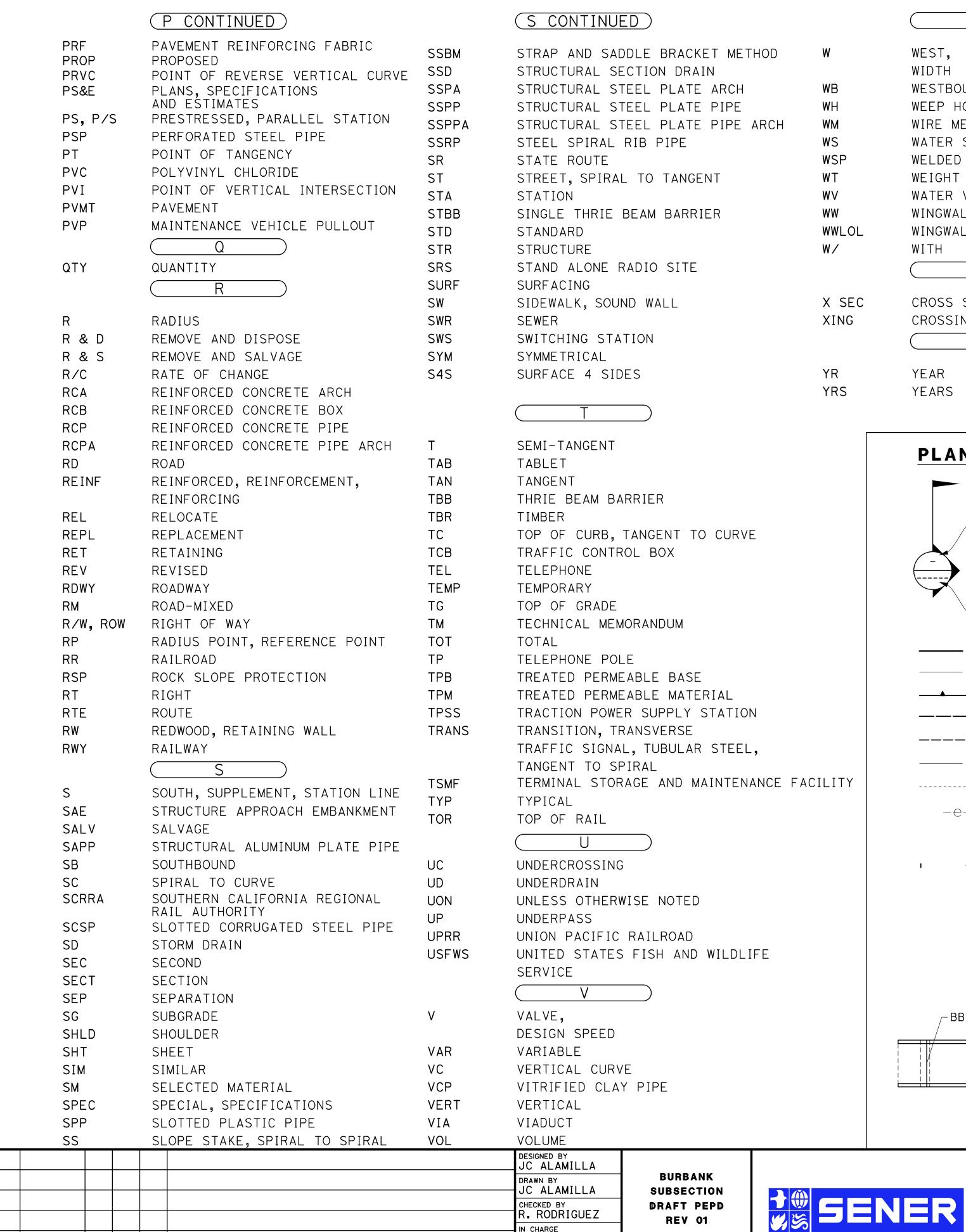
BY CHK APP

DESCRIPTION

HIGH-SPEED RAIL AUTHORITY

SHEET NO.

ABBREVIATIONS



A. RELANO

02/01/2019

BY CHK APP

DESCRIPTION

NOT FOR

CONSTRUCTION

GENERAL NOTES

W

WEST,

WIDTH

WESTBOUND

WEEP HOLE

WIRE MESH

WEIGHT

WINGWALL

CROSSING

WITH

YEAR

YEARS

WATER SURFACE

WATER VALVE

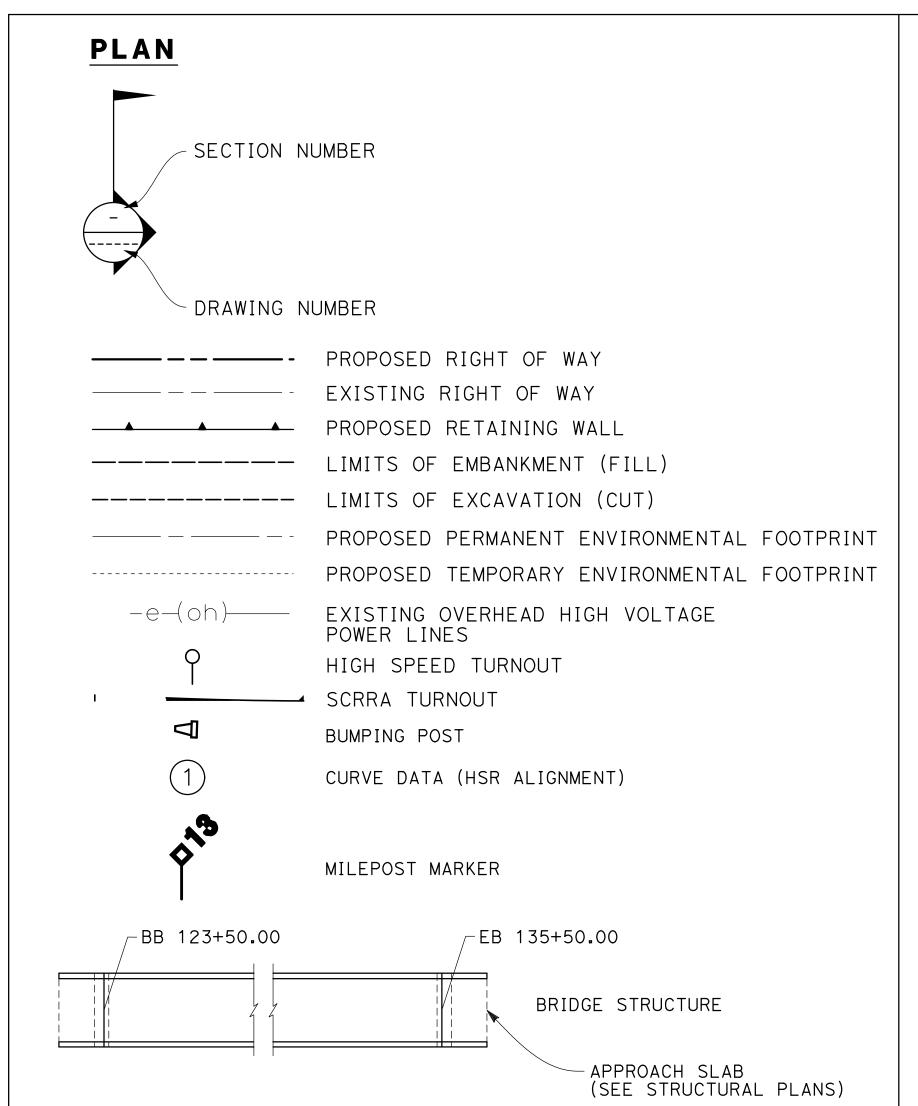
CROSS SECTION

WELDED STEEL PIPE

WINGWALL LAYOUT LINE

- 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.

LEGEND

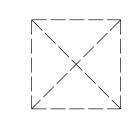


CALIFORNIA

HIGH-SPEED RAIL AUTHORITY

PROFILE

PROPOSED TRACK ELEVATION ORIGINAL GROUND (OG) _____ OTHER TRACKS -----



STRUCTURAL CLEARANCE ENVELOPE

HIGH SPEED TURNOUT

CALIFORNIA HIGH-SPEED RAIL PROJECT PALMDALE TO BURBANK

BURBANK SUBSECTION

GENERAL

CONTRACT NO. HSR14-42 DRAWING NO. TT-B0005 SCALE

NO SCALE

SHEET NO.

ABBREVIATIONS AND LEGEND

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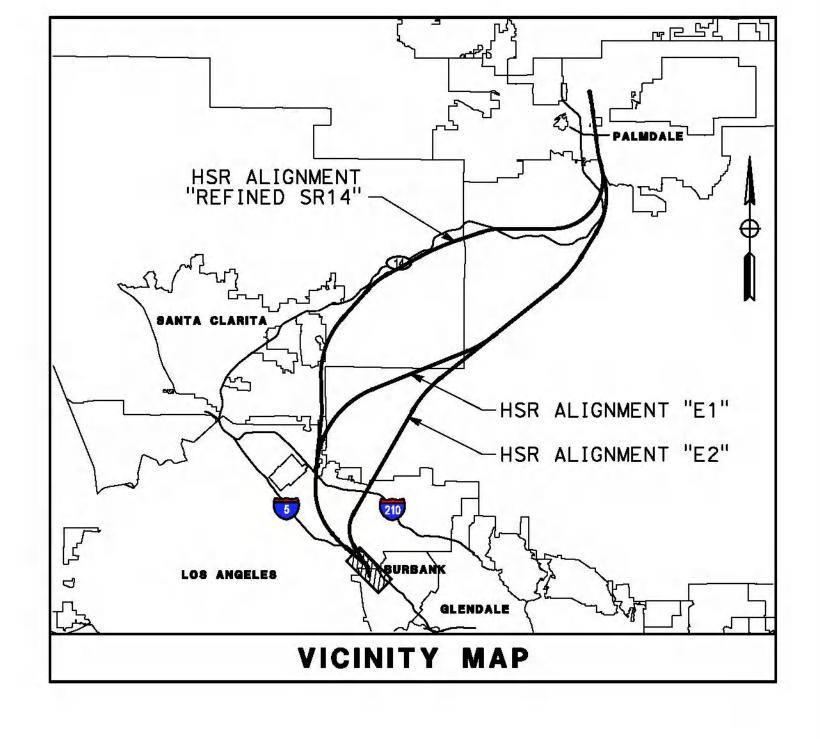
CONSTRUCTION

ALIGNMENT "REFINED SR14"

ALIGNMENT "E1







BURBANK AIRPORT STATION TRACKS



BURBANK	AIRPORT	STATION	TRACKS

	E1	REFINED SR14
MAINLINE	TT-D1001B-BUR	TT-D1001A-BUR
SB STATION TRACK	TT-D1002B-BUR	TT-D1002A-BUR
NB STATION TRACK	TT-D1003B-BUR	TT-D1003A-BUR
NB REFUGE TRACK	TT-D1004B-BUR	TT-D1004A-BUR
	E	2
MAINLINE	TT-D1001C-BUR	TT-D1002C-BUR
SB STATION TRACK	TT-D1003C-BUR	TT-D1004C-BUR
NB STATION TRACK	TT-D1005C-BUR	TT-D1006C-BUR
NB REFUGE TRACK	TT-D1007C-BUR	TT-D1008C-BUR

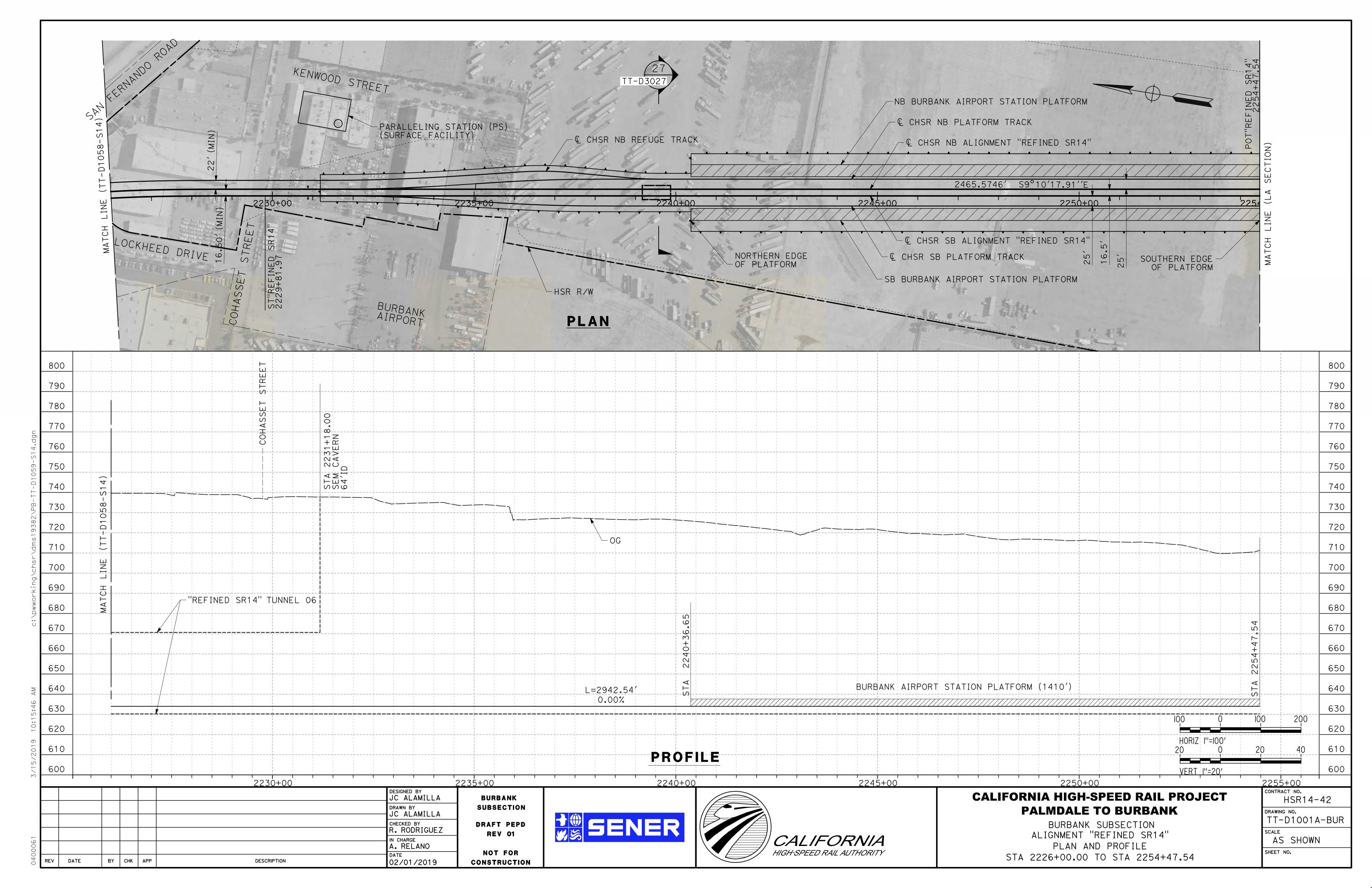
CALIFORNIA HIGH-SPEED RAIL PROJECT
PALMDALE TO BURBANK

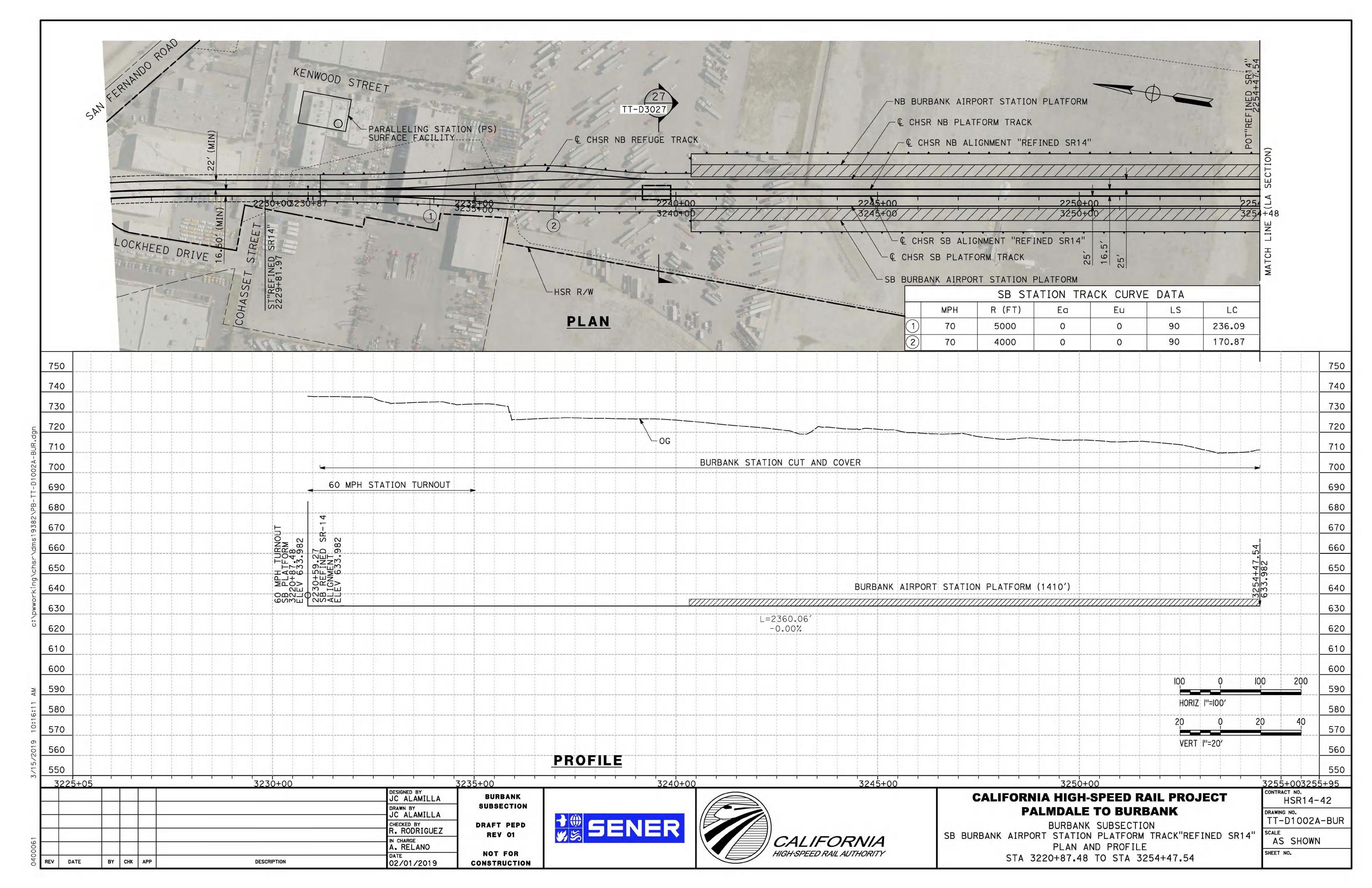
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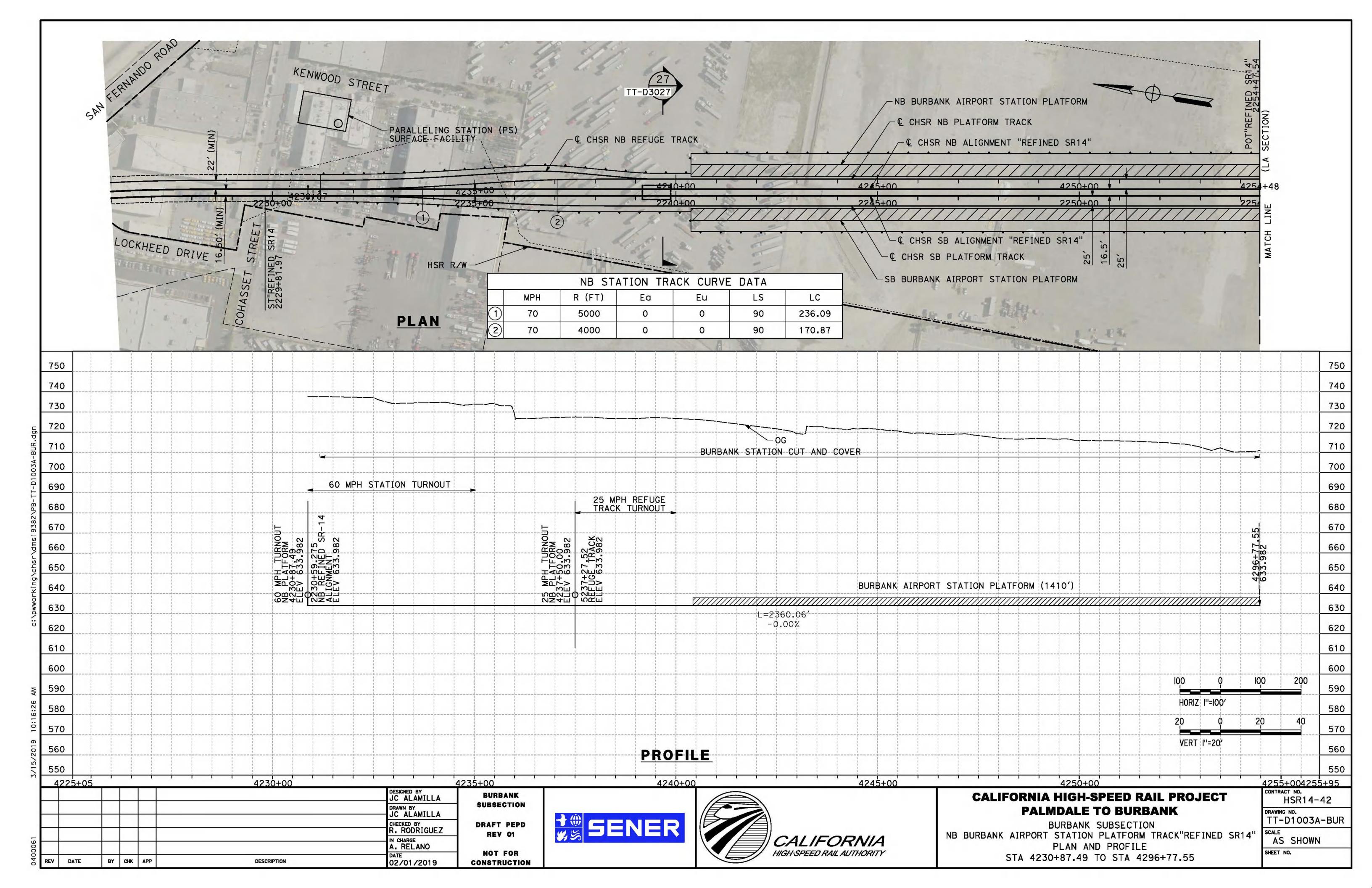
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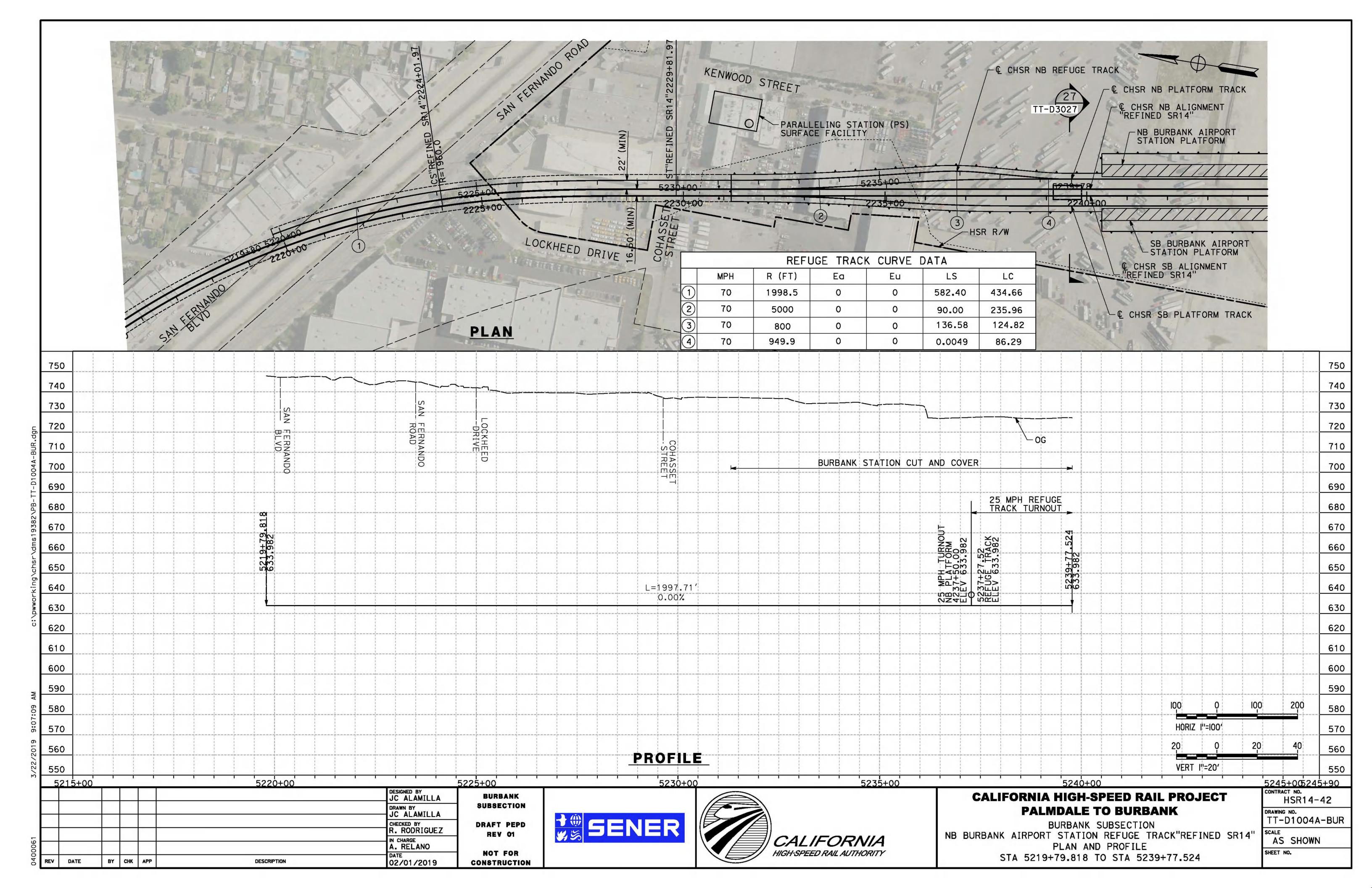
HIGH SPEED RAIL PLANS KEY MAP

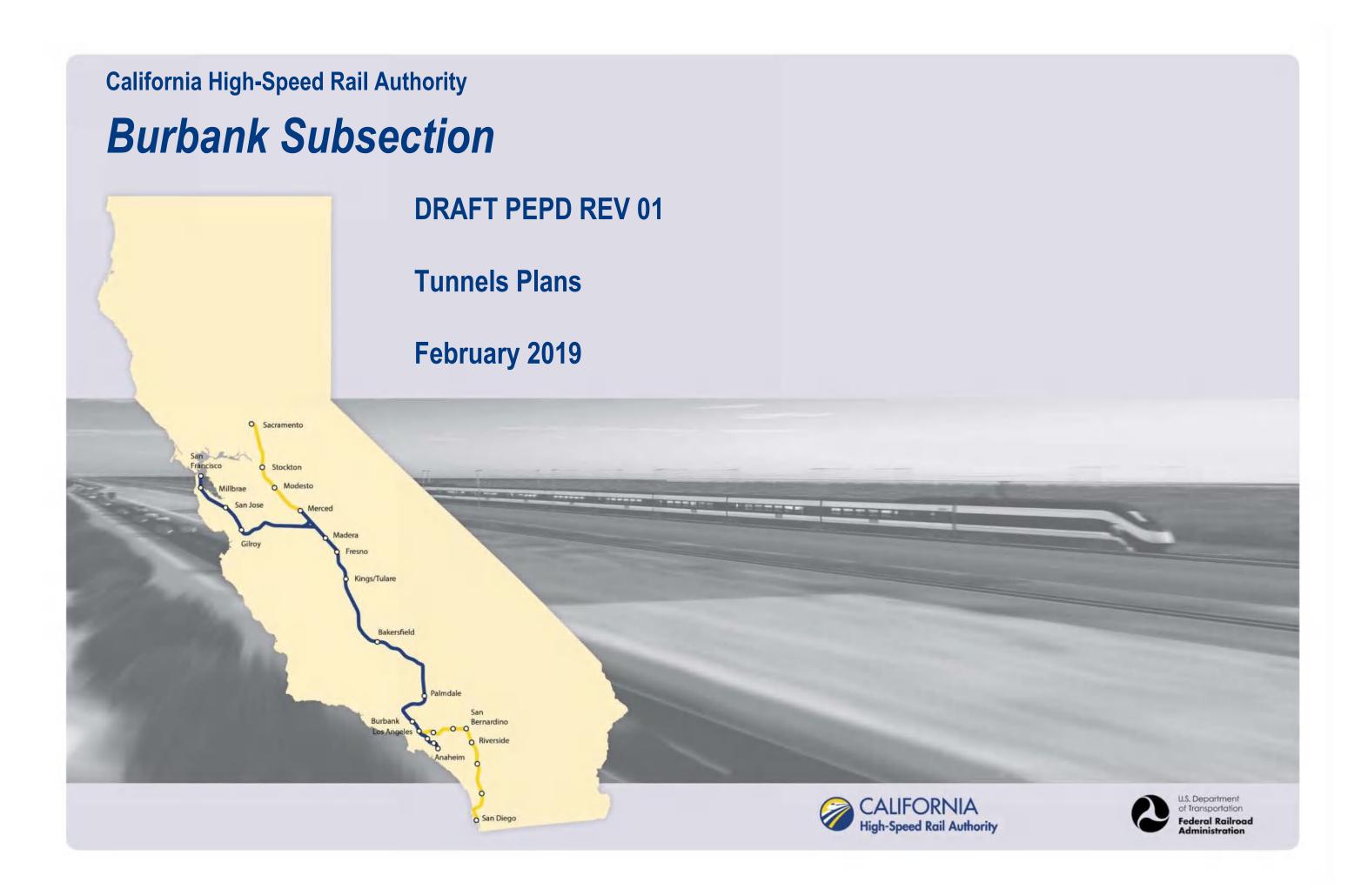
CONTRACT NO.
HSR14-42
DRAWING NO.
TT-C6001-BUR
AS SHOWN
SHEET NO.











GENERAL

DRAWING NO.	DRAWING DESCRIPTION	SHEET NO.
TN-B0003	INDEX OF DRAWINGS	
TN-B0004	ABBREVIATIONS AND LEGEND	
TN-B0005	FAULT KEY MAP	
TN-B0007	SCHEMATIC LINEAR DIAGRAMS	

BURBANK AIRPORT STATION

DRAWING NO.	DRAWING DESCRIPTION	SHEET NO.
TN-B6002-S14	KEY MAP - HIGH SPEED RAIL TUNNEL PLANS	
TN-D4038-S14	PLAN	
TN-Y1021-S14	PROF I LE	

TYPICAL SECTIONS AND DETAILS

DRAWING NO.	DRAWING DESCRIPTION	SHEET NO.			
TN-C0902	TUNNEL TYPICAL SECTION AND DETAILS. SEM SINGLE TUNNEL, 2 TRACKS+REFUGE TRACK. CLEARANCE DIAGRAM - TANGENT & SUPERELEVATED TRACK				
TN-C0903	CONSTRUCTION SEQUENCE AND SUPPORT MEASURES - SEM SINGLE TUNNEL, TN-C0903 2 TRACKS+REFUGE TRACK				
TN-C1104	SINGLE CELL BOX 2 TRACKS + REFUGE TRACK CUT-AND-COVER TUNNEL. TYPICAL SECTION				
TN-C1105	SINGLE CELL 4 TRACKS + REFUGE TRACK CUT-AND-COVER TUNNEL. TYPICAL SECTION				
TN-C1106	SINGLE CELL 4 TRACKS. CUT-AND-COVER TUNNEL. TYPICAL SECTION				
TN-C1109	BURBANK STATION PLATFORM. CUT-AND-COVER TUNNEL. TYPICAL SECTION				

						DESIGNED BY E.VELASCO	
						DRAWN BY FJ.DOMINGUEZ	8
						CHECKED BY A.NAVARRO	DRAF
						IN CHARGE A.RELAÑO	
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BURBANK SUBSECTION AFT PEPD REVO1 NOT FOR CONSTRUCTION



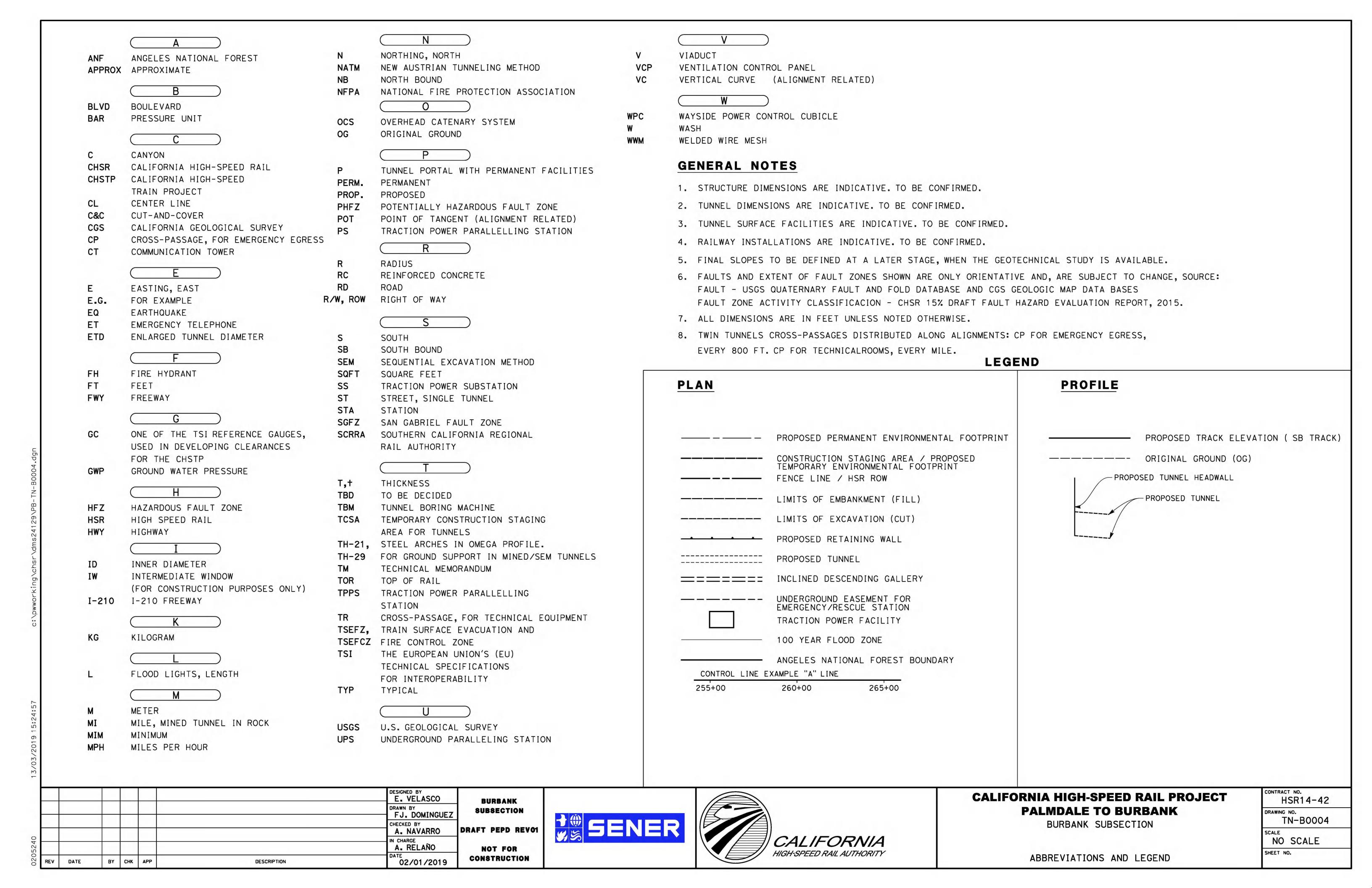


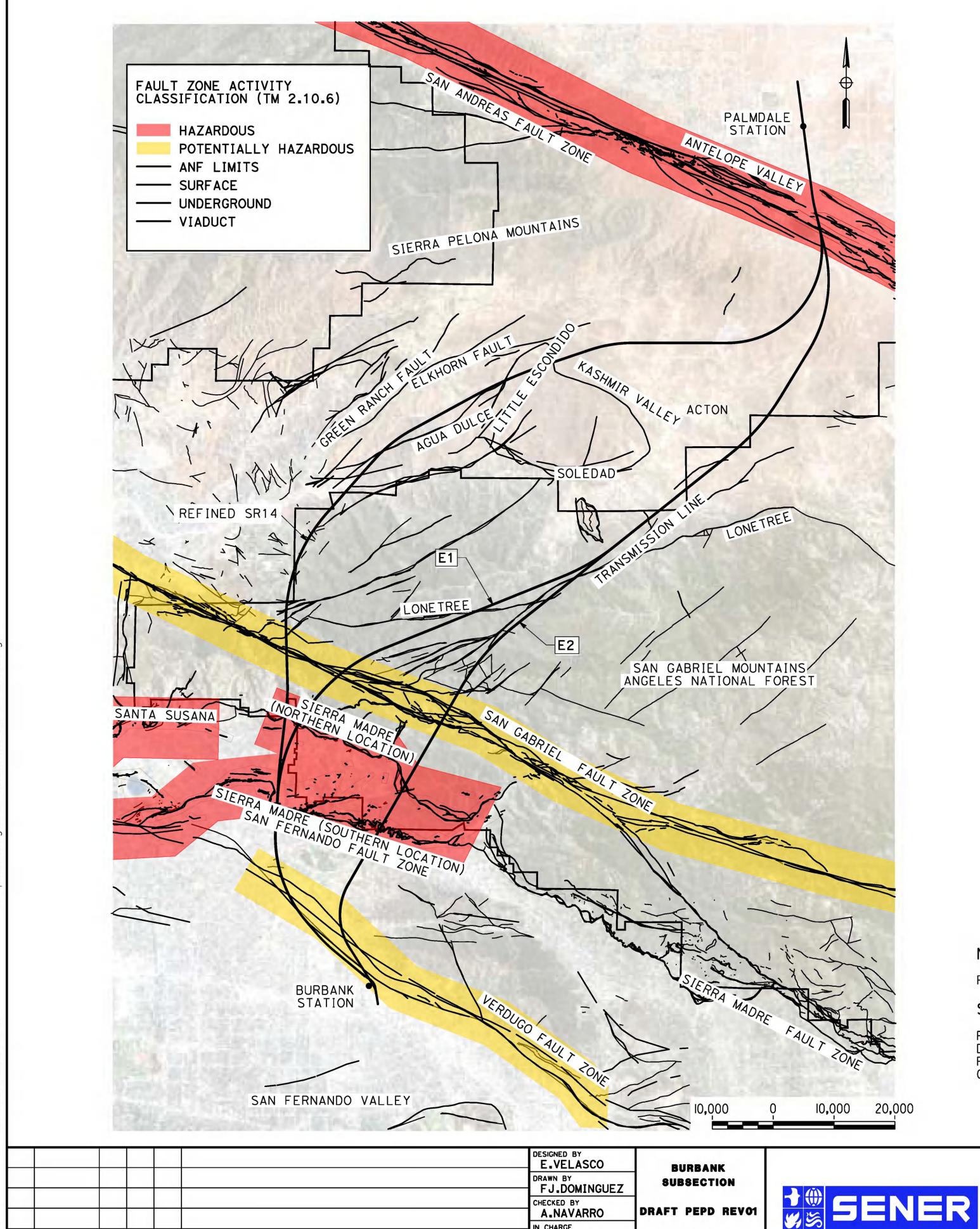
CALIFORNIA HIGH-SPEED RAIL PROJECT PALMDALE TO BURBANK

BURBANK SUBSECTION

SHEET NO. INDEX OF DRAWINGS

CONTRACT NO. HSR14-42
DRAWING NO. TN-B0003
SCALE NO SCALE





NOTE:

PRELIMINARY DRAFT/SUBJECT TO CHANGE

SOURCE:

FAULTS - USGS QUATERNARY FAULT AND FOLD DATABASE AND CGS GEOLOGIC MAP DATABASES FAULT ZONE ACTIVITY CLASSIFICATION - CHSR 15% DRAFT FAULT HAZARD EVALUATION REPORT, 2015.

						DESIGNED BY E.VELASCO	BURBANK
						DRAWN BY FJ.DOMINGUEZ	SUBSECTION
						CHECKED BY	DRAFT PEPD REVO1
						IN CHARGE A.RELAÑO	NOT FOR
REV	DATE	BY	СНК	APP	DESCRIPTION	DATE 02/01/2019	CONSTRUCTION



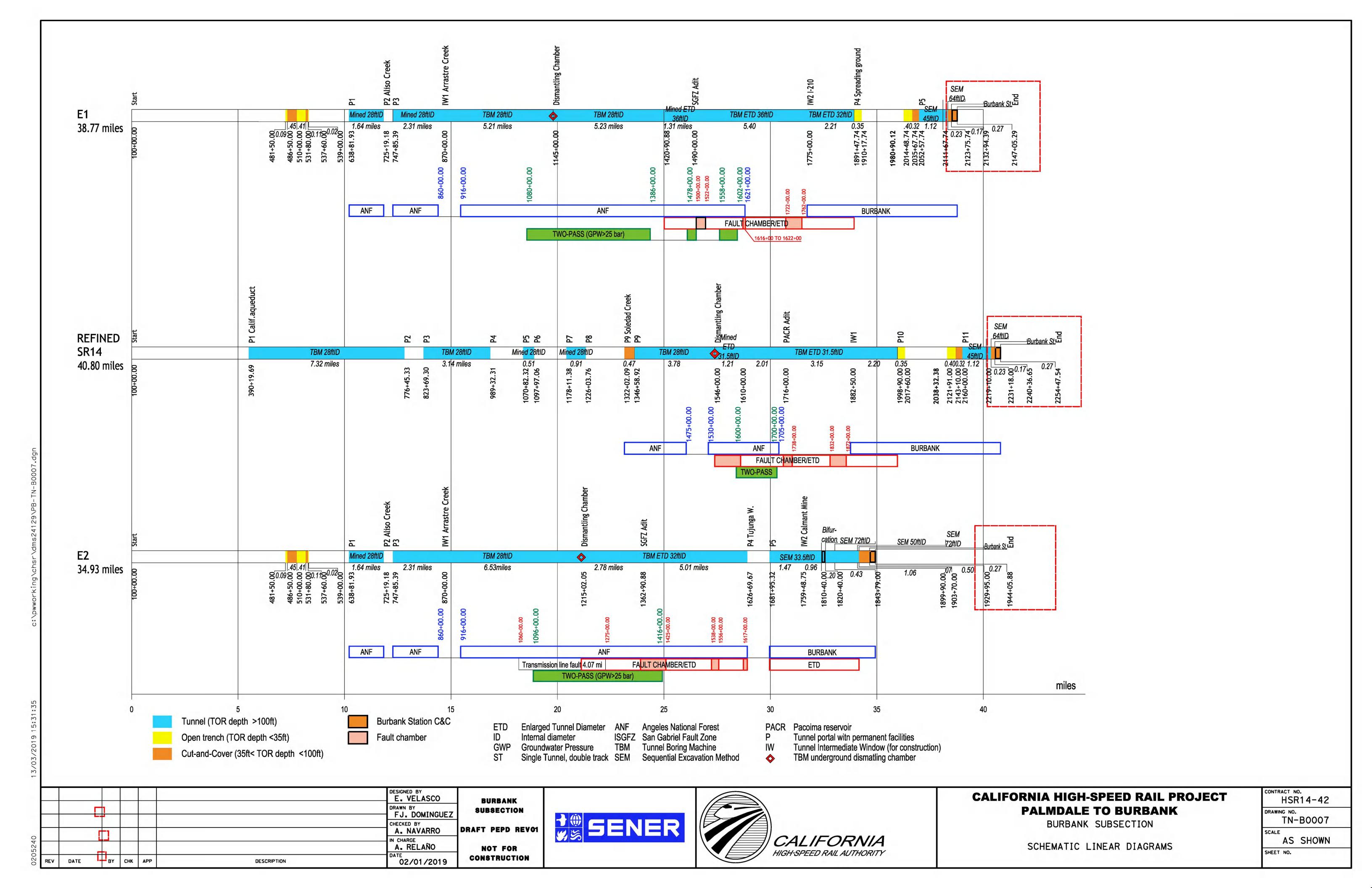
CALIFORNIA HIGH-SPEED RAIL PROJECT PALMDALE TO BURBANK

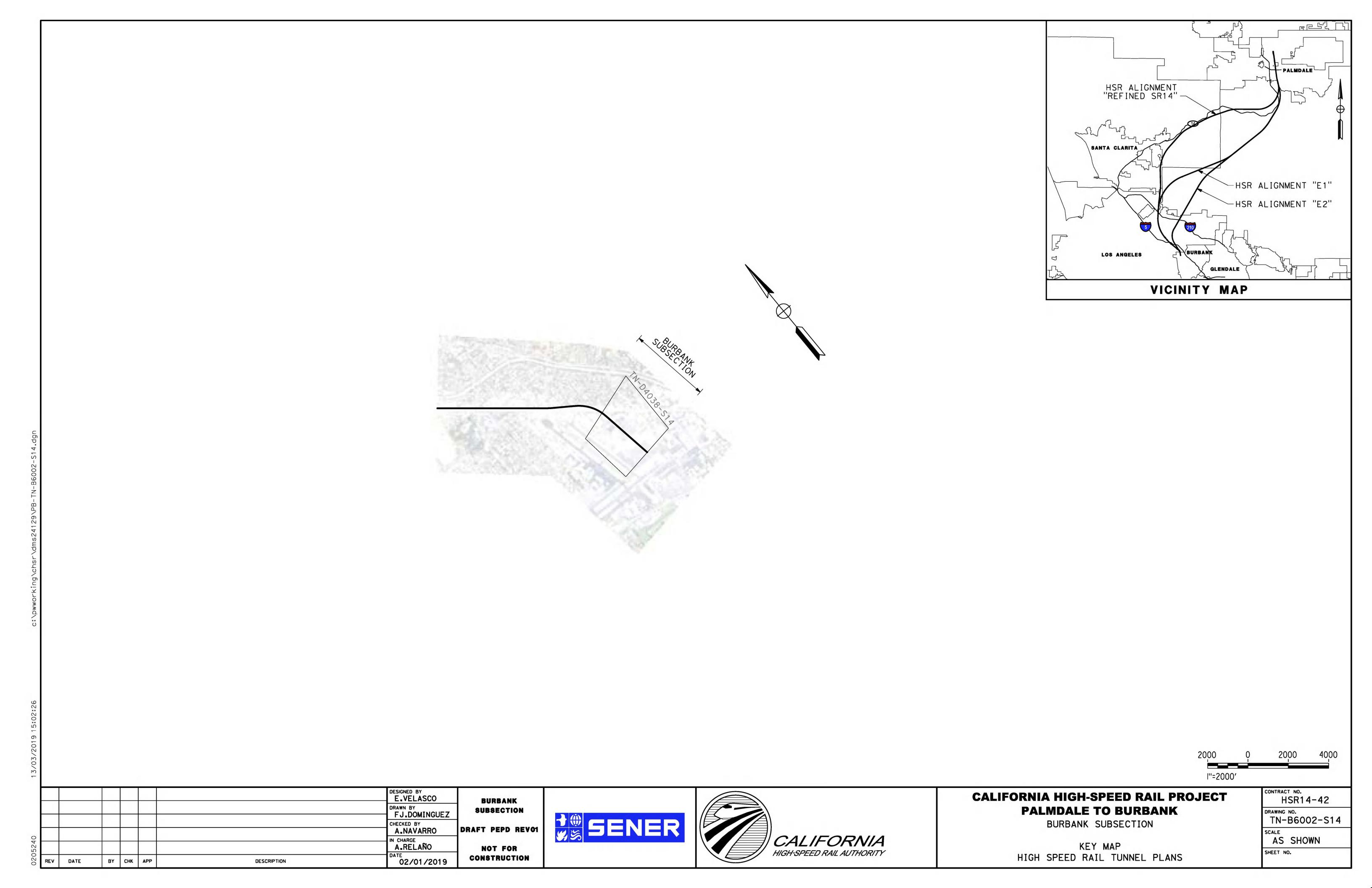
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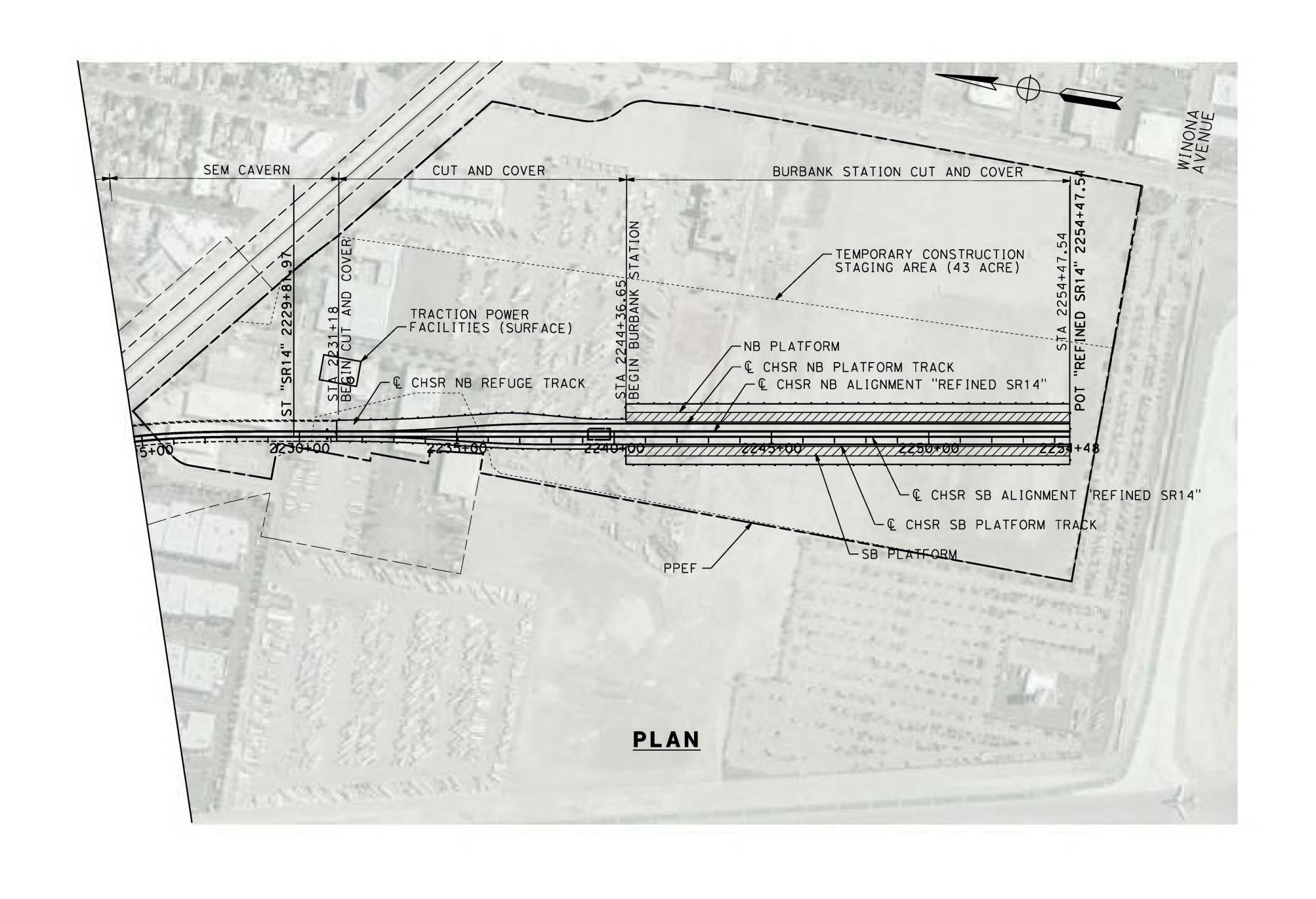
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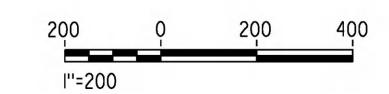
FAULT KEY MAP

CONTRACT NO.
HSR14-42 DRAWING NO. TN-B0005









						DESIGNED BY E-VELASCO	
						DRAWN BY FJ.DOMINGUEZ	
						CHECKED BY A.NAVARRO	DRA
						IN CHARGE A.RELAÑO	
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BURBANK
SUBSECTION

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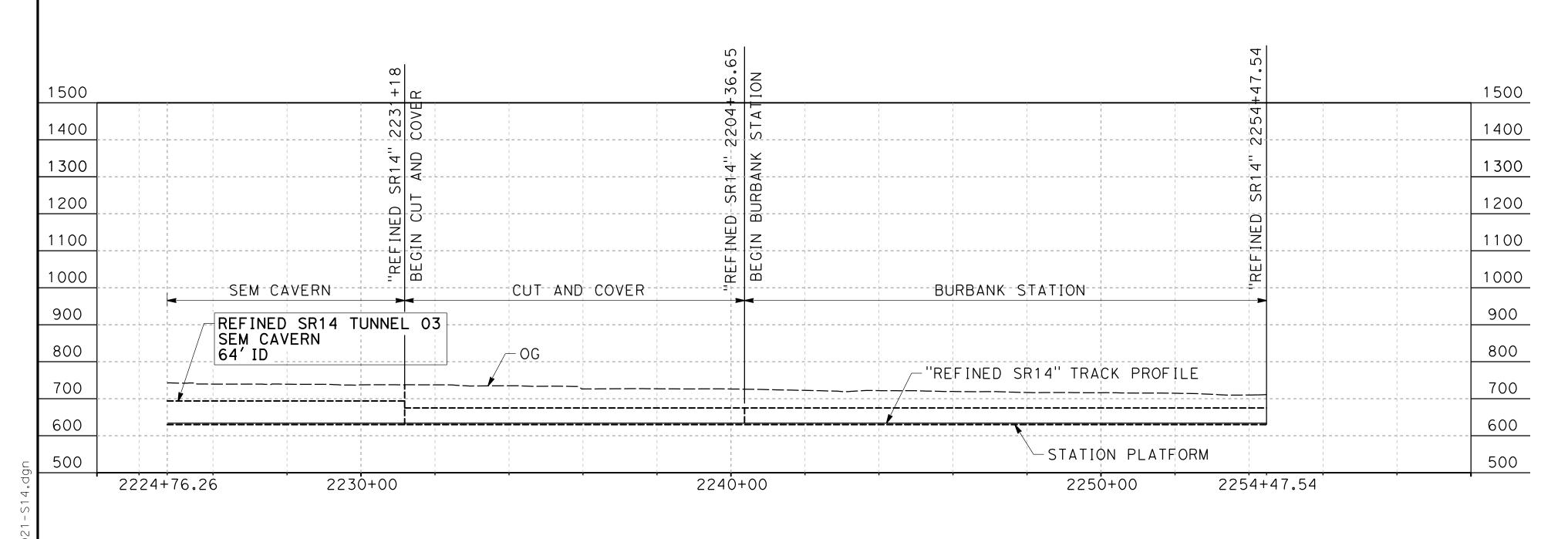


CALIFORNIA HIGH-SPEED RAIL PROJECT PALMDALE TO BURBANK

BURBANK SUBSECTION

PLAN

CONTRACT NO. HSR14-42
TN-D4038-S14
AS SHOWN
SHEET NO.



PROFILE

200 0 200 400 HORIZ I''=200' 200 0 200 400 VERT I''=200'

NOTE: FAULT ZONE

FAULT ZONES LIMITS APPROXIMATE ONLY

							DESIGNED BY E.VELASCO	
							DRAWN BY FJ.DOMINGUEZ	s
							CHECKED BY	DRAF
5240							IN CHARGE A.RELAÑO	
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BURBANK
SUBSECTION

PRAFT PEPD REV01

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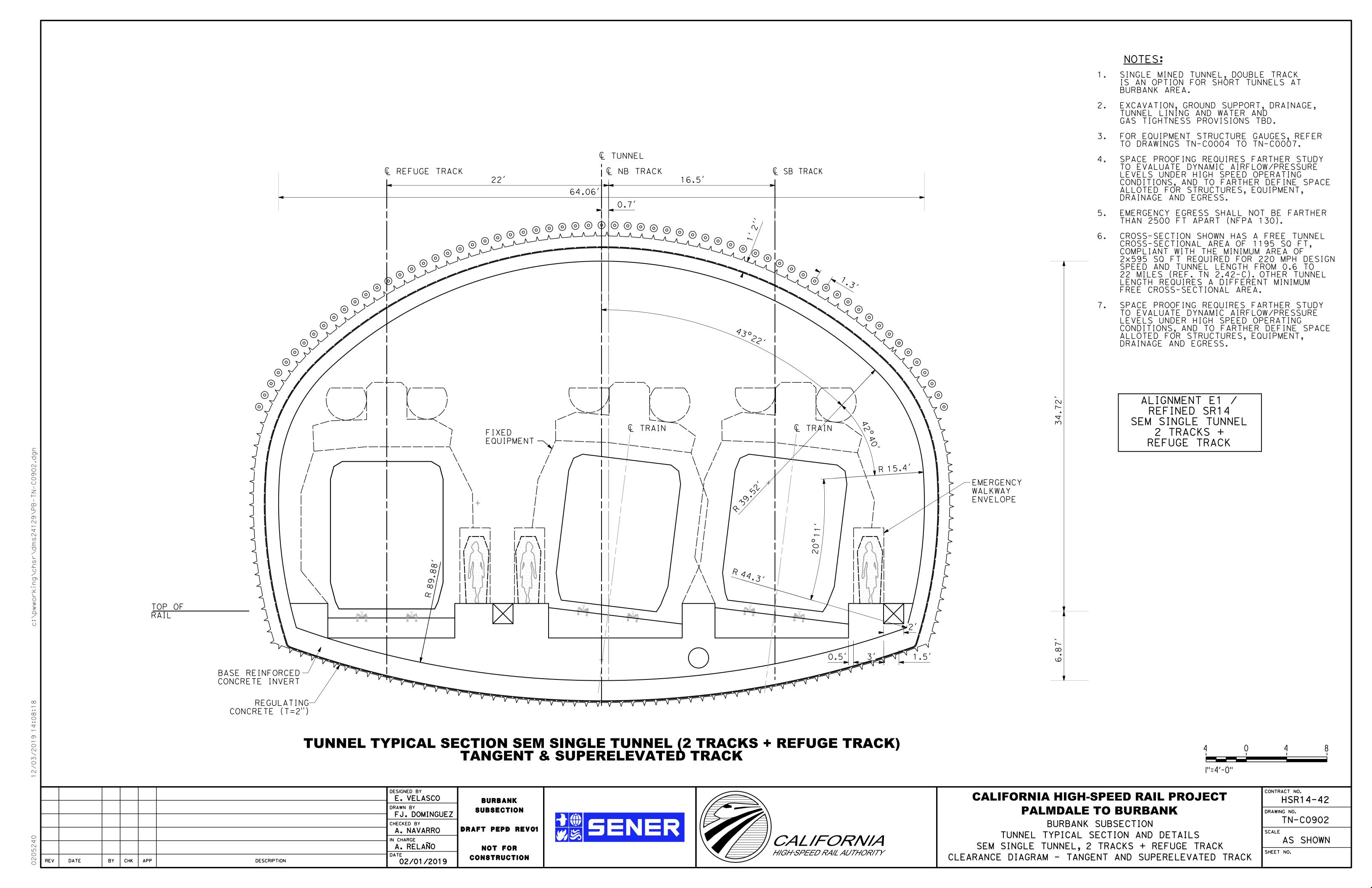




CALIFORNIA HIGH-SPEED RAIL PROJECT PALMDALE TO BURBANK BURBANK SUBSECTION

BURBANK SUBSECTION PROFILE

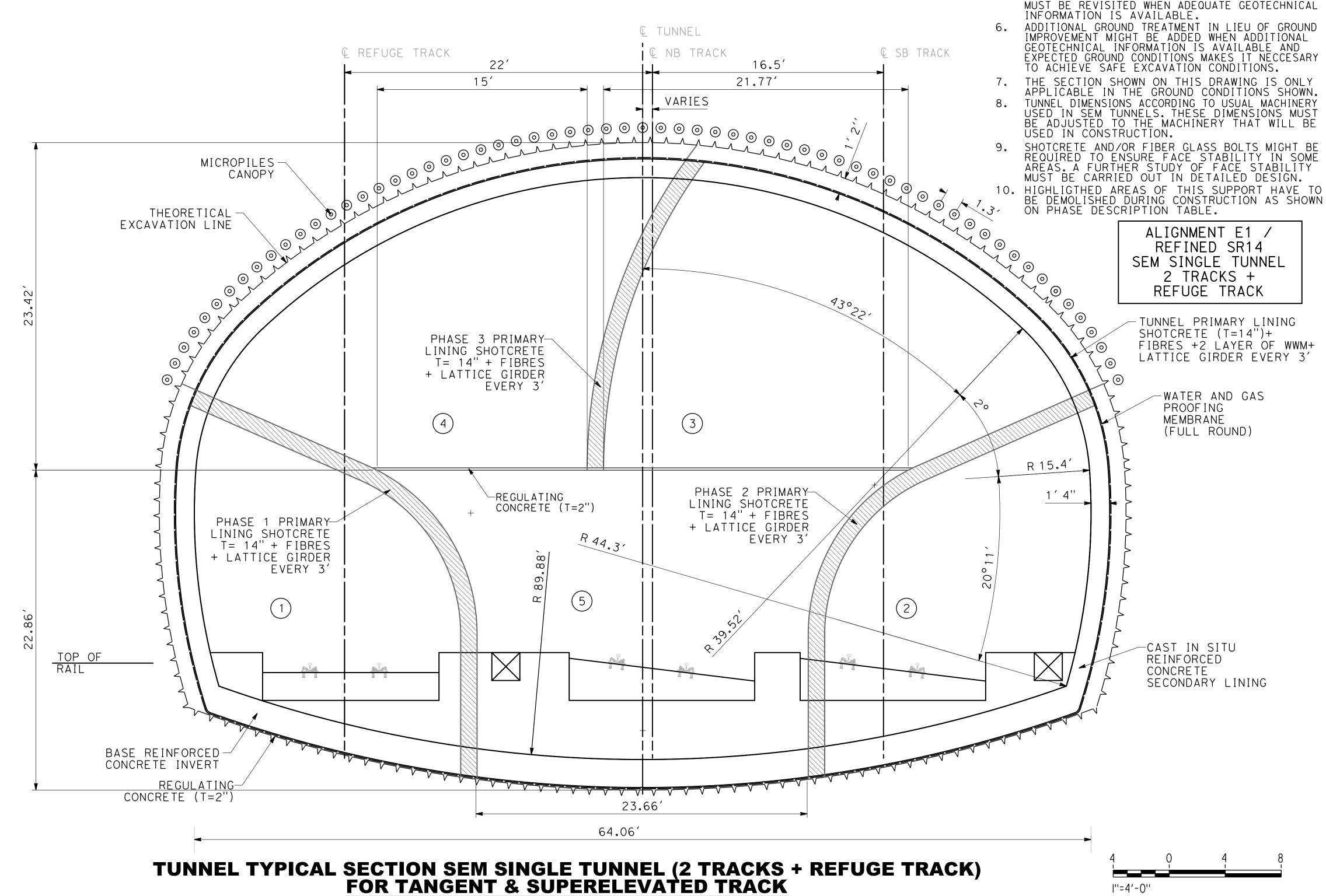
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DRAWING NO. TN-Y1021-S14
SCALE AS SHOWN
SHEET NO.



	BASIC QUAN	TITIES PER FT OF TUNNEL		
		PRIMARY LINING TYPE		
SEM	SINGLE TUNNEL	SEM SINGLE TUNNEL		
EXCA'	VATION AREA T.)	2641.3		
	EL PRIMARY LINING (SQ.FT.)	155.7		
	LATING CONCRETE) (SQ.FT.) (INVERT)	10.6		
LATT	ICE GIRDER (FT)	125/3=41.7		
	R & GAS PROOFING RANE (FT)	185.9		
FORM	WORK (FT)	114		
AREA	NDARY LINING CONCRETE es&crown) (SQ.FT.)	154		
AREA	NDARY LINING CONCRETE ert) (SQ.FT.)	128.5		
	OPILES PY (FT)	83.8		
PHASE PRIMA	E 1, 2,3 ARY LINING (SQ.FT.)	116.4		
PHAS LATT	E 1,2,3 ICE GIRDER (FT)	105.1/3=35		
PHASE 3 AND 4 (SQ.FT.) REGULATING CONCRETE		6.4		
PHASE	PHASE DESCRIPTION			
0	-MICROPILES CANOI	PY INSTALLATION (EVERY 30')		
1&2	-EXCAVATION OF PHASES 1 AND 2, AND APPLICATION CONTROL STABILIZATION LAYER OF SHOTCRETEINSTALLATION OF LATTICE GIRDERS OF PHASES 1 AND -SPRAYING OF REINFORCING SHOTCRETE + 2 LAYERS OF PROOFING MEMBRANE			

PRIMARY LINING (EXAMPLE ONLY, NOT ACTUAL DESIGN)					
DENOMINATION	SHOTCRETE THICKNESS (in)	STEEL ARCHES	REINFORCEMENT	ADVANCE LENGTH (f+)	PIPE CANOPY
*SOIL CONDITIONS	14	LATTICE GIRDER EVERY 3'	FIBRES & 2 LAYERS WWM	3' TOP HEADING AND PHASE1 6' BENCH	YES

*FINE-MEDIUM GRAIN SAND WITH SILT DENSE TO VERY DENSE. NO GROUNDWATER EXPECTED.



PHASE	DESCRIPTION
0	-MICROPILES CANOPY INSTALLATION (EVERY 30')
1&2	-EXCAVATION OF PHASES 1 AND 2, AND APPLICATION OF A STABILIZATION LAYER OF SHOTCRETEINSTALLATION OF LATTICE GIRDERS OF PHASES 1 AND 2SPRAYING OF REINFORCING SHOTCRETE + 2 LAYERS OF WWMINSTALLATION OF WATER AND GAS PROOFING MEMBRANEINSTALLATION OF INNER LINING (SECONDARY). FIRST INVERT AND SECOND SIDE.
3	-EXCAVATION OF PHASE 3 AND APPLICATION OF A STABILIZATION LAYER OF SHOTCRETEINSTALLATION OF LATTICE GIRDERS OF PHASE 3SPRAYING OF REINFORCING SHOTCRETE + 2 LAYERS OF WWMINSTALLATION OF WATER AND GAS PROOFING MEMBRANEINSTALLATION OF INNER LINING (SECONDARY). FIRST INVERT AND SECOND SIDE.
4	-EXCAVATION OF PHASE 4, AND APPLICATION OF A STABILIZATION LAYER OF SHOTCRETEDEMOLITION OF TEMPORAL SUPPORT OF PHASE 3 AND INSTALLATION OF LATTICE GIRDERS OF PHASE 4SPRAYING OF REINFORCING SHOTCRETE + 2 LAYERS OF WWMDEMOLITION OF THE UPPER PART OF TEMPORAL SUPPORT OF PHASES 1 AND 2 -INSTALLATION OF WATER AND GAS PROOFING MEMBRANEINSTALLATION OF INNER LINING (SECONDARY) IN CROWN (PHASES 3 AND 4).
5	-EXCAVATION OF PHASE 5.

*NOTE: DISTANCE BETWEEN EXCAVATION PHASES TO BE DEFINED.

-INSTALLATION OF WATER AND GAS PROOFING MEMBRANE.

-INSTALLATION OF INNER LINING (SECONDARY) IN INVERT.

PHASES 1 AND 2

-DEMOLITION OF THE UPPER PART OF TEMPORAL SUPPORT OF





CALIFORNIA HIGH-SPEED RAIL PROJECT PALMDALE TO BURBANK

NOTES:

1. SINGLE SEM TUNNEL, DOUBLE TRACK IS AN

THIS DRAWING IS NOT ACTUAL DESIGN. ITS

ADEQUATE GEOTECHNICAL INVESTIGATION.

OPTION FOR SHORT TUNNELS AT BURBANK AREA.

PURPOSE IS TO BUILD UNIT PRICES AT PEPD LEVEL. EXCAVATION, GROUND SUPPORT, DRAINAGE, TUNNEL LINING AND WATER AND GAS TIGHTNESS PROVISIONS TBD.

TYPICAL SUPPORT MEASURES AND INNER LINING THICKNESSES ARE GIVEN WITH ORIENTATIVE PURPOSES ONLY. ACTUAL DESIGN WILL REQUIRE RESULTS OF

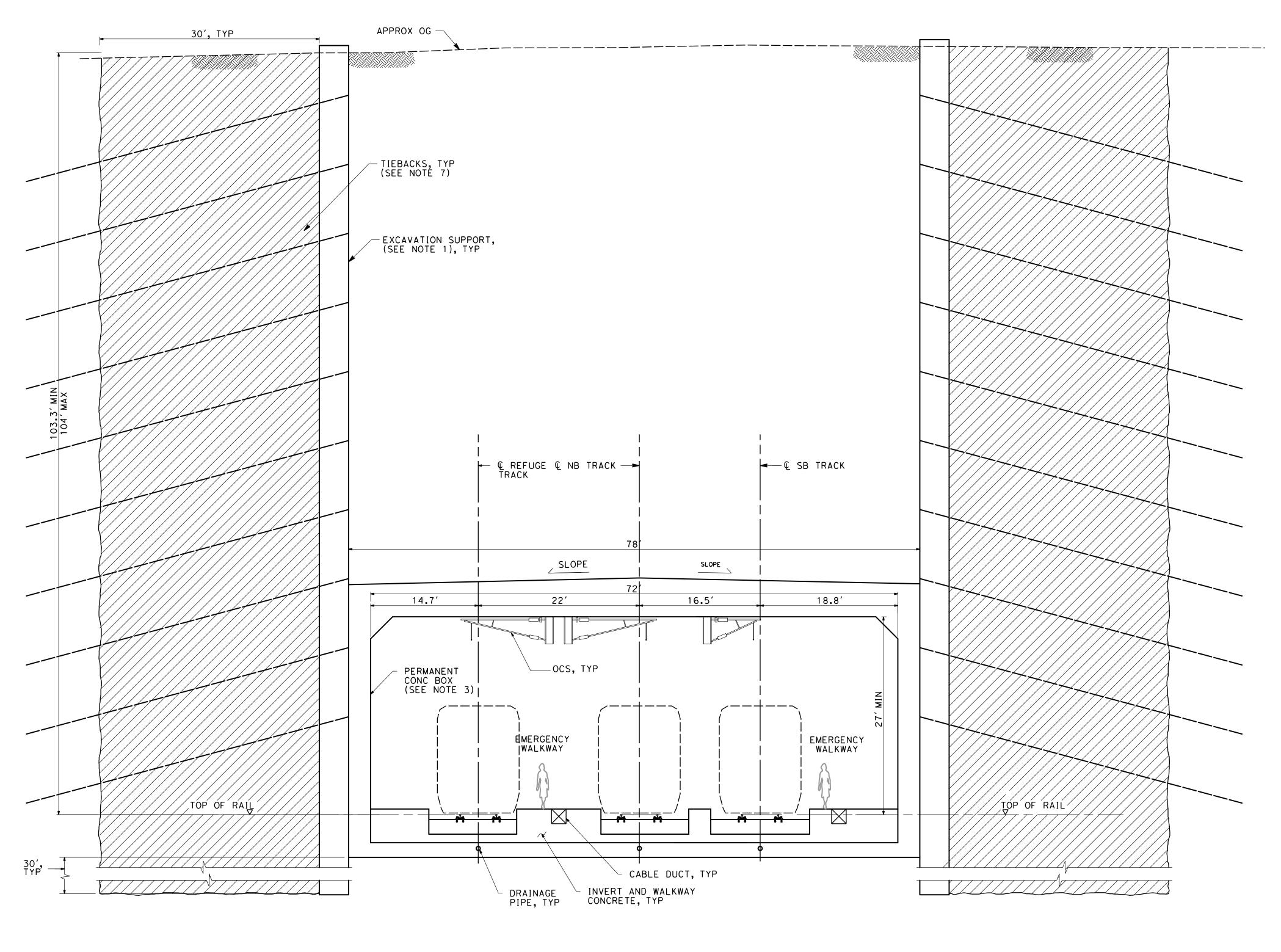
EXCAVATION SEQUENCE AND PHASE (INCLUDING A POSSIBLE SUBDIVISION OF THE TOP HEADING)

BURBANK SUBSECTION

CONSTRUCTION SEQUENCE AND SUPPORT MEASURES SEM SINGLE TUNNEL, 2 TRACKS + REFUGE TRACK

CONTRACT NO.
HSR14-42
DRAWING NO.
TN-C0903
SCALE
AS SHOWN

AS SHOWN
SHEET NO.



NOTES:

- TYPES, LOCATIONS AND DIMENSIONS OF EXCAVATION SUPPORT NOT DESIGNED. RIGID EXCAVATION SUPPORTS WITH TIEBACKS AND TEMPORARY INTERNAL BRACING ANTICIPATED.
- PERMANENT LINING ASSUMED WATERTIGHT/UNDRAINED IN PERMANENT CASE.
- STRUCTURE COMPONENTS ARE NOT DESIGNED. DRAWINGS NOT BASED ON ACTUAL DESIGN AND ARE DEVELOPED FOR PRELIMINARY COST ESTIMATE.
- 4. TRACK, OPENINGS, PLATFORM, STATION LAYOUT, CABLE DUCTS AND DRAINAGE ARE SCHEMATIC AND DO NOT REPRESENT DESIGN.
- 5. EQUIPMENT AND STRUCTURE GAUGES NOT SHOWN. REFER TO DRAWINGS TN-COOO6 AND TN-COOO7 FOR FIXED EQUIPMENT ENVELOPE AND STRUCTURE GAUGE.
- 6. GROUND IMPROVEMENT ANTICIPATED IN THIS AREA. LIMITS OF GROUND IMPROVEMENT TO BE DETERMINED AFTER GEOTECHNICAL INVESTIGATIONS ARE COMPLETED.
- 7. TIEBACKS OR GROUND ANCHORS ARE ANTICIPATED FOR WALLS WITH AN EXPOSED HEIGHT GREATER THAN 20 FT. CANTILEVER SOLDIER PILE WALLS ARE ANTICIPATED FOR WALLS WITH AN EXPOSED HEIGHT LESS THAN 20 FT.
- 8. TYPICAL SECTION ON THIS SHEET IS APPLICABLE AT THE FOLLOWING LOCATIONS:

ALIGNMENT		SUB-SECTION	BEGIN STA	END STA
REFINED	SR14	BURBANK	2231+18.00	2231+77.00

CONSTRUCTION SEQUENCE:

STAGE	DESCRIPTION
0	INSTALL MOVEMENT MONITORING SYSTEMS
1	INSTALL GROUND IMPROVEMENT
2*	INSTALL RIGID EXCAVATION SUPPORT SYSTEMS USING HEAVILY REINFORCED SLURRY WALLS
3A	EXCAVATE IN LIFTS FROM ORIGINAL GROUND
3B	DEWATER AS NEEDED
3C	INSTALL TIEBACKS AND/OR TEMPORARY INTERNAL BRACING AS REQUIRED FOR THE SYSTEM STABILITY
4	REPEAT STAGE 3 TO BOTTOM OF STATION/TUNNEL GRADE SLAB
5	CONSTRUCT BOTTOM GRADE SLAB AND TIE IN TO THE EXCAVATION SUPPORT AS A PERMANENT BRACING SYSTEM
6	CONSTRUCT THE INTERIOR OF THE STATION/TUNNEL (INTERIOR WALLS, SLABS)
7	CONSTRUCT STATION/TUNNEL ROOF SLAB AND TIE IN TO THE EXCAVATION SUPPORT SYSTEM AS PERMANENT BRACING SYSTEM
8	WATERPROOF THE ROOF SLAB, BACKFILL AND RESTORE THE GROUND

* SLURRY WALLS ARE ONE TYPE OF COMMON RIGID EXCAVATION SUPPORT SYSTEM. OTHER SUITABLE RIGID EXCAVATION SUPPORT SYSTEMS SUCH AS TANGENT/SECANT PILES MIGHT BE CONSIDERED FOR THIS LOCATION. HEAVY REINFORCEMENT WILL BE REQUIRED.

LEGEND:

GROUND IMPROVEMENT ZONE (SEE NOTE 6)

TYPICAL SECTION - 2 TRACKS + REFUGE TRACK



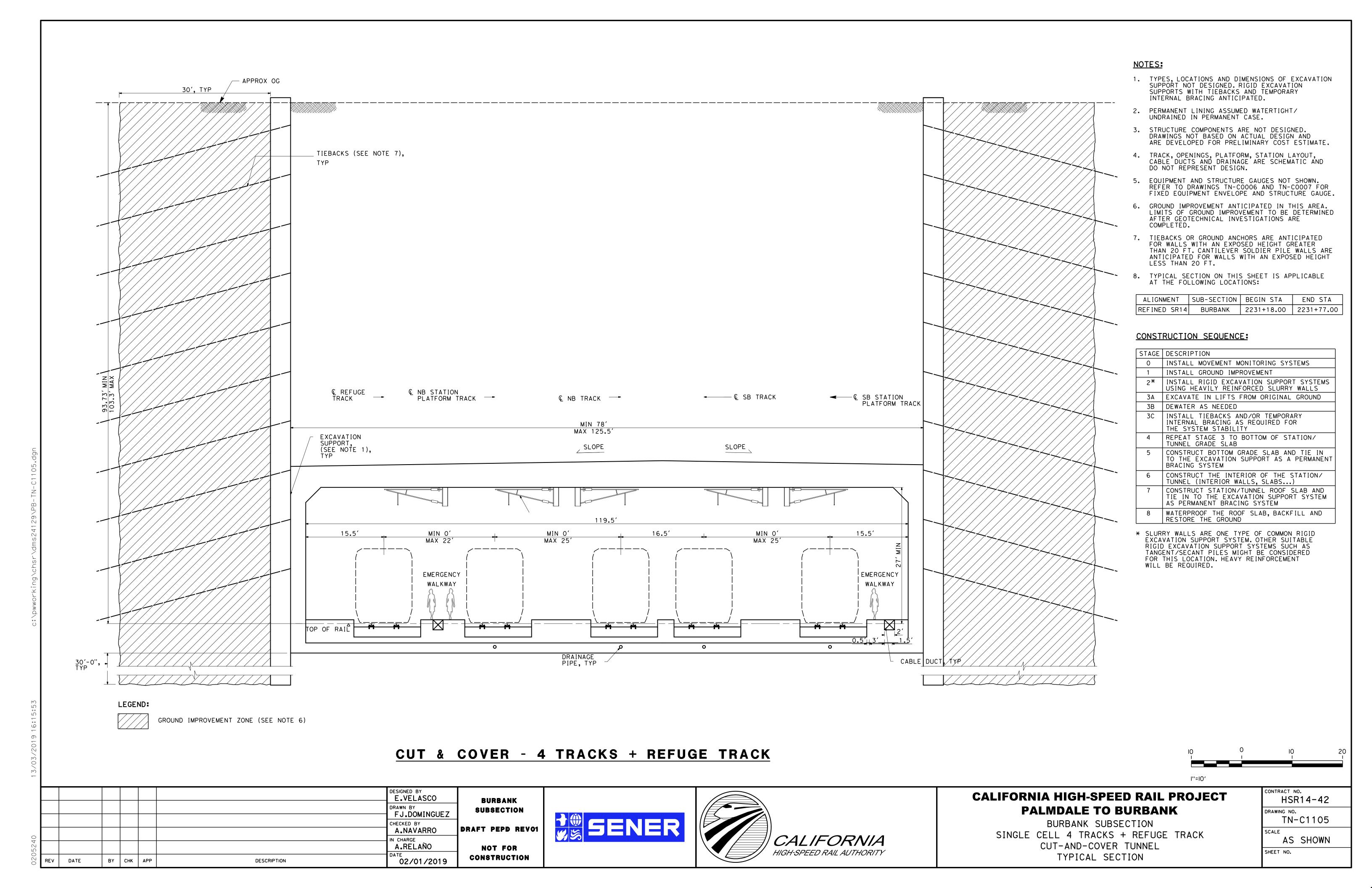


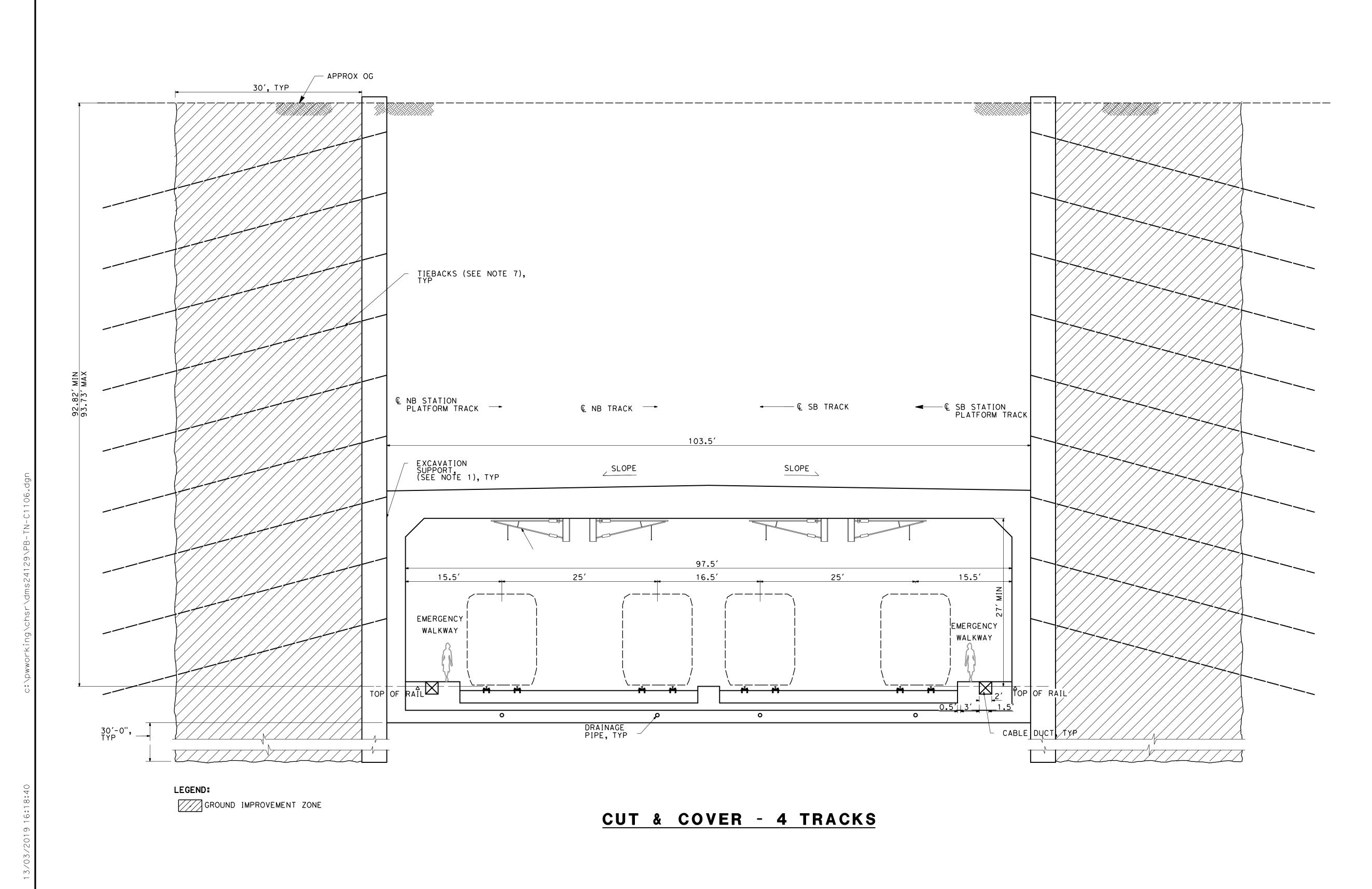
CALIFORNIA HIGH-SPEED RAIL PROJECT PALMDALE TO BURBANK

BURBANK SUBSECTION
SINGLE CELL BOX 2 TRACKS + REFUGE TRACK
CUT-AND-COVER TUNNEL
TYPICAL SECTION

DRAWING NO.
TN-C1104

SCALE AS SHOWN
SHEET NO.





NOTES:

- 1. TYPES, LOCATIONS AND DIMENSIONS OF EXCAVATION SUPPORT NOT DESIGNED. RIGID EXCAVATION SUPPORTS WITH TIEBACKS AND TEMPORARY INTERNAL BRACING ANTICIPATED.
- PERMANENT LINING ASSUMED WATERTIGHT/ UNDRAINED IN PERMANENT CASE.
- 3. STRUCTURE COMPONENTS ARE NOT DESIGNED. DRAWINGS NOT BASED ON ACTUAL DESIGN AND ARE DEVELOPED FOR PRELIMINARY COST ESTIMATE.
- TRACK, OPENINGS, PLATFORM, STATION LAYOUT, CABLE DUCTS AND DRAINAGE ARE SCHEMATIC AND DO NOT REPRESENT DESIGN.
- 5. EQUIPMENT AND STRUCTURE GAUGES NOT SHOWN.
 REFER TO DRAWINGS TN-COOO6 AND TN-COOO7 FOR
 FIXED EQUIPMENT ENVELOPE AND STRUCTURE GAUGE.
- 6. GROUND IMPROVEMENT ANTICIPATED IN THIS AREA. LIMITS OF GROUND IMPROVEMENT TO BE DETERMINED AFTER GEOTECHNICAL INVESTIGATIONS ARE COMPLETED.
- 7. TIEBACKS OR GROUND ANCHORS ARE ANTICIPATED FOR WALLS WITH AN EXPOSED HEIGHT GREATER THAN 20 FT. CANTILEVER SOLDIER PILE WALLS ARE ANTICIPATED FOR WALLS WITH AN EXPOSED HEIGHT LESS THAN 20 FT.
- 8. TYPICAL SECTION ON THIS SHEET IS APPLICABLE AT THE FOLLOWING LOCATIONS:

ALIGNMENT	SUB-SECTION	BEGIN STA	END STA
REFINED SR14	BURBANK	2231+18.00	2231+77.00

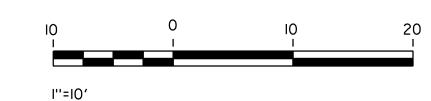
CONSTRUCTION SEQUENCE:

STAGE	DESCRIPTION
0	INSTALL MOVEMENT MONITORING SYSTEMS
1	INSTALL GROUND IMPROVEMENT
2*	INSTALL RIGID EXCAVATION SUPPORT SYSTEMS USING HEAVILY REINFORCED SLURRY WALLS
3A	EXCAVATE IN LIFTS FROM ORIGINAL GROUND
3B	DEWATER AS NEEDED
3C	INSTALL TIEBACKS AND/OR TEMPORARY INTERNAL BRACING AS REQUIRED FOR THE SYSTEM STABILITY
4	REPEAT STAGE 3 TO BOTTOM OF STATION/ TUNNEL GRADE SLAB
5	CONSTRUCT BOTTOM GRADE SLAB AND TIE IN TO THE EXCAVATION SUPPORT AS A PERMANENT BRACING SYSTEM
6	CONSTRUCT THE INTERIOR OF THE STATION/ TUNNEL (INTERIOR WALLS, SLABS)
7	CONSTRUCT STATION/TUNNEL ROOF SLAB AND TIE IN TO THE EXCAVATION SUPPORT SYSTEM

* SLURRY WALLS ARE ONE TYPE OF COMMON RIGID EXCAVATION SUPPORT SYSTEM. OTHER SUITABLE RIGID EXCAVATION SUPPORT SYSTEMS SUCH AS TANGENT/SECANT PILES MIGHT BE CONSIDERED FOR THIS LOCATION. HEAVY REINFORCEMENT WILL BE REQUIRED.

WATERPROOF THE ROOF SLAB, BACKFILL AND RESTORE THE GROUND

AS PERMANENT BRACING SYSTEM



CALIFORNIA HIGH-SPEED RAIL PROJECT PALMDALE TO BURBANK

BURBANK SUBSECTION CUT-AND-COVER TUNNEL TYPICAL SECTION

CONTRACT NO. HSR14-42 DRAWING NO. TN-C1106 SCALE AS SHOWN

SHEET NO.

SINGLE CELL 4 TRACKS

DESCRIPTION

BY CHK APP

BURBANK SUBSECTION DRAFT PEPD REV01 NOT FOR

CONSTRUCTION

DESIGNED BY

CHECKED BY

N CHARGE

E. VELASCO

A. NAVARRO

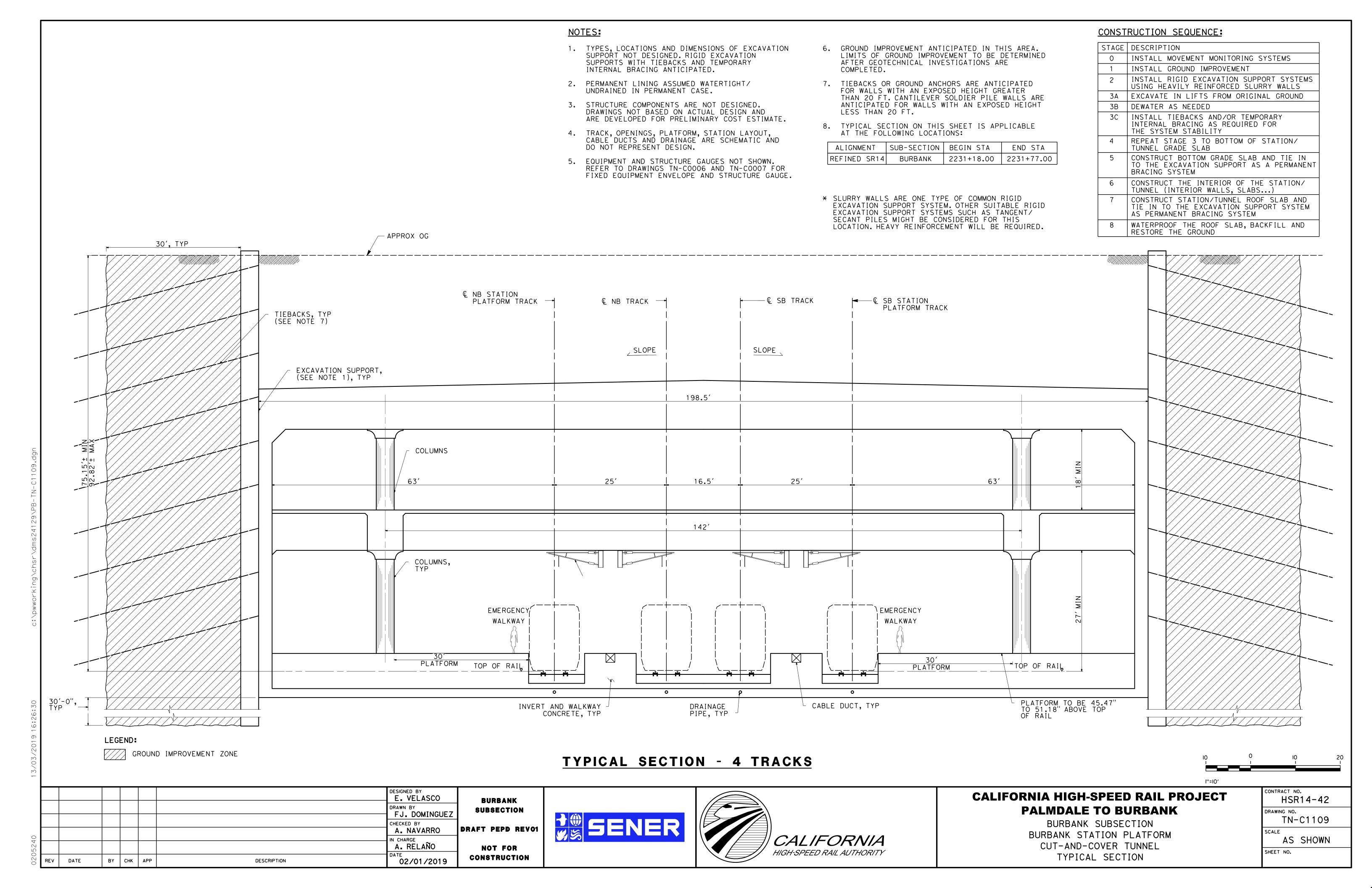
A. RELAÑO

02/01/2019

FJ. DOMINGUEZ







California High-Speed Rail Authority

Burbank Subsection



BURBANK SUBSECTION

DRAWING NO.	DRAWING DESCRIPTION	SHEET NO.
UT-B0001-BUR	BURBANK SUBSECTION - RELOCATION UTILITY PLANS - INDEX OF DRAWINGS	
UT-B0002-BUR	BURBANK SUBSECTION - RELOCATION UTILITY PLANS - ABBREVIATIONS AND LEGEND	
UT-B0003-BUR	BURBANK SUBSECTION - RELOCATION UTILITY PLANS - KEY MAP	
UT-C4086-BUR	BURBANK SUBSECTION - RELOCATION UTILITY PLANS - STA 2215+00 TO STA 2230+00	
UT-C4087-BUR	BURBANK SUBSECTION - RELOCATION UTILITY PLANS - STA 2230+00 TO STA 2254+47.54	

							DESIGNED BY A.TRONCOSO	BURBANK
							DRAWN BY L.GUERRERO	SUBSECTION
							CHECKED BY N.TIZANI	DRAFT PEPD REVOI
S							IN CHARGE A.RELANO	NOT FOR
ASN	REV	DATE	BY	СНК	APP	DESCRIPTION	DATE 02/28/2019	CONSTRUCTION





CALIFORNIA HIGH-SPEED RAIL PROJECT PALMDALE TO BURBANK

BURBANK SUBSECTION

RELOCATION UTILITY PLANS INDEX OF DRAWINGS

CONTRACT NO. HSR14-42
DRAWING NO. UT-BOOO1-BUF
SCALE NO SCALE

SHEET NO.

LEGEND AND SYMBOLS **ABBREVIATIONS** UTILITY OWNERS PROPOSED EXISTING DESCRIPTION ABN ABANDON AIR TOUCH **PROP** PROPOSED AIR TOUCH CELLULAR ACP ASBESTOS CEMENT PIPE ANTELOPE VALLEY - E. KERN WATER AVEK W PROPOSED PERMANENT ENVIRONMENTAL FOOTPRINT **PPEF** ALT ALTERNATIVE AT&T DIST AT&T DISTRIBUTION PS POWER STATION APPROXIMATE APPROX AT&T TRANS AT&T TRANSMISSION — fo— — — fo— — — FIBER OPTIC UNDERGROUND **AVENUE** AVE RADIUS BURBANK GLENDALE PASADENA BURBANK AIRPORT — fo— — — (OH)— — FIBER OPTIC OVERHEAD RCP REINFORCED CONCRETE PIPE AIRPORT AUTHORITY BEGIN BWP RD BURBANK WATER & POWER ROAD BLDG BUILDING --g-----NATURAL GAS REINF REINFORCED, REINFORCEMENT, CENTURY L CENTURYLINK BOULEVARD BLVD REINFORCING CITY OF BURBANK CITY OF BURBANK BLOW-OFF BO REL RELOCATE CITY OF GLENDALE CITY OF GLENDALE REPL REPLACEMENT CITY OF LOS ANGELES -CITY OF LA CB CATCH BASIN R/W. ROW RIGHT OF WAY RECORDS SECTION CD CURB DRAIN RTRIGHT CITY OF SC CITY OF SANTA CLARITA CALIFORNIA HIGH-SPEED RAIL CHSR RTE ROUTE CITY OF PALMDALE CITY OF PALMDALE CIP CAST IRON PIPE CITY OF S FERNANDO CITY OF SAN FERNANDO SOUTH CLEAR CHANNEL CLEAR CHANNEL OUTDOOR CENTERLINE SB SOUTHBOUND CROWN CASTLE CROWN CASTLE CORRUGATED METAL PIPE CMP SOUTHERN CALIFORNIA REGIONAL EL DORADO MUTUAL WATER RAIL AUTHORITY EL DORADO MWC CABLE TELEVISION CTV COMPANY STORM DRAIN STATE ROUTE EXXON MOBIL PIPELINE CO EXXON DEPTH ST STREET LACDPW LA COUNTY DEPARTMENT OF PUBLIC WORKS DRAINAGE INLET, DROP INLET STA STATION LACDPW-WW LA COUNTY WATER WORKS DIAMETER DIA STBB SINGLE THRIE BEAM BARRIER DUCTILE IRON PIPE LACSD LOS ANGELES COUNTY SANITATION DISTRICT STANDARD STD LADWP LOS ANGELES DEPARTMENT OF WATER & POWER DRAWING DWG STR STRUCTURE LEVEL 3 LEVEL 3 COMMUNICATIONS SRS STAND ALONE RADIO SITE LIBERMAN BROADCASTING ED EDGE DRAIN LIBERMAN SIDEWALK, SOUND WALL SW EDC EDGE DRAIN CLEANOUT HSR TRACK CENTERLINE NEWHALL CW NEWHALL COUNTY WATER SEWER 230'+00 EDO EDGE DRAIN OUTLET ---- PERMANENT ENVIRONMENTAL FOOTPRINT MARCUS MARCUS CABLE EDV EDGE DRAIN VENT TEL TELEPHONE MCI (VERIZON BUSINESS) MCI ---- TEMPORARY ENVIRONMENTAL FOOTPRINT ELEC ELECTRIC **TEMP** TEMPORARY METROPOLITAN WATER DISTRICT MWD ELEV ELEVATION ---- FUTURE TRACK CENTERLINE TOT TOTAL ENVIRONMENTAL ENV ----- NATIONAL FOREST BOUNDARY PALMDALE WD PALMDALE WATER DISTRICT ΤP TELEPHONE POLE EXISTING EXIST PAAP PLAINS ALL AMERICAN PIPELINE PTC TOWER TRACTION POWER SUPPLY STATION **TPSS** EXP EXPANSION PPS PACIFIC PIPELINE TERMINAL STORAGE AND MAINTENANCE FACILITY **TSMF** WELL LOCATION WĔLL PT & T PACIFIC TEL & TELEGRAPH TYP TYPICAL POWER TRANSMISSION TOWER FLOW LINE QWEST QWEST COMMUNICATION FIBER OPTIC FΟ HEADWALL --- sd-SCWC SANTA CLARITA WATER CO UNDERGROUND UG FΡ FOOTPRINT TRACK SWITCH SCE TEL SC EDISON - TELECOM UNK UNKNOWN SCE DIST SC EDISON - DIST/TELECOM STRUCTURES (BRIDGE, VIADUCT) UNION PACIFIC RAILROAD GAS **UPRR** SCE SOUTHERN CALIFORNIA EDISON (#)KEY NOTE GALVANIZED SCG SC GAS - LANCASTER WATER, WEST, WIDTH HDC HIGH DESERT CORRIDOR SCG TRANS SC GAS - TRANSMISSION WESTBOUND Р PUMP STATION HSR HIGH-SPEED RAIL SC GAS VICT - TRANSMISSION WATER MAIN SUNESYS, LLC SUNESYS WSP WELDED STEEL PIPE INV INVERT SPRINT SPRINT WEIGHT IRR IRRIGATION SPV WC SPV WATER COMPANY W٧ WATER VALVE CA DWR STATE DEPARTMENT WATER **GENERAL NOTES** LENGTH RESOURCES LT LEFT TESORO **TESORO** 1. EXISTING UTILITIES IDENTIFIED WITH THE DISPOSITIONS 'RELOCATE', LIGHT MAINTENANCE FACILITY LMF 'REMOVE' OR 'PROTECT IN PLACE' PERTAIN TO THAT PORTION OF THE T-MOBILE T-MOBILE USA UTILITY THAT IS LOCATED WITHIN THE PROPOSED, PERMANENT HSR MAX MAXIMUM TWC TIME WARNER CABLE RIGHT-OF-WAY MIN MINIMUM VERIZON VERIZON - IRWINDALE ΜT MAIN TRACK WSP MWC WEST SIDE PARK MUTUAL WATER COMPANY NORTH NB NORTHBOUND WILSHIRE CONN WILSHIRE CONNECTION LLC XO COMM XO COMMUNICATIONS PROP PROPOSED ZAYO FNA ABOVENET ZAYO POWER STATION P.S.

•								
							DESIGNED BY A.TRONCOSO	
							DRAWN BY L.GUERRERO	
							CHECKED BY	D
9 エコク							IN CHARGE A.RELANO	
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BURBANK
SUBSECTION

DRAFT PEPD REV01

NOT FOR

CONSTRUCTION





CALIFORNIA HIGH-SPEED RAIL PROJECT PALMDALE TO BURBANK

ALIGNMENT "BUR"

RELOCATION UTILITY PLANS ABBREVIATIONS AND LEGEND

DRAWING NO.

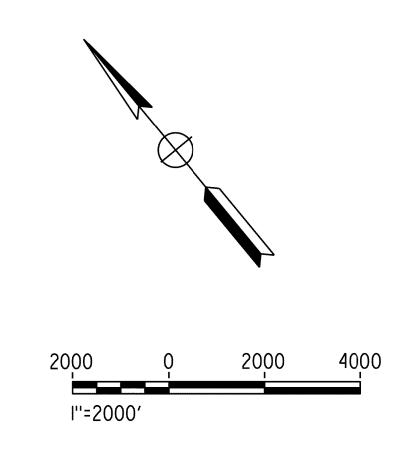
UT-B0002-BUR

SCALE

NO SCALE

SHEET NO.





			_				
						DESIGNED BY A.TRONCOSO	BURBANK
						DRAWN BY L.GUERRERO	SUBSECTION
						CHECKED BY	DRAFT PEPD REVO1
р С						IN CHARGE A.RELANO	NOT FOR
REV	DATE	BY	СНК	APP	DESCRIPTION	DATE 02/28/2019	CONSTRUCTION

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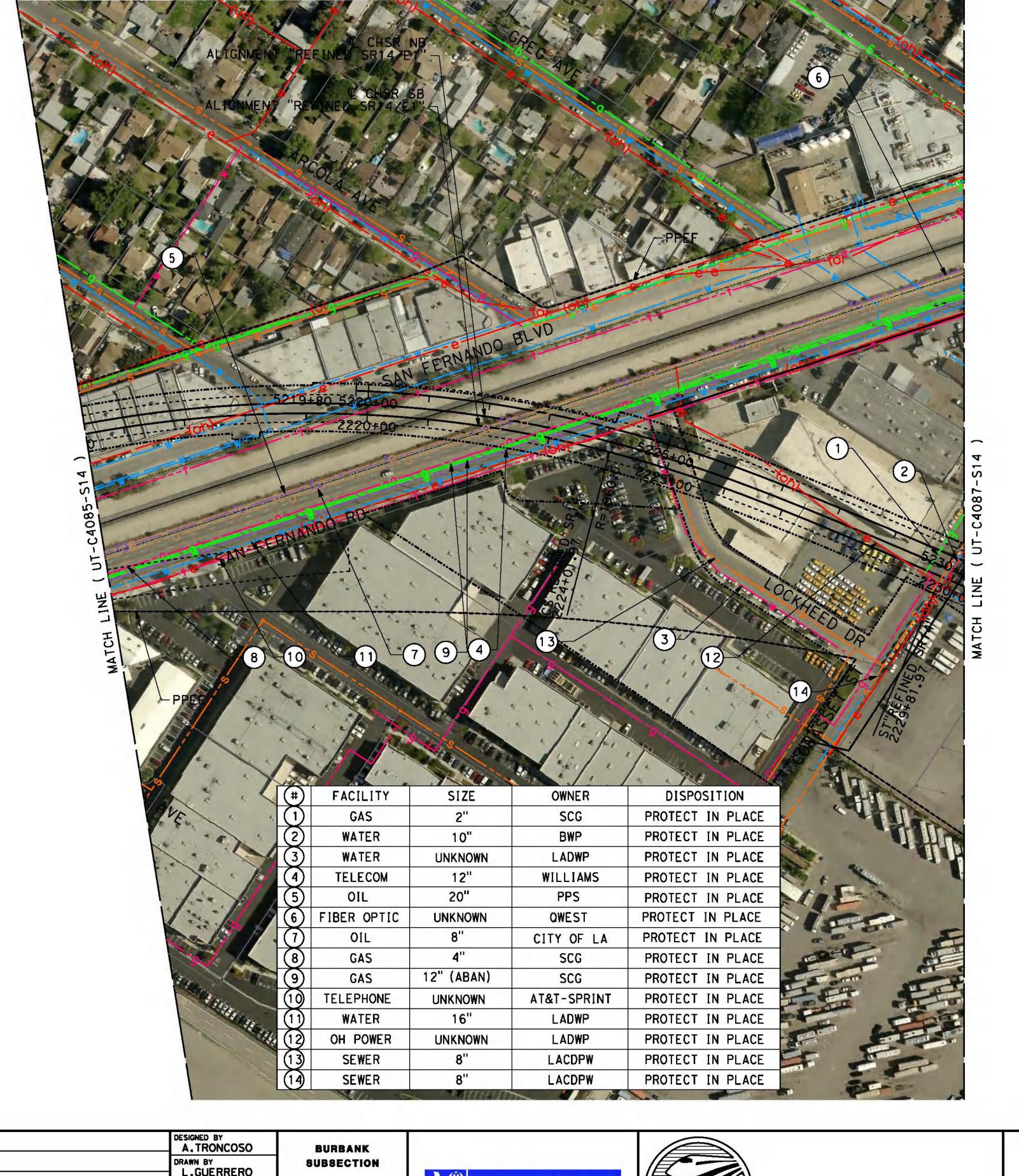


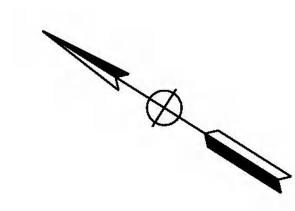
CALIFORNIA HIGH-SPEED RAIL PROJECT PALMDALE TO BURBANK

BURBANK SUBSECTION

RELOCATION UTILITY PLANS KEY MAP

CONTRACT NO. HSR14-42
DRAWING NO. UT-B0003-BUR
SCALE
AS SHOWN
SHEET NO.





			IN CHARGE A.RELANO DATE	
			CHECKED BY N.TIZANI	DI
			DRAWN BY L.GUERRERO	
			DESIGNED BY A.TRONCOSO	

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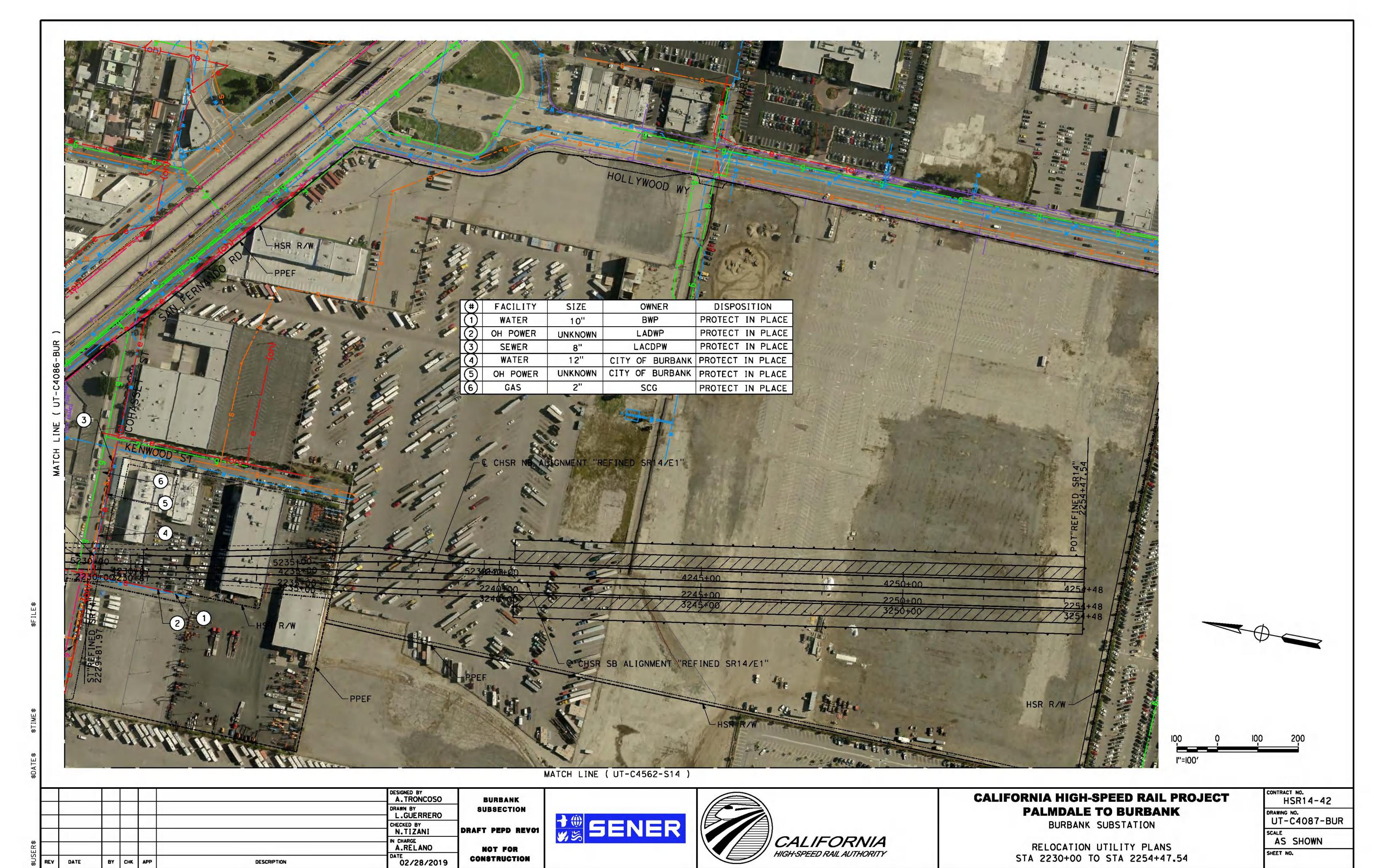


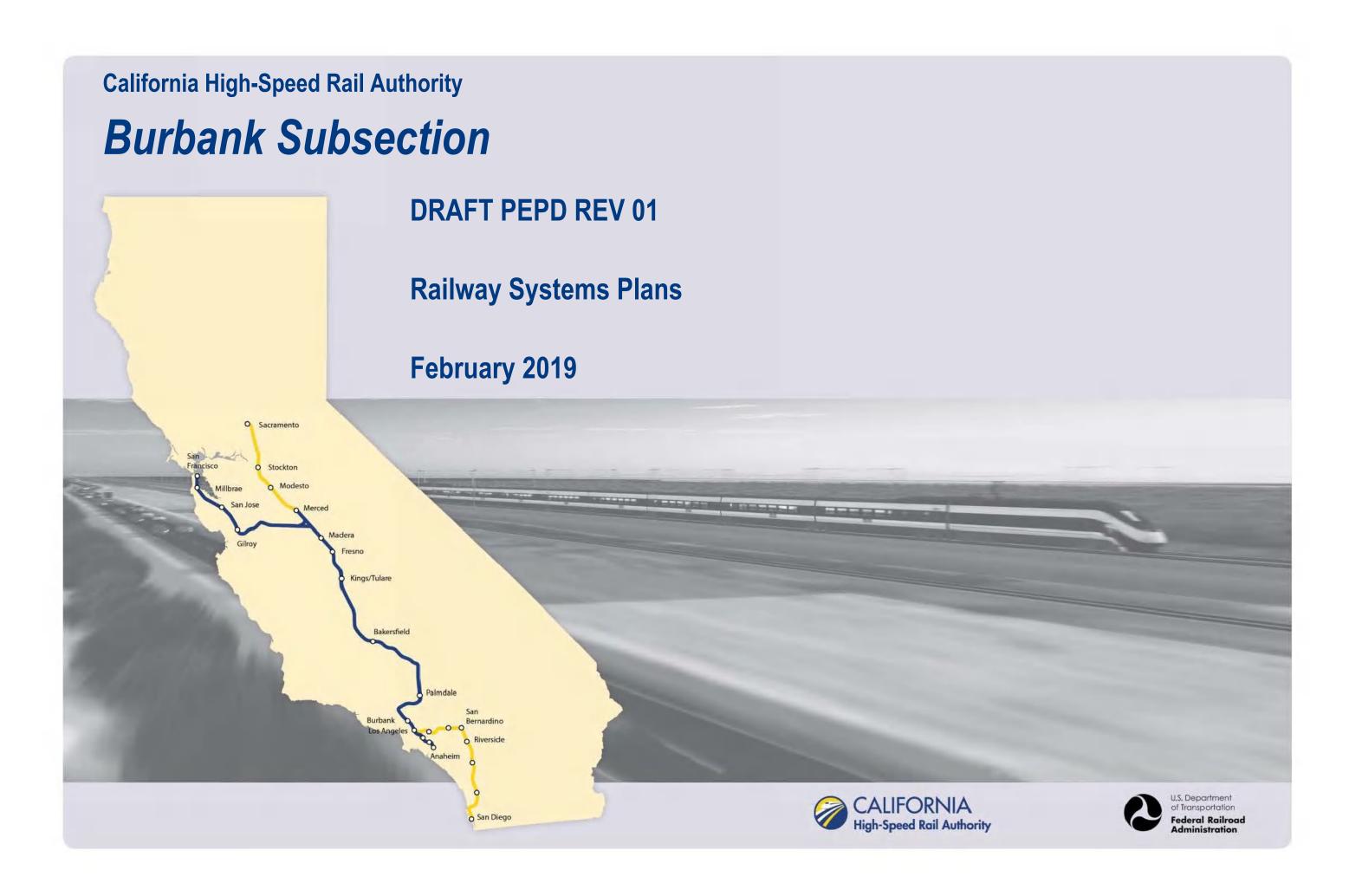
CALIFORNIA HIGH-SPEED RAIL PROJECT PALMDALE TO BURBANK

BURBANK SUBSTATION

RELOCATION UTILITY PLANS STA 2215+00 TO STA 2230+00

CONTRACT NO.
HSR14-42
DRAWING NO. UT-C4086-BUR
SCALE AS SHOWN
SHEET NO.





GENERAL SHEETS

DRAWING NO.	DRAWING DESCRIPTION	SHEET	NO.
TP-B0001	INDEX OF DRAWINGS		
TP-B0002	ABBREVIATIONS		
TP-B0003	ABBREVIATIONS AND LEGEND		

CHSR ALIGNMENT "REFINED SR14" RAILWAY SYSTEMS AND FACILITIES

DRAWING NO.	DRAWING DESCRIPTION	SHEET NO.
TP-D0001-S14	TRACTION POWER FACILITIES - LOCATION LAYOUT	

BURBANK AIRPORT STATION TYPICAL SECTIONS AND LAYOUTS

DRAWING NO.	DRAWING DESCRIPTION	SHEET NO.
TP-04008-S14	TRACTION POWER FACILITIES - PARALLELING STATION 7	

TRAIN CONTROL SYSTEM

DRAWING NO.	DRAWING DESCRIPTION	SHEET	NO.
TC-E6005	INTERLOCKING SITES - BURBANK STATION		
TC-B6001-S14	RAILWAY SYSTEMS - KEY MAP		
TC-F5001-S14	INTERLOCKING SITES - STA 2233+00 TO STA 2245+00		

							DESIGNED BY R. RODRIGUEZ	BURBANK
							DRAWN BY FJ. DOMINGUEZ	SUBSECTION
							CHECKED BY	DRAFT PEPD REVO
2							IN CHARGE	DRAFT PEPD REVU
706.							A. RELAÑO	NOT FOR
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CALIFORNIA HIGH-SPEED RAIL PROJECT PALMDALE TO BURBANK

BURBANK SUBSECTION ALIGNMENT "REFINED SR14" **GENERAL** INDEX OF DRAWINGS

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

SHEET NO.

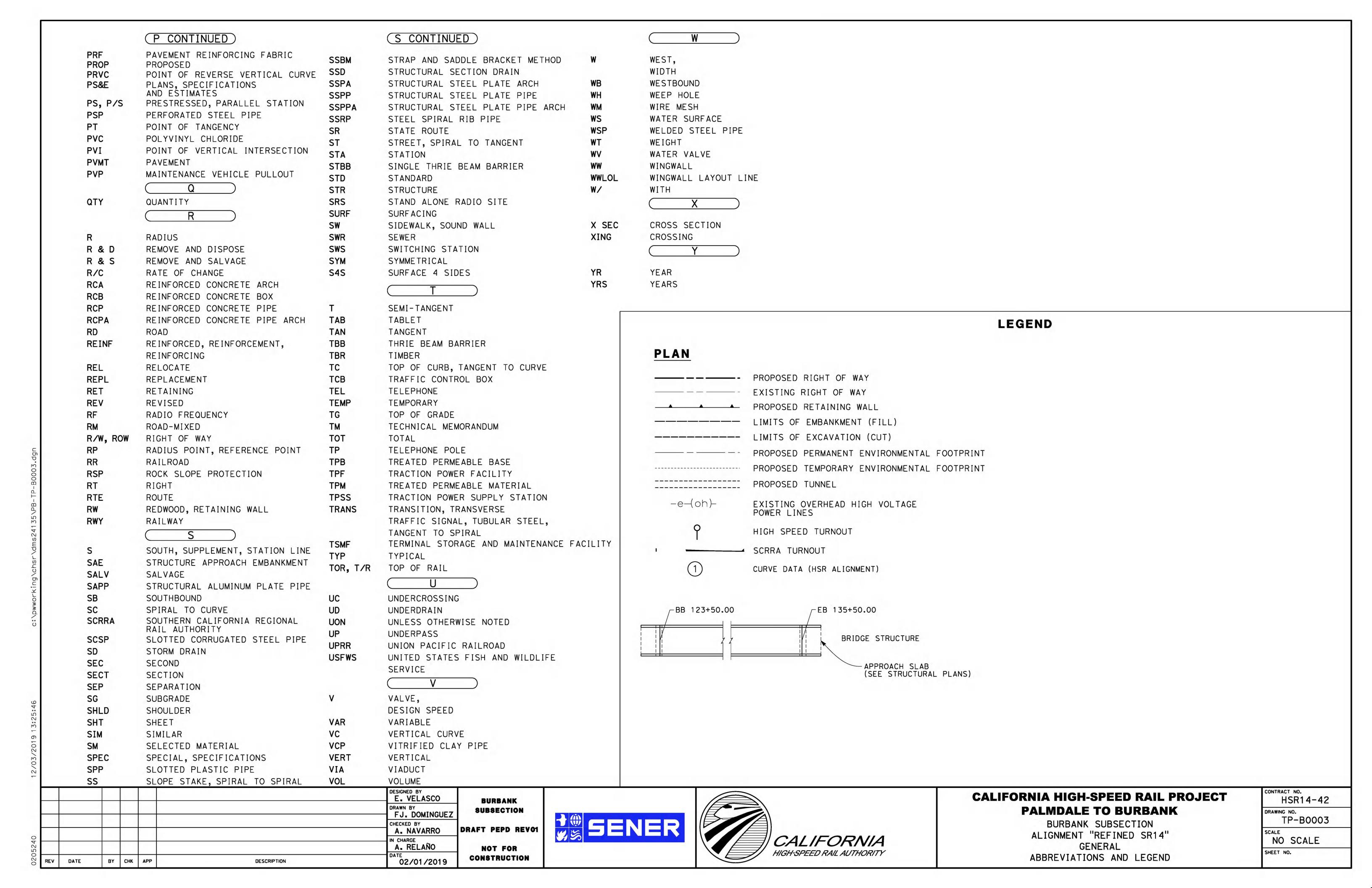
CONSTRUCTION

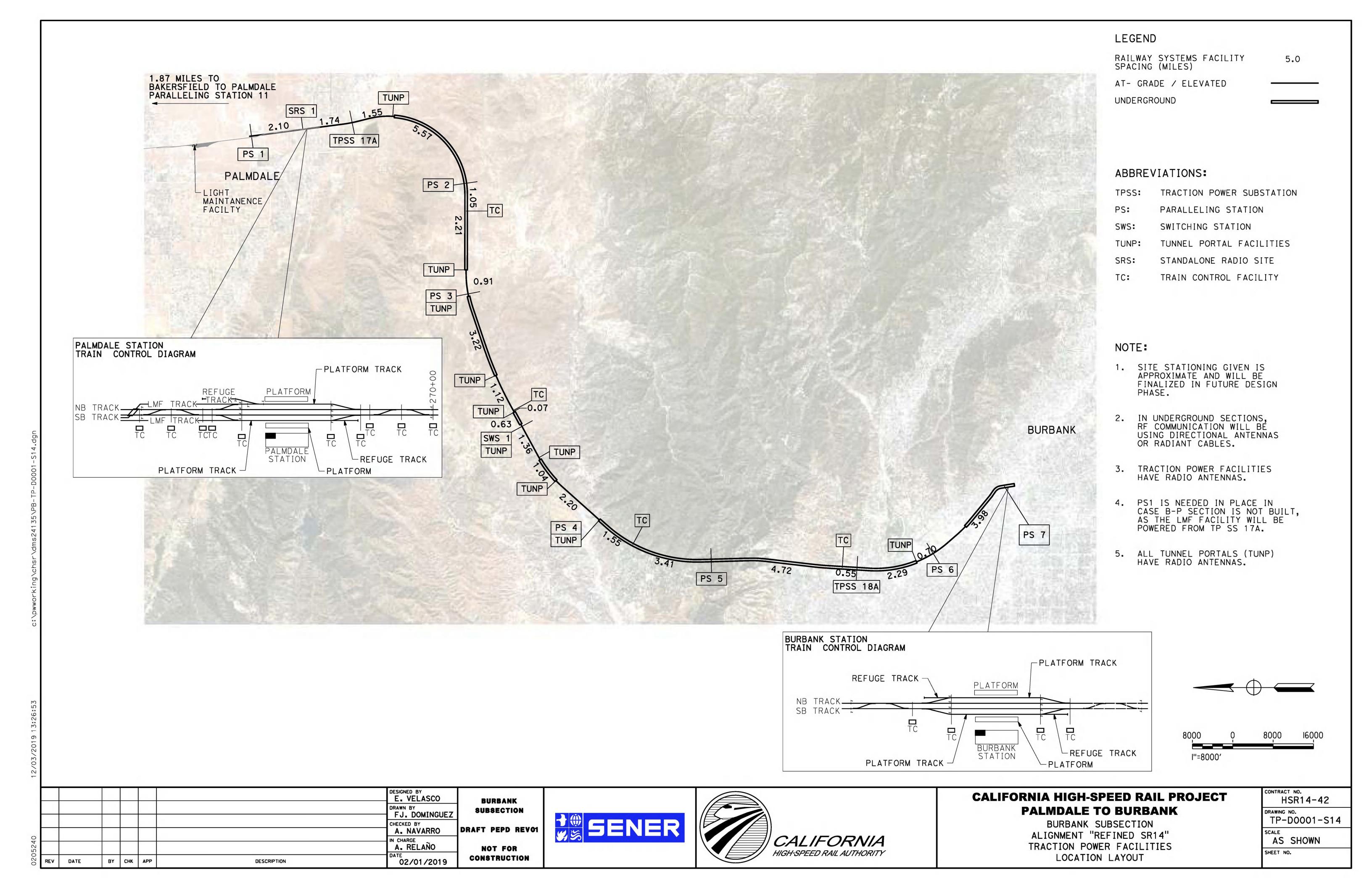
02/01/2019

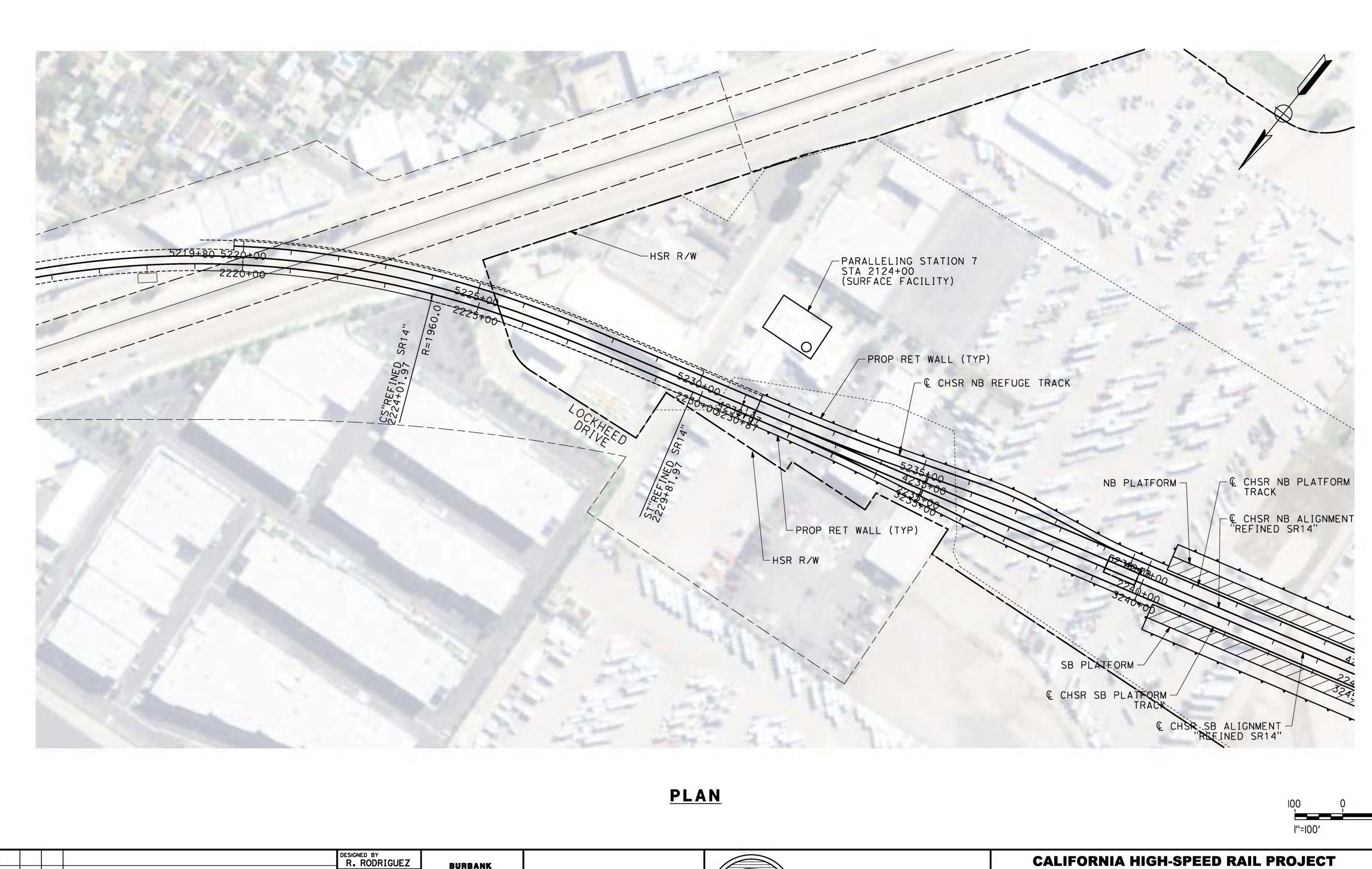
BY CHK APP

DESCRIPTION

ABBREVIATIONS







BY CHK APP

DESCRIPTION

BURBANK DRAWN BY
FJ. DOMINGUEZ SUBSECTION DRAFT PEPD REV01 NOT FOR

CONSTRUCTION

CHECKED BY

A. NAVARRO

IN CHARGE A RELAÑO

DATE 02/01/2019

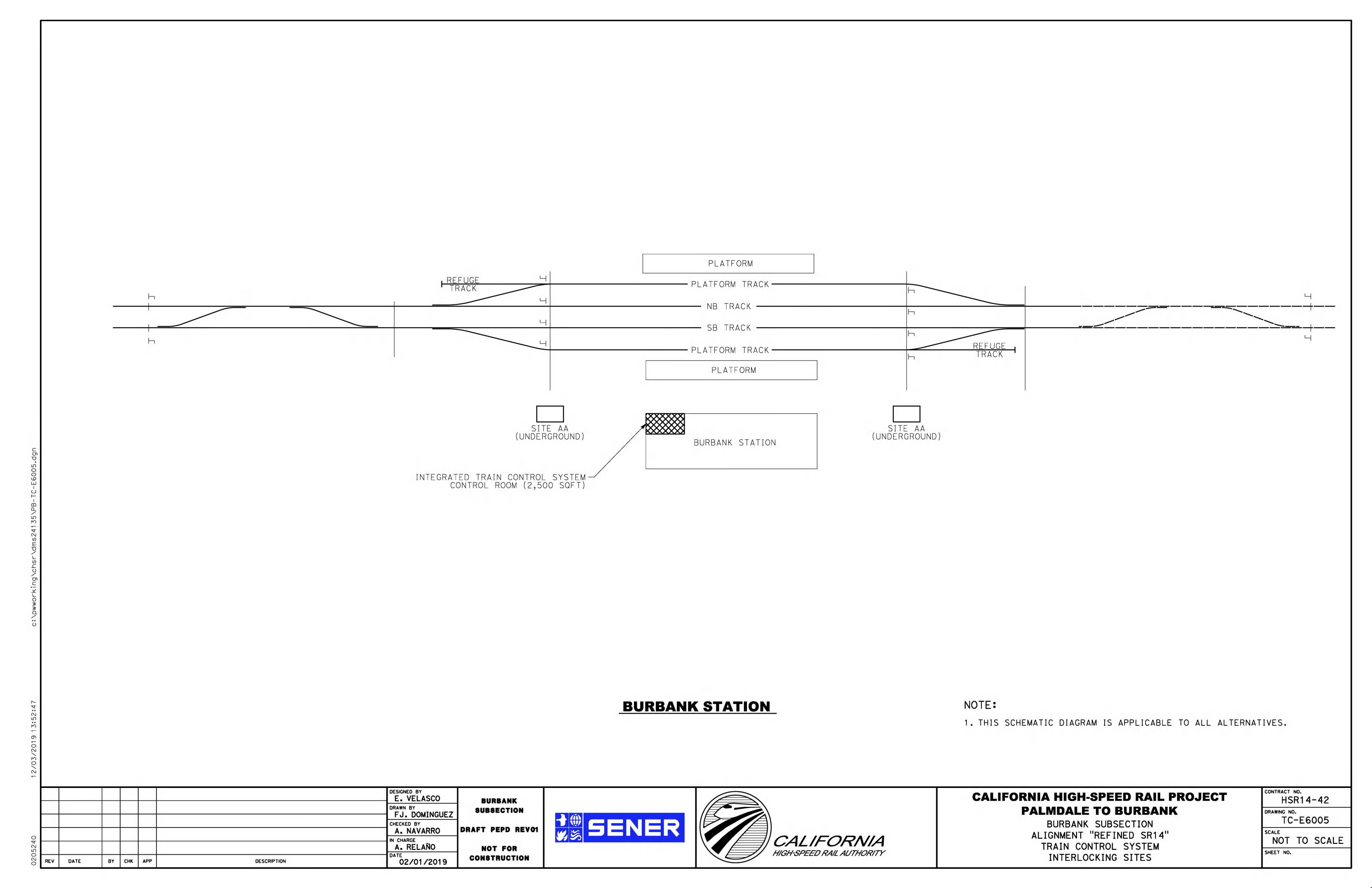
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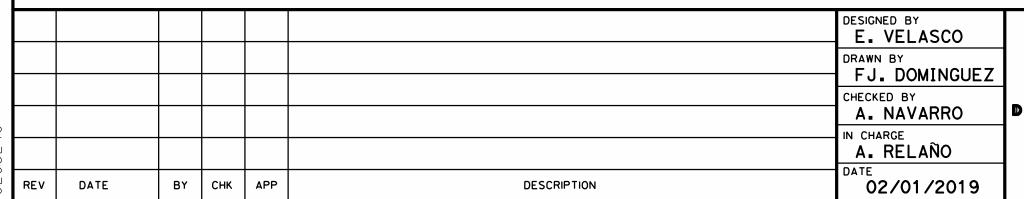


CALIFORNIA HIGH-SPEED RAIL PROJECT PALMDALE TO BURBANK

BURBANK SUBSECTION ALIGNMENT "REFINED SR14" TRACTION POWER FACILITIES PARALLELING STATION 7

CONTRACT NO. HSR14-42
DRAWING NO. TP-04008-S14
AS SHOWN
SHEET NO.





BURBANK SUBSECTION DRAFT PEPD REVO1

NOT FOR CONSTRUCTION



CALIFORNIA HIGH-SPEED RAIL PROJECT PALMDALE TO BURBANK BURBANK SUBSECTION

BURBANK SUBSECTION
ALIGNMENT "REFINED SR 14"
RAILWAY SYSTEMS
KEY MAP

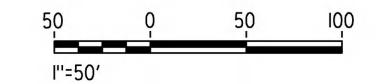
CONTRACT NO. HSR14-42
TC-B6001-S14
SCALE AS SHOWN
SHEET NO.

TC-F5001-S14
BURBANK
STATJON

REFJNED SR14 ALICNMENT

00 0 500 1000





							DESIGNED BY A. VELASCO	
							DRAWN BY FJ. DOMINGUEZ	
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0							A. NAVARRO IN CHARGE	DRA
020524							A. RELAÑO	
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BURBANK
SUBSECTION

RAFT PEPD REV01

NOT FOR
CONSTRUCTION

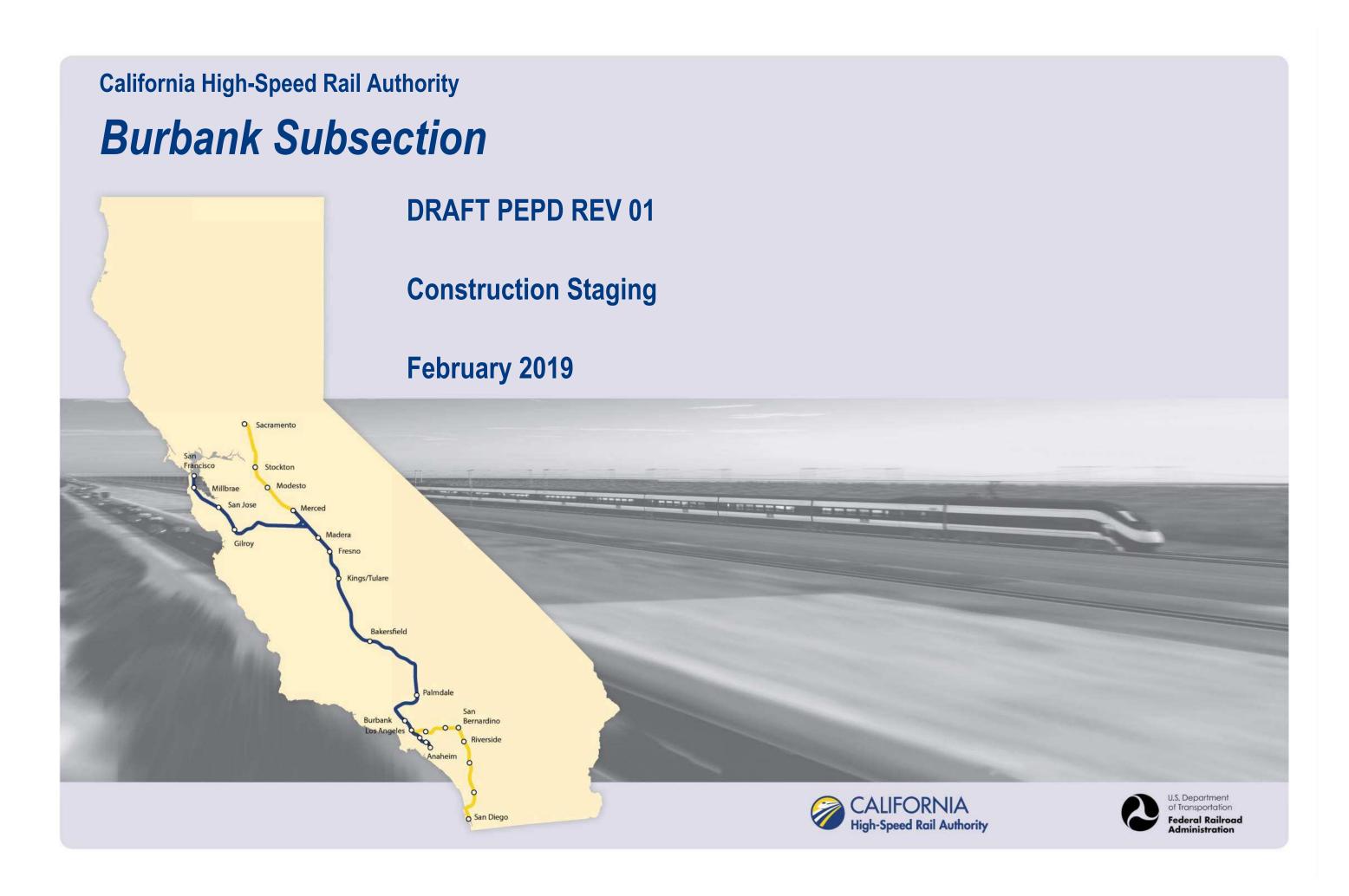




CALIFORNIA HIGH-SPEED RAIL PROJECT PALMDALE TO BURBANK

BURBANK SUBSECTION
TRAIN CONTROL SYSTEM
INTERLOCKING SITES
STA 2233+00 TO STA 2245+00

CONTRACT NO. HSR14-42
DRAWING NO. TC-F5001-S14
AS SHOWN
SHEET NO.



GENERAL SHEETS

DRAWING NO.	DRAWING DESCRIPTION	SHEET NO.
CV-I0001	INDEX OF DRAWINGS	

CONSTRUCTION STAGING SHEETS

DRAWING NO.	DRAWING DESCRIPTION	SHEET NO.
CV-I4003-S14	BURBANK SUBSECTION. CONSTRUCTION STAGING	

-							
							DESIGNED BY E. VELASCO
							DRAWN BY FJ. DOMINGUEZ
\vdash	_						CHECKED BY A. NAVARRO
							IN CHARGE A. RELAÑO
, RE	ΕV	DATE	BY	СНК	APP	DESCRIPTION	DATE 02/01/2019

BURBANK SUBSECTION DRAFT PEPD REV01 NOT FOR CONSTRUCTION





CALIFORNIA HIGH-SPEED RAIL PROJECT PALMDALE TO BURBANK

BURBANK SUBSECTION GENERAL INDEX OF DRAWINGS

CONTRACT NO. HSR14-42 DRAWING NO. CV-I0001

NO SCALE SHEET NO.

EXCAVATION OF PORTAL P10

BUILD PROPOSED VULCAN UNLOADING FACILITY

AND PROPOSED VULCAN TRACK 4. REALIGN SAN FERNANDO BLVD BETWEEN PENROSE ST AND SUNLAND BLVD. SUN VALLEY METROLINK STATION RELOCATION SOUTH OF OLINDA ST.

5. CONSTRUCT HSR CUT AND COVER FROM COHASSET STREET TILL THE END OF PROJECT.

PHASE 2

SHIFT VULCAN TRAINS TRAFFIC TO NEW PROP VULCAN TRACK. BUILD NEW HSR STRUCTURE AND DRAINAGE STRUCTURE OVER UNLOADING FACILITY

CONSTRUCT SHELDON STREET GRADE-SEPARATION PERFORM CIVIL WORKS FOR HSR INFRASTRUCTURE, INCLUDING TRENCH AND CUT AND COVER UNTIL

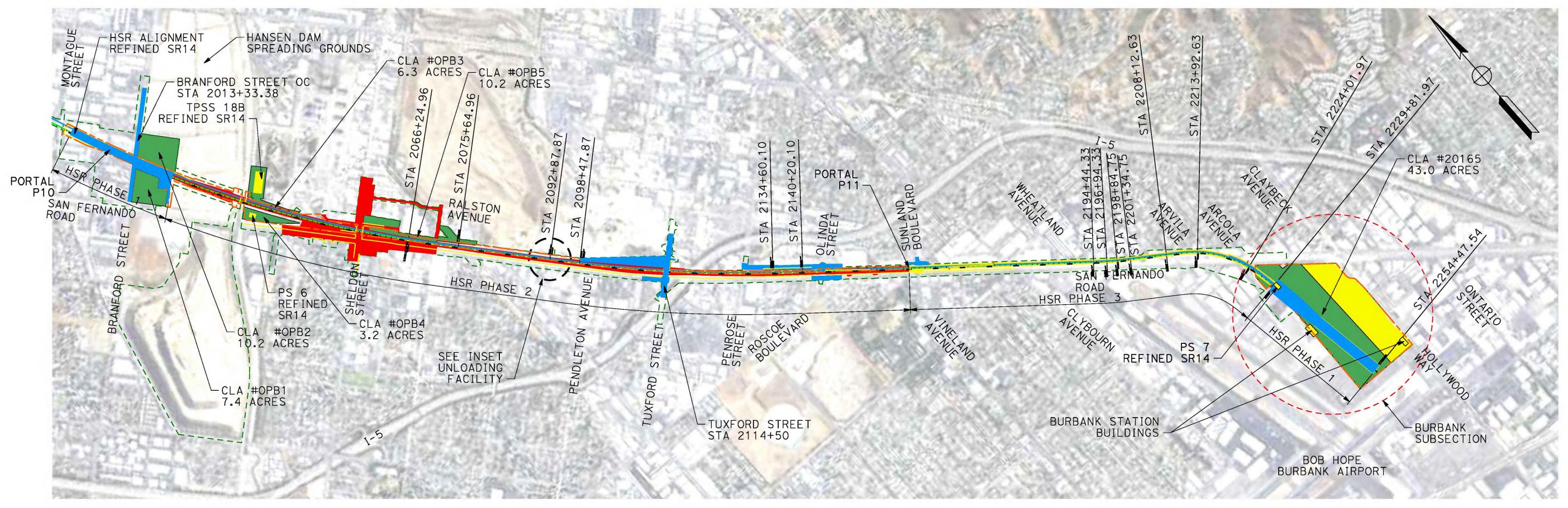
SUNLAND BLVD 4. BUILD NEW HSR STRUCTURE OVER TUXFORD ST. PHASE 3

CONSTRUCT HSR SEM TUNNEL AND CIVIL WORKS

CONSTRUCT HSR TRACK AND SYSTEMS FACILITIES

CONSTRUCT BURBANK STATION BUILDINGS

INSTALL ALL STATION FACILITIES, LAND-SIDE TRANSIT AMENITIES, WAY FINDING SIGNAGE, HARDSCAPING, AND LAND SCAPING AROUND STATION.



GENERAL NOTES:

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 LAYDOWN AREAS, STAGING AREAS AND OTHER

CONTRACTOR'S FACILITIES ARE INCLUDED IN THIS SET OF PLANS. CONSTRUCTION PHASES WILL OVERLAP AS NEEDED

TO REDUCE CONSTRUCTION DURATIONS. HSR TRACK AND SYSTEMS TO BE CONSTRUCTED IN THE LAST PHASE. HATCHED AREAS ONLY REFER TO CIVIL WORKS.

TRAFFIC PHASING NOTES:

PHASE 1:E-W VEHICULAR TRAFFIC THROUGH EXISTING SHELDON ST AND PENROSE ST.

PHASE 2:E-W VEHICULAR TRAFFIC THROUGH REALIGNED BRANFORD ST, REALIGNED TUXFORD ST. PHASE 3: E-W VEHICULAR TRAFFIC THROUGH REALIGNED ROADWAYS (BRANFORD ST, SHELDON ST, SAN

FERNANDO RD, TUXFORD ST, OLINDA ST).

LEGEND :

PHASE 1 PHASE 2 PHASE 3 CONSTRUCTION STAGING/ LAYDOWN AREA (CLA) ----

PROPOSED PERMANENT ENVIRONMENTAL FOOTPRINT

PROPOSED RIGHT OF WAY

ABBREVIATIONS:

TPSS

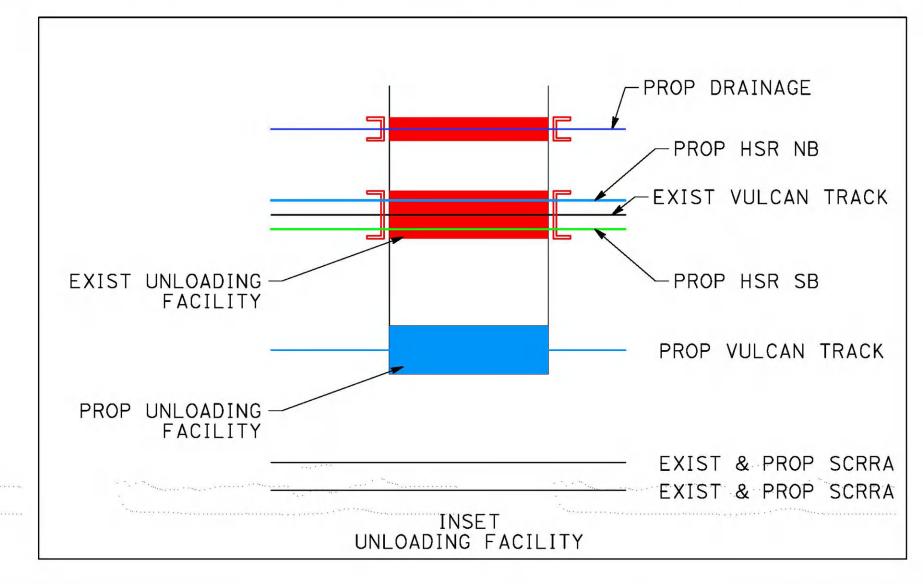
CONSTRUCTION STAGING/ LAYDOWN AREA CLA HIGH SPEED RAIL HSR

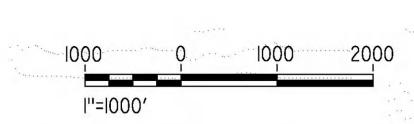
OVERCROSSING SCRRA SOUTHERN CALIFORNIA REGIONAL

RAIL AUTHORITY

UNDERPASS UPRR UNION PACIFIC RAILROAD PS

PARALLELING STATION TRACTION POWER SUB STATION





			 DATE
	. "		A. RELAÑO
 		 	CHECKED BY A. NAVARRO
			FJ. DOMINGUEZ
			DESIGNED BY E. VELASCO

BURBANK SUBSECTION **DRAFT PEPD REV01**

NOT FOR

CONSTRUCTION





CALIFORNIA HIGH-SPEED RAIL PROJECT PALMDALE TO BURBANK

BURBANK SUBSECTION CONSTRUCTION STAGING

HSR14-42
DRAWING NO. CV-I4003-S14
SCALE AS SHOWN
SHEET NO.

CONTRACT NO.