

# CALIFORNIA HIGH-SPEED TRAIN

## Engineering Plans

### Burbank to Los Angeles

#### Option B Revised Alignment

#### Volume 3.5

General, Stations & Trackside Access

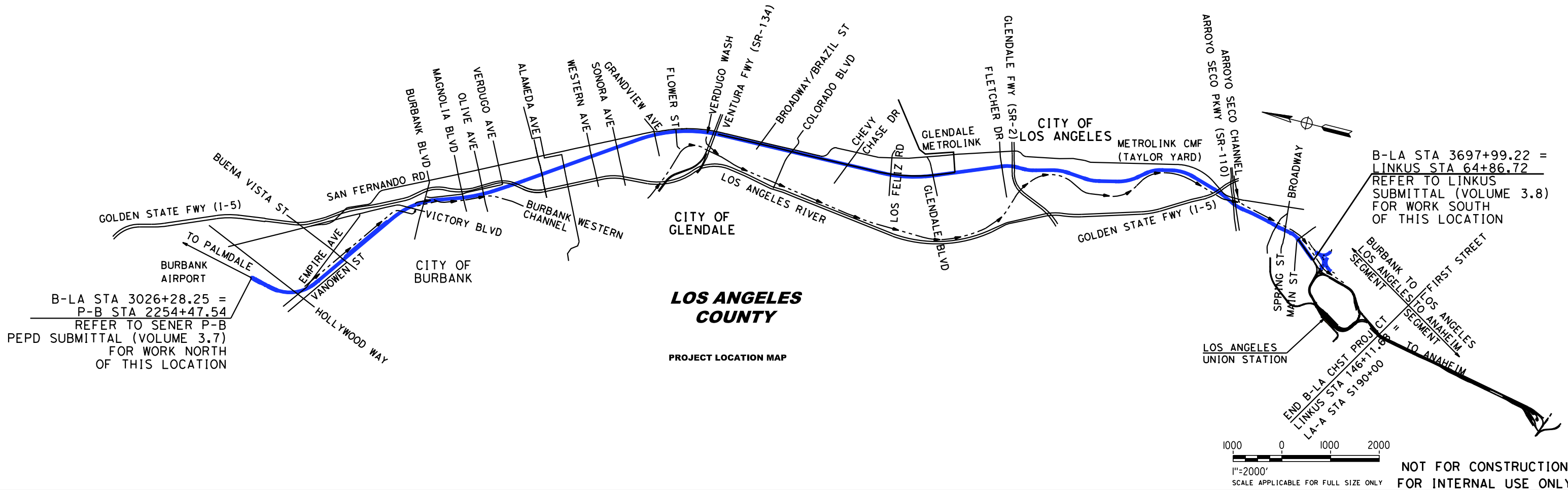
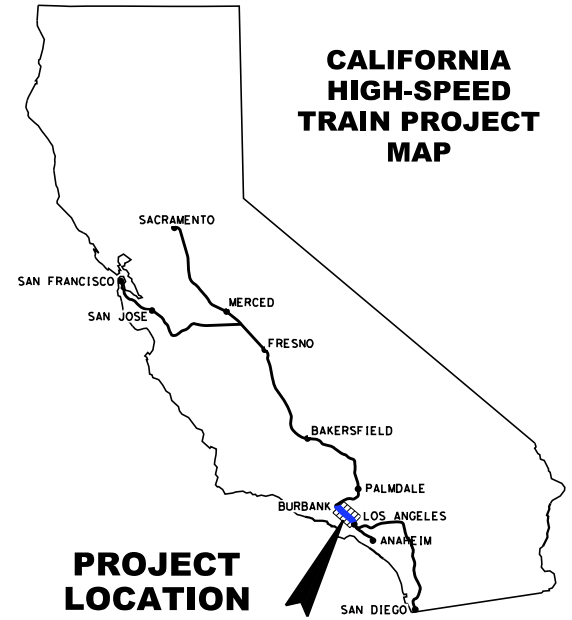
August 2021





**CALIFORNIA**  
HIGH-SPEED RAIL AUTHORITY

**PRELIMINARY ENGINEERING FOR PROJECT DEFINITION (PEPD)**  
**CALIFORNIA HIGH-SPEED TRAIN PROJECT**  
**VALLEY/RIVER SUBDIVISION**  
**BURBANK TO LOS ANGELES - OPTION B REFINED**  
**VOLUME 3.5**  
**GENERAL, STATIONS & TRACKSIDE ACCESS**



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B-LA STA 3026+28.25 =  
P-B STA 2254+47.54  
REFER TO SENER P-B  
PEPD SUBMITTAL (VOLUME 3.7)  
FOR WORK NORTH  
OF THIS LOCATION

B-LA STA 3697+99.22 =  
LINKUS STA 64+86.72  
REFER TO LINKUS  
SUBMITTAL (VOLUME 3.8)  
FOR WORK SOUTH  
OF THIS LOCATION

**LOS ANGELES  
COUNTY**

PROJECT LOCATION MAP

1"=2000'  
SCALE APPLICABLE FOR FULL SIZE ONLY

NOT FOR CONSTRUCTION  
FOR INTERNAL USE ONLY

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
**C. CUSSON**  
DRAWN BY  
**C. CUSSON**  
CHECKED BY  
**C. LEE**  
IN CHARGE  
**C. LEE**  
DATE  
**07/15/2021**

**PEPD  
RECORD SET**

**NOT FOR  
CONSTRUCTION**



**CALIFORNIA HIGH-SPEED TRAIN PROJECT**  
**BURBANK TO LOS ANGELES**  
 OPTION B REVISED ALIGNMENT - REVISED FINAL  
 PEPD  
 VOLUME 3.5  
 PROJECT LOCATION MAP

CONTRACT NO.  
HSR14-39  
DRAWING NO.  
GE-A0501  
SCALE  
NO SCALE  
SHEET NO.

## PEPD INDEX OF VOLUMES

VOLUME NO.	CONTENT
<b>VOLUME 3.1</b>	<b>GENERAL</b>
	<b>TRACK ALIGNMENT</b>
	<b>RIGHT-OF-WAY IMPACT</b>
<b>VOLUME 3.2</b>	<b>GENERAL</b>
	<b>AERIAL STRUCTURES</b>
	<b>TUNNEL</b>
	<b>RETAINING WALLS</b>
<b>VOLUME 3.3</b>	<b>GENERAL</b>
	<b>GRADE SEPARATIONS</b>
	<b>ROADWAY IMPROVEMENTS</b>
<b>VOLUME 3.4</b>	<b>GENERAL</b>
	<b>UTILITIES</b>
	<b>GRADING AND DRAINAGE</b>
	<b>TRACTION POWER FACILITIES SITE</b>
	<b>COMMUNICATION SYSTEM SITE</b>
	<b>AUTOMATIC TRAIN CONTROL SITE</b>

VOLUME NO.	CONTENT
<b>VOLUME 3.5</b>	<b>GENERAL</b>
	<b>STATIONS</b>
	<b>MAINTENANCE FACILITIES</b>
	<b>TRACKSIDE ACCESS</b>
<b>VOLUME 3.6</b>	<b>GENERAL</b>
	<b>CONSTRUCTION PHASING PLANS</b>
<b>VOLUME 3.7</b>	<b>GENERAL</b>
	<b>BURBANK AIRPORT STATION</b>
<b>VOLUME 3.8</b>	<b>GENERAL</b>
	<b>LINK UNION STATION (LINK US) BY LA METRO</b>

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HSR14-39

DRAWING NO.  
GE-A0510

SCALE  
NO SCALE

SHEET NO.



**VOLUME 5 - GENERAL, MAINTENANCE FACILITIES & TRACKSIDE ACCESS**

GENERAL	
DRAWING NO.	DRAWING TITLE
GE-A0500	COVER SHEET VOLUME 5
GE-A0501	PROJECT LOCATION MAP VOLUME 5
GE-A0510	INDEX OF VOLUMES
GE-A0511	INDEX OF DRAWINGS VOLUME 5
GE-D0501	VOLUME 5 - KEY MAP STATIONS AND TRACKSIDE ACCESS
GE-B0501	BASIS OF DESIGN SUMMARY
GE-C0501	ACRONYMS AND ABBREVIATIONS - SHEET 1 OF 5
GE-C0502	ACRONYMS AND ABBREVIATIONS - SHEET 2 OF 5
GE-C0503	ACRONYMS AND ABBREVIATIONS - SHEET 3 OF 5
GE-C0504	ACRONYMS AND ABBREVIATIONS - SHEET 4 OF 5
GE-C0505	ACRONYMS AND ABBREVIATIONS - SHEET 5 OF 5
GE-C0511	SYMBOLS - SHEET 1 OF 2
GE-C0512	SYMBOLS - SHEET 2 OF 2
GE-B0511	GENERAL NOTES
GE-D6501	TRACK SCHEMATIC

MAINTENANCE FACILITIES	
DRAWING NO.	DRAWING TITLE
MY-D1101	CMF TRACK PLAN - SHEET 1 OF 4
MY-D1102	CMF TRACK PLAN - SHEET 2 OF 4
MY-D1103	CMF TRACK PLAN - SHEET 3 OF 4
MY-D1104	CMF TRACK PLAN - SHEET 4 OF 4
MY-D1201	CMF TRACK PROFILE - SHEET 1 OF 2
MY-D1202	CMF TRACK PROFILE - SHEET 2 OF 2
TT-E6118	CMF HORIZONTAL ALIGNMENT DATA - SHEET 1 OF 8
TT-E6119	CMF HORIZONTAL ALIGNMENT DATA - SHEET 2 OF 8
TT-E6120	CMF HORIZONTAL ALIGNMENT DATA - SHEET 3 OF 8
TT-E6121	CMF HORIZONTAL ALIGNMENT DATA - SHEET 4 OF 8
TT-E6122	CMF HORIZONTAL ALIGNMENT DATA - SHEET 5 OF 8
TT-E6123	CMF HORIZONTAL ALIGNMENT DATA - SHEET 6 OF 8
TT-E6124	CMF HORIZONTAL ALIGNMENT DATA - SHEET 7 OF 8
TT-E6125	CMF HORIZONTAL ALIGNMENT DATA - SHEET 8 OF 8
UT-C1001	CMF COMPOSITE UTILITIES PLAN - SHEET 1 OF 4
UT-C1002	CMF COMPOSITE UTILITIES PLAN - SHEET 2 OF 4
UT-C1003	CMF COMPOSITE UTILITIES PLAN - SHEET 3 OF 4
UT-C1004	CMF COMPOSITE UTILITIES PLAN - SHEET 4 OF 4

**VOLUME 5 - GENERAL, MAINTENANCE FACILITIES & TRACKSIDE ACCESS**

MAINTENANCE FACILITIES	
DRAWING NO.	DRAWING TITLE
UT-D1640	CMF PROPOSED UTILITY RELOCATION PLAN - SHEET 1 OF 4
UT-D1641	CMF PROPOSED UTILITY RELOCATION PLAN - SHEET 2 OF 4
UT-D1642	CMF PROPOSED UTILITY RELOCATION PLAN - SHEET 3 OF 4
UT-D1643	CMF PROPOSED UTILITY RELOCATION PLAN - SHEET 4 OF 4
MY-D1001	CMF SITE CROSS SECTIONS - SHEET 1 OF 2
MY-D1002	CMF SITE CROSS SECTIONS - SHEET 2 OF 2
CV-R1101	ROADWAY - SHEET 1 OF 4
CV-R1102	ROADWAY - SHEET 2 OF 4
CV-R1103	ROADWAY - SHEET 3 OF 4
CV-R1104	ROADWAY - SHEET 4 OF 4
CV-S1101	CMF SITE IMPROVEMENTS - SHEET 1 OF 4
CV-S1102	CMF SITE IMPROVEMENTS - SHEET 2 OF 4
CV-S1103	CMF SITE IMPROVEMENTS - SHEET 3 OF 4
CV-S1104	CMF SITE IMPROVEMENTS - SHEET 4 OF 4
CV-D1101	CMF DEMOLITION - SHEET 1 OF 4
CV-D1102	CMF DEMOLITION - SHEET 2 OF 4
CV-D1103	CMF DEMOLITION - SHEET 3 OF 4
CV-D1104	CMF DEMOLITION - SHEET 4 OF 4

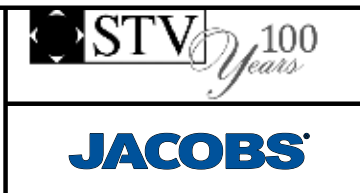
TRACKSIDE ACCESS & EMERGENCY ACCESS	
DRAWING NO.	DRAWING TITLE
CV-S5100	VEHICLE TRACK ACCESS - LOCATION PLAN
CV-S5101	VEHICLE TRACK ACCESS - BUENA VISTA ST / LINCOLN ST HSR STA 3095+01
CV-S5102	VEHICLE TRACK ACCESS - UPRR WYE TRACKS HSR STA 3161+20
CV-S5103	VEHICLE TRACK ACCESS - ALLEN AVE HSR STA 3224+00
CV-S5104	VEHICLE TRACK ACCESS - DORAN ST HSR STA 3325+00
CV-S5105	VEHICLE TRACK ACCESS - GOODWIN AVE HSR 3387+00
CV-S5106	VEHICLE TRACK ACCESS - VERDANT ST HSR STA 3412+60
CV-S5107	VEHICLE TRACK ACCESS - MAIN ST HSR STA 3683+00

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REV	DATE	BY	CHK	APP	DESCRIPTION

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**C. CUSSON**  
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**07/15/2021**

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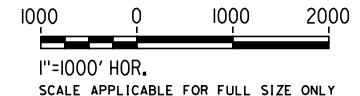
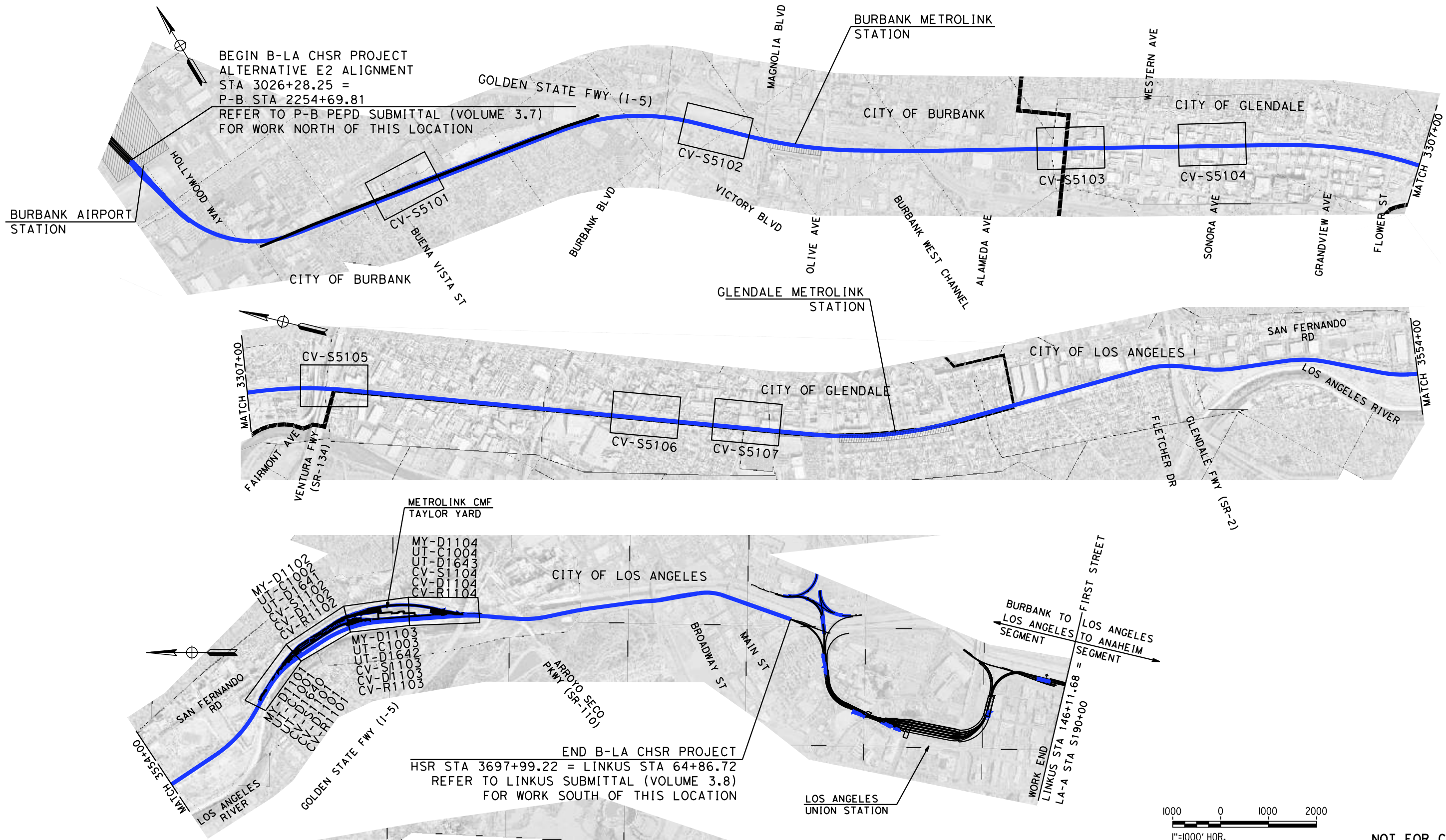


**CALIFORNIA HIGH-SPEED TRAIN PROJECT**  
**BURBANK TO LOS ANGELES**  
OPTION B REVISED ALIGNMENT - REVISED FINAL  
PEPD  
INDEX OF DRAWINGS  
VOLUME 3.5 - SHEET 1 OF 1

CONTRACT NO.  
HSR14-39  
DRAWING NO.  
GE-A0511  
SCALE  
NO SCALE  
SHEET NO.



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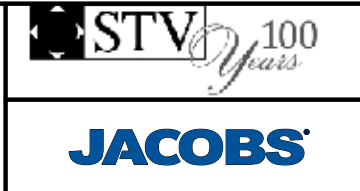
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CONTRACT NO.  
 HSR14-39  
 DRAWING NO.  
 GE-D0501  
 SCALE  
 AS SHOWN  
 SHEET NO.





A

@ AADT AB ABBC ABM ABN ABUT ABV AC ACB ACMB ACOUS ACP ACR ACSR AD ADJ ADL ADP ADT A&E AEC AED AFC AFES A/G AGW AHD AL ALIGN ALT AM ANC ANI ANN ANS AP APC APE APEFZ API APPROX APU AR ARCH ARS AS ASPH ASRP ASSY AT ATC ATEL ATM ATO ATP ATPB ATPM ATR ATS AUX AVE AVG AVL AWG

B

BAGR BAR BAT BB B-B BC BCR BD BDA

B CONTINUED

BDD BDP BDS BEC BEG BFA BIL BITUM BKLN BK BKF BKR BL BLDG BLKG BLM BLST BLVD BM BN BND BOC BOCC BOS BOT BOW BR

BRG BRKT BRS BRT BS BSC B/SPAN BT BTM BTS BTWN BVC BW B/W BWA B/WLAN BZ

C

C CLOSE, CONDUIT, CONTACT, CONTROL CA CAA CAB CAD CD CAH CAI CALP CANT CAP

CAPA CAS CAT CBTC CBW C&C C-C CCO CCS CCTV CCVT CEG CEM CER C&G

C CONTINUED

CG CGS CHNL CI CIC CIDH CIF CIP C-I-P CIPCP CIS CISS CJ CJP CKT CL CL2 CL-6 CLG CLK CLKG CLO CLR CM CMF CMP CMU CNTR CO COL COMM CONC CONDN CONN CONST CONT CONTR COORD CORR CP CPT CPU CR CRC CRCP CRSP CRZ CS CSA CSG CSP CSPA CT CTB CTPB CTR CTSK CTVT CTW CU CULV CV CVR CW CWA CWH CWR CWT

D

D DB DBE

D CONTINUED

DBL DC DCMB DCP DD DE DEL DEMO DEPT DET DF DGA DHV DI DIAG DIAPH DIFF DIM DIN DIP DIR DISC DISP DIST DISTR DMBB DN DNS DO DPDT DR DS DSC DSCW DSG DSHA DST DTBB DTM DVR DWG DWY DXO

E

E0 E1 E2 EA EB EC ECR EE EF EGS EHS EI EJ E-LAN ELAST ELEC ELECT ELEV ELOCK EMB EMC EMER EMF EMI EMS EMU ENCL

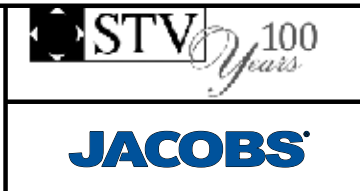
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Table with columns: DESIGNED BY, DRAWN BY, CHECKED BY, IN CHARGE, DATE

PEPD RECORD SET NOT FOR CONSTRUCTION



CALIFORNIA HIGH-SPEED TRAIN PROJECT BURBANK TO LOS ANGELES OPTION B REVISED ALIGNMENT - REVISED FINAL ACRONYMS AND ABBREVIATIONS SHEET 1 OF 5

Table with columns: CONTRACT NO., DRAWING NO., SCALE, SHEET NO.



E CONTINUED

F CONTINUED

H CONTINUED

L CONTINUED

ENGR ENGINEER, ENGINEERING
EOB END OF BRIDGE
EOD EDGE OF DECK
EOS ELECTRICAL OPERATED BRIDGE
EOW END OF WALL
EP EDGE OF PAVEMENT
EPBM EARTH PRESSURE BALANCING MACHINE
EPR ETHYLENE PROPYLENE RUBBER
EQ EQUAL, EQUILATERAL
EQN EQUATION
EQUIP EQUIPMENT
ES EDGE OF SHOULDER, EXTRA STRENGTH, ELECTRICAL SECTION
ESA ENVIRONMENTALLY SENSITIVE AREA
ESC ESCALATOR
ESEW EMERGENCY SHOWER / EYE WASH
ESMT EASEMENT
ETCS EUROPEAN TRAIN CONTROL SYSTEM
ETEL EMERGENCY TELEPHONE
ETS EMERGENCY TRIP SYSTEM
ETW EDGE OF TRAVELED WAY
EVC END VERTICAL CURVE
EW EACH WAY, ENDWALL
EXC EXCAVATION
EXIST EXISTING
EXP EXPANSION
EXPO EXPOSED
EXWY EXPRESSWAY
EXT EXTERIOR, EXTENSION

FS FINISHED SURFACE
FTEL FIRE TELEPHONE
FTG FOOTING
FTP FILE TRANSFER PROTOCOL
FTW FIXED END TAIL WIRE
FUT FUTURE
FW FEEDER WIRE
FWY FREEWAY
G1 ENTRANCE GRADE, GRADE BEFORE CURVE
G2 EXIT GRADE, GRADE POST CURVE
GALV GALVANIZED
GCL GRADING CONTROL LINE
GD GRADE
GHS GALVANIZED HIGH STRENGTH
GI GENERAL INFORMATION
GIGE GIGABIT ETHERNET
GIS GAS INSULATED SWITCH, GEOGRAPHIC INFORMATION SYSTEM
GL GLASS
G/L GROUND LINE
GMA GROUND MOTION ANALYSIS
GND GROUND
GO-95 PUC GENERAL ORDER 95
GP GRADING PLANE
GPS GLOBAL POSITIONING SYSTEM
GR GUARDRAIL, GROUND ROD
GRP GLASS REINFORCED PLASTIC ROD
GRS GALVANIZED RIGID STEEL
GRX GRADE CROSSING
GSHA GEOLOGIC AND SEISMIC HAZARDS ANALYSIS
GSP GALVANIZED STEEL PIPE
GT GENERAL INFORMATION
GTGM GEOTECHNICAL TECHNICAL GUIDANCE MANUAL (FHWA)
GTR GUTTER
GW GUY WIRE
GYP GYPSUM
GYPBD GYPSUM BOARD

HWY HIGHWAY
IB IMPENANCE BOND
IBC INTERNATIONAL BUILDING CODE
IDS INTRUSION DETECTION CODE
IIMP INTERGRATED INFORMATION MANAGEMENT PLATFORM
IJ INSULATED JOINT
IJP INSULATED JOINT PLUG
INSR INSULATOR
INST INSTANTANEOUS
INSUL INSULATION
INT INTERIOR
Inter-LATA INTER-LOCAL ACCESS AND TRANSPORT AREA
INV INVERT
I/O INPUT/OUTPUT
IR IN-RUNNING (RIDING CONTACT WIRE)
IRR IRRIGATION
I/S IN-SPAN
I/SJ IN-SPAN JUMPER

LWP LOWER WORKING POINT
M1 CONVENTIONAL RAILWAY TRACK
M MEDIUM LOADING
MAINT MAINTENANCE
MAT MATERIAL
MAX MAXIMUM
MB METAL BEAM
MBB METAL BEAM BARRIER
MBGR METAL BEAM GUARD RAILING
MCC MAINTENANCE CONTROL CENTER
MCE MAXIMUM CONSIDERED EARTHQUAKE
MCR MASTER CONTROL ROOM
MDS MOBILE DATA SYSTEM
MECH MECHANICAL
MED MEDIAN
MEM MEMBRANE
MESSGR MESSENGER WIRE
MET METAL
MFR MANUFACTURER
MH MANHOLE
MHHW MEAN HIGHEST HIGH WATER
MI MILD IRON
MIN MINIMUM
MISC MISCELLANEOUS
MKR MARKER
ML MAIN LINE
MLLW MEAN LOWER LOW WATER
MMIS MAINTENANCE MANAGEMENT INFORMATION SYSTEM
MO MASONRY OPENING
MOC MOTOR OPERATED CONTRACTOR
MOD MODIFIED, MODIFY
MODC MOTOR OPERATED DISCONNECT SWITCH
MOI MAINTENANCE OF INFRASTRUCTURE
MON MONUMENT
MOP MOTOR OPERATED
MOS MANUALLY OPERATED SWITCH
MOV METAL-OXIDE VARISTOR
MOW MAINTENANCE OF WAY
MP MILEPOST
MPA MIDPOINT ANCHOR
MPH MILES PER HOUR
MPLS MULTI-PROTOCOL LABEL SWITCHING
MR MOVEMENT RATING
MSE MECHANICALLY STABILIZED EMBANKMENT
MSF MAINTENANCE AND STORAGE FACILITY
MSL MEAN SEA LEVEL
MTD MEMO TO DESIGNERS (CALTRANS), MOUNTED
MUL MULLION
MVC MINIMUM VERTICAL CLEARANCE
MW MESSENGER WIRE

F CONTINUED

H CONTINUED

K CONTINUED

L CONTINUED

FA FIRE ALARM
FACP FIRE ALARM CONTROL PANEL
FAS FIRE ALARM SYSTEM
FB FLAT BAR, FLOOR BEAM, FEEDER BREAKER
FBO FURNISHED BY OTHERS
FC FARE COLLECTION
F&C FRAME AND COVER
FD FLOOR DRAIN
FDC FIRE DEPARTMENT CONNECTION
FDN FOUNDATION
FDP FIBER DISTRIBUTION PANEL
FDR FEEDER
FDU FIBER DISTRIBUTION UNIT
FE FIRE EXTINGUISHER
FES FLARED END SECTION
FF FILTER FABRIC
F/F FACE TO FACE
FFJ FULL FEEDING JUMPER
FFL FINISHED FLOOR LEVEL
FG FINISHED GRADE
F&G FRAME AND GRATE
FH FIRE HYDRANT
FHC FIRE HOSE CABINET
FID FIRE INITIATING DEVICE
FIG FIGURE
FIN FINISH
FIRM FLOOD INSURANCE RATE MAPS
FJ FEEDER JUMPER
FL FLOW LINE
FLB FLOOR BEAM
FLH FLAT HEAD
FLR FLOOR
FNA FIRE NOTIFICATION APPLIANCE
FO FIBER OPTIC
FOC FIBER OPTIC CABLE, FACE OF CURB
FOCN FIBER OPTIC CABLING NETWORK
FOF FACE OF FINISH
FOP FACE OF POLE
FOS FACE OF STUDS, FACTOR OF SAFETY
FP FULL PENETRATION
FPLM FULL SPAN PRECAST LAUNCHING
FPRF FIRE PROOF
FPS FRAMES PER SECOND
FR FRAME
FREO FREQUENCY

HAZ HAZARDOUS
HB HARDNESS BRINELL, HOSE BIBB
HC HANDICAP
HD HARD DRAWN, HORIZONTAL DRAIN
HDG HOT DIP GALVANIZED
HDPE HIGH DENSITY POLYETHYLENE
HDWE HARDWARE
HDWL HEADWALL
HEX HEXAGONAL
HH HANDHOLE, HEAD HARDENED
HI HIGH
HI-RAIL HIGHWAY TO RAILROAD VEHICLE
HM HOLLOW METAL
HMA HOT MIXED ASPHALT
HMI HUMAN MACHINE INTERFACE
HO HAND OPERATED
HOBAS MANUF. CENTRIFUGALLY CAST GLASSFIBER REINF. PIPE
HOR HORIZONTAL
HOV HIGH-OCCUPANCY VEHICLE
HP HIGH POINT, HINGE POINT
HP&R HIGHWAY PLANTING AND RESTORATION
HPS HIGH PERFORMANCE STEEL
HR HANDRAIL
HRL HIGH RAIL LEVEL
HS HIGH STRENGTH
H/SPAN HEADSPAN
HSR HIGH-SPEED RAIL
HST HIGH-SPEED TRAIN
HT HIGH TEMPERATURE
HTR HEATER
HV HIGH VOLTAGE
HVAC HEATING VENTING AND AIR CONDITIONING
HW HIGH WATER
HWT HIGH WATER TABLE
HWM HIGH WATER MARK

KV KILOVOLT
L LENGTH
LA LANDSCAPE ARCHITECT, LIGHTING ARRESTER, LOS ANGELES (CALIFORNIA, USA)
LA-A LOS ANGELES TO ANAHEIM
LAM LAMINATE
LAN LOCAL AREA NETWORK
LA-SD LOS ANGELES TO SAN DIEGO
LAT LATITUDE
LAV LAVATORY
LC LENGTH OF CURVE, LANDSCAPE CONTRACTOR
LCB LEAN CONCRETE BASE
LCX LEAKY COAXIAL RADIO CABLE
LDBE LOWER-LEVEL DESIGN BASIS EARTHQUAKE
LED LIGHT EMITTING DIODE
LF LINEAR FEET
LG LONG
LGT LIGHT, LIGHTING
LH LEFT-HAND
LKR LOCKER
LL LIGHT LOADING
LLT LAST LONG TIE
LN LANE
LO LOCKOUT
LOC LOCATION
LOL LAYOUT LINE
LONG LONGITUDE, LONGITUDINAL
LOS LEVEL OF SERVICE
LOTB LOGS OF TEST BORINGS
LP LOW POINT, LOW PROFILE
LPL LIGHT POLE
LR LOW RAIL
LRFD LOAD AND RESISTANCE FACTOR DESIGN
LRT LIGHT RAIL TRANSIT
LRV LIGHT RAIL VEHICLE
LS LENGTH OF SPIRAL, LANDSCAPING, LUMP SUM
LT LEFT
LV LOW VOLTAGE
LVL LEVEL
LVT LOW VIBRATION TRACK

N CONTINUED

N NORTH, NORTHING
N/A NOT APPLICABLE
NAVD NORTH AMERICAN VERTICAL DATUM
NB NORTHBOUND
NBR NONBRIDGING
NCL NO COLLAPSE PERFORMANCE LEVEL
NDP NONLINEAR DYNAMIC PROCEDURE
NEC NATIONAL ELECTRICAL CODE
NEG NEGATIVE
NEUT NEUTRAL
NF NEGATIVE FEEDER, NEAR FACE
NGVD NATIONAL GEODETIC VERTICAL DATUM
NI NETWORK INTERFACE
NIC NOT IN CONTRACT
NMS NETWORK MANAGEMENT SYSTEM
NO NUMBER, NORMALLY OPEN
NOM NOMINAL
NP NETWORK PORT

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Table with 5 columns: REV, DATE, BY, CHK, APP, DESCRIPTION. Row 1: 07/15/2021

Table with 2 columns: DESIGNED BY, DRAWN BY, CHECKED BY, IN CHARGE, DATE. Values: C. CUSSON, C. CUSSON, C. LEE, C. LEE, 07/15/2021

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CALIFORNIA HIGH-SPEED TRAIN PROJECT
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ACRONYMS AND ABBREVIATIONS
SHEET 2 OF 5

Table with 2 columns: CONTRACT NO., DRAWING NO., SCALE, SHEET NO. Values: HSR14-39, GE-C0502, NO SCALE

**N CONTINUED**

NPRM NOTICE OF PROPOSED RULE MAKING  
 NPS NOMINAL PIPE SIZE  
 NR NOT REGISTERED  
 NS NOT SUPPORTED  
 NT NETWORK  
 NTP NOTICE TO PROCEED,  
 NETWORK TIME PROTOCOL  
 NTS NOT TO SCALE  
 NETWORK TIME SERVER

**O**

OA OVERALL  
 OBLR OBLITERATE  
 OC ON CENTER,  
 OVERCROSSING  
 OCC OPERATIONS CONTROL CENTER  
 OCS OVERHEAD CONTACT SYSTEM  
 OF OUTSIDE FACE  
 OFF OFFSET  
 OG ORIGINAL GROUND  
 OH OVERHEAD  
 O-LA ORANGE COUNTY TO LOS ANGELES  
 O&M OPERATIONS AND MAINTENANCE  
 O-O OUT TO OUT  
 OOR OUT-OF-RUNNING (NONRIDING CONTACT WIRE)  
 OP OVERPASS  
 OPL OPERABILITY PERFORMANCE LEVEL  
 OPNG OPENING  
 OPP OPPOSITE  
 ORS OPERATIONS RADIO SYSTEM  
 OSP OUTSIDE PLANT  
 OVERTEMP OVERTEMPERATURE

**P**

P-LA PALMDALE TO LOS ANGELES  
 PA PUBLIC ADDRESS  
 PACIS PUBLIC ADDRESS/CUSTOMER  
 INFORMATION SYSTEM  
 PAX PASSENGER  
 PB PULL BOX,  
 PUSH BUTTON (ON ELECTRICAL DIAGRAMS)  
 PBX PRIVATE BRANCH EXCHANGE  
 PC PRECAST CONCRETE  
 PCC PORTLAND CEMENT CONCRETE  
 PCP PERFORATED CONCRETE PIPE  
 PCPT PIEZOCONE PENETROMETER TEST  
 PE PORCELAIN ENAMEL  
 PED PEDESTRIAN  
 PEPD PRELIMINARY ENGINEERING FOR  
 PROJECT DEFINITION  
 PERFORATED  
 PERM PERMEABLE, PERMANENT  
 PET POTENTIAL EQUALIZING JUMPER  
 PF POWER FACTOR  
 PFDHA PROBABILISTIC FAULT DISPLACEMENT  
 HAZARD ANALYSIS  
 PROFILE GRADE LINE  
 PHASE  
 PHE POTHOLE  
 PID PASSENGER INFORMATION DISPLAY  
 PITO POINT OF INTERSECTION TURNOUT  
 PJP PARTIAL JOINT PENETRATION  
 PL PLATE,  
 PLACE  
 P/L PROPERTY LINE  
 PLAM PLASTIC LAMINATE  
 PLAS PLASTER  
 PLC PROGRAMMABLE LOGIC CONTROLLER  
 PLYWD PLYWOOD  
 PM POST MILE,  
 POST MERIDIEM (TIME FROM NOON TO MIDNIGHT)  
 PMS PAVEMENT MANAGEMENT SYSTEM  
 PN PAVING NOTCH  
 PNL PANEL  
 PNT POINT  
 PO PULL OFF  
 POC POINT OF CONNECTION  
 POE POINT OF ENDING  
 POS POSITIVE  
 POTS PLAIN ORDINARY TELEPHONE SERVICE  
 PP PLASTIC PIPE,  
 POWER POLE

**P CONTINUED**

PPL PREFORMED PERMEABLE LINER  
 PPP PERFORATED PLASTIC PIPE  
 PR PAIR  
 PRI PRIMARY RATE INTERFACE (ISDN SERVICE)  
 PROP PROPOSED  
 PS PARALLELING STATION,  
 POINT OF SWITCH  
 PRESTRESSED  
 PARALLELING STATION  
 PERFORATED STEEL PIPE  
 PSTN PUBLIC SWITCHED TELEPHONE NETWORK  
 PSTTWS PUBLIC SAFETY TRENCH AND TUNNEL  
 WIRELESS SYSTEM  
 PSU POWER SUPPLY UNIT  
 PT POTENTIAL TRANSFORMER  
 PTC POSITIVE TRAIN CONTROL  
 PTD/R PAPER TOWEL DISPENSER AND RECEPTACLE  
 PTEL PASSENGER ASSISTANCE TELEPHONE  
 PTM PARKING TICKET MACHINE  
 PTT PUSH TO TALK  
 PTZ PAN-TILT-ZOOM  
 PUE PUBLIC UTILITY EASEMENT  
 PVC POLYVINYL CHLORIDE,  
 POINT OF VERTICAL CURVATURE  
 POINT OF VERTICAL INTERSECTION  
 PVI PAVEMENT  
 PVMT POINT OF VERTICAL TANGENCY  
 PVT POWER  
 PWR

**Q**

QOS QUALITY OF SERVICE  
 QT QUARRY TILE  
 QTY QUANTITY

**R**

R RADIUS,  
 RED  
 RA REMOTE ANNUNCIATOR  
 R/A ROCK ANCHOR  
 RAID REDUNDANT ARRAY OF INDEPENDENT DISKS  
 RB RESILIENT BASE  
 RBM RAILBOUND MANGANESE FROG  
 RC REGIONAL CONSULTANT,  
 REINFORCED CONCRETE  
 RCA REINFORCED CONCRETE ARCH  
 RCB REINFORCED CONCRETE BOX  
 RCC REGIONAL CONTROL CENTER  
 RCE REGISTERED CIVIL ENGINEER  
 RCP REINFORCED CONCRETE PIPE  
 RCPA REINFORCED CONCRETE PIPE ARCH  
 RD ROAD,  
 ROOF DRAIN  
 R&D REMOVE AND DISPOSE  
 RDWY ROADWAY  
 RE RUNNING EDGE OF RAIL  
 REBAR CONCRETE REINFORCED BAR  
 RECT RECTANGULAR  
 REF REFERENCE  
 REFP REFERENCE POINT  
 REINFORCED,  
 REINFORCEMENT,  
 REINFORCING  
 RELOCATE,  
 RELOCATED  
 REMOTE  
 REPL REPLACEMENT  
 REOD REQUIRED  
 RESIL RESILIENT  
 RET RETAINING  
 REV REVISED,  
 REVISION  
 RF RADIO FREQUENCY  
 RFI REQUEST FOR INFORMATION  
 RGS RIGID GALVANIZED STEEL  
 RH RIGHT-HAND  
 RM RESTRICTED MANUAL,  
 ROOM  
 ROAD MIXED  
 RO ROUGH OPENING  
 ROW RIGHT-OF-WAY  
 RP RADIUS POINT  
 RR RAILROAD,  
 RUNNING RAIL

**R CONTINUED**

RRR RESURFACING, RESTORATION,  
 REHABILITATION (3R)  
 RRRR RESURFACING, RESTORATION,  
 REHABILITATION, RECONSTRUCTION (4R)  
 RRX RAILROAD GRADE CROSSING  
 R&S REMOVE AND SALVAGE  
 RSP ROCK SLOPE PROTECTION  
 RT RESILIENT TILE,  
 RIGHT  
 ROUTE  
 RTE REMOTE TERMINAL UNIT  
 RTU RETAINING WALL  
 RW RIGHT-OF-WAY  
 RWL RAIN WATER LEADER  
 RWY RAILWAY

**S**

S SOUTH,  
 SLOPE  
 SAE STRUCTURE APPROACH EMBANKMENT  
 SALV SALVAGE  
 SAPP STRUCTURAL ALUMINUM PLATE PIPE  
 SB SOUTHBOUND  
 SC SPIRAL TO CURVE,  
 SWITCH CABLE  
 SCADA SUPERVISORY CONTROL AND DATA ACQUISITION  
 SCAT SIMPLE CATENARY - AUTO TENSION  
 SCB SUBSTATION CONTROL BUILDING  
 SCC STATION CONTROL CENTER  
 SCD SEAT COVER DISPENSER  
 SCFT SIMPLE CATENARY - FIXED TENSION  
 SCHD SCHEDULE  
 SCN SECURITY CLASSIFICATION NUMBERS  
 SCPE SEISMIC CAPACITY AND PERFORMANCE EVALUATION  
 SCSP SLOTTED CORRUGATED STEEL PIPE  
 SD STORM DRAIN  
 SDB SYSTEM DUCT BANK  
 SDC SEISMIC DESIGN CRITERIA  
 SDOF SINGLE DEGREE OF FREEDOM  
 SE SUPER ELEVATION  
 SECT SECTION  
 SECTLEG SECTIONALIZING  
 SEM SEQUENTIAL EXCAVATION METHOD  
 SEP SEPARATION  
 SERV SERVICE  
 SF SPRING FROG  
 SFS SANTA FE SPRINGS  
 SG SUBGRADE  
 SHA SEISMIC HAZARDS ANALYSIS  
 SHLD SHOULDER  
 SHS STATE HIGHWAY SYSTEM  
 SHT SHEET  
 SI SECTION INSULATOR,  
 SITE INVESTIGATION  
 SIGNAL  
 SIM SIMILAR  
 SLAN PASSENGER STATION LOCAL AREA NETWORK  
 SM SELECTED MATERIAL  
 SMF SOLID MANGANESE FROG,  
 SINGLE MODE FIBER  
 SNF SWING NOSE FROG  
 SNTP SIMPLE NETWORK TIME PROTOCOL  
 SP SPARE  
 SPC SPECIAL  
 SPEC SPECIFICATION  
 SPKR SPEAKER  
 SPL SAFETY PERFORMANCE LEVEL  
 SPS SMALL PART STEELWORK  
 SPST SINGLE POLE SINGLE THROW  
 SPT STANDARD PENETRATION TEST  
 SQ SQUARE  
 SR SYSTEM REQUIREMENT,  
 STATE ROUTE  
 SRRA SAFETY ROADSIDE REST AREA  
 SRSS SQUARE ROOT OF SUM OF SQUARES  
 SS SLOPE STAKE,  
 SUBSTATION  
 S/SPAN STEADY SPAN  
 SSI SOIL STRUCTURE INTERACTION  
 SSK SERVICE SINK  
 SSPA STRUCTURAL STEEL PLATE ARCH  
 SSPP STRUCTURAL STEEL PLATE PIPE  
 SSPPA STRUCTURAL STEEL PLATE PIPE ARCH  
 SSRP STEEL SPIRAL RIB PIPE  
 SST STAINLESS STEEL

**S CONTINUED**

SSW STEADY SPAN WIRE  
 SS SANITARY SEWER  
 ST SPIRAL TO TANGENT,  
 STREET  
 STA STATION,  
 STATIONING  
 STBB SINGLE THRIE BEAM BARRIER  
 STD STANDARD  
 STC SINGLE TRACK CANTILEVER  
 STIFF STIFFENER  
 STL STEEL  
 STOR STORAGE  
 STP SHIELDED TWISTED PAIR CABLE  
 STR STRUCTURAL,  
 STRUCTURE  
 STS SPIRAL TANGENT SPIRAL  
 STW STATIC WIRE  
 SUPV SUPERVISORY  
 SURF SURFACING  
 SUSP SUSPENDED  
 SW SOUNDWALL,  
 SOFTWARE  
 SWA SINGLE WIRE ANCHOR  
 SWAT SINGLE WIRE AUTO TENSIONED  
 SWFT SINGLE WIRE - FIXED TERMINATION  
 SWGR SWITCHGEAR  
 SWK SIDEWALK  
 SWPPP STORM WATER POLLUTION PREVENTION PLAN  
 SWR SEWER  
 SWS SWITCHING STATION  
 SWT SWITCH  
 SYM SYMMETRICAL

**T**

T TREAD  
 TAN TANGENT  
 TASAS TRAFFIC ACCIDENT SUREILLANCE ANALYSIS SYSTEM  
 T&B TOP AND BOTTOM  
 TBD TO BE DETERMINED  
 TBM TUNNEL BORING MACHINE  
 TCL TRACK CENTERLINE  
 TC TRAIN CONTROL  
 TCB TRAFFIC CONTROL BOX  
 TCC TRAIN CONTROL AND COMMUNICATIONS  
 TCCR TRAIN CONTROL AND COMMUNICATIONS ROOM  
 TCCT TRACK CIRCUIT  
 TCE TEMPORARY CONSTRUCTION EASEMENT  
 TCP/IP TRANSMISSION CONTROL PROTOCOL/INTERNET  
 PROTOCOL  
 TCR TRANSMISSION COMMUNICATIONS ROOM  
 TD TRENCH DRAIN,  
 TIME DELAY  
 TDA TIRE DERIVED AGGREGATE  
 TDD TELECOMMUNICATIONS DEVICE FOR THE DEAF  
 TDM TIME DIVISION MULTIPLEXING  
 TEL TELEPHONE  
 TEMP TEMPORARY  
 TERM TERMINATION  
 TES TRACTION ELECTRIFICATION SYSTEM  
 TESC TEMPORARY EROSION AND SETTLEMENT CONTROL  
 TETEL TRAIN EMERGENCY TELEPHONE/SPEAKERPHONE  
 TFE TETRAFLUROETHYLENE  
 TG TOP OF GRADE  
 THK THICK  
 TIS TELEPHONE AND INTERCOM SYSTEM  
 TK TRACK  
 TL TENSION LENGTH  
 TM TECHNICAL MEMORANDUM  
 TMP TEMPERATURE  
 TO TURNOUT,  
 TELECOM OUTLET  
 TOC TOP OF CURB  
 TOG TOP OF GRATE  
 TOL TOLERANCE  
 TOLR TOP OF LOW RAIL  
 TOF TOP OF FOUNDATION  
 TOFG TOP OF FINISH GRADE  
 TOP TOP OF PAVEMENT  
 TOR TOP OF RAIL

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DESIGNED BY C. CUSSON
DRAWN BY C. CUSSON
CHECKED BY C. LEE
IN CHARGE C. LEE
DATE 07/15/2021

**PEPD  
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**CALIFORNIA HIGH-SPEED TRAIN PROJECT**  
**BURBANK TO LOS ANGELES**  
 OPTION B REVISED ALIGNMENT - REVISED FINAL  
 PEPD  
 ACRONYMS AND ABBREVIATIONS  
 SHEET 3 OF 5

CONTRACT NO. HSR14-39
DRAWING NO. GE-C0503
SCALE NO SCALE
SHEET NO.

REV	DATE	BY	CHK	APP	DESCRIPTION

**T CONTINUED**

**W CONTINUED**

**TRACK GEOMETRY - HORIZONTAL**

**UNITS OF MEASUREMENT**

TOS TOP OF SLOPE  
 TOT TOP OF TIE,  
 TOTAL  
 TOW TOP OF WALL  
 TP TELEPHONE POLE,  
 TRACTION POWER  
 TPB TREATED PERMEABLE BASE  
 TPD TOILET PAPER DISPENSER  
 TPF TRACTION POWER FACILITY  
 TPM TREATED PERMEABLE MATERIAL  
 TPS TRACTION POWER SUPPLY SYSTEM  
 TPSS TRACTION POWER SUBSTATION  
 (INCLUDING PARALLEL AND SWITCHING STATIONS)  
 T/R TOP OF RAIL ELEVATION  
 TRANS TRANSVERSE,  
 TRANSITION  
 TRK TRACK  
 TS TRAFFIC SIGNAL,  
 TANGENT TO SPIRAL,  
 TUBULAR STEEL  
 TSI TECHNICAL SPECIFICATIONS FOR INTEROPERABILITY  
 TSM TRAFFIC SYSTEMS MANAGEMENT  
 TSMP TRAFFIC SYSTEMS MANAGEMENT PLAN  
 TTC TWO TRACK CANTILEVER  
 TTEL TRAIN EMERGENCY SPEAKERPHONE  
 TV TELEVISION  
 TVS(S) TICKET VENDING MACHINE(S)  
 TW TIE WIRE  
 TWC TIME WARNER CABLE  
 TWT TIME WARNER TELEPHONE  
 TYP TYPICAL

W/ WITH  
 WA WORK AREA  
 WB WESTBOUND  
 WC WATER CLOSET  
 WCS WIRELESS COMMUNICATIONS SYSTEM  
 WD WOOD  
 WLAN WIRELESS LOCAL AREA NETWORK  
 WM WIRE MESH  
 W/O WITHOUT  
 WP WORK POINT,  
 WOOD POLE  
 WPF WATERPROOF  
 WPC WAYSIDE POWER CUBICLES  
 WR WIRE RUN  
 WRT WITH RESPECT TO  
 WS WATER SURFACE,  
 WORK STATION  
 WSP WELDED STEEL PIPE  
 WT WEIGHT  
 WV WATER VALVE  
 WW WINGWALL,  
 WALKWAY  
 WWF WELDED WIRE FABRIC  
 WWJCL WELDED STEEL PIPE  
 WWLOL WINGWALL LAYOUT LINE  
 WWM WELDED WIRE MESH

BC BEGIN HORIZONTAL CURVE  
 CC COMPOUND CURVE  
 CS POINT OF CHANGE FROM CIRCULAR CURVE TO SPIRAL  
 K1 TANGENT DISTANCE PF SHIFT PC REFERENCE  
 TO THE TS  
 K2 TANGENT DISTANCE PF SHIFT PT REFERENCE  
 TO THE ST  
 LC LENGTH OF CIRCULAR CURVE  
 Ls1 LENGTH OF SPIRAL FROM TS TO SC  
 Ls2 LENGTH OF SPIRAL FROM CS TO ST  
 LSc LENGTH OF COMPOUND SPIRAL FROM CS TO SC  
 p1 OFFSET FROM INITIAL TANGENT TO PC OF THE  
 SHIFTED CIRCLE OF SPIRALIZED CURVE  
 p2 OFFSET FROM INITIAL TANGENT TO PT OF THE  
 SHIFTED CIRCLE OF SPIRALIZED CURVE  
 PC POINT OF CURVATURE  
 PCC POINT OF COMPOUND CURVE  
 PF POINT OF FROG  
 PI POINT OF INTERSECTION  
 PITO POINT OF INTERSECTION TURNOUT  
 POC POINT ON HORIZONTAL CURVE  
 POE POINT OF ENDING  
 POS POINT ON SPIRAL  
 POVc POINT ON VERTICAL CURVE  
 POVT POINT ON VERTICAL TANGENT  
 PRC POINT OF REVERSE CURVE  
 PRVC POINT OF REVERSE VERTICAL CURVE  
 PS POINT OF SWITCH  
 PT POINT OF TANGENT  
 SC POINT OF CHANGE FROM SPIRAL TO CIRCULAR CURVE  
 SPO POINT ON ORIGIN OF COMPOUND SPIRAL  
 SS POINT OF CHANGE BETWEEN SPIRALS  
 SSC SPIRAL TO SPIRAL POINT OF CURVATURE  
 ST POINT OF CHANGE FROM SPIRAL TO TANGENT  
 TC POINT OF CHANGE FROM TANGENT TO CURVE  
 TS POINT OF CHANGE FROM TANGENT TO SPIRAL  
 Ts1 TANGENT DISTANCE FROM TS TO PI  
 Ts2 TANGENT DISTANCE FROM ST TO PI  
 Xs1 TANGENT OFFSET AT THE SC  
 Xs2 TANGENT OFFSET AT THE CS  
 Δ TOTAL CENTRAL ANGLE OF THE SPIRALIZED CURVE  
 Δc CENTRAL ANGLE OF CIRCULAR CURVE (Lc) FROM  
 SC TO CS  
 Δc1 CENTRAL ANGLE OF FIRST CIRCULAR CURVE OF  
 COMPOUND CURVATURE  
 Δc2 CENTRAL ANGLE OF SECOND CIRCULAR CURVE OF  
 COMPOUND CURVATURE  
 θs1 CENTRAL ANGLE OF SPIRAL LENGTH Ls1 OR SPIRAL  
 ANGLE OF FIRST SPIRAL IN SPIRALIZED CURVE  
 θs2 CENTRAL ANGLE OF SPIRAL LENGTH Ls2 OR SPIRAL  
 ANGLE OF SECOND SPIRAL IN SPIRALIZED CURVE  
 θsc CENTRAL ANGLE OF COMPOUND SPIRAL OR  
 COMPOUND SPIRAL ANGLE FROM CS TO SC

Ac ACRES  
 AMP AMPERES  
 BTU BRITISH THERMAL UNIT  
 CAL CALIPER  
 CF CUBIC FEET  
 CP CANDLE POWER  
 CY CUBIC YARD  
 dB DECIBEL  
 DEG DEGREE  
 DIA DIAMETER  
 Eu UNBALANCED SUPERELEVATION  
 F FARENHEIT  
 FT FOOT,  
 FEET  
 g ACCELERATION DUE TO GRAVITY  
 GA GAUGE  
 GAL GALLON  
 GB GIGABYTE  
 GBPS GIGABITS PER SECOND  
 GHZ GIGAHERTZ  
 HR HOUR  
 HT HEIGHT  
 Hz HERTZ  
 ID INSIDE DIAMETER  
 IF INSIDE FACE  
 IN INCHES  
 IR INSIDE RADIUS  
 K KIPS (1000 POUNDS)  
 KCMIL THOUSAND CIRCULAR MILS  
 KHz KILOHERTZ  
 KSF KIPS PER SQUARE FOOT  
 KSI KIPS PER SQUARE INCH  
 KV KILOVOLTS  
 KVA KILOVOLTS-AMPERE  
 KVAR KILOVOLTS-AMPERE REACTIVE  
 KW KILOWATT  
 KWH/D KILOWATT HOUR / DEMAND  
 L LENGTH  
 LB POUNDS  
 LB/FT POUNDS PER FOOT  
 LF LINEAR FOOT  
 m METER  
 MBPS MEGABITS PER SECOND  
 MCM THOUSAND CIRCULAR MILS  
 MHz MEGAHERTZ  
 mm MILLIMETER  
 MPH MILES PER HOUR  
 MVA MEGAVOLT-AMPERE  
 MW MEGAWATT  
 OD OUTSIDE DIAMETER  
 PSF POUNDS PER SQUARE FOOT  
 PSI POUNDS PER SQUARE INCH  
 PSIG POUNDS PER SQUARE INCH GAUGE  
 SEC SECOND  
 SF SQUARE FEET  
 SY SQUARE YARD  
 TF TRACK FEET  
 VA VOLTS  
 VAC VOLT-AMPERE  
 VO VOLATILE  
 Y YARDS  
 YR(S) YEAR(S)

**X**

X/CAT CROSS CANTENARY  
 XD TRANSDUCER  
 XFMR TRANSFORMER  
 XO CROSSOVER  
 XOST CROSSOVER SPRING TENSIONER  
 XSEC CROSS SECTION  
 X/SPAN CROSS SPAN  
 XING CROSSING  
 XMITTER TRANSMITTER

**TRACK GEOMETRY - VERTICAL**

BVC BEGIN VERTICAL CURVE  
 Eo ACTUAL SUPERELEVATION  
 EVC END VERTICAL CURVE  
 PCVC POINT OF COMPOUND VERTICAL CURVE  
 POVc POINT ON VERTICAL CURVE  
 POVT POINT ON VERTICAL TANGENT  
 PVI POINT OF VERTICAL INTERSECTION  
 VC VERTICAL CURVE  
 VPI VERTICAL POINT OF INTERSECTION

**U**

UB UTILITY BOX  
 UBC UNIFORM BUILDING CODE  
 UC UNDERCROSSING  
 UD UNDERDRAIN  
 UG UNDERGROUND,  
 UNDERGRADE  
 UGB UNDERGRADE BRIDGE  
 UI USER INTERFACE  
 UNINS UNINSULATED  
 UON UNLESS OTHERWISE NOTED  
 UP UNDERPASS  
 UPS UNINTERRUPTIBLE POWER SUPPLY  
 UR URINAL  
 UrEDAS URGENT EARTHQUAKE DETECTION AND ALARM SYSTEM  
 USCS UNIFIED SOIL CLASSIFICATION SYSTEM  
 UTIL UTILITY  
 UTPUN SHIELDED TWISTED PAIR  
 UWP UPPER WORKING POINT

**V**

V VELOCITY,  
 DESIGN SPEED,  
 VALVE  
 VAC VOLTS ALTERNATING CURRENT  
 VAR VARIABLE,  
 VARIES  
 VCAT VIRTUAL CONCETENATION  
 VCE VERTICAL CIRCULATION ELEMENT  
 VCP VITRIFIED CLAY PIPE  
 VCT VINYL COMPOSITION TILE  
 VCD VOLT DC  
 VE VALUE ENGINEERING  
 VERT VERTICAL  
 VEST VESTIBULE  
 VIA VIADUCT  
 VLAN VIRTUAL LOCAL AREA NETWORK  
 VMS VARIABLE MESSAGE SIGN,  
 VARIABLE MESSAGE SYSTEM  
 VOL VOLTIMETER,  
 VOLUME  
 VOIP VOICE OVER INTERNET PROTOCOL  
 VPN VIRTUAL PRIVATE NETWORK  
 VRCS VOICE RADIO COMMUNICATIONS SYSTEM  
 VS VOLTAGE SWITCH  
 VT VOLTAGE TRANSFORMER/TRANSDUCER

**W**

W WEST,  
 WIDTH

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7/14/2021 11:33:43 AM c:\jip\pwworkdir\accusson\d0150149\k2l-ge-c0504.dgn

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY <b>C. CUSSON</b>
DRAWN BY <b>C. CUSSON</b>
CHECKED BY <b>C. LEE</b>
IN CHARGE <b>C. LEE</b>
DATE <b>07/15/2021</b>

**PEPD  
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**CALIFORNIA HIGH-SPEED TRAIN PROJECT**  
**BURBANK TO LOS ANGELES**  
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 SHEET 4 OF 5

CONTRACT NO. HSR14-39
DRAWING NO. GE-C0504
SCALE NO SCALE
SHEET NO.



**(AGENCIES/ORGANIZATIONS/REFERENCE)**

AAR ASSOCIATION OF AMERICAN RAILROADS  
 AASHTO AMERICAN ASSOCIATION OF STATE HIGHWAY TRANSPORTATION OFFICIALS  
 ACI AMERICAN CONCRETE INSTITUTE  
 ADA AMERICAN WITH DISABILITIES ACT (FEDERAL)  
 AISC AMERICAN INSTITUTE OF STEEL CONSTRUCTION  
 AMTRAK NATIONAL RAILROAD PASSENGER CORPORATION  
 ANSI AMERICAN NATIONAL STANDARDS INSTITUTE  
 ANSS ADVANCED NATIONAL SEISMIC SYSTEM  
 APWA AMERICAN PUBLIC WORKS ASSOCIATION  
 AREA AMERICAN RAILWAY ENGINEERING ASSOCIATION  
 AREMA AMERICAN RAILWAY ENGINEERING AND MAINTENANCE-OF-WAY ASSOCIATION  
 ARTIC ANAHEIM REGIONAL TRANSPORTATION INTERMODAL CENTER  
 ASCE AMERICAN SOCIETY OF CIVIL ENGINEERS  
 ASTM ASTM INTERNATIONAL, AMERICAN SOCIETY OF TESTING AND MATERIALS  
 ATC APPLIED TECHNOLOGY COUNCIL  
 AUTHORITY CALIFORNIA HIGH-SPEED RAIL AUTHORITY  
 AWS AMERICAN WELDING SOCIETY  
 BART BAY AREA RAPID TRANSIT DISTRICT  
 BDA BRIDGE DESIGN AIDS (CALTRANS)  
 BDD BRIDGE DESIGN DETAILS (CALTRANS)  
 BDP BRIDGE DESIGN PRACTICE (CALTRANS)  
 BDS BRIDGE DESIGN SPECIFICATIONS (CALTRANS)  
 BKLN BIKE LANE  
 BNSF BURLINGTON NORTHERN SANTA FE RAILWAY, BNSF RAILWAY  
 CALNET CALIFORNIA INTEGRATED TELECOMMUNICATIONS NETWORK  
 CALTRANS CALIFORNIA DEPARTMENT OF TRANSPORTATION  
 CBC CALIFORNIA BUILDING CODE  
 CBDM CALIFORNIA DEPARTMENT OF TRANSPORTATION-BRIDGE DESIGN MANUAL  
 CCR CALIFORNIA CODE OF REGULATIONS  
 CDC CALIFORNIA HIGH-SPEED TRAIN DESIGN CRITERIA  
 CEC CALIFORNIA ELECTRIC CODE  
 CEQA CALIFORNIA ENVIRONMENTAL QUALITY ACT  
 CFR CODE OF FEDERAL REGULATIONS  
 CHD COUNTY HEALTH DEPARTMENT  
 CHP CALIFORNIA DEPARTMENT OF HIGHWAY PATROL (STATE)  
 CHST CALIFORNIA HIGH-SPEED TRAIN  
 CHSTP CALIFORNIA HIGH-SPEED TRAIN PROJECT  
 CIWMB CALIFORNIA INTEGRATED WASTE MANAGEMENT BOARD  
 CPH CALIFORNIA PERMIT HANDBOOK  
 CPUC CALIFORNIA PUBLIC UTILITIES COMMISSION  
 CRR COMMUTER RAIL PROGRAM (STATE)  
 DOD DEPARTMENT OF DEFENSE (FEDERAL)  
 DOT DEPARTMENT OF TRANSPORTATION (FEDERAL)  
 DTX DOWNTOWN EXTENSION (CALTRAIN)  
 EIRENE EUROPEAN INTEGRATED RADIO ENHANCED NETWORK  
 ERTMS EUROPEAN RAIL TRAFFIC MANAGEMENT SYSTEM  
 FAA FEDERAL AVIATION ADMINISTRATION  
 FCC FEDERAL COMMUNICATIONS COMMISSION  
 FEMA FEDERAL EMERGENCY MANAGEMENT AGENCY  
 FHWA FEDERAL HIGHWAY ADMINISTRATION  
 FMFCD FRESNO METROPOLITAN FLOOD CONTROL DISTRICT  
 FRA FEDERAL RAILROAD ADMINISTRATION  
 FSTIP FEDERAL STATEWIDE TRANSPORTATION IMPROVEMENT PROGRAM  
 FTA FEDERAL TRANSIT ADMINISTRATION  
 GBR GEOTECHNICAL BASELINE REPORT  
 GBR-B GEOTECHNICAL BASELINE REPORT FOR BIDDING  
 GBR-C GEOTECHNICAL BASELINE REPORT FOR CONSTRUCTION  
 GDR GEOTECHNICAL DATA REPORT  
 IEEE INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS  
 ISO INTERNATIONAL ORGANIZATION FOR STANDARDIZATION  
 LACFCD LOS ANGELES COUNTY FLOOD CONTROL DEPARTMENT  
 LADWP LOS ANGELES DEPARTMENT OF WATER AND POWER  
 LAUS LOS ANGELES UNION STATION  
 LTC LOCAL TRANSPORTATION COMMISSION  
 METRO LOS ANGELES COUNTY METROPOLITAN TRANSIT AUTHORITY  
 MTA METROPOLITAN TRANSIT AUTHORITY  
 MUTCD MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES  
 MWD METROPOLITAN WATER DISTRICT  
 NAAQS NATIONAL AMBIENT AIR QUALITY STANDARDS  
 NAC NOISE ABATEMENT CRITERIA  
 NBSSR NOISE BARRIER SCOPE SUMMARY REPORT

**(AGENCIES/ORGANIZATIONS/REFERENCE CONTINUED)**

NEMA NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION  
 NENA NATIONAL EMERGENCY NUMBER ASSOCIATION  
 NESC NATIONAL ELECTRICAL SAFETY CODE  
 NFPA NATIONAL FIRE PROTECTION ASSOCIATION  
 NIST NATIONAL INSTITUTE OF STANDARDS AND TECHNOLOGY  
 OCFCD ORANGE COUNTY FLOOD CONTROL DISTRICT  
 OCTA ORANGE COUNTY TRANSPORTATION AUTHORITY  
 OSHA OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION  
 PEER PACIFIC EARTHQUAKE ENGINEER RESEARCH  
 PG&E PACIFIC GAS AND ELECTRIC COMPANY  
 PUC PUBLIC UTILITIES COMMISSION  
 RSA RAIL SAFETY IMPROVEMENT ACT (2008)  
 RWOCB REGIONAL WATER QUALITY CONTROL BOARD (STATE)  
 SAVE SOCIETY OF AMERICAN VALUE ENGINEERS  
 SCE SOUTHERN CALIFORNIA EDISON  
 SCRRA SOUTHERN CALIFORNIA REGIONAL RAIL AUTHORITY (METROLINK)  
 SDG&E SAN DIEGO GAS AND ELECTRIC COMPANY  
 SDNR SAN DIEGO NORTHERN RAILWAY  
 SHOPP STATE HIGHWAY OPERATION AND PROTECTION PROGRAM (FORMERLY HSOPP)  
 SHPO STATE HISTORIC PRESERVATION OFFICER (STATE)  
 SJRRA SAN JOAQUIN REGIONAL RAIL AUTHORITY  
 SMUD SACRAMENTO MUNICIPAL UTILITY DISTRICT  
 SPTC SOUTHERN PACIFIC TRANSPORTATION COMPANY  
 SSCOM SEISMIC SAFETY COMMISSION  
 SSORC SAFETY AND SECURITY OVERSIGHT AND REVIEW COMMITTEE  
 SVBX SILICON VALLEY BERRYESSA EXTENSION  
 SVRT SILICON VALLEY RAPID TRANSIT  
 UPRR UNION PACIFIC RAILROAD  
 US UNITED STATES  
 USCE UNITED STATES (ARMY) CORP OF ENGINEERS  
 USCG UNITED STATES COAST GUARD  
 USCS UNIFIED SOIL CLASSIFICATION SYSTEM  
 VTA VALLEY TRANSPORTATION AUTHORITY (OF SANTA CLARA COUNTY)

**(SEGMENT/COUNTY CODES AND SUBDIVISIONS)**

AJ ALTAMONT PASS  
 BP BAKERSFIELD TO PALMDALE  
 FB FRESNO TO BAKERSFIELD  
 FJ SAN FRANCISCO TO SAN JOSE  
 JM SAN JOSE TO MERCED  
 LD LOS ANGELES TO SAN DIEGO  
 LO LOS ANGELES TO ANAHEIM  
 MF MERCED TO FRESNO  
 PL PALMDALE TO LOS ANGELES  
 SM SACRAMENTO TO MERCED  
 B BAY SUBDIVISION  
 C CAPITAL SUBDIVISION  
 D DESERT SUBDIVISION  
 J SAN JACINTO SUBDIVISION  
 P PACHECO SUBDIVISION  
 S SIERRA SUBDIVISION  
 T TONGVA SUBDIVISION  
 ALA ALAMEDA  
 ALP ALPINE  
 AMA AMADOR  
 BUT BUTTE  
 CAL CALAVERAS  
 CC CONTRA COSTA  
 COL COLUSA  
 DN DEL NORTE  
 ED EL DORADO  
 FRE FRESNO  
 GLE GLENN  
 HUM HUMBOLT  
 IMP IMPERIAL  
 INY INYO  
 KER KERN  
 KIN KINGS  
 LA LOS ANGELES  
 LAK LAKE  
 LAS LASSEN  
 MAD MADERA  
 MEN MENDOCINO  
 MER MERCED  
 MNO MONO  
 MOD MODOC  
 MON MONTEREY  
 MPA MARIPOSA  
 MRN MARIN  
 NAP NAPA  
 NEV NEVADA  
 ORA ORANGE  
 PLA PLACER  
 PLU PLUMAS  
 RIV RIVERSIDE  
 SAC SACRAMENTO  
 SB SANTA BARBARA  
 SBD SAN BERNARDINO  
 SBT SAN BENITO  
 SCL SANTA CLARA  
 SCR SANTA CRUZ  
 SD SAN DIEGO  
 SF SAN FRANCISCO  
 SHA SHASTA  
 SIE SIERRA  
 SIS SISKIYOU  
 SJ SAN JOAQUIN  
 SLO SAN LUIS OBISPO  
 SM SAN MATEO  
 SOL SOLANO  
 SON SONOMA  
 STA STANISLAUS  
 SUT SUTTER  
 TEH TEHAMA  
 TRI TRINITY  
 TUL TULARE  
 TUO TUOLUMNE  
 VEN VENTURA  
 YOL YOLO  
 YUB YUBA

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REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
**C. CUSSON**  
 DRAWN BY  
**C. CUSSON**  
 CHECKED BY  
**C. LEE**  
 IN CHARGE  
**C. LEE**  
 DATE  
**07/15/2021**

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 RECORD SET**  
  
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**CALIFORNIA HIGH-SPEED TRAIN PROJECT**  
**BURBANK TO LOS ANGELES**  
 OPTION B REVISED ALIGNMENT - REVISED FINAL  
 PEPD  
 ACRONYMS AND ABBREVIATIONS  
 SHEET 5 OF 5

CONTRACT NO.  
 HSR14-39  
 DRAWING NO.  
 GE-C0505  
 SCALE  
 NO SCALE  
 SHEET NO.

**TRACK**

	EXISTING FREIGHT/PASSENGER TRACK
	NEW MAINLINE AND/OR INDUSTRY TRACK (SEE TRACK PLANS FOR DESIGNATION)
	BALLAST
	BUMPER/BUMPING POST
	CONCRETE
	DERAIL-DENOTES DERAIL DIRECTION AND LOCATION OF SWITCH MACHINE (LEFT-HAND SHOWN)
	DOUBLE CROSSOVER
	EARTH
	EXISTING TRACK (TO BE REMOVED)
	FRICTION BUFFER
	INSULATED JOINT
	INSULATED JOINT LOCATIONS-BOTH RAIL
	INSULATED JOINT LOCATIONS-LEFT RAIL
	INSULATED JOINT LOCATIONS-RIGHT RAIL
	POINT OF CURVATURE
	POINT OF SWITCH-DENOTES SWITCH MACHINE LOCATION
	PREPARED SUBGRADE
	RAIL LUBRICATOR-DIRECTION OF TRAVEL, (DT), TWO RAIL LUBRICATORS SHOWN
	SINGLE CROSSOVER (LEFT-HAND SHOWN)
	SPECIAL RAIL
	STANDARD BOLTED JOINT
	STANDARD RAIL
	SUBBALLAST
	TURNOUT (RIGHT HAND SHOWN)
	WELDED JOINT
	CONTROL POINT (CP)
	WALKWAY/DRAINAGE ENVELOPE

**CIVIL**

	AGGREGATE BASE
	ASPHALT CONCRETE
	BEGIN OR END PLATFORM
	BIKE STAND
	BREAK LINE
	BORINGS (EXISTING)
	CENTERLINE
	CENTERLINE TEXT SYMBOL
	CLEAN OUT
	COLUMN, BENT
	CONCRETE
	CONCRETE BARRIER
	CONTOUR LINE
	CONTROL PANEL
	CONTROL POINT OR STREET INTERSECTION POINT
	COORDINATE GRID CROSSAIR
	CURB WITH GUTTER (CURB-LIP, FLOW LINE, BACK-TOP OF CURB)
	CURVE NUMBER
	CURVE NUMBER (TRACK GEOMETRY)
	TANGENT NUMBER
	DITCH/DRAINAGE FLOW LINE
	DOUBLE THRIE BEAM BARRIER
	DROP INLET
	ROUND DROP INLET
	DETENTION BASIN
	EARTHWORK LIMITS
	ELEVATIONS

**CIVIL CONTINUED**

	ELEVATION (EXISTING)
	ELECTROLIER, ELECTROLIER ON POLE
	EXISTING GUARD RAILING
	EXISTING WALL
	FENCE
	FIRE HYDRANT
	FLOW LINE
	GRADED/LANDSCAPED AREA
	GAS METER
	GAS VALVE
	GUARD POST
	GUARD RAIL
	GRAVEL OR DIRT ROAD
	GUY WIRE
	HIGH MAST LIGHTING
	HORIZONTAL & VERTICAL CONTROL MONUMENT
	HORIZONTAL CONTROL MONUMENT
	ICV
	MAIL BOX
	MANHOLE
	MATCH LINE (DWG NO.)
	MATCH LINE
	NEW ASPHALTIC CONCRETE
	NEW GUARD RAILING
	NEWS STAND
	NORTH ARROW
	ORIGINAL GROUND
	PARKING METER
	POINT OF INTERSECTION

**CIVIL CONTINUED**

	POINT OF INTERSECTION SYMBOL
	POINT OF VERTICAL INTERSECTION
	POWER POLE
	PROPERTY LINE
	RETAINING WALL
	RIVER, STREAMS, AND CREEKS
	SECTION DESIGNATION (LETTER) DRAWING NO. ON WHICH SECTION AND DETAIL APPEARS
	SECTION OR DETAIL TITLE
	SPOT ELEVATION
	TILDE (TERMINATOR)
	SIGNALIZED INTERSECTION
	STATION EQUATION
	STREET LIGHT
	STREET LIGHT POWER POLE
	STREET LIGHT TRAFFIC SIGNAL
	STREET SIGN
	STRUCTURE CLEARANCE ENVELOPE
	SUPER AXIS OF ROTATION
	TELEPHONE BOOTH
	TELEPHONE POLE
	TEMPORARY RAILING (TYPE K)
	TIRE DERIVED AGGREGATE
	TRACK ALIGNMENT CENTER LINE
	TRAFFIC PANEL
	TRAFFIC SIGNAL
	TRANSMISSION TOWER

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REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
**C. CUSSON**  
DRAWN BY  
**C. CUSSON**  
CHECKED BY  
**C. LEE**  
IN CHARGE  
**C. LEE**  
DATE  
**08/27/2021**

**PEPD RECORD SET**  
  
**NOT FOR CONSTRUCTION**

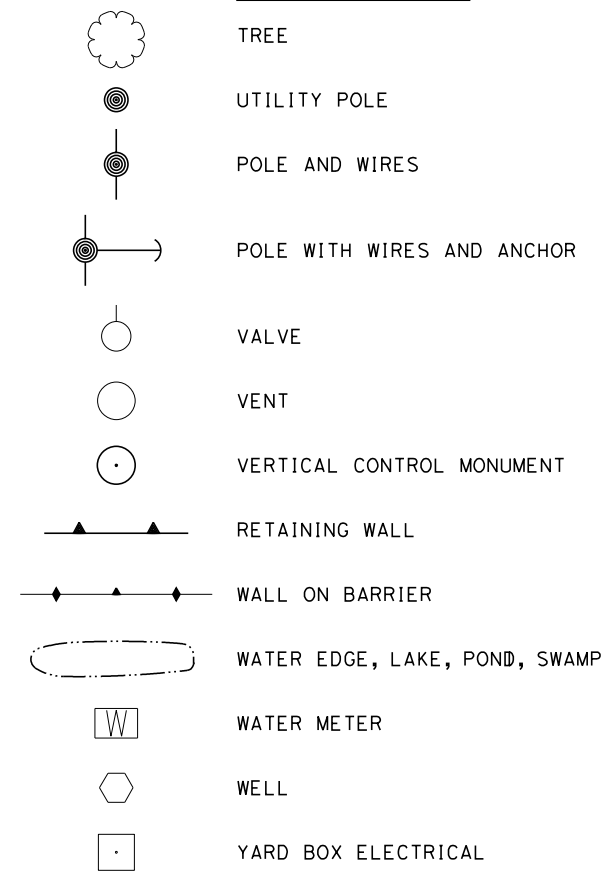


**CALIFORNIA HIGH-SPEED TRAIN PROJECT**  
**BURBANK TO LOS ANGELES**  
OPTION B REVISED ALIGNMENT - REVISED FINAL  
PEPD SYMBOLS  
SHEET 1 OF 2

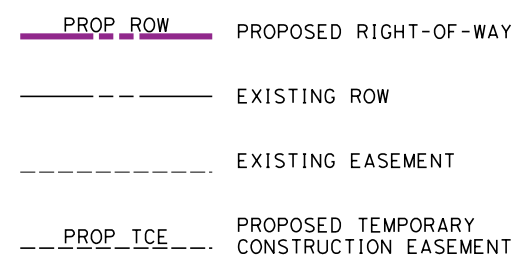
CONTRACT NO.  
HSR14-39  
DRAWING NO.  
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SHEET NO.

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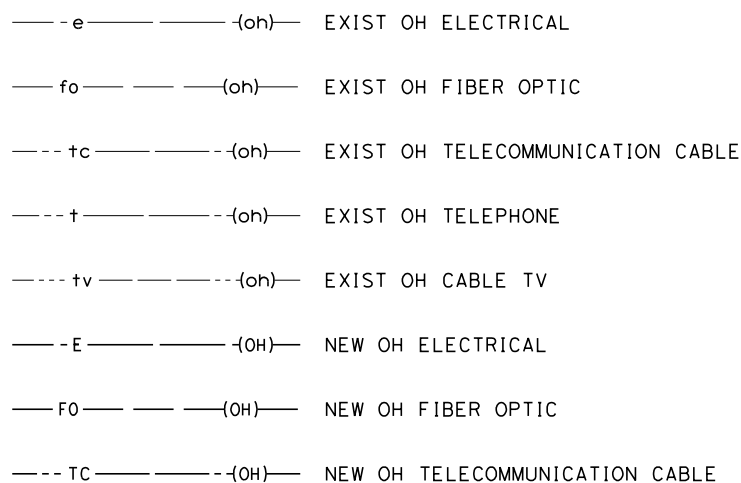
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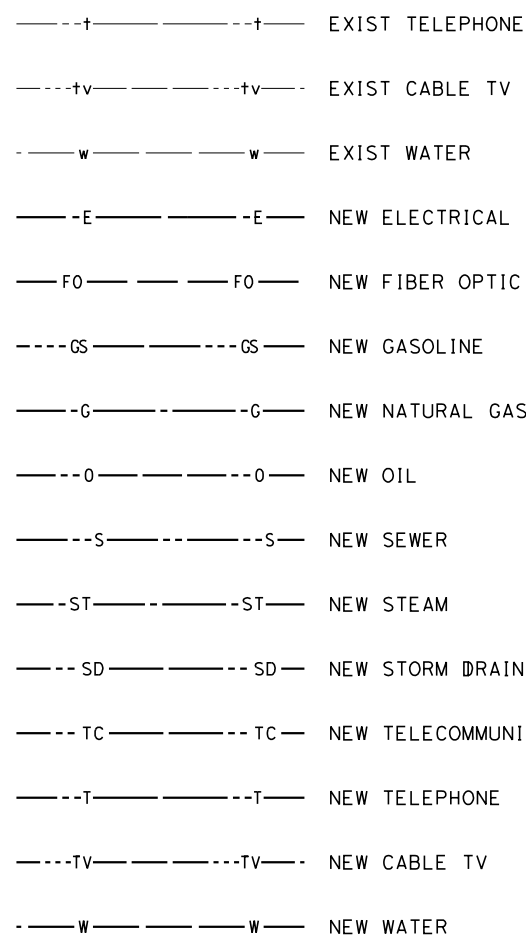
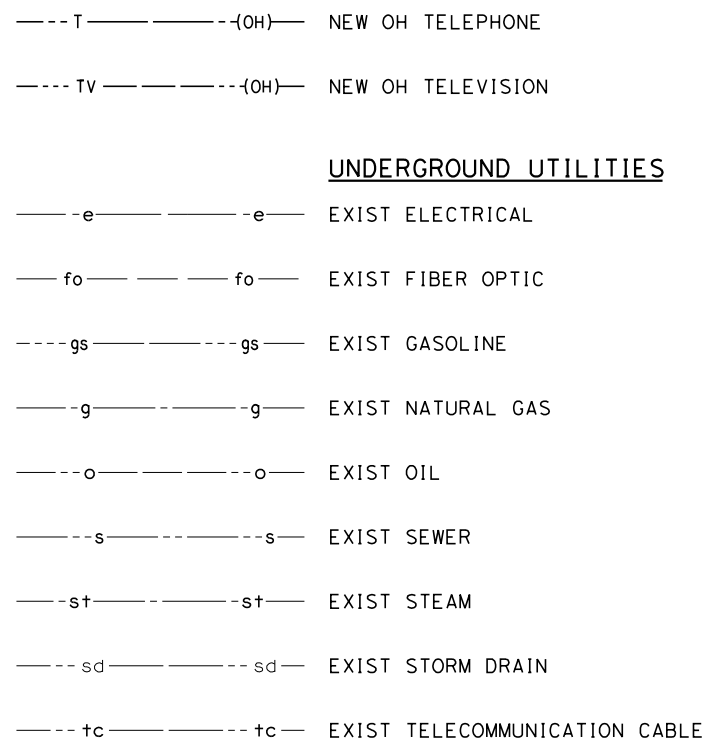
**RIGHT-OF-WAY**



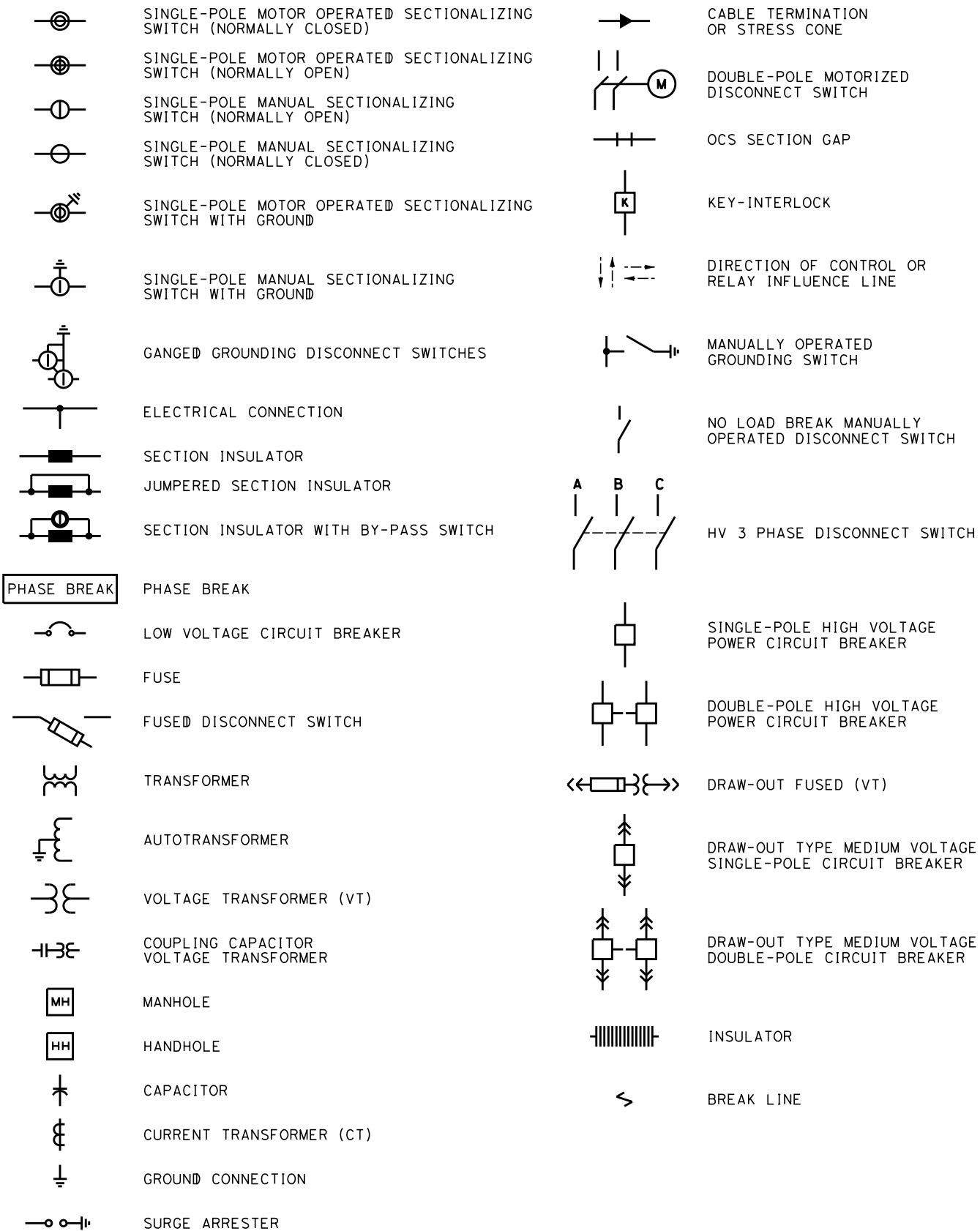
**AERIAL UTILITIES**



**AERIAL UTILITIES CONTINUED**



**TRACTION POWER**



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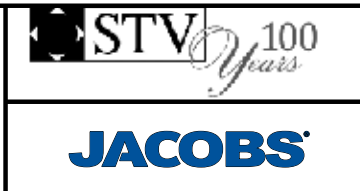
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**C. CUSSON**  
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**C. LEE**  
IN CHARGE  
**C. LEE**  
DATE  
**07/15/2021**

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RECORD SET**

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**CALIFORNIA HIGH-SPEED TRAIN PROJECT**  
**BURBANK TO LOS ANGELES**  
OPTION B REVISED ALIGNMENT - REVISED FINAL  
PEPD  
SYMBOLS  
SHEET 2 OF 2

CONTRACT NO.  
HSR14-39  
DRAWING NO.  
GE-C0512  
SCALE  
NO SCALE  
SHEET NO.



**GENERAL NOTES**

**VOLUME 3.1**

1. FOR UPRR ALIGNMENTS, SEE "TT-D1500" SHEETS.
2. FOR GRADE SEPARATION DETAILS, SEE VOLUME 3.
3. FOR AERIAL STRUCTURE DETAILS, SEE VOLUME 2.
4. RAIL ALIGNMENT BETWEEN MAIN STREET, UNION STATION, AND 1ST STREET IS BEING DESIGNED BY METRO'S LINKUS TEAM. THE ALIGNMENT THAT IS SHOWN IS BASED ON LATEST COORDINATION WITH THEIR TEAM, SHOWN FOR REFERENCE ONLY AND SUBJECT TO CHANGE.
5. SCRRA TURNOUT GEOMETRY IS BASED ON THE 2009 EDITION OF THE SCRRA ENGINEERING STANDARDS.
6. PROPOSED FENCE, WHERE INDICATED ON PLANS, REPRESENT AN ACCESS CONTROL WALL WITH FENCE. REFER TO TM 2.8.2 FOR ACCESS CONTROL FOR HIGH-SPEED RAIL RIGHT-OF-WAY AND FACILITIES.
7. FOR TUNNEL INFORMATION, SEE TUNNEL PLANS IN VOLUME 2.

**VOLUME 3.2**

1. FOR TRACK INFORMATION, SEE TRACK PLANS IN VOLUME 1.
2. FOR RIGHT-OF-WAY INFORMATION, SEE RIGHT-OF-WAY PLANS IN VOLUME 1.
3. FOR BRIDGE INFORMATION, SEE STRUCTURAL PLANS IN VOLUME 3.
4. FOR UTILITY INFORMATION, SEE UTILITY PLANS IN VOLUME 4.
5. FOR GRADING INFORMATION, SEE GRADING PLANS IN VOLUME 4.
6. FOR DRAINAGE INFORMATION, SEE DRAINAGE PLANS IN VOLUME 4.
7. FOR SYSTEM INFORMATION, SEE SYSTEM PLANS IN VOLUME 4.
8. FOR TRENCH INFORMATION, SEE STRUCTURAL PLANS IN VOLUME 4.
9. ACCESS DETERRING SOLID BARRIER RAILING TO BE INSTALLED ON ALL EXISTING AND PROPOSED OVERHEAD BRIDGE STRUCTURES CROSSING HSR TRACKS PER RDP DIRECTIVE NO. 0006.

**VOLUME 3.3**

1. FOR TRACK INFORMATION, SEE TRACK PLANS IN VOLUME 1.
2. FOR RIGHT-OF-WAY INFORMATION, SEE RIGHT-OF-WAY PLANS IN VOLUME 1.
3. FOR AERIAL STRUCTURE INFORMATION, SEE STRUCTURAL PLANS IN VOLUME 2.
4. FOR RETAINING WALL INFORMATION, SEE RETAINING WALL PLANS IN VOLUME 2.
5. FOR UTILITY INFORMATION, SEE UTILITY PLANS IN VOLUME 4.
6. FOR GRADING INFORMATION, SEE GRADING PLANS IN VOLUME 4.
7. FOR DRAINAGE INFORMATION, SEE DRAINAGE PLANS IN VOLUME 4.
8. FOR SYSTEM INFORMATION, SEE SYSTEM PLANS IN VOLUME 4.
9. FOR TRENCH INFORMATION, SEE STRUCTURAL PLANS IN VOLUME 4.
10. ACCESS DETERRING SOLID BARRIER RAILING TO BE INSTALLED ON ALL EXISTING AND PROPOSED OVERHEAD BRIDGE STRUCTURES CROSSING HSR TRACKS PER RDP DIRECTIVE NO. 0006.
11. FINAL DESIGN PROJECT TO COMPLY WITH NFPA 1901 (2016 EDITION) SECTION 12.3.2.3 FOR ALL GRADE SEPARATION AND STREET IMPROVEMENTS.
12. FINAL STREET IMPROVEMENT DESIGN TO MAINTAIN FIRE DEPARTMENT AND PEDESTRIAN ACCESS.

**VOLUME 3.4**

EXISTING COMPOSITE UTILITY NOTES:

1. FOR TRACK INFORMATION, SEE TRACK PLANS IN VOLUME 1.
2. UTILITY CONFLICTS ON CROSSING STREETS AT EXISTING GRADE SEPARATIONS ARE ANTICIPATED.
3. ONLY THE FOLLOWING UTILITIES SHALL BE CONSIDERED MAJOR AND ARE IDENTIFIED IN THE UTILITY CONFLICTS MATRIX ON THE DRAWINGS.
  - A. WET UTILITIES:
    - I. SEWER, WATER, STORM DRAIN GREATER THAN OR EQUAL TO 12".
    - II. ALL OIL LINES.
    - III. ALL FUEL (GASOLINE) LINES.
  - B. DRY UTILITIES:
    - I. ALL GAS LINES.
    - II. ALL FIBER OPTIC LINES.
    - III. ALL ELECTRIC LINES GREATER THAN 240V.
    - IV. ALL DUCT BANKS WITH 6 OR MORE DUCTS.
    - V. EXCLUDE INDIVIDUAL TELEPHONE, CABLE LINES.
  - C. ALL OTHER CONFLICTS ARE CONSIDERED MINOR AND ARE NOT SHOWN IN THE UTILITY CONFLICT MATRIX.
  - D. UTILITIES AT GRADE SEPARATIONS ARE NOT SHOWN IN THE UTILITY CONFLICTS MATRIX EVEN IF THEY FALL UNDER THE ABOVE CRITERIA SINCE VOLUMES 3 & 4 OFFER MORE SPECIFIC AND ACCURATE INFORMATION REGARDING THE DESIGN.

**VOLUME 3.4 (CONT.)**

4. REFER TO TRACK PLANS, VOLUME 1 AND PROPOSED UTILITY PLANS, VOLUME 4, FOR VERTICAL UTILITY CONFLICTS.
5. ADJUST UTILITY MANHOLES TO GRADE WHERE IMPACTED BY EARTHWORK OR STREET IMPROVEMENTS.
6. USE LACTMA STANDARD DRAWINGS (2010) FOR TEMPORARY SUPPORT OF UTILITIES IMPACTED BY CUT AND FILL OPERATIONS.

GRADING AND DRAINAGE NOTES:

1. CONTOUR GRADING ALONG THE HSR TRACKS IS BASED ON THE TOP OF SUBGRADE ELEVATIONS. BALLAST IS NOT INCLUDED
2. FOR RETAINING WALL INFORMATION, SEE RETAINING WALL PLANS IN VOLUME 2.

**VOLUME 3.5**

1. FOR MAIN LINE TRACK INFORMATION, SEE TRACK PLANS IN VOLUME 1.
2. FOR RIGHT-OF-WAY INFORMATION, SEE RIGHT-OF-WAY PLANS IN VOLUME 1.
3. FOR BRIDGE INFORMATION, SEE STRUCTURAL PLANS IN VOLUME 3.
4. FOR UTILITY INFORMATION, SEE UTILITY PLANS IN VOLUME 4.
5. FOR GRADING INFORMATION WITHIN MAIN LINE ROW, SEE GRADING PLANS IN VOLUME 4.
6. FOR DRAINAGE INFORMATION WITHIN MAIN LINE ROW, SEE DRAINAGE PLANS IN VOLUME 4.
7. FOR SYSTEM INFORMATION, SEE SYSTEM PLANS IN VOLUME 4.

**VOLUME 3.6**

1. CONSTRUCTION PHASING PROVIDED FOR PROPOSED WORK SOUTH OF HSR BURBANK STATION TO MAIN STREET. PHASING OF HSR BURBANK STATION AND LINKUS PROJECT NOT INCLUDED AS PART OF THIS SUBMITTAL

**VOLUME 3.7**

1. HSR BURBANK STATION CONCEPT DESIGN PROVIDED AS REFERENCE TO WORK PROPOSED AS PART OF THE PALMDALE TO BURBANK SEGMENT. FINAL DESIGN COORDINATION REQUIRED AT INTERFACE SOUTH OF STATION.

**VOLUME 3.8**

1. LINKUS DESIGN PROVIDED AS REFERENCE TO WORK SOUTH OF MAIN STREET EXTENDING INTO LA UNION STATION.
2. FINAL DESIGN COORDINATION REQUIRED AT INTERFACE WEST OF MISSION TOWER BRIDGE. PROPOSED TRACK DESIGN BASED ON BEST AVAILABLE INFORMATION AT TIME OF DESIGN.

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REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY <b>C. LEE</b>
DRAWN BY <b>C. CUSSON</b>
CHECKED BY <b>C. LEE</b>
IN CHARGE <b>C. LEE</b>
DATE <b>07/15/2021</b>

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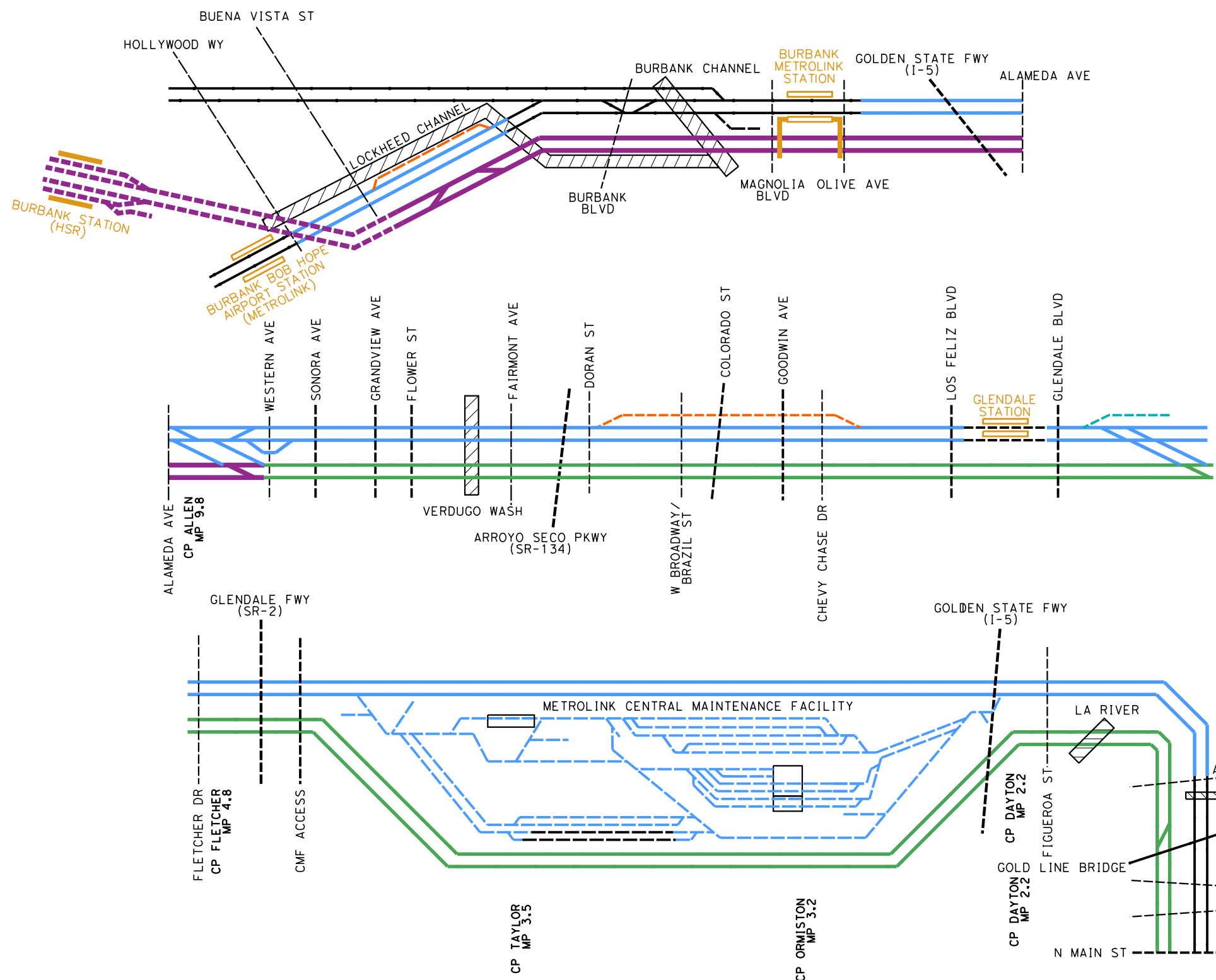
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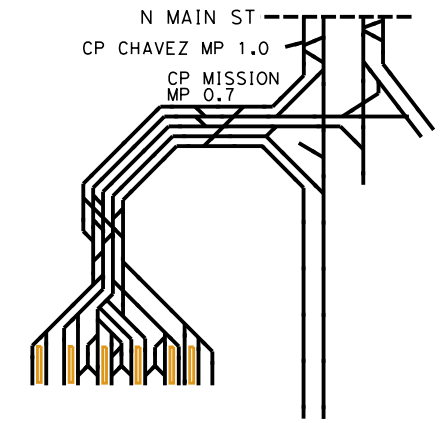
**CALIFORNIA HIGH-SPEED TRAIN PROJECT**  
**BURBANK TO LOS ANGELES**  
OPTION B REVISED ALIGNMENT - REVISED FINAL  
PEPD  
GENERAL NOTES

CONTRACT NO. HSR14-39
DRAWING NO. GE-B0511
SCALE NO SCALE
SHEET NO.

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- ▭ EXISTING STATION PLATFORM
- ▭ EXISTING STATION PLATFORM WITH PEDESTRIAN BRIDGE/TUNNEL
- ▭ NEW STATION PLATFORM
- ▭ NEW STATION PLATFORM WITH PEDESTRIAN BRIDGE/TUNNEL



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**CALIFORNIA HIGH-SPEED TRAIN PROJECT**

**BURBANK TO LOS ANGELES**

OPTION B REVISED ALIGNMENT - REVISED FINAL

PEPD

TRACK SCHEMATIC

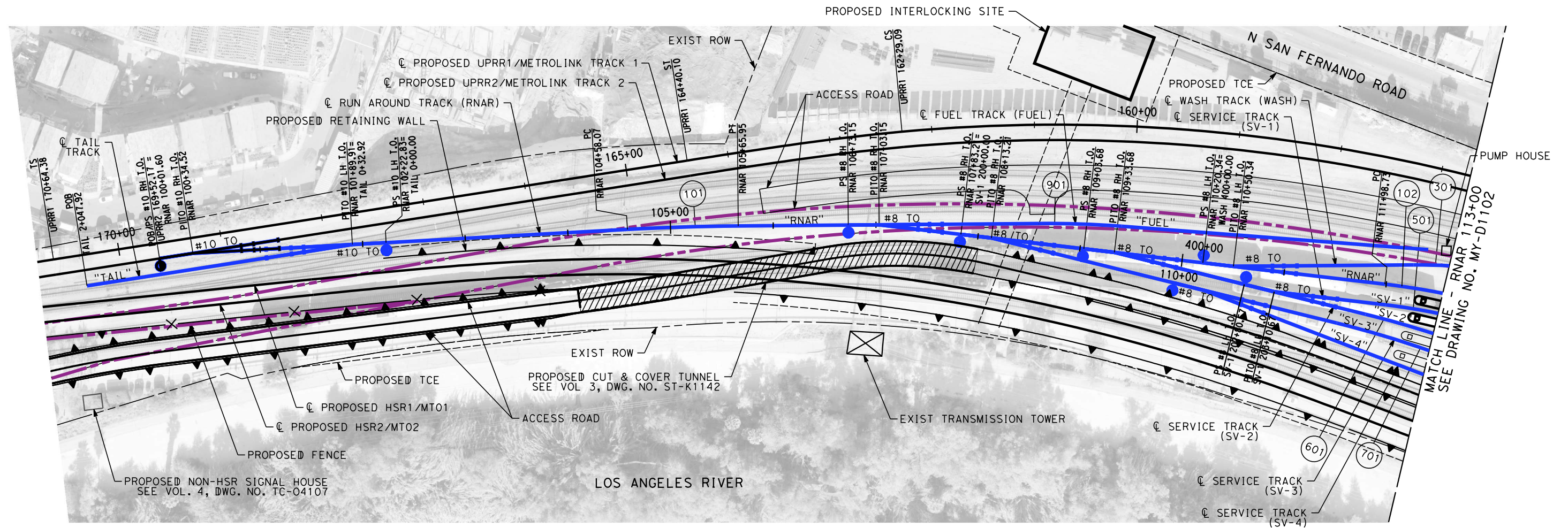
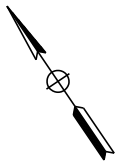
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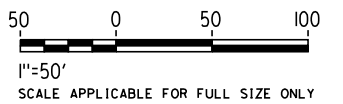
SCALE  
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SHEET NO.





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DESIGNED BY  
**C. CUSSON**  
DRAWN BY  
**C. CUSSON**  
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**C. LEE**  
IN CHARGE  
**C. LEE**  
DATE  
**08/27/2021**

**PEPD  
RECORD SET**

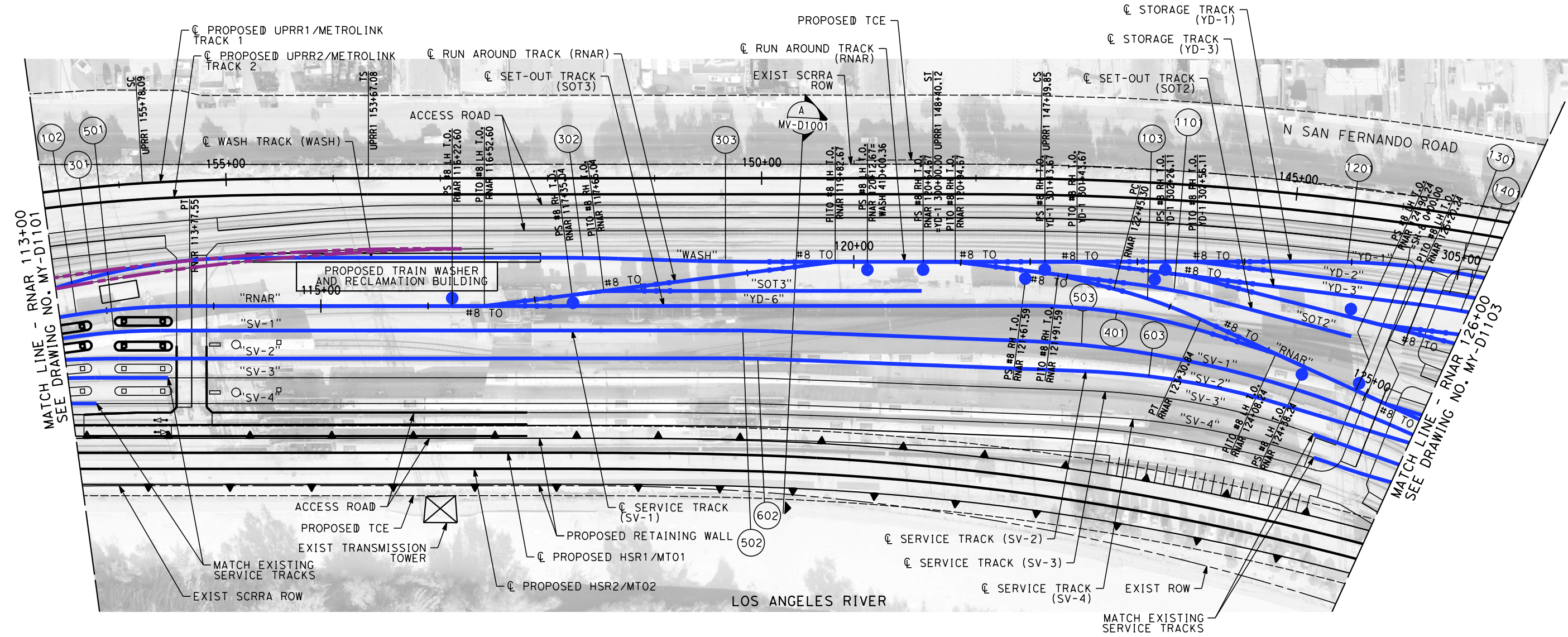
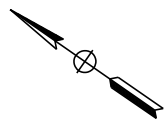
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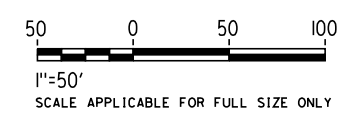
**CALIFORNIA HIGH-SPEED TRAIN PROJECT  
BURBANK TO LOS ANGELES**  
OPTION B REVISED ALIGNMENT - REVISED FINAL  
PEPD  
CMF  
TRACK PLAN - SHEET 1 OF 4

CONTRACT NO.  
HSR14-39  
DRAWING NO.  
MY-D1101  
SCALE  
AS SHOWN  
SHEET NO.





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DESIGNED BY  
**M. HAYNES**  
DRAWN BY  
**I. MORENO**  
CHECKED BY  
**C. LEE**  
IN CHARGE  
**C. LEE**  
DATE  
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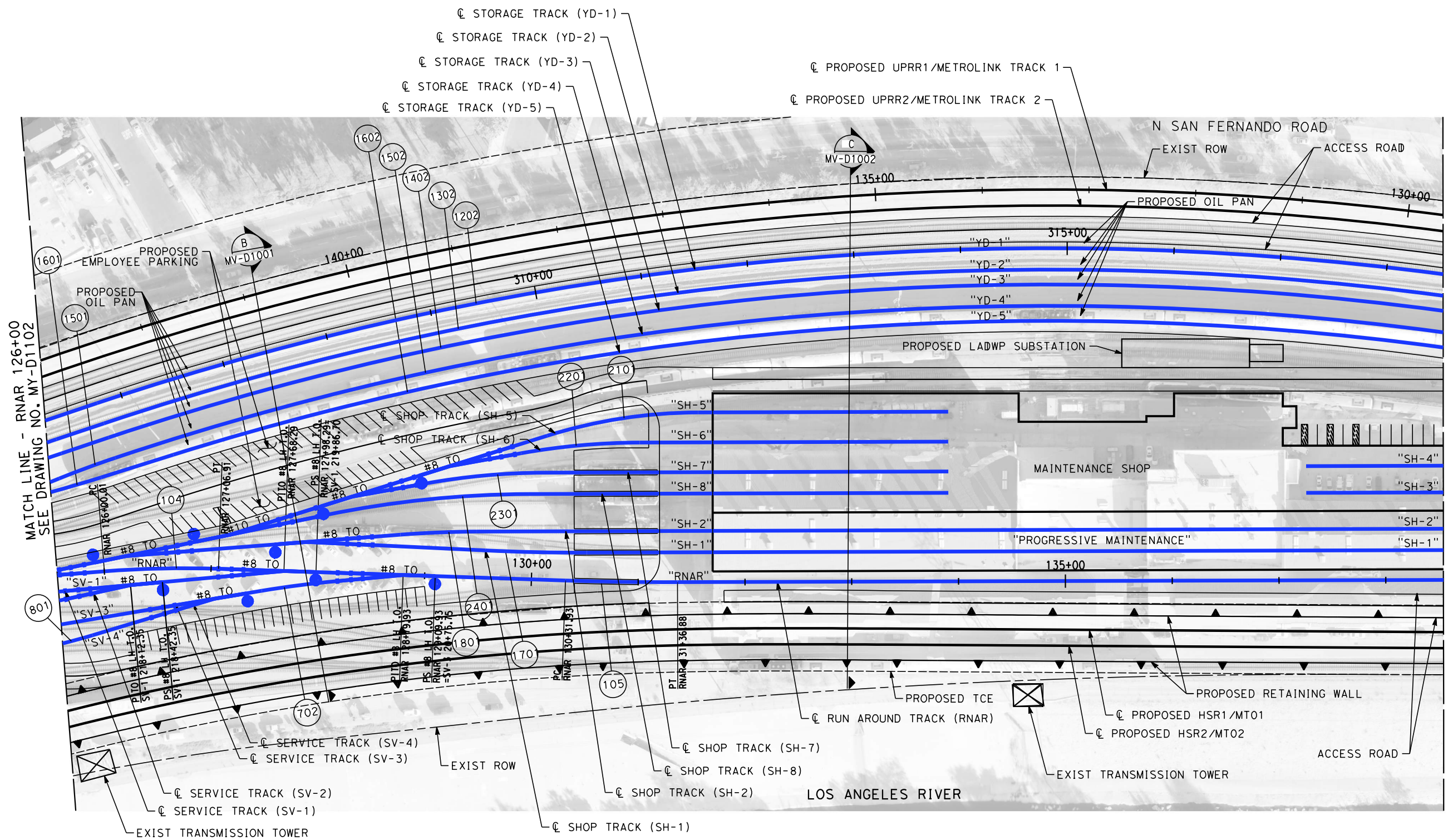
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**CALIFORNIA HIGH-SPEED TRAIN PROJECT**  
**BURBANK TO LOS ANGELES**  
OPTION B REVISED ALIGNMENT - REVISED FINAL  
PEPD  
CMF  
TRACK PLAN - SHEET 2 OF 4

CONTRACT NO.  
HSR14-39  
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SCALE  
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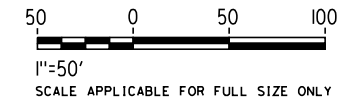




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SEE DRAWING NO. MY-D1102

MATCH LINE - RNAR 139+00  
SEE DRAWING NO. MY-D1104

**NOTE:**  
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**M. HAYNES**

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**I. MORENO**

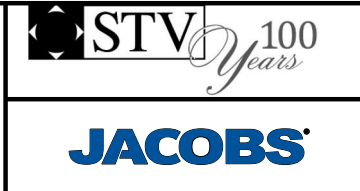
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**CALIFORNIA HIGH-SPEED TRAIN PROJECT**  
**BURBANK TO LOS ANGELES**  
OPTION B REVISED ALIGNMENT - REVISED FINAL  
PEPD  
CMF  
TRACK PLAN - SHEET 3 OF 4

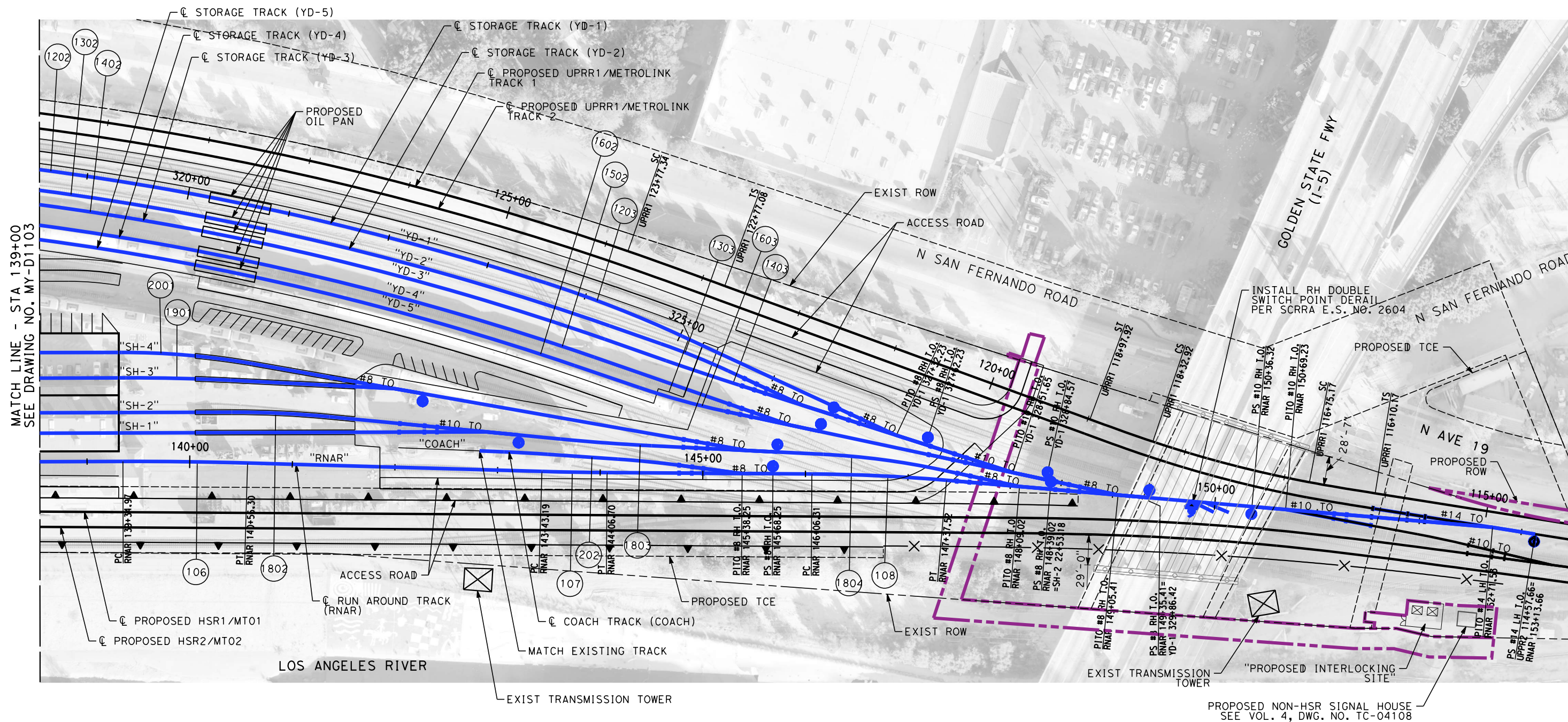
CONTRACT NO.  
HSR14-39

DRAWING NO.  
MY-D1103

SCALE  
AS SHOWN

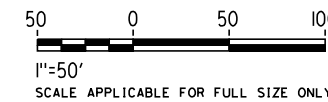
SHEET NO.





MATCH LINE - STA 139+00  
SEE DRAWING NO. MY-D1103

**NOTE:**  
STATIONING FOR ONLY SELECT TRACKS SHOWN.



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9/8/2021 3:52:42 PM c:\j\p\work\kdr\c\lee\d0150150\k2l-my-D1104.dgn LeeCh

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
**M. HAYNES**

DRAWN BY  
**I. MORENO**

CHECKED BY  
**C. LEE**

IN CHARGE  
**C. LEE**

DATE  
**08/27/2021**

**PEPD  
RECORD SET**

**NOT FOR  
CONSTRUCTION**



**CALIFORNIA HIGH-SPEED TRAIN PROJECT**  
**BURBANK TO LOS ANGELES**  
OPTION B REVISED ALIGNMENT - REVISED FINAL  
PEPD  
CMF  
TRACK PLAN - SHEET 4 OF 4

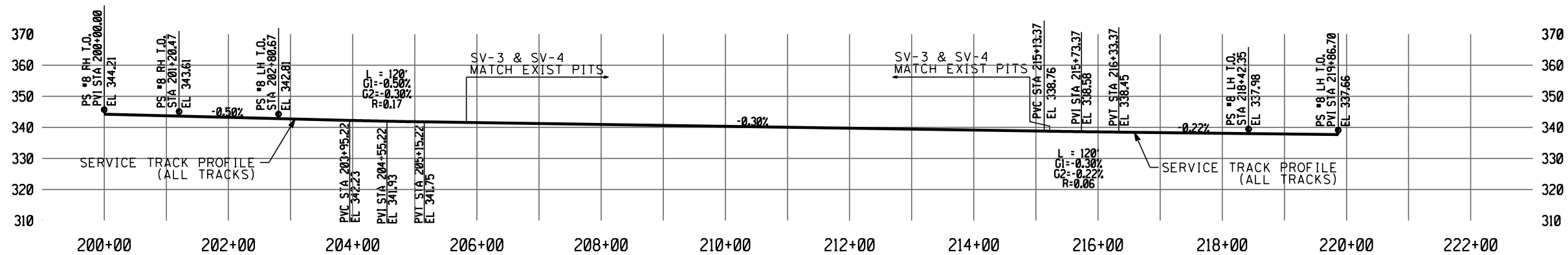
CONTRACT NO.  
HSR14-39

DRAWING NO.  
MY-D1104

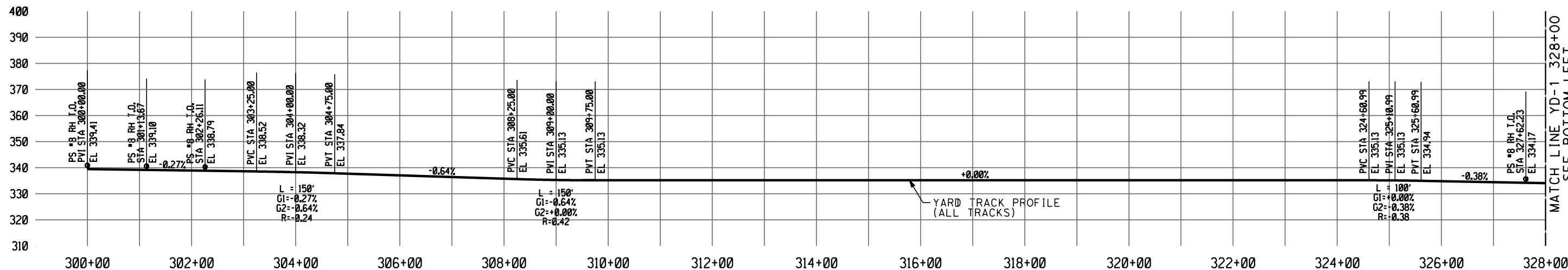
SCALE  
AS SHOWN

SHEET NO.

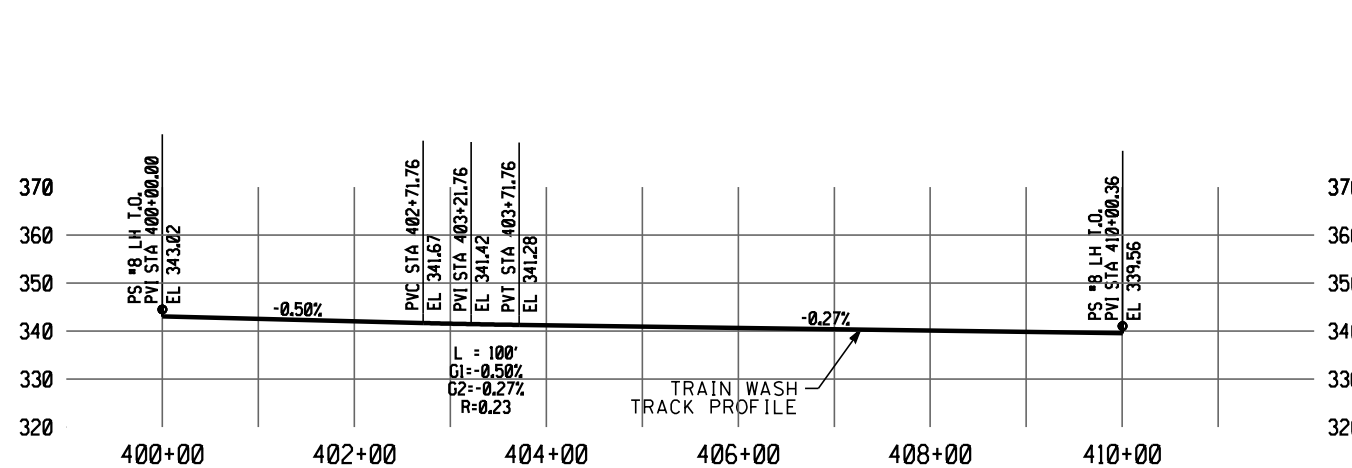
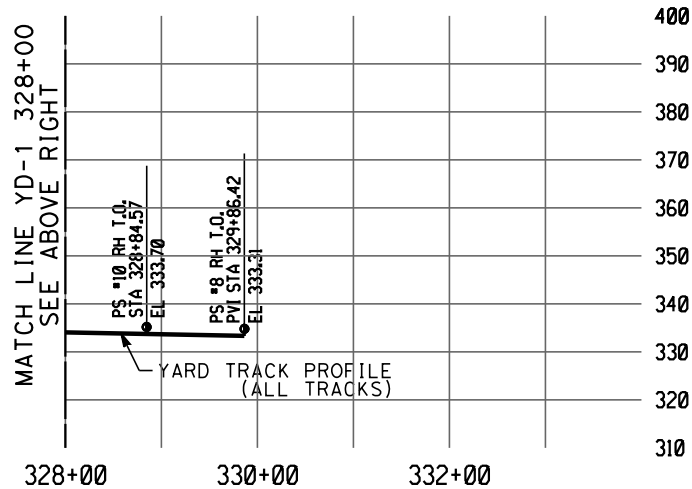




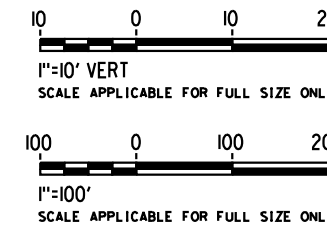
PROFILE  
"SV-1"



PROFILE  
"YD-1"



PROFILE  
"WASH"



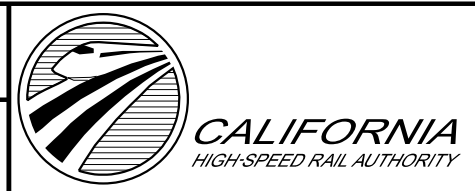
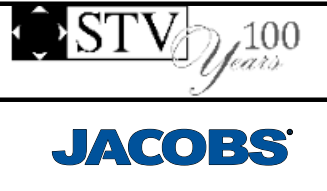
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7/13/2021 3:24:13 PM c:\jip\pwworkdir\jag\_garyo\d0150150\k2l-my-D1201.dgn GARYA

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
**M. HAYNES**  
DRAWN BY  
**I. MORENO**  
CHECKED BY  
**C. LEE**  
IN CHARGE  
**C. LEE**  
DATE  
**07/15/2021**

PEPD  
RECORD SET  
  
NOT FOR  
CONSTRUCTION

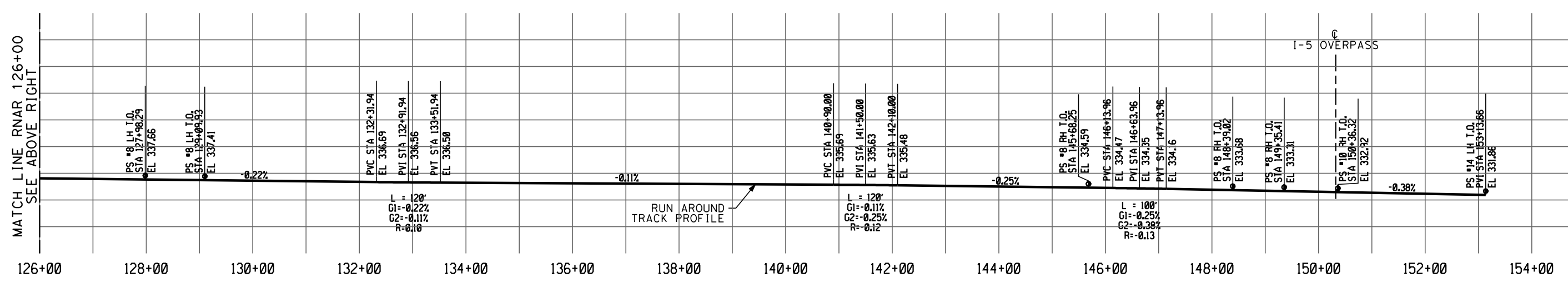
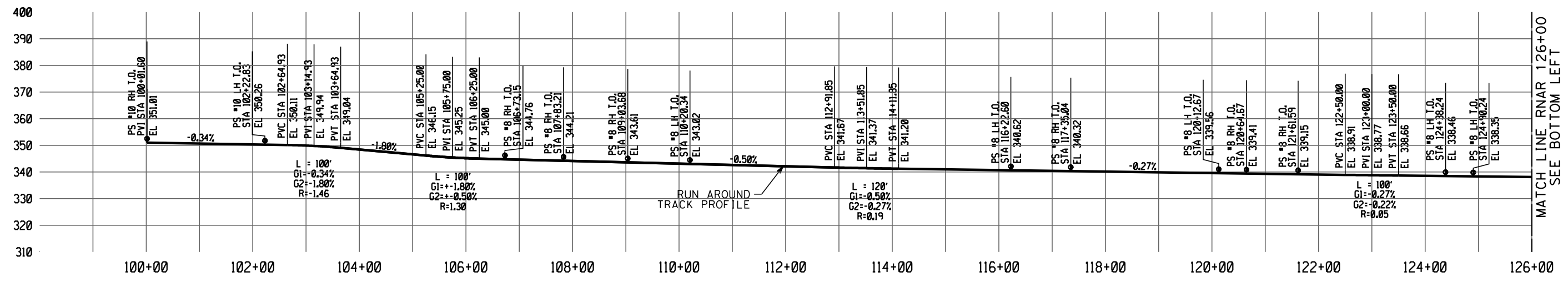


**CALIFORNIA HIGH-SPEED TRAIN PROJECT**  
**BURBANK TO LOS ANGELES**  
OPTION B REVISED ALIGNMENT - REVISED FINAL  
PEPD  
CMF  
TRACK PROFILE - SHEET 1 OF 2

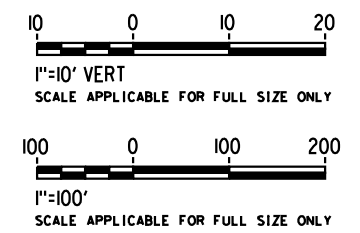
CONTRACT NO.  
HSR14-39  
DRAWING NO.  
MY-D1201  
SCALE  
AS SHOWN  
SHEET NO.



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PROFILE  
"RNAR"



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FOR INTERNAL USE ONLY

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
**M. HAYNES**  
DRAWN BY  
**I. MORENO**  
CHECKED BY  
**C. LEE**  
IN CHARGE  
**C. LEE**  
DATE  
**07/15/2021**

**PEPD RECORD SET**  
  
**NOT FOR CONSTRUCTION**



**CALIFORNIA HIGH-SPEED TRAIN PROJECT**  
**BURBANK TO LOS ANGELES**  
OPTION B REVISED ALIGNMENT - REVISED FINAL  
PEPD  
CMF  
TRACK PROFILE - SHEET 2 OF 2

CONTRACT NO.  
HSR14-39  
DRAWING NO.  
MY-D1202  
SCALE  
AS SHOWN  
SHEET NO.



TAIL TRACK GEOMETRY TABLE (TAIL)

STATIONING DATA							INPUT DATA					CURVE DATA				SPIRAL DATA										
CURVE NO.	DESC	BEARING	DISTANCE	STATION	NORTHING	EASTING	Dc	Ea	Eu	V(PAS)	V(FRT)	LS	I	RADIUS	Δ	L	T	θs	X	Y	P	K	LT	ST	Ts	
							degrees	inches	inches	mph	mph	feet	degrees	feet	degrees	feet	feet	degrees	feet	feet	feet	feet	feet	feet	feet	feet
#10 TO	POE/PS	N58°57'50"W	32.92	0+00.00	1856730.294	6491294.793																				
	PITO		215.00	0+32.92	1856747.266	6491266.587																				
	POE			2+47.92	1856839.186	6491072.228																				

WASH TRACK GEOMETRY TABLE (WASH)

STATIONING DATA							INPUT DATA					CURVE DATA				SPIRAL DATA										
CURVE NO.	DESC	BEARING	DISTANCE	STATION	NORTHING	EASTING	Dc	Ea	Eu	V(pas)	V(fr+)	LS	I	RADIUS	Δ	L	T	θs	X	Y	o	Xo	LT	ST	Ts	
							degrees	inches	inches	mph	mph	feet	degrees	feet	degrees	feet	feet	degrees	feet	feet	feet	feet	feet	feet	feet	feet
#8 TO	POB/PS	S49°06'51"E	30.00	400+00.00	1856247.590	6491983.287																				
	PI	S56°16'01"E	175.45	400+30.00	1856227.952	6492005.968																				
301	PC			402+05.45	1856130.520	6492151.879																				
	PI				1856070.155	6492242.279	10°00'00"	0.00	0.70	10	-		21°27'30"	573.69	21°27'30"	214.86	108.70									
	PT	S34°48'31"E	282.31	404+20.04	1855980.904	6492304.330																				
302	PC			407+02.35	1855749.107	6492465.485																				
	PI				1855722.298	6492484.123	2°30'00"	0.00	0.18	10	-		1°37'56"	2292.01	1°37'56"	65.30	32.65									
303	PT	S33°10'35"E	73.71	407+67.64	1855694.970	6492501.990																				
	PC			408+41.35	1855633.278	6492542.324																				
303	PI				1855605.950	6492560.191	2°30'00"	0.00	0.18	10	-		1°37'56"	2292.01	1°37'56"	65.30	32.65									
	PT	S34°48'31"E	93.72	409+06.64	1855579.142	6492578.829																				
#8 TO	PITO	S34°48'31"E	30.00	409+70.36	1855526.821	6492615.204																				
	PS/POE	S34°48'31"E	30.00	410+00.36	1855502.188	6492632.330																				

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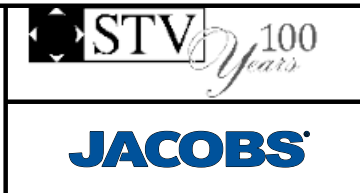
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REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
**M. HAYNES**  
DRAWN BY  
**C. NATHAN**  
CHECKED BY  
**C. LEE**  
IN CHARGE  
**C. LEE**  
DATE  
**07/15/2021**

**PEPD  
RECORD SET**

**NOT FOR  
CONSTRUCTION**



**CALIFORNIA HIGH-SPEED TRAIN PROJECT**  
**BURBANK TO LOS ANGELES**  
OPTION B REVISED ALIGNMENT - REVISED FINAL  
PEPD  
CMF  
HORIZONTAL ALIGNMENT DATA - SHEET 2 OF 8

CONTRACT NO.  
HSR14-39  
DRAWING NO.  
TT-E6119  
SCALE  
NO SCALE  
SHEET NO.



SERVICE TRACK (SV-1) TRACK GEOMETRY TABLE																										
STATIONING DATA						INPUT DATA						CURVE DATA					SPIRAL DATA									
CURVE NO.	DESC	BEARING	DISTANCE	STATION	NORTHING	EASTING	Dc	Ea	Eu	V(pos)	V(frnt)	LS	I	RADIUS	Δ	L	T	θs	X	Y	o	Xo	LT	ST	Ts	
							degrees	inches	inches	mph	mph	feet	degrees	feet	degrees	feet	feet	degrees	feet	feet	feet	feet	feet	feet	feet	feet
#8 TO	POB/PS	S49°06'51"E	30.00	200+00.00	1856402.805	6491804.013																				
	PITO	S49°06'51"E	90.47	200+30.00	1856383.167	6491826.694																				
#8 TO	PITO	S49°06'51"E	30.00	201+20.47	1856323.952	6491895.088																				
	PS	S41°57'41"E	130.20	201+50.47	1856304.315	6491917.769																				
#8 TO	PITO	S41°57'41"E	30.00	202+80.67	1856207.497	6492004.826																				
	PS	S49°06'51"E	109.43	203+10.67	1856185.188	6492024.886																				
501	PC			204+20.10	1856113.559	6492107.618																				
	PI				1856066.435	6492162.046	10°00'00"	0	0.70	10	-		14°18'20"	573.69	14°18'20"	143.06	71.99									
502	PT			205+63.16	1856007.324	6492203.142																				
	PC	S34°48'31"E	531.94	210+95.10	1855570.568	6492506.793																				
503	PI				1855555.404	6492517.335	6°00'00"	0	0.42	10	-		2°12'54"	955.37	2°12'54"	36.92	18.47									
	PT	S32°35'37"E	235.31	211+32.02	1855539.844	6492527.284																				
#8 TO	PITO	S10°58'36"E	84.74	217+27.61	1855008.868	6492787.020																				
	PS	S10°58'36"E	30.00	218+12.35	1854925.678	6492803.155																				
#8 TO	PITO	S10°58'36"E	114.35	218+42.35	1854896.226	6492808.867																				
	PS/POE	S03°49'26"E	30.00	219+56.70	1854783.972	6492830.639																				
				219+86.70	1854754.038	6492832.640																				

SERVICE TRACK (SV-2) TRACK GEOMETRY TABLE																										
STATIONING DATA						INPUT DATA						CURVE DATA					SPIRAL DATA									
CURVE NO.	DESC	BEARING	DISTANCE	STATION	NORTHING	EASTING	Dc	Ea	Eu	V(pos)	V(frnt)	LS	I	RADIUS	Δ	L	T	θs	X	Y	o	Xo	LT	ST	Ts	
							degrees	inches	inches	mph	mph	feet	degrees	feet	degrees	feet	feet	degrees	feet	feet	feet	feet	feet	feet	feet	feet
#8 TO	POB/PS	S49°06'51"E	30.00	210+00.00	1856323.952	6491895.088																				
	PITO	S41°57'41"E	130.20	210+30.00	1856304.315	6491917.769																				
#8 TO	PS	S41°57'41"E	30.00	211+60.20	1856207.497	6492004.826																				
	PITO	S41°57'41"E	91.51	211+90.20	1856185.188	6492024.886																				
601	PC			212+81.71	1856117.145	6492086.069																				
	PI				1856072.743	6492125.994	6°00'00"	0	0.42	10	-		7°09'10"	955.37	7°09'10"	119.27	59.71									
602	PT			214+00.92	1856023.717	6492160.080																				
	PC	S34°48'31"E	569.48	219+70.40	1855556.139	6492485.158																				
603	PI				1855540.975	6492495.701	6°00'00"	0	0.42	10	-		2°12'54"	955.37	2°12'54"	36.93	18.47									
	PT	S32°35'37"E	295.46	220+07.32	1855525.415	6492505.649																				
#8 TO	PITO	S18°00'49"E	195.96	223+02.78	1855276.487	6492664.806																				
	PS/POE	S10°58'36"E	30.00	224+85.03	1855112.032	6492742.556	8°00'00"	0	0.56	10	-		14°34'48"	716.78	14°34'48"	182.40	91.70									
				226+80.99	1854925.678	6492803.155																				
				227+10.99	1854896.226	6492808.867																				

SERVICE TRACK (SV-3) TRACK GEOMETRY TABLE																										
STATIONING DATA						INPUT DATA						CURVE DATA					SPIRAL DATA									
CURVE NO.	DESC	BEARING	DISTANCE	STATION	NORTHING	EASTING	Dc	Ea	Eu	V(pos)	V(frnt)	LS	I	RADIUS	Δ	L	T	θs	X	Y	o	Xo	LT	ST	Ts	
							degrees	inches	inches	mph	mph	feet	degrees	feet	degrees	feet	feet	degrees	feet	feet	feet	feet	feet	feet	feet	feet
#8 TO	POB/PS	S49°06'51"E	30.00	0+00.00	1856402.805	6491804.013																				
	PITO	S41°57'41"E	183.17	0+30.00	1856383.167	6491826.694																				
#8 TO	PS	S41°57'41"E	30.00	2+13.17	1856246.961	6491949.168																				
	PITO	S41°57'41"E	133.04	2+43.17	1856224.653	6491969.228																				
701	PC			3+76.21	1856125.728	6492058.179																				
	PI				1856081.327	6492098.104	6°00'00"	0	0.42	10	-		7°09'10"	955.37	7°09'10"	119.27	59.71									
CONNECT TO EXISTING	PT			4+95.42	1856032.300	6492132.189																				
	POT	S34°48'31"E	568.06	5+63.48	1855976.418	6492171.041																				
#8 TO	PITO	S15°15'15"E	231.07	16+36.86	1855068.790	6492737.575																				
	PS	S15°15'15"E	30.00	18+67.92	1854845.862	6492798.370																				
702	PC			18+97.93	1854816.918	6492806.263																				
	PI			19+12.60	1854802.757	6492810.125																				
#8 TO	PITO	S10°58'36"E	61.86		1854768.334	6492819.513	6°00'00"	0	0.42	10	-		4°16'39"	955.37	4°16'40"	71.33	35.68									
	PS/POE	S03°49'26"E	30.00	19+83.90	1854733.306	6492826.307																				
				20+45.75	1854672.582	6492838.084																				
				20+75.75	1854642.648	6492840.085																				

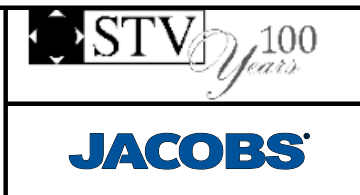
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REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
**M. HAYNES**  
DRAWN BY  
**C. NATHAN**  
CHECKED BY  
**C. LEE**  
IN CHARGE  
**C. LEE**  
DATE  
**07/15/2021**

**PEPD RECORD SET**  
  
**NOT FOR CONSTRUCTION**



**CALIFORNIA HIGH-SPEED TRAIN PROJECT**  
**BURBANK TO LOS ANGELES**  
OPTION B REVISED ALIGNMENT - REVISED FINAL  
PEPD  
CMF  
HORIZONTAL ALIGNMENT DATA - SHEET 3 OF 8

CONTRACT NO.  
HSR14-39  
DRAWING NO.  
TT-E6120  
SCALE  
NO SCALE  
SHEET NO.

SERVICE TRACK (SV-4) TRACK GEOMETRY TABLE

STATIONING DATA				INPUT DATA						CURVE DATA				SPIRAL DATA												
CURVE NO.	DESC	BEARING	DISTANCE	STATION	NORTHING	EASTING	Dc	Eo	Eu	V(pas)	V(frnt)	LS	I	RADIUS	Δ	L	T	θs	X	Y	o	Xo	LT	ST	Ts	
							degrees	inches	inches	mph	mph	feet	degrees	feet	degrees	feet	feet	degrees	feet	feet	feet	feet	feet	feet	feet	feet
#8 TO	POB/PS	S41°57'41"E	30.00	0+00.00	1856246.961	6491949.168																				
	PITO	S34°48'31"E	252.27	0+30.00	1856224.653	6491969.228																				
	POT			2+82.27	1856017.521	6492113.234																				
CONNECT TO EXISTING																										
801	POT	S15°51'18"E	27.77	14+22.60	1855055.818	6492719.997																				
	PC			14+50.38	1855029.100	6492727.585																				
	PI				1854991.951	6492738.136	8°30'00"	0.00	0.59	10	-	6°33'07"	674.69	6°33'07"	77.15	38.62										
#8 TO	PT	S22°24'25"E	119.40	15+27.46	1854956.248	6492752.856																				
	PS/POE	S15°15'15"E	30.00	16+46.86	1854845.862	6492798.370																				
				16+76.86	1854816.918	6492806.263																				

FUEL TRACK GEOMETRY TABLE (FUEL)

STATIONING DATA				INPUT DATA						CURVE DATA				SPIRAL DATA												
CURVE NO.	DESC	BEARING	DISTANCE	STATION	NORTHING	EASTING	Dc	Eo	Eu	V(PAS)	V(FRT)	LS	I	RADIUS	Δ	L	T	θs	X	Y	P	K	LT	ST	Ts	
							degrees	inches	inches	mph	mph	feet	degrees	feet	degrees	feet	feet	degrees	feet	feet	feet	feet	feet	feet	feet	feet
#8 TO	PS	S56°18'03"E	30.00	0+00.00	1856471.870	6491718.535																				
	PITO	S56°18'03"E	155.29	0+30.00	1856455.055	6491743.551																				
	PC			1+85.29	1856368.893	6491872.749																				
901	PI				1856346.516	6491906.303	6°00'00"	0.00	0.42	10	-	4°50'05"	955.37	4°50'05"	80.61	40.33										
	PT	S51°27'58"E	299.36	2+65.87	1856321.390	6491937.852																				
	POE			5+65.23	1856134.896	6492172.023																				

COACH TRACK GEOMETRY TABLE (COACH)

STATIONING DATA				INPUT DATA						CURVE DATA				SPIRAL DATA												
CURVE NO.	DESC	BEARING	DISTANCE	STATION	NORTHING	EASTING	Dc	Eo	Eu	V(PAS)	V(FRT)	LS	I	RADIUS	Δ	L	T	θs	X	Y	P	K	LT	ST	Ts	
							degrees	inches	inches	mph	mph	feet	degrees	feet	degrees	feet	feet	degrees	feet	feet	feet	feet	feet	feet	feet	feet
#8 TO	POE/PS	N05°22'23"W	30.00	0+00.00	1852991.359	6492990.992																				
	PITO	N01°46'47"E	62.49	0+30.00	1853021.228	6492988.183																				
	PC			0+92.49	1853083.690	6492990.123																				
1001	PI				1853113.396	6492991.046	6°00'00"	0.00	0.42	10	-	3°33'49"	955.37	3°33'49"	59.42	29.72										
	PT	N01°47'03"W	68.39	1+51.89	1853143.103	6492990.121																				
1002	PC			2+20.28	1853211.464	6492987.992																				
	PI				1853232.753	6492987.329	4°00'00"	0.00	0.28	10	-	1°42'12"	1432.69	1°42'12"	42.59	21.30										
	PT	N03°29'15"W	23.96	2+62.87	1853254.012	6492986.033																				
	POE			2+86.83	1853277.927	6492984.576																				

SET-OUT TRACK (SOT2) GEOMETRY TABLE

STATIONING DATA				INPUT DATA						CURVE DATA				SPIRAL DATA												
CURVE NO.	DESC	BEARING	DISTANCE	STATION	NORTHING	EASTING	Dc	Eo	Eu	V(pas)	V(frnt)	LS	I	RADIUS	Δ	L	T	θs	X	Y	o	Xo	LT	ST	Ts	
							degrees	inches	inches	mph	mph	feet	degrees	feet	degrees	feet	feet	degrees	feet	feet	feet	feet	feet	feet	feet	feet
#8 TO	POB/PS	S27°39'21"E	30.00	0+00.00	1855375.588	6492710.200																				
	PITO	S27°39'21"E	70.151	0+30.00	1855349.014	6492724.125																				
	PC			1+00.15	1855286.878	6492756.686																				
1101	PI				1855252.337	6492774.786	10°00'00"	0.00	0.70	10	-	7°46'38"	573.686	7°46'38"	77.872	38.996										
	PT	S19°52'42"E	131.952	1+77.93	1855215.664	6492788.046																				
	POE			3+09.88	1855091.574	6492832.913																				

SET-OUT TRACK (SOT3) GEOMETRY TABLE

STATIONING DATA				INPUT DATA						CURVE DATA				SPIRAL DATA												
CURVE NO.	DESC	BEARING	DISTANCE	STATION	NORTHING	EASTING	Dc	Eo	Eu	V(pas)	V(frnt)	LS	I	RADIUS	Δ	L	T	θs	X	Y	o	Xo	LT	ST	Ts	
							degrees	inches	inches	mph	mph	feet	degrees	feet	degrees	feet	feet	degrees	feet	feet	feet	feet	feet	feet	feet	
#8 TO	PS	S41°57'41"E	30.001	0+00.00	1855710.96	6492449.63																				
	PITO	S34°48'31"E	296.547	0+30.00	1855688.65	6492469.69																				
	POE			3+26.55	1855445.17	6492638.97																				

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REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
**M. HAYNES**  
DRAWN BY  
**C. NATHAN**  
CHECKED BY  
**C. LEE**  
IN CHARGE  
**C. LEE**  
DATE  
**07/15/2021**

**PEPD RECORD SET**

**NOT FOR CONSTRUCTION**



**CALIFORNIA HIGH-SPEED TRAIN PROJECT**  
**BURBANK TO LOS ANGELES**  
OPTION B REVISED ALIGNMENT - REVISED FINAL  
PEPD  
CMF  
HORIZONTAL ALIGNMENT DATA - SHEET 4 OF 8

CONTRACT NO.  
HSR14-39  
DRAWING NO.  
TT-E6121  
SCALE  
NO SCALE  
SHEET NO.

STORAGE TRACK (YD-1) GEOMETRY TABLE (YD-1)																										
STATIONING DATA						INPUT DATA						CURVE DATA					SPIRAL DATA									
CURVE NO.	DESC	BEARING	DISTANCE	STATION	NORTHING	EASTING	Dc	Ea	Eu	V(pas)	V(frnt)	LS	I	RADIUS	Δ	L	T	θs	X	Y	o	Xo	LT	ST	Ts	
							degrees	inches	inches	mph	mph	feet	degrees	feet	degrees	feet	feet	degrees	feet	feet	feet	feet	feet	feet	feet	feet
#8 TO	POB/PS	S34°48'31"E	30.00	300+00.00	1855459.493	6492662.014																				
	PITO	S34°48'31"E	83.67	300+30.00	1855434.860	6492679.139																				
#8 TO	PS	S34°48'31"E	30.00	301+13.67	1855366.161	6492726.901																				
	PITO	S34°48'31"E	82.44	301+43.67	1855341.529	6492744.027																				
#8 TO	PS	S34°48'31"E	30.00	302+26.11	1855273.844	6492791.084																				
	PITO	S34°48'31"E	119.67	302+56.11	1855249.212	6492808.209																				
1201	PC			303+75.78	1855150.952	6492876.524																				
	PI				1855096.562	6492914.337	8°00'00"	0.00	0.56	10	-		10°33'37"	716.78	10°33'37"	132.00	66.24									
1202	PT	S24°14'54"E	68.39	305+07.79	1855036.163	6492941.543																				
	PC			305+76.17	1854973.809	6492969.629																				
1203	PI				1854132.331	6493348.657	2°02'21"	0.00	0.14	10	-		36°21'53"	2809.93	36°21'53"	1783.33	922.90									
	PCC	S12°06'59"W	0.00	323+59.50	1853229.989	6493154.940																				
#8 TO	PITO	S12°06'59"W	230.06	323+59.50	1853229.989	6493154.940																				
	PS	S19°14'59"W	30.00	325+02.17	1853092.678	6493116.387																				
#8 TO	PITO	S12°05'49"W	89.42	327+32.23	1852875.482	6493040.540																				
	PS	S12°05'49"W	32.92	327+62.23	1852846.147	6493034.252																				
#10 TO	PITO	S06°22'20"W	71.85	328+51.65	1852758.713	6493015.513																				
	PS	S06°22'20"W	30.00	328+84.57	1852725.998	6493011.859																				
#8 TO	PITO	S00°46'50"E	30.00	329+56.42	1852654.587	6493003.884																				
	PS/POE			329+86.42	1852624.589	6493004.293																				

STORAGE TRACK (YD-2) GEOMETRY TABLE (YD-2)																										
STATIONING DATA						INPUT DATA						CURVE DATA					SPIRAL DATA									
CURVE NO.	DESC	BEARING	DISTANCE	STATION	NORTHING	EASTING	Dc	Ea	Eu	V(pas)	V(frnt)	LS	I	RADIUS	Δ	L	T	θs	X	Y	o	Xo	LT	ST	Ts	
							degrees	inches	inches	mph	mph	feet	degrees	feet	degrees	feet	feet	degrees	feet	feet	feet	feet	feet	feet	feet	feet
#8 TO	POB/PS	S34°48'31"E	30.00	0+00.00	1855273.844	6492791.084																				
	PITO	S27°39'21"E	202.68	0+30.00	1855249.212	6492808.209																				
1301	PC			2+32.68	1855069.691	6492902.283																				
	PI				1855039.491	6492918.109	5°00'00"	0.00	0.35	10	-		3°24'27"	1146.28	3°24'27"	68.15	34.10									
1302	PT	S24°14'54"E	46.95	3+00.83	1855008.403	6492932.112																				
	PC			3+47.78	1854965.595	6492951.394																				
1303	PI				1854093.714	6493344.116	2°03'14"	0.00	0.14	10	-		37°50'18"	2789.93	37°50'18"	1842.38	956.25									
	PT	S13°35'24"W	53.03	21+90.15	1853164.239	6493119.425																				
#8 TO	PITO	S19°14'59"W	79.53	22+43.18	1853112.696	6493106.965																				
	PS/POE	S12°05'49"W	30.00	23+13.93	1853044.805	6493086.958	8°00'00"	0.00	0.56	10	-		5°39'36"	716.78	5°39'36"	70.75	35.43									
#8 TO	PITO	S12°05'49"W	30.00	23+93.47	1852969.717	6493060.737																				
	PS/POE			24+23.47	1852940.382	6493054.449																				

STORAGE TRACK (YD-3) GEOMETRY TABLE (YD-3)																										
STATIONING DATA						INPUT DATA						CURVE DATA					SPIRAL DATA									
CURVE NO.	DESC	BEARING	DISTANCE	STATION	NORTHING	EASTING	Dc	Ea	Eu	V(pas)	V(frnt)	LS	I	RADIUS	Δ	L	T	θs	X	Y	o	Xo	LT	ST	Ts	
							degrees	inches	inches	mph	mph	feet	degrees	feet	degrees	feet	feet	degrees	feet	feet	feet	feet	feet	feet	feet	feet
#8 TO	POB/PS	S34°48'31"E	30.00	0+00.00	1855366.161	6492726.901																				
	PITO	S27°39'21"E	73.96	0+30.00	1855341.529	6492744.027																				
#8 TO	PS	S27°39'21"E	30.00	1+03.96	1855276.016	6492778.357																				
	PITO	S27°39'21"E	209.86	1+33.97	1855249.442	6492792.283																				
1401	PC			3+43.82	1855063.562	6492889.689																				
	PI				1855033.361	6492905.515	5°00'00"	0.00	0.35	10	-		3°24'27"	1146.28	3°24'27"	68.15	34.10									
1402	PT	S24°14'54"E	46.53	4+11.97	1855002.273	6492919.518																				
	PC			4+58.50	1854959.846	6492938.629																				
1403	PI				1854092.339	6493329.381	2°03'51"	0.00	0.14	10	-		37°50'18"	2775.93	37°50'18"	1833.13	951.45									
	PT	S13°35'24"W	63.41	22+91.64	1853167.528	6493105.817																				
#8 TO	PITO	S12°05'49"W	64.84	23+55.05	1853105.891	6493090.917																				
	PS	S12°05'49"W	30.00	24+29.69	1853033.113	6493074.324																				
#8 TO	PITO	S12°05'49"W	66.37	24+94.53	1852969.717	6493060.737																				
	PS	S12°05'49"W	30.00	25+24.53	1852940.382	6493054.449																				
#10 TO	PITO	S06°22'20"W	89.42	25+90.90	1852875.482	6493040.540																				
	PS/POE	S12°05'49"W	32.92	26+20.90	1852846.147	6493034.252																				
#10 TO	PITO	S06°22'20"W	30.00	27+10.32	1852758.713	6493015.513																				
	PS/POE			27+43.24	1852725.998	6493011.859																				

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REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
**M. HAYNES**  
DRAWN BY  
**C. NATHAN**  
CHECKED BY  
**C. LEE**  
IN CHARGE  
**C. LEE**  
DATE  
**07/15/2021**

**PEPD  
RECORD SET**

**NOT FOR  
CONSTRUCTION**



**CALIFORNIA HIGH-SPEED TRAIN PROJECT**  
**BURBANK TO LOS ANGELES**  
OPTION B REVISED ALIGNMENT - REVISED FINAL  
PEPD  
CMF  
HORIZONTAL ALIGNMENT DATA - SHEET 5 OF 8

CONTRACT NO.  
HSR14-39  
DRAWING NO.  
TT-E6122  
SCALE  
NO SCALE  
SHEET NO.



STORAGE TRACK (YD-4) GEOMETRY TABLE (YD-4)																										
STATIONING DATA						INPUT DATA						CURVE DATA					SPIRAL DATA									
CURVE NO.	DESC	BEARING	DISTANCE	STATION	NORTHING	EASTING	Dc	Ea	Eu	V(pos)	V(frnt)	LS	I	RADIUS	Δ	L	T	θs	X	Y	o	Xo	LT	ST	Ts	
							degrees	inches	inches	mph	mph	feet	degrees	feet	degrees	feet	feet	degrees	feet	feet	feet	feet	feet	feet	feet	
#8 TO	POB/PS	S20°30'11"E	30.00	0+00.00	1855103.849	6492846.726																				
	PITO	S27°39'21"E	83.22	0+30.00	1855075.748	6492857.235																				
1501	PC			1+13.22	1855002.039	6492895.860																				
	PI				1854977.200	6492908.76	6°04'49"	0.00	0.43	10	-		3°24'27"	942.76	3°24'27"	56.07	28.04									
	PCC	S24°14'54"E	0.00	1+69.26	1854951.632	6492920.393																				
1502	PCC			1+69.26	1854951.632	6492920.393																				
	PI				1854092.329	6493307.450	2°04'45"	0.00	0.15	10	-		37°45'31"	2755.93	37°45'31"	1816.19	942.45									
	PT			19+85.35	1853175.956	6493087.276																				
#8 TO	PITO	S13°30'37"W	201.29	21+86.64	1852980.234	6493040.250																				
	PS/POE	S06°22'10"W	30.00	22+16.64	1852950.418	6493036.922																				

STORAGE TRACK (YD-5) GEOMETRY TABLE (YD-5)																										
STATIONING DATA						INPUT DATA						CURVE DATA					SPIRAL DATA									
CURVE NO.	DESC	BEARING	DISTANCE	STATION	NORTHING	EASTING	Dc	Ea	Eu	V(pos)	V(frnt)	LS	I	RADIUS	Δ	L	T	θs	X	Y	o	Xo	LT	ST	Ts	
							degrees	inches	inches	mph	mph	feet	degrees	feet	degrees	feet	feet	degrees	feet	feet	feet	feet	feet	feet	feet	
#8 TO	POB/PS	S27°39'21"E	30.00	0+00.00	1855276.016	6492778.357																				
	PITO	S20°30'11"E	155.44	0+30.00	1855249.442	6492792.283																				
#8 TO	PS	S20°30'11"E	30.00	1+85.44	1855103.849	6492846.726																				
	PITO	S20°30'11"E	61.91	2+15.44	1855075.748	6492857.235																				
1601	PC			2+77.35	1855017.758	6492878.920																				
	PI				1854990.162	6492889.239	4°30'00"	0.00	0.31	10	-		2°39'01"	1273.57	2°39'01"	58.91	29.46									
	PT			3+36.25	1854963.074	6492900.823																				
1602	PC	S23°09'12"E	70.87	4+07.12	1854897.910	6492928.690																				
	PI				1854070.425	6493282.554	2°05'23"	0.00	0.15	10	-		36°20'32"	2741.93	36°20'32"	1739.19	899.97									
	PT			21+46.22	1853194.191	6493077.214																				
1603	PC	S13°11'20"W	66.72	22+12.94	1853129.228	6493061.991																				
	PI				1853087.666	6493052.251	8°00'00"	0.00	0.56	10	-		6°48'59"	716.78	6°48'59"	85.28	42.69									
	PT			22+98.15	1853045.242	6493047.513																				
#8 TO	PITO	S06°22'21"W	65.39	23+63.54	1852980.254	6493040.255																				
	PS	S06°22'21"W	30.02	23+93.56	1852950.418	6493036.923																				
#10 TO	PITO	S06°22'21"W	192.89	25+86.45	1852758.716	6493015.513																				
	PS	S06°22'21"W	32.92	26+19.37	1852725.998	6493011.859																				
#8 TO	PITO	S06°22'21"W	71.85	26+91.23	1852654.587	6493003.884																				
	PS/POE	S00°46'50"E	30.00	27+21.23	1852624.589	6493004.293																				

YD-6 2 TRACK GEOMETRY TABLE																										
STATIONING DATA						INPUT DATA						CURVE DATA					SPIRAL DATA									
CURVE NO.	DESC	BEARING	DISTANCE	STATION	NORTHING	EASTING	Dc	Ea	Eu	V(pos)	V(frnt)	LS	I	RADIUS	Δ	L	T	θs	X	Y	o	Xo	LT	ST	Ts	
							degrees	inches	inches	mph	mph	feet	degrees	feet	degrees	feet	feet	degrees	feet	feet	feet	feet	feet	feet	feet	
#8 TO	PS	S34°48'31"E	30.00	0+00.00	1855796.890	6492377.386																				
	PITO	S34°48'31"E	507.79	0+30.00	1855772.257	6492394.512																				
401	PC			5+37.79	1855355.331	6492684.376																				
	PI				1855283.178	6492734.539	10°00'00"	0.00	0.70	10	-		17°25'04"	573.69	17°25'04"	174.40	87.88									
	PT			7+11.97	1855199.317	6492760.805																				
#8 TO	PITO	S17°23'27"E	62.14	7+74.11	1855140.017	6492779.378																				
	PS	S10°14'17"E	30.00	8+04.11	1855110.494	6492784.710																				

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REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
**M. HAYNES**  
DRAWN BY  
**C. NATHAN**  
CHECKED BY  
**C. LEE**  
IN CHARGE  
**C. LEE**  
DATE  
**07/15/2021**

**PEPD RECORD SET**

**NOT FOR CONSTRUCTION**



**CALIFORNIA HIGH-SPEED TRAIN PROJECT**  
**BURBANK TO LOS ANGELES**  
OPTION B REVISED ALIGNMENT - REVISED FINAL  
PEPD  
CMF  
HORIZONTAL ALIGNMENT DATA - SHEET 6 OF 8

CONTRACT NO.  
HSR14-39  
DRAWING NO.  
TT-E6123  
SCALE  
SHEET NO.

SHOP TRACK (SH-1) GEOMETRY TABLE (SH-1)

STATIONING DATA				INPUT DATA						CURVE DATA				SPIRAL DATA												
CURVE NO.	DESC	BEARING	DISTANCE	STATION	NORTHING	EASTING	Dc	Ea	Eu	V(pos)	V(frnt)	LS	I	RADIUS	Δ	L	T	θs	X	Y	o	Xo	LT	ST	Ts	
							degrees	inches	inches	mph	mph	feet	degrees	feet	degrees	feet	feet	degrees	feet	feet	feet	feet	feet	feet	feet	feet
#8 TO	POB/PS	S10°13'14"E	30.00	0+00.00	1854795.118	6492854.504																				
	PITO	S03°04'04"E	167.51	0+30.00	1854765.593	6492859.827																				
1701	PC			1+97.52	1854598.319	6492868.792																				
	PI				1854550.791	6492871.340	3°00'00"	0.00	0.21	10	-		2°51'18"	1910.08	2°51'18"	95.17	47.60									
	PT			2+92.68	1854503.448	6492876.251																				
#10 TO	PITO	S05°55'22"E	1236.28	15+28.96	1853273.770	6493003.820																				
	PS/POE	S00°11'53"E	32.92	15+61.87	1853240.852	6493003.934																				

SHOP TRACK (SH-2) GEOMETRY TABLE (SH-2)

STATIONING DATA				INPUT DATA						CURVE DATA				SPIRAL DATA												
CURVE NO.	DESC	BEARING	DISTANCE	STATION	NORTHING	EASTING	Dc	Ea	Eu	V(pos)	V(frnt)	LS	I	RADIUS	Δ	L	T	θs	X	Y	o	Xo	LT	ST	Ts	
							degrees	inches	inches	mph	mph	feet	degrees	feet	degrees	feet	feet	degrees	feet	feet	feet	feet	feet	feet	feet	feet
#8 TO	POB/PS	S17°22'48"E	30.06	0+00.00	1854961.224	6492820.748																				
	PITO	S10°13'14"E	139.64	0+30.06	1854932.539	6492829.726																				
#8 TO	PS	S10°13'14"E	30.00	1+69.69	1854795.118	6492854.504																				
	PITO	S10°13'14"E	88.06	1+99.69	1854765.593	6492859.827																				
1801	PC			2+87.76	1854678.930	6492875.453																				
	PI				1854643.649	6492881.814	6°00'00"	0.00	0.42	10	-		4°17'52"	955.37	4°17'52"	71.66	35.85									
	PT			3+59.39	1854607.992	6492885.513																				
1802	PC	S05°55'22"E	1092.04	14+51.43	1853521.783	6492998.198																				
	PI				1853474.270	6493003.127	6°00'00"	0.00	0.42	10	-		5°43'29"	955.37	5°43'29"	95.46	47.77									
	PT			15+46.84	1853426.502	6493003.292																				
#10 TO	PITO	S00°11'53"E	152.73	16+99.57	1853273.770	6493003.820																				
	PS	S00°11'53"E	32.92	17+32.49	1853240.852	6493003.934																				
	PC	S00°11'53"E	40.30	17+72.79	1853200.551	6493004.073																				
1803	PI				1853156.057	6493004.227	3°00'00"	0.00	0.21	10	-		2°40'08"	1910.08	2°40'08"	88.97	44.50									
	PT			18+61.75	1853111.618	6493006.452																				
	PITO	S02°52'01"E	92.34	19+54.09	1853019.395	6493011.071																				
#8 TO	PS	S02°52'01"E	30.00	19+84.09	1852989.432	6493012.571																				
	PC	S02°52'01"E	45.02	20+29.12	1852944.464	6493014.823																				
	PI				1852886.620	6493017.720	8°00'00"	0.00	0.56	10	-		9°14'21"	716.78	9°14'21"	115.58	57.92									
1804	PT			21+44.61	1852829.060	6493011.292																				
	PITO	S06°22'20"W	78.57	22+23.18	1852750.972	6493002.571																				
	PS/POE	S00°46'50"E	30.00	22+53.18	1852720.974	6493002.980																				

SHOP TRACK (SH-3) GEOMETRY TABLE (SH-3)

STATIONING DATA				INPUT DATA						CURVE DATA				SPIRAL DATA												
CURVE NO.	DESC	BEARING	DISTANCE	STATION	NORTHING	EASTING	Dc	Ea	Eu	V(pos)	V(frnt)	LS	I	RADIUS	Δ	L	T	θs	X	Y	o	Xo	LT	ST	Ts	
							degrees	inches	inches	mph	mph	feet	degrees	feet	degrees	feet	feet	degrees	feet	feet	feet	feet	feet	feet	feet	feet
#8 TO	POB/PS	N04°17'09"E	30.00	0+00.00	1853337.426	6493034.905																				
	PITO	N02°52'01"W	159.06	0+30.00	1853367.343	6493037.147																				
1901	PC			1+89.06	1853526.200	6493029.192																				
	PI				1853577.086	6493026.643	3°00'00"	0.00	0.21	10	-		3°03'21"	1910.08	3°03'21"	101.86	50.95									
	PT			2+90.92	1853627.764	6493021.386																				
#8 TO	POE	N05°55'22"W	212.52	5+03.44	1853839.152	6492999.456																				

SHOP TRACK (SH-4) GEOMETRY TABLE (SH-4)

STATIONING DATA				INPUT DATA						CURVE DATA				SPIRAL DATA												
CURVE NO.	DESC	BEARING	DISTANCE	STATION	NORTHING	EASTING	Dc	Ea	Eu	V(pos)	V(frnt)	LS	I	RADIUS	Δ	L	T	θs	X	Y	o	Xo	LT	ST	Ts	
							degrees	inches	inches	mph	mph	feet	degrees	feet	degrees	feet	feet	degrees	feet	feet	feet	feet	feet	feet	feet	feet
#8 TO	POB/PS	N02°52'01"W	30.001	0+00.00	1852989.432	6493012.571																				
	PITO	N04°17'09"E	318.92	0+30.00	1853019.395	6493011.071																				
#8 TO	PS	N04°17'09"E	30.00	3+48.92	1853337.426	6493034.905																				
	PITO	N04°17'09"E	140.20	3+78.92	1853367.343	6493037.147																				
	PC			5+19.12	1853507.150	6493047.625																				
2001	PI				1853570.997	6493052.409	8°00'00"	0.00	0.56	10	-		10°12'31"	716.779	10°12'31"	127.712	64.026									
	PT			6+46.73	1853634.680	6493045.803																				
	POE	N05°55'22"W	208.171	8+54.90	1853841.740	6493024.322																				

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REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
**M. HAYNES**  
DRAWN BY  
**C. NATHAN**  
CHECKED BY  
**C. LEE**  
IN CHARGE  
**C. LEE**  
DATE  
**07/15/2021**

**PEPD RECORD SET**

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**CALIFORNIA HIGH-SPEED TRAIN PROJECT**  
**BURBANK TO LOS ANGELES**  
OPTION B REVISED ALIGNMENT - REVISED FINAL  
PEPD  
CMF  
HORIZONTAL ALIGNMENT DATA - SHEET 7 OF 8

CONTRACT NO.  
HSR14-39  
DRAWING NO.  
TT-E6124  
SCALE  
SHEET NO.

SHOP TRACK (SH-5) GEOMETRY TABLE (SH-5)																										
STATIONING DATA						INPUT DATA						CURVE DATA				SPIRAL DATA										
CURVE NO.	DESC	BEARING	DISTANCE	STATION	NORTHING	EASTING	Dc	Ea	Eu	V(pas)	V(frt)	LS	I	RADIUS	Δ	L	T	θs	X	Y	o	Xo	LT	ST	Ts	
							degrees	inches	inches	mph	mph	feet	degrees	feet	degrees	feet	feet	degrees	feet	feet	feet	feet	feet	feet	feet	feet
#10 TO	POB/PS	S17°22'48"E	32.92	0+00.00	1854869.249	6492849.536																				
	PITO	S23°06'17"E	89.42	0+32.92	1854837.834	6492859.369																				
#8 TO	PS	S23°06'17"E	30.00	1+22.34	1854755.586	6492894.459																				
	PITO	S23°06'17"E	66.37	1+52.34	1854727.992	6492906.231																				
#8 TO	PS	S23°06'17"E	30.00	2+18.71	1854666.942	6492932.278																				
	PITO	S23°06'17"E	95.43	2+48.71	1854639.347	6492944.050																				
2101	PC			3+44.15	1854551.569	6492981.500																				
	PI				1854485.100	6493009.858	12°00'00"	0.00	0.84	10	-		17°10'55"	478.34	17°10'55"	143.45	72.27									
	PT	S05°55'22"E	234.18	4+87.33	1854413.221	6493017.314																				
	POE			7+21.51	1854180.293	6493041.479																				

SHOP TRACK (SH-6) GEOMETRY TABLE (SH-6)																										
STATIONING DATA						INPUT DATA						CURVE DATA				SPIRAL DATA										
CURVE NO.	DESC	BEARING	DISTANCE	STATION	NORTHING	EASTING	Dc	Ea	Eu	V(pas)	V(frt)	LS	I	RADIUS	Δ	L	T	θs	X	Y	o	Xo	LT	ST	Ts	
							degrees	inches	inches	mph	mph	feet	degrees	feet	degrees	feet	feet	degrees	feet	feet	feet	feet	feet	feet	feet	feet
#8 TO	POB/PS	S23°06'17"E	30.00	0+00.00	1854666.942	6492932.278																				
	PITO	S15°57'07"E	67.77	0+30.00	1854639.347	6492944.050																				
2201	PC			0+97.77	1854574.192	6492962.674																				
	PI				1854520.427	6492978.042	9°00'00"	0.00	0.63	10	-		10°01'45"	637.28	10°01'45"	111.55	55.92									
	PT	S05°55'22"E	288.95	2+09.20	1854464.807	6492983.812																				
	POE			4+98.15	1854177.404	6493013.628																				

SHOP TRACK (SH-7) GEOMETRY TABLE (SH-7)																										
STATIONING DATA						INPUT DATA						CURVE DATA				SPIRAL DATA										
CURVE NO.	DESC	BEARING	DISTANCE	STATION	NORTHING	EASTING	Dc	Ea	Eu	V(pas)	V(frt)	LS	I	RADIUS	Δ	L	T	θs	X	Y	o	Xo	LT	ST	Ts	
							degrees	inches	inches	mph	mph	feet	degrees	feet	degrees	feet	feet	degrees	feet	feet	feet	feet	feet	feet	feet	feet
#8 TO	POB/PS	S23°06'17"E	30.00	0+00.00	1854755.586	6492894.459																				
	PITO	S15°57'07"E	70.46	0+30.00	1854727.992	6492906.231																				
2301	PC			1+00.46	1854660.242	6492925.597																				
	PI				1854606.477	6492940.965	9°00'00"	0.00	0.63	10	-		10°01'45"	637.28	10°01'45"	111.55	55.92									
	PT	S05°55'22"E	378.36	2+11.90	1854550.857	6492946.735																				
	POE			5+90.26	1854174.515	6492985.778																				

SHOP TRACK (SH-8) GEOMETRY TABLE (SH-8)																										
STATIONING DATA						INPUT DATA						CURVE DATA				SPIRAL DATA										
CURVE NO.	DESC	BEARING	DISTANCE	STATION	NORTHING	EASTING	Dc	Ea	Eu	V(pas)	V(frt)	LS	I	RADIUS	Δ	L	T	θs	X	Y	o	Xo	LT	ST	Ts	
							degrees	inches	inches	mph	mph	feet	degrees	feet	degrees	feet	feet	degrees	feet	feet	feet	feet	feet	feet	feet	feet
#8 TO	POB/PS	S10°14'17"E	30.001	0+00.00	1855059.322	6492793.952																				
	PITO	S17°22'48"E	71.86	0+30.00	1855029.799	6492799.285																				
#8 TO	PS	S17°22'48"E	30.06	1+01.86	1854961.224	6492820.748																				
	PITO	S17°22'48"E	66.32	1+31.91	1854932.539	6492829.726																				
#10 TO	PS	S17°22'48"E	32.92	1+98.23	1854869.249	6492849.536																				
	PITO	S17°22'48"E	91.88	2+31.15	1854837.834	6492859.369																				
2401	PC			3+23.03	1854750.152	6492886.813																				
	PI				1854658.688	6492915.441	6°00'00"	0.00	0.42	10	-		11°27'26"	955.37	11°27'26"	191.04	95.84									
	PT	S05°55'22"E	393.01	5+13.98	1854563.359	6492925.331																				
	POE			9+06.99	1854172.451	6492965.885																				

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REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
**M. HAYNES**  
DRAWN BY  
**C. NATHAN**  
CHECKED BY  
**C. LEE**  
IN CHARGE  
**C. LEE**  
DATE  
**07/15/2021**

**PEPD  
RECORD SET**

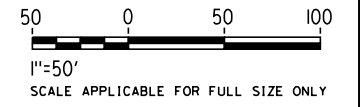
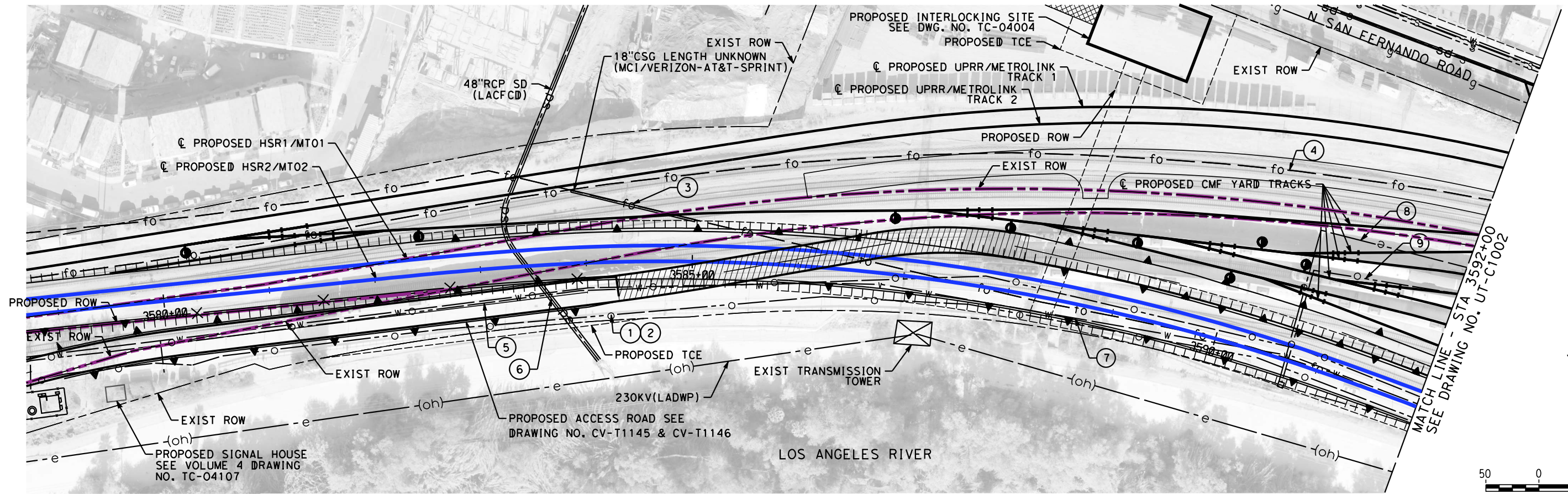
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CONSTRUCTION**



**CALIFORNIA HIGH-SPEED TRAIN PROJECT**  
**BURBANK TO LOS ANGELES**  
OPTION B REVISED ALIGNMENT - REVISED FINAL  
PEPD  
CMF  
HORIZONTAL ALIGNMENT DATA - SHEET 8 OF 8

CONTRACT NO.  
HSR14-39  
DRAWING NO.  
TT-E6125  
SCALE  
SHEET NO.





MAJOR UTILITY CONFLICTS

	TYPE OF UTILITY	SIZE/MATERIAL	LOCATION	OWNER	DISPOSITION
①	OIL	20" STL PIPE	STA 3456+37 TO 3660+00	PACIFIC PIPELINE	RELOCATE
②	FIBER	4-2" HDPE DUCTS IN CSG	STA 3456+37 TO 3660+00	QWEST (CENTURYLINK)	RELOCATE
③	FIBER	2-4" HDPE DUCTS IN CSG	STA 3448+20 TO 3660+00	MCI(VERIZON)-AT&T-SPRINT	RELOCATE
④	FIBER	4-2" HDPE DUCTS IN CSG	STA 3220+00 TO 3625+00	QWEST-MFS-METRO	RELOCATE
⑤	OIL	10" ABAN	STA 3551+61 TO 3635+00	KINDER MORGAN	REMOVE INTERFERING PORTIONS
⑥	STORM DRAIN	48" RCP	STA 3582+92 TO 3583+50	LACFCD	ENCASE UNDER ACCESS ROAD
⑦	WATER	12"	STA 3576+75 TO 3626+50	LADWP	RELOCATE
⑧	ELECTRICAL	TBD	STA 3590+63 TO 3592+69	SCRRA	RELOCATE TO NEW BUILDING
⑨	FUEL	TBD	STA 3590+65 TO 3592+70	SCRRA	RELOCATE TO NEW BUILDING

NOTES:  
 1. ADD NEW CASINGS TO ALL FIRE, WATER & GAS LINES IN TAYLOR YARD.  
 ALL CASINGS ARE FROM ROW TO ROW.  
 2. FOR HSR UTILITY INFORMATION SEE VOLUME 4, DRAWING NO. UT-C1542.

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REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
R. PETERS  
 DRAWN BY  
R. LAYGO  
 CHECKED BY  
M. REIFER  
 IN CHARGE  
C. LEE  
 DATE  
08/27/2021

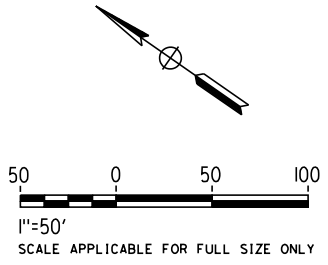
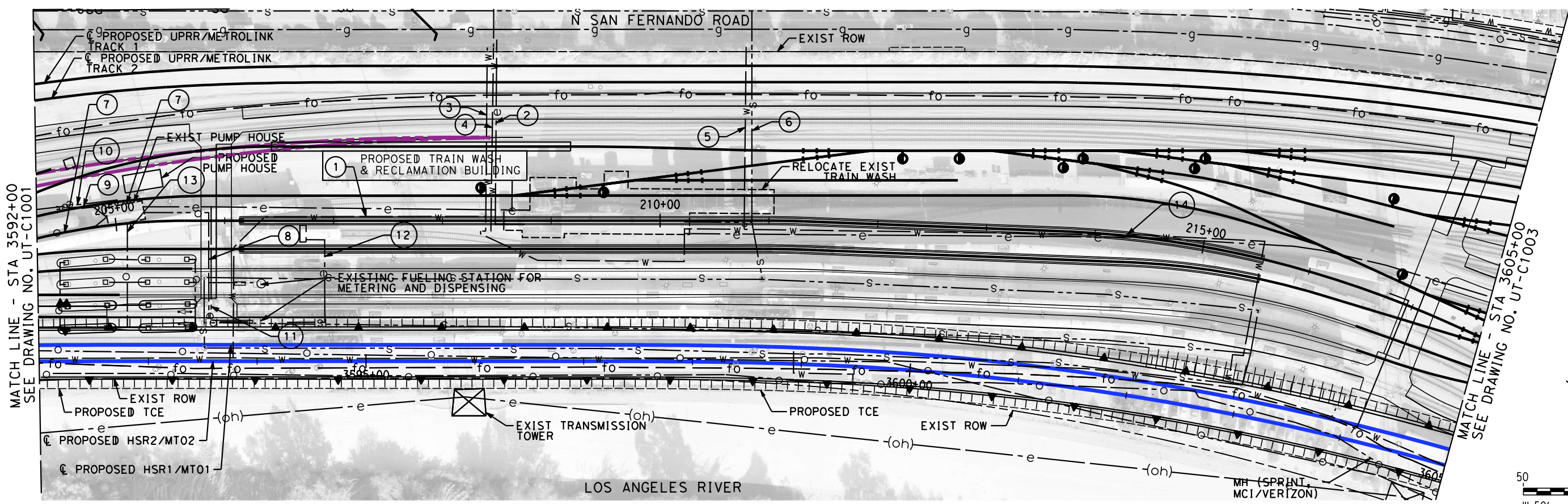
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RECORD SET  
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CONSTRUCTION



**CALIFORNIA HIGH-SPEED TRAIN PROJECT**  
**BURBANK TO LOS ANGELES**  
 OPTION B REVISED ALIGNMENT - REVISED FINAL  
 PEPD  
 CMF  
 COMPOSITE UTILITIES PLAN - SHEET 1 OF 4

CONTRACT NO.  
HSR14-39  
 DRAWING NO.  
UT-C1001  
 SCALE  
AS SHOWN  
 SHEET NO.





MAJOR UTILITY CONFLICTS

	TYPE OF UTILITY	SIZE/MATERIAL	LOCATION	OWNER	DISPOSITION
①	WATER	4"	STA 3593+77 TO 3600+42	LADWP	RELOCATE TO CAR WASH
②	ELECTRICAL	UNDERGROUND POWER IN CSG	STA 3593+77 TO 3600+42	LADWP	RELOCATE TO NEW YARD FAC.
③	FIRE WATER	6" IN 10" CSG	STA 3595+10	LADWP	RELOCATE TO NEW YARD FAC.
④	FIRE WATER	8" IN CSG	STA 3595+15	LADWP	RELOCATE TO NEW YARD FAC.
⑤	WATER	8" IN 12" CSG	STA 3598+50	LADWP	RELOCATE TO NEW YARD FAC.
⑥	SEWER	TBD	STA 3598+60 TO 3603+00	SCRRA	RELOCATE TO NEW YARD FAC.
⑦	FUEL & PUMP HOUSE	TBD	STA 3590+69 TO 3592+98	SCRRA	RELOCATE TO NEW YARD FAC.
⑧	FUEL	TBD	STA 3590+69 TO 3592+70	SCRRA	RELOCATE TO NEW YARD FAC.
⑨	ELECTRICAL	TBD	STA 3592+16 TO 3592+69	SCRRA	RELOCATE TO NEW BUILDING
⑩	ELECTRICAL	TBD	STA 3590+69 TO 3592+70	SCRRA	RELOCATE TO NEW BUILDING
⑪	ELECTRICAL	TBD	STA 3593+58	SCRRA	RELOCATE TO NEW BUILDING
⑫	ELECTRICAL	TBD	STA 3594+27 TO 3594+62	SCRRA	RELOCATE
⑬	FUEL	TBD	STA 3592+81	SCRRA	RELOCATE TO NEW YARD FAC.
⑭	ELECTRICAL	TBD	STA 3600+47 TO 3603+21	SCRRA	RELOCATE

NOTES:  
 1. FOR HSR UTILITY INFORMATION SEE VOLUME 4, DRAWING NO. UT-C1543.

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REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
**R. PETERS**  
 DRAWN BY  
**R. LAYGO**  
 CHECKED BY  
**M. REIFER**  
 IN CHARGE  
**C. LEE**  
 DATE  
**08/27/2021**

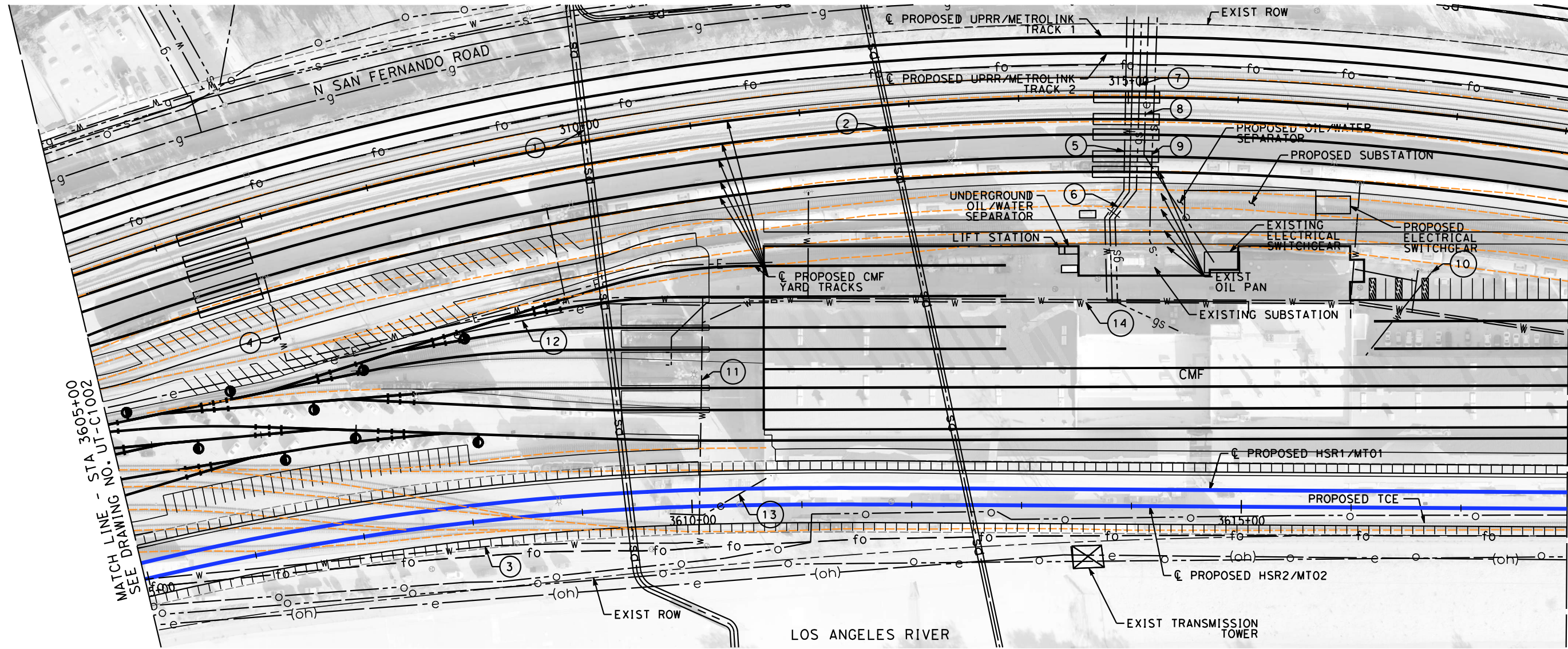
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**NOT FOR CONSTRUCTION**



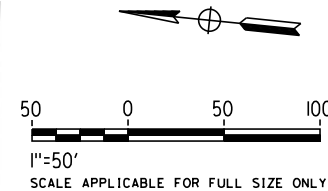
**CALIFORNIA HIGH-SPEED TRAIN PROJECT**  
**BURBANK TO LOS ANGELES**  
 OPTION B REVISED ALIGNMENT - REVISED FINAL  
 PEPD  
 CMF  
 COMPOSITE UTILITIES PLAN - SHEET 2 OF 4

CONTRACT NO.  
 HSR14-39  
 DRAWING NO.  
 UT-C1002  
 SCALE  
 AS SHOWN  
 SHEET NO.





MATCH LINE - STA 3618+00  
SEE DRAWING NO. UT-C1004



MAJOR UTILITY CONFLICTS

MAJOR UTILITY CONFLICTS

TYPE OF UTILITY	SIZE/MATERIAL	LOCATION	OWNER	DISPOSITION	
①	STORM DRAIN	81" RCP	STA 3609+43/ POPLAR ST.	LACFCD	PROTECT-IN-PLACE
②	STORM DRAIN	63" RCP	STA 3612+53/ MC CLURE ST.	CITY OF LOS ANGELES	PROTECT-IN-PLACE
③	WATER	12"	STA 3610+10	CITY OF LOS ANGELES	ABANDONED & REMOVE INTERFERING PORTION
④	FIRE WATER	10"	STA 3606+51	CITY OF LOS ANGELES	RELOCATE
⑤	WATER	TBD	STA 3613+78	CITY OF LOS ANGELES	RELOCATE TO NEW YARD FAC.
⑥	TELEPHONE	TBD	STA 3613+83	CITY OF LOS ANGELES	RELOCATE TO NEW YARD FAC.
⑦	NATURAL GAS	TBD	STA 3613+88	CITY OF LOS ANGELES	RELOCATE TO NEW YARD FAC.
⑧	POWER	TBD	STA 3613+95	CITY OF LOS ANGELES	RELOCATE TO NEW YARD FAC.
⑨	SEWER	TBD	STA 3614+02	CITY OF LOS ANGELES	RELOCATE TO NEW YARD FAC.
⑩	FIRE WATER	TBD	STA 3616+13 TO 3616+79	SCRRA	RELOCATE TO NEW YARD FAC.

TYPE OF UTILITY	SIZE/MATERIAL	LOCATION	OWNER	DISPOSITION	
⑪	FIRE WATER	12"	STA 3610+07	CITY OF LOS ANGELES	PROTECT-IN-PLACE
⑫	ELECTRICAL	UNDERGROUND	STA 3606+70 TO 3610+66	CITY OF LOS ANGELES	RELOCATE
⑬	ELECTRICAL	UNDERGROUND	STA 3609+79 TO 3610+66	CITY OF LOS ANGELES	REMOVE
⑭	WATER	12"	STA 3610+54 TO 3618+00	CITY OF LOS ANGELES	RELOCATE

- NOTES:  
 1. ADD NEW CASINGS TO ALL FIRE, WATER & GAS LINES IN TAYLOR YARD. ALL CASINGS ARE FROM ROW TO ROW.  
 2. FOR HSR UTILITY INFORMATION SEE VOLUME 4, DRAWING NO. UT-C1544.

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REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
**R. PETERS**  
 DRAWN BY  
**R. LAYGO**  
 CHECKED BY  
**M. REIFER**  
 IN CHARGE  
**C. LEE**  
 DATE  
**08/27/2021**

**PEPD  
RECORD SET**

**NOT FOR  
CONSTRUCTION**



**CALIFORNIA HIGH-SPEED TRAIN PROJECT**  
**BURBANK TO LOS ANGELES**  
 OPTION B REVISED ALIGNMENT - REVISED FINAL  
 PEPD  
 CMF  
 COMPOSITE UTILITIES PLAN - SHEET 3 OF 4

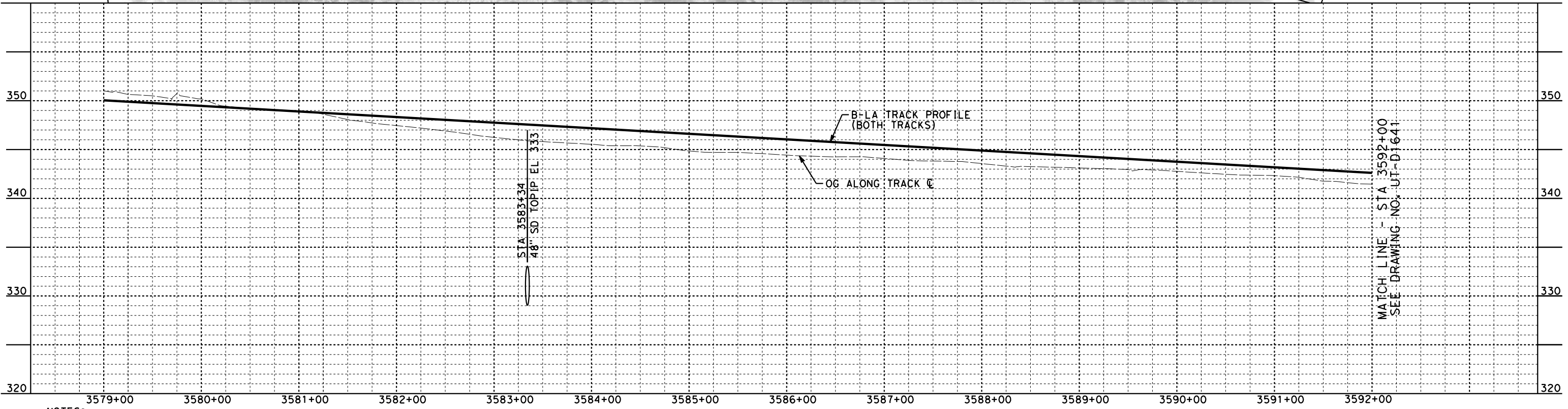
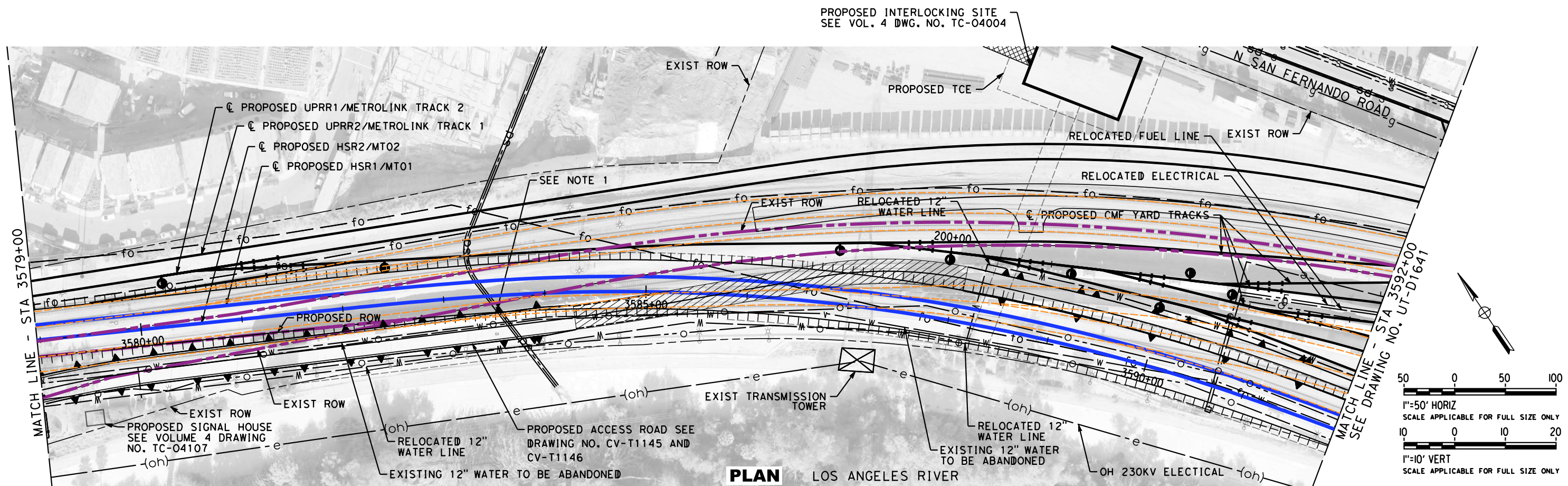
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HSR14-39  
 DRAWING NO.  
UT-C1003  
 SCALE  
AS SHOWN  
 SHEET NO.







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NOTES:  
 1. PROPOSED STORM DRAIN ENCASEMENT UNDER UNDER RETAINING WALL FOOTING

REFERENCE DWG SEE VOL4 UT-D1629 NOT FOR CONSTRUCTION  
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REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
**R. PETERS**  
 DRAWN BY  
**R. LAYGO**  
 CHECKED BY  
**M. REIFER**  
 IN CHARGE  
**C. LEE**  
 DATE  
**08/27/2021**

**PEPD  
RECORD SET**

**NOT FOR  
CONSTRUCTION**

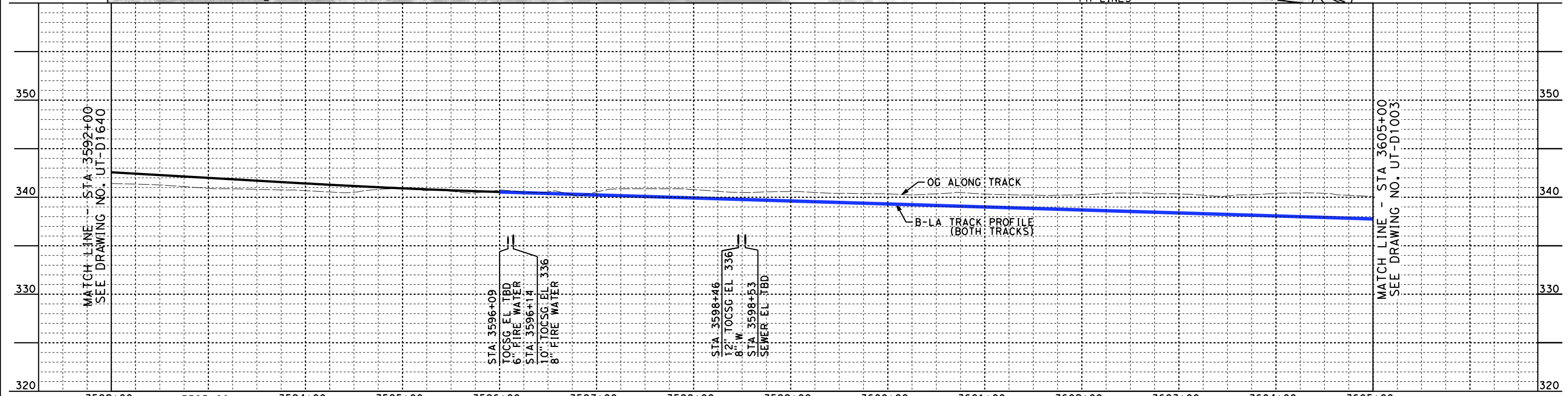
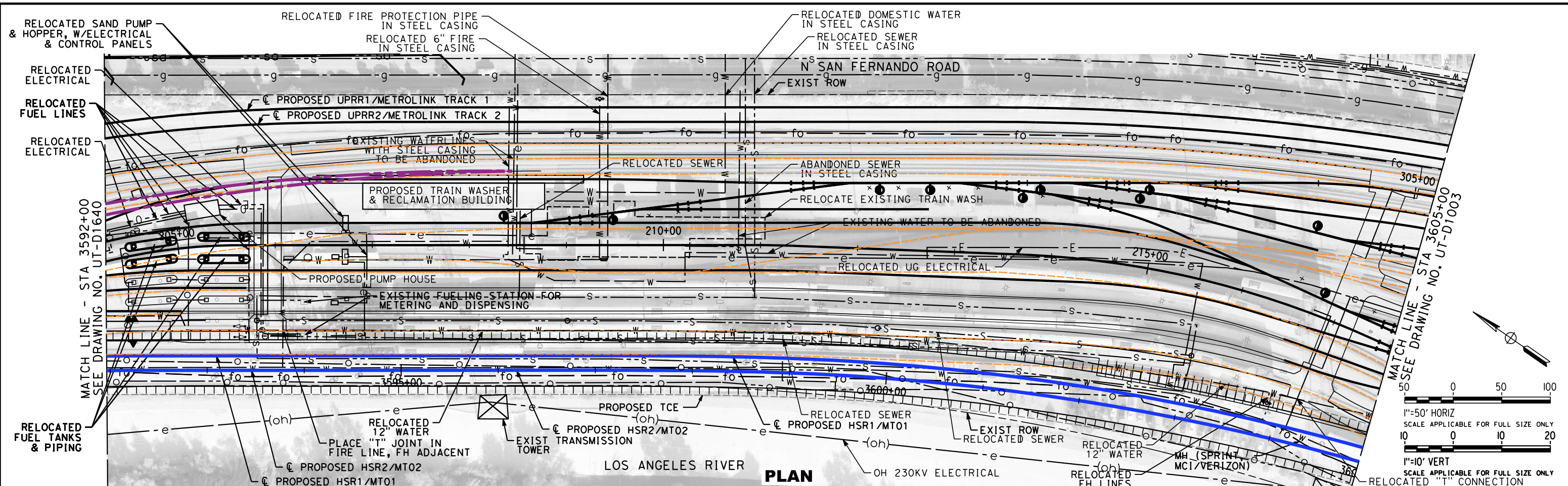


**CALIFORNIA HIGH-SPEED TRAIN PROJECT**  
**BURBANK TO LOS ANGELES**  
 OPTION B REVISED ALIGNMENT - REVISED FINAL  
 PEPD  
 PROPOSED UTILITY RELOCATION PLAN - CMF  
 SHEET 1 OF 4

CONTRACT NO.  
HSR14-39  
 DRAWING NO.  
UT-D1640  
 SCALE  
AS SHOWN  
 SHEET NO.



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NOTES:  
 1. ADD NEW CASINGS TO ALL FIRE, WATER & GAS LINES IN TAYLOR YARD. ALL CASINGS ARE FROM ROW TO ROW.  
 2. RELOCATED UTILITIES TO PROVIDE SERVICE TO PROPOSED FACILITIES.  
 3. FOR HSR UTILITY INFORMATION SEE VOLUME 4, DRAWING NO. UT-D1543.

**PROFILE**

REFERENCE DWG SEE VOL4 UT-D1630 NOT FOR CONSTRUCTION  
FOR INTERNAL USE ONLY

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
**R. PETERS**  
 DRAWN BY  
**R. LAYGO**  
 CHECKED BY  
**M. REIFER**  
 IN CHARGE  
**C. LEE**  
 DATE  
**08/27/2021**

**PEPD  
RECORD SET**

**NOT FOR  
CONSTRUCTION**



**CALIFORNIA HIGH-SPEED TRAIN PROJECT**  
**BURBANK TO LOS ANGELES**  
 OPTION B REVISED ALIGNMENT - REVISED FINAL  
 PEPD  
 PROPOSED UTILITY RELOCATION PLAN - CMF  
 SHEET 2 OF 4

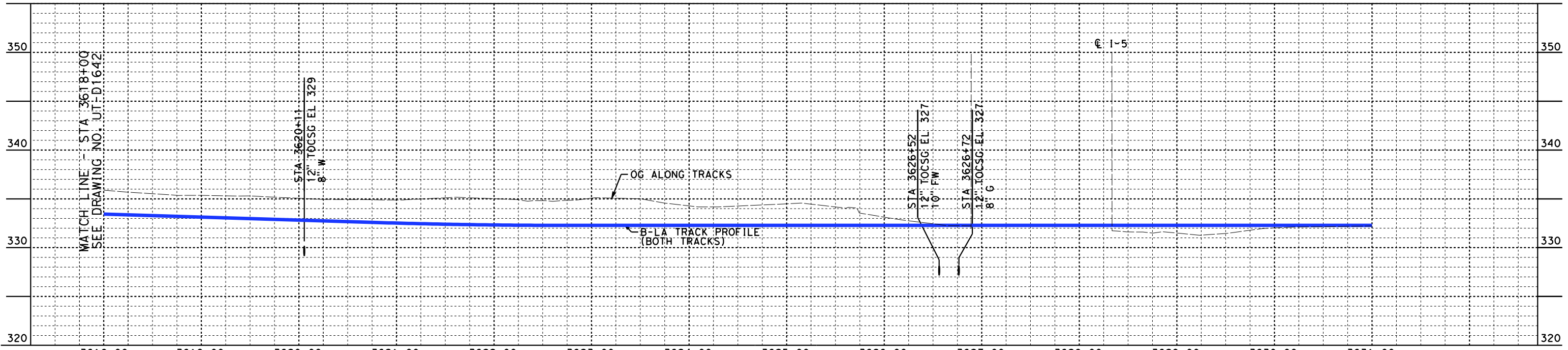
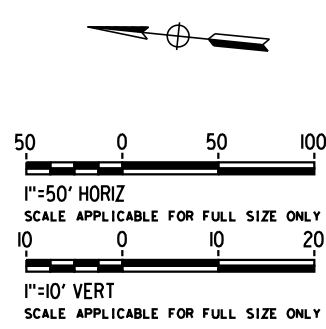
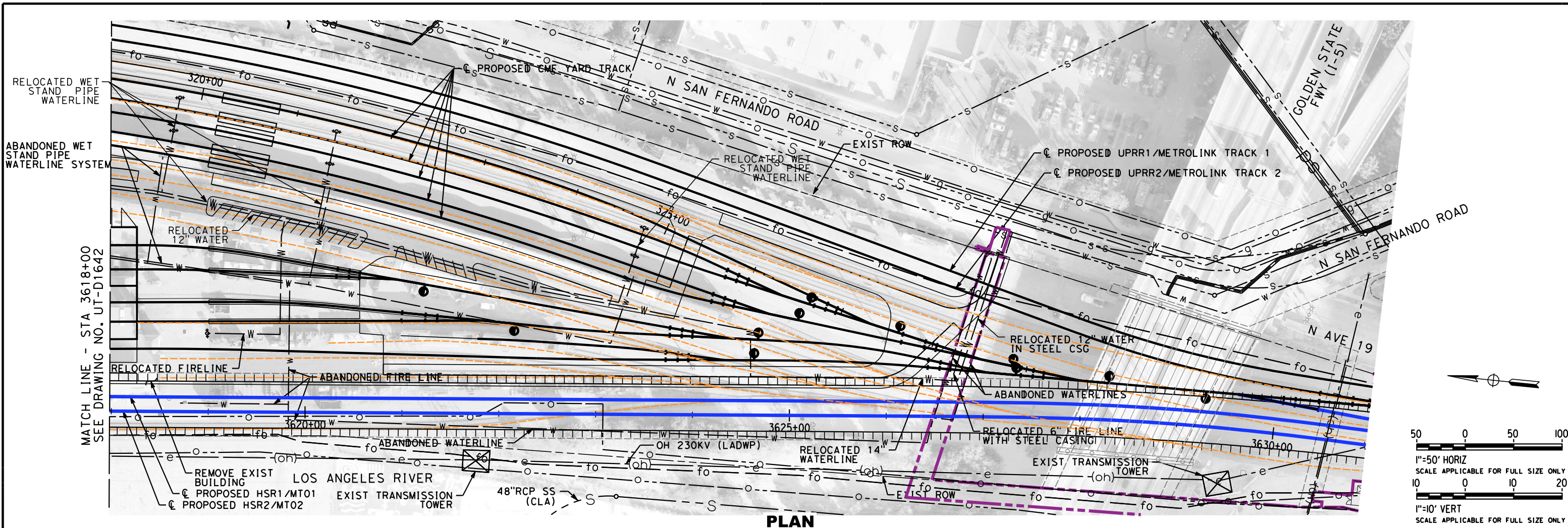
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HSR14-39  
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UT-D1641  
 SCALE  
AS SHOWN  
 SHEET NO.







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NOTES: 3618+00 3619+00 3620+00 3621+00 3622+00 3623+00 3624+00 3625+00 3626+00 3627+00 3628+00 3629+00 3630+00 3631+00

- ADD NEW CASINGS TO ALL FIRE, WATER & GAS LINES IN TAYLOR YARD. ALL CASINGS ARE FROM ROW TO ROW.
- RELOCATED UTILITIES TO PROVIDE SERVICE TO PROPOSED FACILITIES.
- FOR HSR UTILITY INFORMATION SEE VOLUME 4, DRAWING NO. UT-D1545.

REFERENCE DWG SEE VOL4 UT-D1632 NOT FOR CONSTRUCTION FOR INTERNAL USE ONLY

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
**R. PETERS**

DRAWN BY  
**R. LAYGO**

CHECKED BY  
**M. REIFER**

IN CHARGE  
**C. LEE**

DATE  
**08/27/2021**

**PEPD RECORD SET**

**NOT FOR CONSTRUCTION**



**CALIFORNIA HIGH-SPEED TRAIN PROJECT**

**BURBANK TO LOS ANGELES**

OPTION B REVISED ALIGNMENT - REVISED FINAL

PEPD

PROPOSED UTILITIES RELOCATION PLAN - CMF

SHEET 4 OF 4

CONTRACT NO.  
HSR14-39

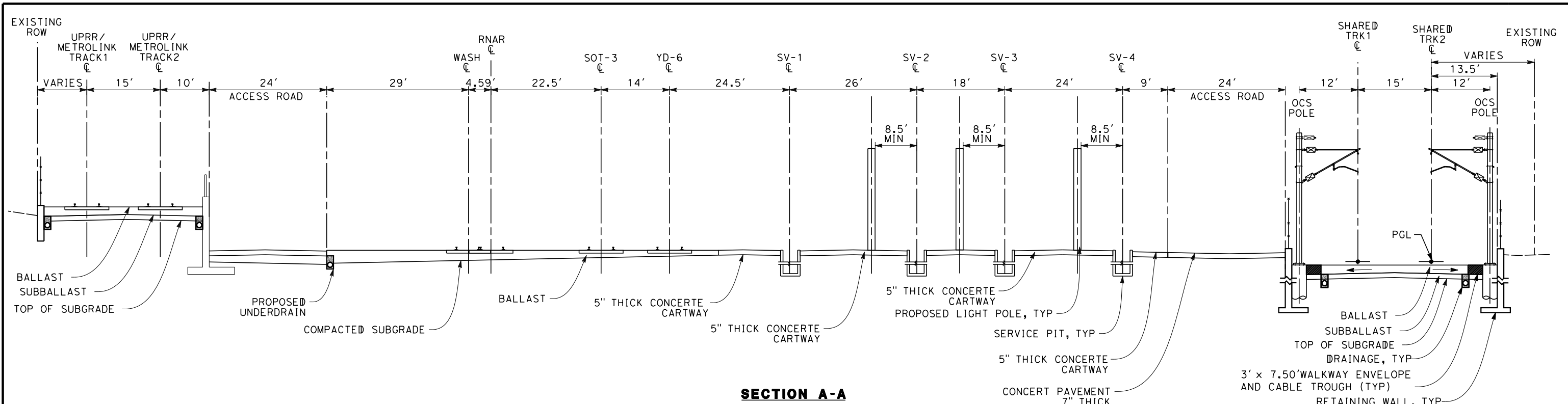
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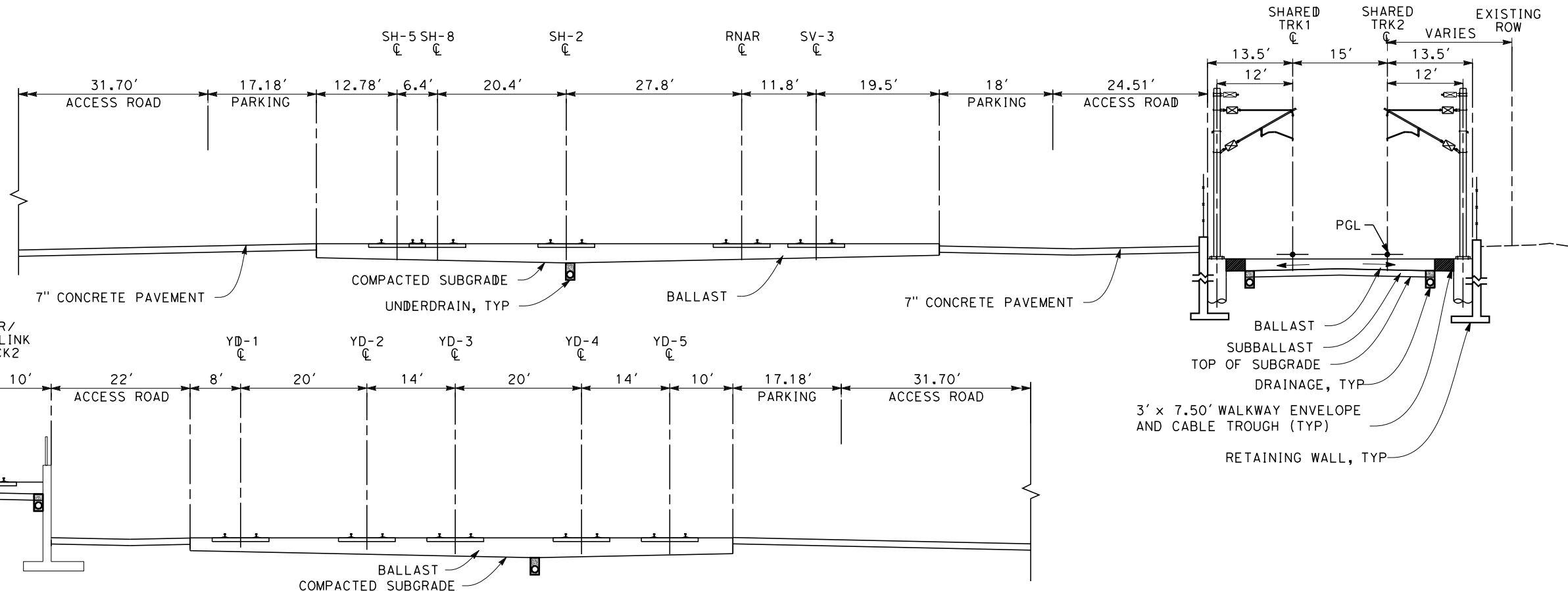
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**SECTION A-A**



**SECTION B-B**

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
**M. HAYNES**

DRAWN BY  
**I. MORENO**

CHECKED BY  
**C. LEE**

IN CHARGE  
**C. LEE**

DATE  
**08/27/2021**

**PEPD RECORD SET**

**NOT FOR CONSTRUCTION**



**CALIFORNIA HIGH-SPEED TRAIN PROJECT**

**BURBANK TO LOS ANGELES**

OPTION B REVISED ALIGNMENT - REVISED FINAL

PEPD

CMF

SITE CROSS SECTIONS - SHEET 1 OF 2

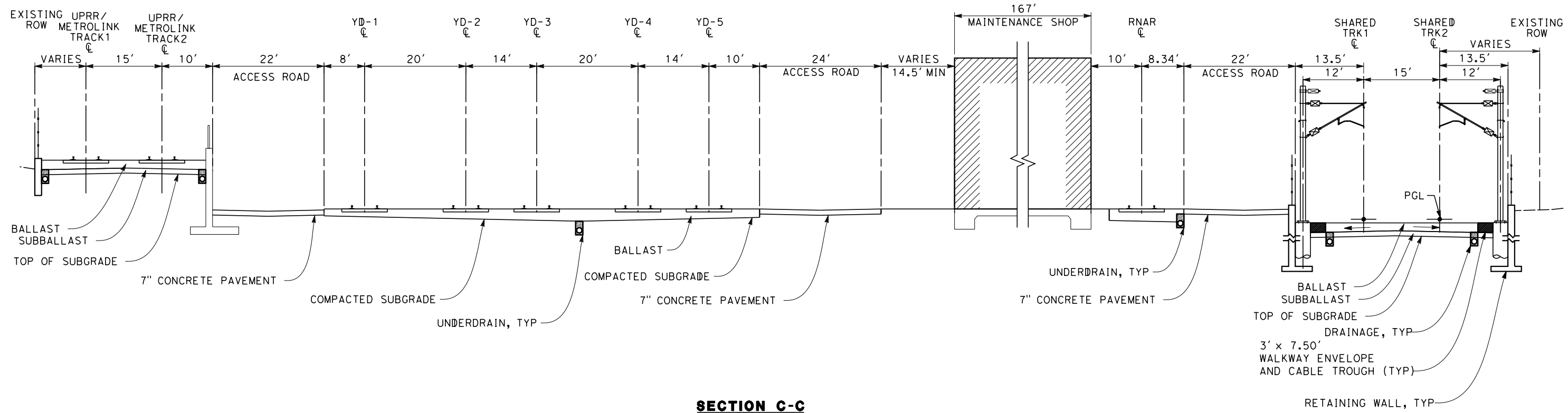
CONTRACT NO.  
HSR14-39

DRAWING NO.  
MY-D1001

SCALE  
NONE

SHEET NO.

NOT FOR CONSTRUCTION  
FOR INTERNAL USE ONLY



**SECTION C-C**

NOT FOR CONSTRUCTION  
FOR INTERNAL USE ONLY

9/8/2021 3:51:39 PM c:\j\p\work\dir\clee\d0150150\k2L-MY-D1002.dgn

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
**M. HAYNES**

DRAWN BY  
**I. MORENO**

CHECKED BY  
**C. LEE**

IN CHARGE  
**C. LEE**

DATE  
**08/27/2021**

**PEPD RECORD SET**

**NOT FOR CONSTRUCTION**



**CALIFORNIA HIGH-SPEED TRAIN PROJECT**

**BURBANK TO LOS ANGELES**

OPTION B REVISED ALIGNMENT - REVISED FINAL

PEPD  
CMF

SITE CROSS SECTIONS - SHEET 2 OF 2

CONTRACT NO.  
HSR14-39

DRAWING NO.  
MY-D1002

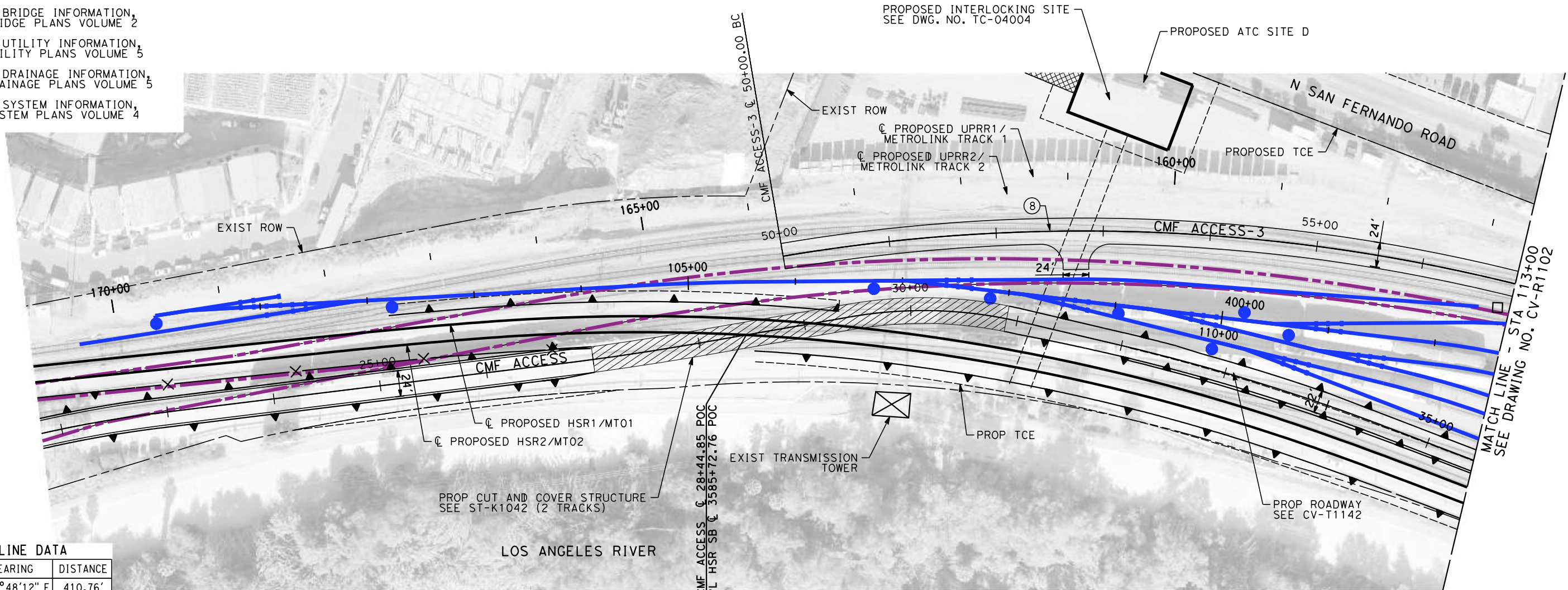
SCALE  
NONE

SHEET NO.



**NOTES:**

1. FOR TRACK INFORMATION, SEE TRACK PLANS VOLUME 5
2. FOR RIGHT-OF-WAY INFORMATION, SEE RIGHT-OF-WAY PLANS VOLUME 1
3. FOR BRIDGE INFORMATION, SEE BRIDGE PLANS VOLUME 2
4. FOR UTILITY INFORMATION, SEE UTILITY PLANS VOLUME 5
5. FOR DRAINAGE INFORMATION, SEE DRAINAGE PLANS VOLUME 5
6. FOR SYSTEM INFORMATION, SEE SYSTEM PLANS VOLUME 4



**LINE DATA**

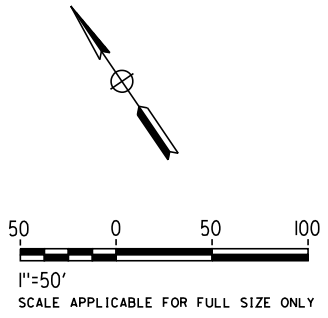
NO	BEARING	DISTANCE
1	S 34°48'12" E	410.76'
2	S 32°35'37" E	175.90'
3	S 3°21'46" E	31.33'
4	S 5°22'30" E	1414.17'
5	S 49°02'30" E	99.51'
6	S 39°37'29" E	179.10'
7	S 34°47'34" E	529.58'
8	N 14°25'15" E	322.07'
9	N 77°19'18" E	32.52'
10	S 55°11'54" E	179.70'
11	S 76°38'14" W	241.41'
12	S 13°21'46" E	39.45'
13	S 5°45'07" E	751.67'
14	S 13°35'24" E	38.03'
15	S 4°17'09" E	53.49'
16	S 75°34'45" E	98.32'
17	S 84°04'38" E	209.56'

**CURVE DATA**

NO	R	Δ	T	L
①	5012.00'	2°12'35"	96.66'	193.30'
②	1112.00'	15°36'20"	152.38'	302.87'
③	200.00'	15°19'47"	26.92'	53.51'
④	2540.50'	10°55'51"	243.07'	484.67'
⑤	4472.00'	1°16'52"	26.10'	52.20'
⑥	4471.00'	1°43'06"	67.05'	134.08'
⑦	50.00'	43°40'00"	20.03'	38.11'
⑧	1676.61'	25°47'12"	383.67'	754.35'
⑨	1146.28'	4°49'55"	48.36'	96.67'

**CURVE DATA**

NO	R	Δ	T	L
⑩	2827.93'	49°12'48"	1295.13'	2429.02'
⑪	37.00'	91°44'33"	38.14'	59.24'
⑫	250.00'	11°30'21"	25.19'	50.20'
⑬	2702.43'	8°42'07"	205.61'	410.44'
⑭	250.00'	10°36'44"	23.22'	46.30'
⑮	250.00'	21°01'37"	46.40'	91.75'
⑯	300.00'	9°27'03"	24.80'	49.49'
⑰	2719.93'	9°53'27"	235.35'	469.54'



**NOT FOR CONSTRUCTION  
FOR INTERNAL USE ONLY**

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REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
**R. YU**  
DRAWN BY  
**J. REGUYAL**  
CHECKED BY  
**R. YU**  
IN CHARGE  
**C. LEE**  
DATE  
**08/27/2021**

**PEPD  
RECORD SET**  
  
**NOT FOR  
CONSTRUCTION**



**CALIFORNIA HIGH-SPEED TRAIN PROJECT**  
**BURBANK TO LOS ANGELES**  
OPTION B REVISED ALIGNMENT - REVISED FINAL  
PEPD  
CMF  
ROADWAY - SHEET 1 OF 4

CONTRACT NO.  
HSR14-39  
DRAWING NO.  
CV-R1101  
SCALE  
AS SHOWN  
SHEET NO.



8/26/2021 8:19:37 PM c:\jip\pwworkdir\jreg\_gary\0152472\K2L-CV-R1102\_07.02.21.dgn

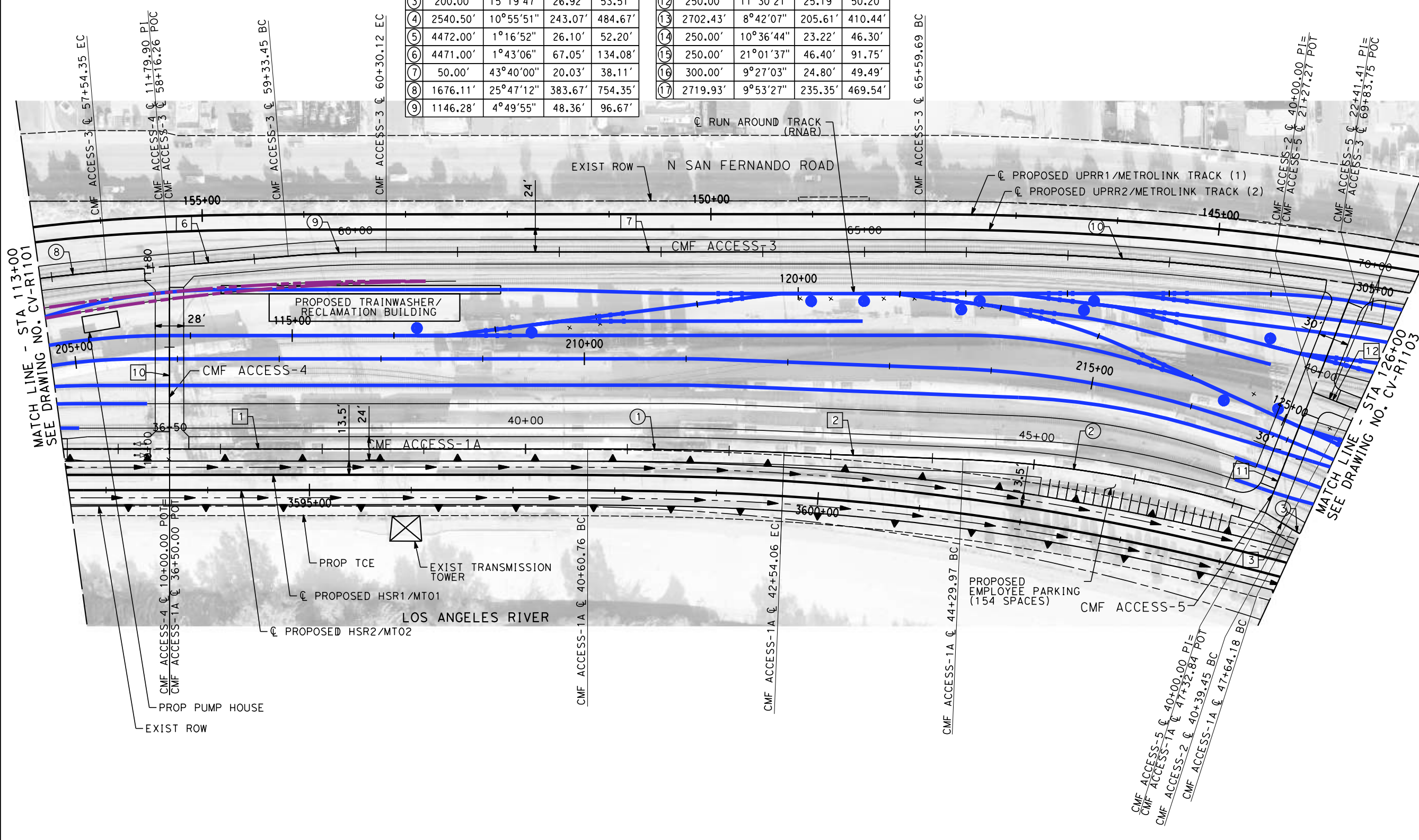
**CURVE DATA**

NO	R	Δ	T	L
①	5012.00'	2°12'35"	96.66'	193.30'
②	1112.00'	15°36'20"	152.38'	302.87'
③	200.00'	15°19'47"	26.92'	53.51'
④	2540.50'	10°55'51"	243.07'	484.67'
⑤	4472.00'	1°16'52"	26.10'	52.20'
⑥	4471.00'	1°43'06"	67.05'	134.08'
⑦	50.00'	43°40'00"	20.03'	38.11'
⑧	1676.11'	25°47'12"	383.67'	754.35'
⑨	1146.28'	4°49'55"	48.36'	96.67'

**CURVE DATA**

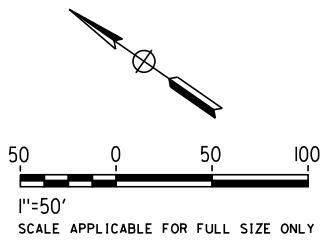
NO	R	Δ	T	L
⑩	2827.93'	49°12'48"	1295.13'	2429.02'
⑪	37.00'	91°44'33"	38.14'	59.24'
⑫	250.00'	11°30'21"	25.19'	50.20'
⑬	2702.43'	8°42'07"	205.61'	410.44'
⑭	250.00'	10°36'44"	23.22'	46.30'
⑮	250.00'	21°01'37"	46.40'	91.75'
⑯	300.00'	9°27'03"	24.80'	49.49'
⑰	2719.93'	9°53'27"	235.35'	469.54'

- NOTES:**
1. FOR TRACK INFORMATION, SEE TRACK PLANS VOLUME 5
  2. FOR RIGHT-OF-WAY INFORMATION, SEE RIGHT-OF-WAY PLANS VOLUME 1
  3. FOR BRIDGE INFORMATION, SEE BRIDGE PLANS VOLUME 2
  4. FOR UTILITY INFORMATION, SEE UTILITY PLANS VOLUME 5
  5. FOR DRAINAGE INFORMATION, SEE DRAINAGE PLANS VOLUME 5
  6. FOR SYSTEM INFORMATION, SEE SYSTEM PLANS VOLUME 4



**LINE DATA**

NO	BEARING	DISTANCE
1	S 34°48'12" E	410.76'
2	S 32°35'37" E	175.90'
3	S 3°21'46" E	31.33'
4	S 5°22'30" E	1414.17'
5	S 49°02'30" E	99.51'
6	S 39°37'29" E	179.10'
7	S 34°47'34" E	529.58'
8	N 14°25'15" E	322.07'
9	N 77°19'18" E	32.52'
10	N 55°11'54" E	179.70'
11	N 76°38'14" E	241.41'
12	S 13°21'46" E	39.45'
13	S 5°45'07" E	751.67'
14	S 13°35'24" E	38.03'
15	S 4°17'09" E	53.49'
16	S 75°34'45" E	98.32'
17	N 84°04'38" E	209.56'



**NOT FOR CONSTRUCTION  
FOR INTERNAL USE ONLY**

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
**R. YU**

DRAWN BY  
**J. REGUYAL**

CHECKED BY  
**R. YU**

IN CHARGE  
**C. LEE**

DATE  
**08/27/2021**

**PEPD  
RECORD SET**

**NOT FOR  
CONSTRUCTION**



**CALIFORNIA HIGH-SPEED TRAIN PROJECT**

**BURBANK TO LOS ANGELES**

OPTION B REVISED ALIGNMENT - REVISED FINAL

PEPD  
CMF

ROADWAY - SHEET 2 OF 4

CONTRACT NO.  
HSR14-39

DRAWING NO.  
CV-R1102

SCALE  
AS SHOWN

SHEET NO.



8/26/2021 8:20:18 PM c:\j\p\pwworkdir\jbg\_garyo\d0152472\k2l-cv-r1103\_07.02.21.dgn

**LINE DATA**

NO	BEARING	DISTANCE
1	S 34°48'12" E	410.76'
2	S 32°35'37" E	175.90'
3	S 3°21'46" E	31.33'
4	S 5°22'30" E	1414.17'
5	S 49°02'30" E	99.51'
6	S 39°37'29" E	179.10'
7	S 34°47'34" E	529.58'
8	N 14°25'15" E	322.07'
9	N 77°19'18" E	32.52'
10	N 55°11'54" E	179.70'

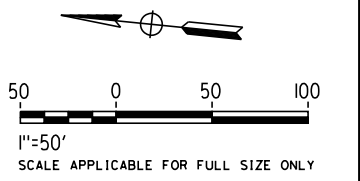
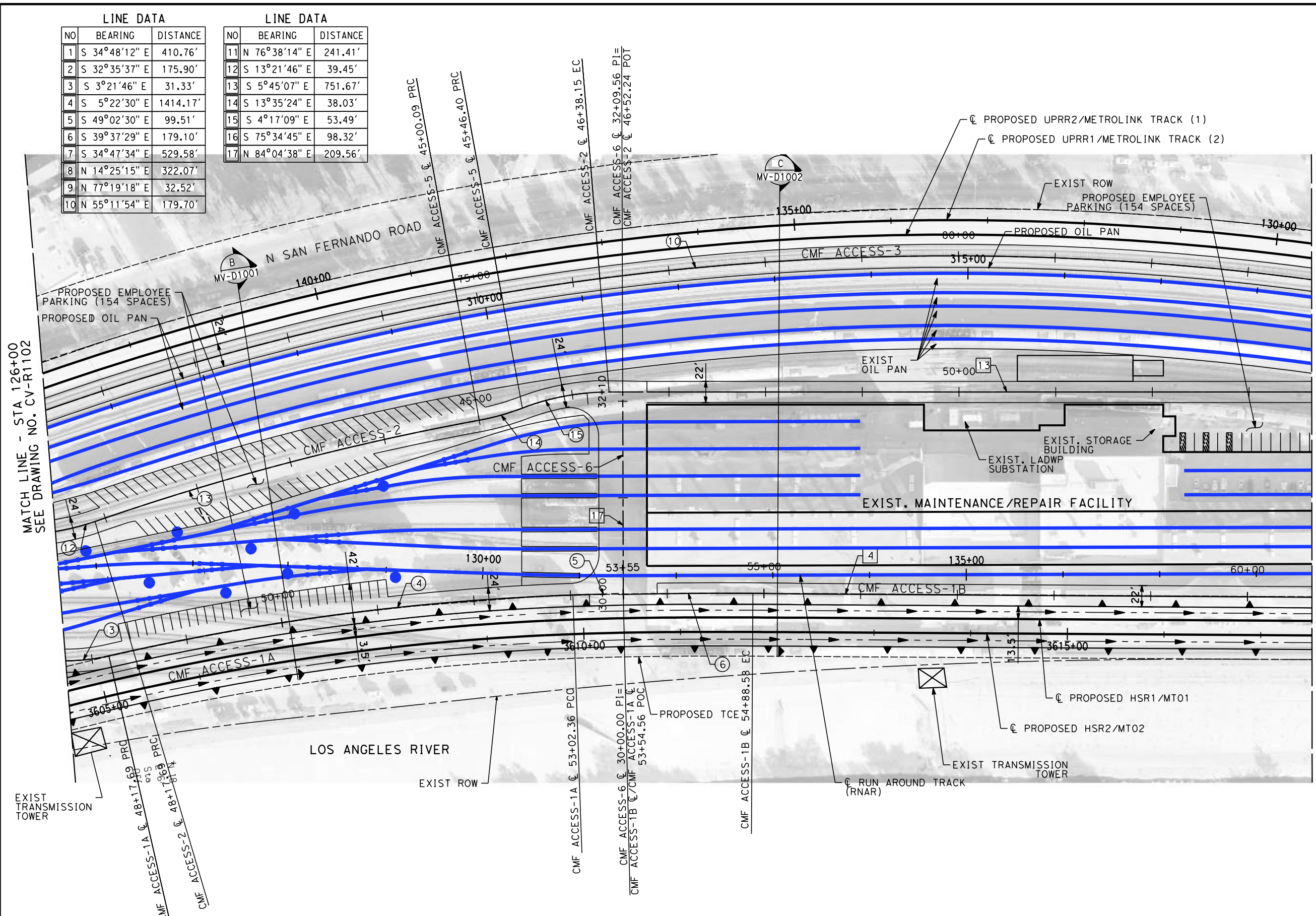
**LINE DATA**

NO	BEARING	DISTANCE
11	N 76°38'14" E	241.41'
12	S 13°21'46" E	39.45'
13	S 5°45'07" E	751.67'
14	S 13°35'24" E	38.03'
15	S 4°17'09" E	53.49'
16	S 75°34'45" E	98.32'
17	N 84°04'38" E	209.56'

- NOTES:**
- FOR TRACK INFORMATION, SEE TRACK PLANS VOLUME 5
  - FOR RIGHT-OF-WAY INFORMATION, SEE RIGHT-OF-WAY PLANS VOLUME 2
  - FOR BRIDGE INFORMATION, SEE BRIDGE PLANS VOLUME 2
  - FOR UTILITY INFORMATION, SEE UTILITY PLANS VOLUME 5
  - FOR DRAINAGE INFORMATION, SEE DRAINAGE PLANS VOLUME 5
  - FOR SYSTEM INFORMATION, SEE SYSTEM PLANS VOLUME 4

**CURVE DATA**

NO	R	Δ	T	L
①	5012.00'	2°12'35"	96.66'	193.30'
②	1112.00'	15°36'20"	152.38'	302.87'
③	200.00'	15°19'47"	26.92'	53.51'
④	2540.50'	10°55'51"	243.07'	484.67'
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⑦	50.00'	43°40'00"	20.03'	38.11'
⑧	1676.11'	25°47'12"	383.67'	754.35'
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⑩	2827.93'	49°12'48"	1295.13'	2429.02'
⑪	37.00'	91°44'33"	38.14'	59.24'
⑫	250.00'	11°30'21"	25.19'	50.20'
⑬	2702.43'	8°42'07"	205.61'	410.44'
⑭	250.00'	10°36'44"	23.22'	46.30'
⑮	250.00'	21°01'37"	46.40'	91.75'
⑯	300.00'	9°27'03"	24.80'	49.49'
⑰	2719.93'	9°53'27"	235.35'	469.54'



**NOT FOR CONSTRUCTION  
FOR INTERNAL USE ONLY**

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
**R. YU**  
DRAWN BY  
**J. REGUYAL**  
CHECKED BY  
**R. YU**  
IN CHARGE  
**C. LEE**  
DATE  
**08/27/2021**

**PEPD  
RECORD SET**

**NOT FOR  
CONSTRUCTION**



**CALIFORNIA HIGH-SPEED TRAIN PROJECT**  
**BURBANK TO LOS ANGELES**  
OPTION B REVISED ALIGNMENT - REVISED FINAL  
PEPD  
CMF  
ROADWAY - SHEET 3 OF 4

CONTRACT NO.  
HSR14-39  
DRAWING NO.  
CV-R1103  
SCALE  
AS SHOWN  
SHEET NO.



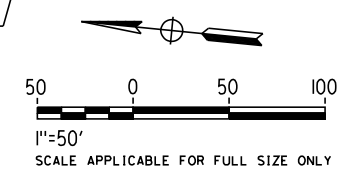
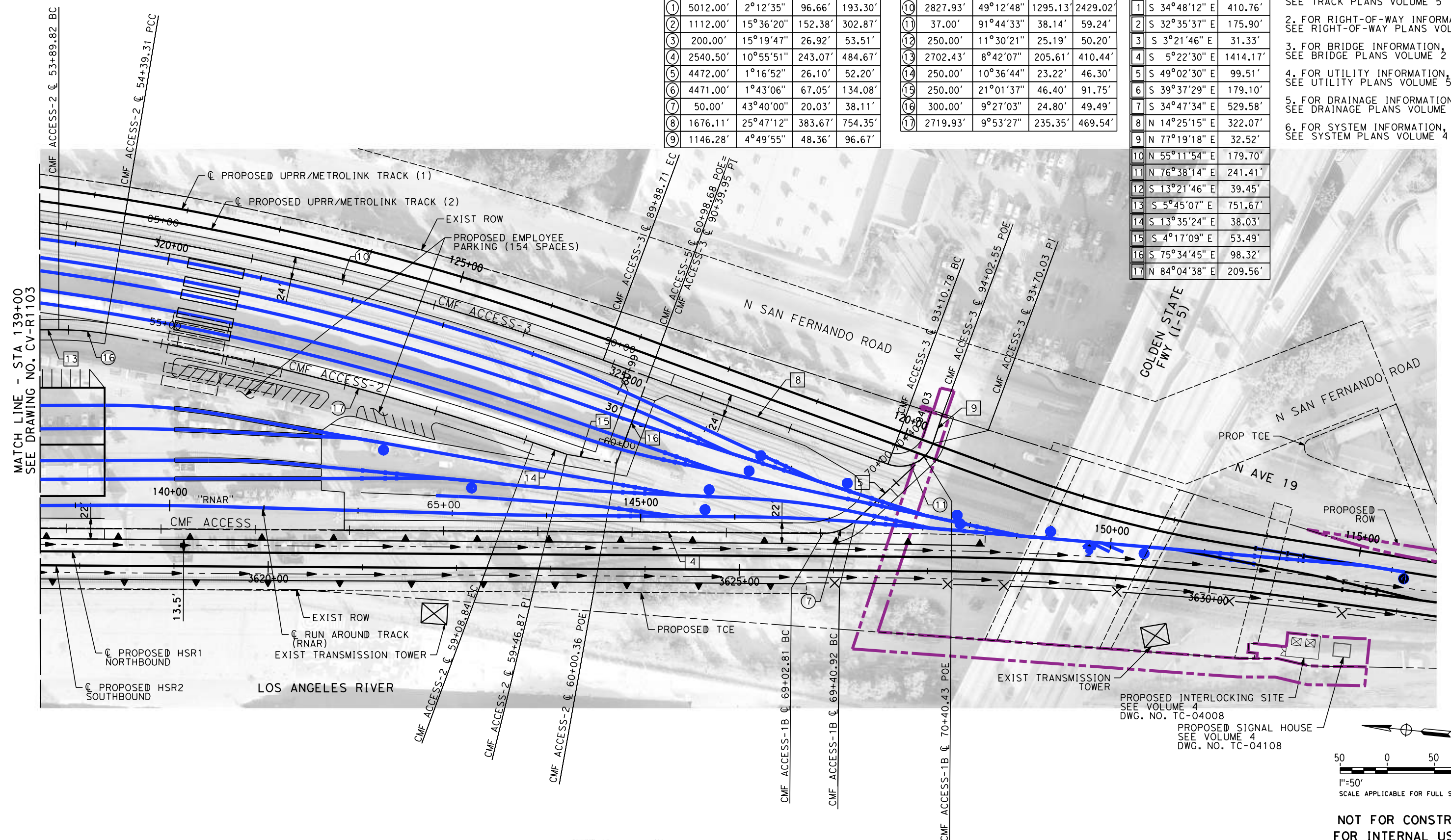
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CURVE DATA				
NO	R	Δ	T	L
①	5012.00'	2°12'35"	96.66'	193.30'
②	1112.00'	15°36'20"	152.38'	302.87'
③	200.00'	15°19'47"	26.92'	53.51'
④	2540.50'	10°55'51"	243.07'	484.67'
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⑥	4471.00'	1°43'06"	67.05'	134.08'
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⑧	1676.11'	25°47'12"	383.67'	754.35'
⑨	1146.28'	4°49'55"	48.36'	96.67'

CURVE DATA				
NO	R	Δ	T	L
⑩	2827.93'	49°12'48"	1295.13'	2429.02'
⑪	37.00'	91°44'33"	38.14'	59.24'
⑫	250.00'	11°30'21"	25.19'	50.20'
⑬	2702.43'	8°42'07"	205.61'	410.44'
⑭	250.00'	10°36'44"	23.22'	46.30'
⑮	250.00'	21°01'37"	46.40'	91.75'
⑯	300.00'	9°27'03"	24.80'	49.49'
⑰	2719.93'	9°53'27"	235.35'	469.54'

LINE DATA		
NO	BEARING	DISTANCE
1	S 34°48'12" E	410.76'
2	S 32°35'37" E	175.90'
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4	S 5°22'30" E	1414.17'
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6	S 39°37'29" E	179.10'
7	S 34°47'34" E	529.58'
8	N 14°25'15" E	322.07'
9	N 77°19'18" E	32.52'
10	N 55°11'54" E	179.70'
11	N 76°38'14" E	241.41'
12	S 13°21'46" E	39.45'
13	S 5°45'07" E	751.67'
14	S 13°35'24" E	38.03'
15	S 4°17'09" E	53.49'
16	S 75°34'45" E	98.32'
17	N 84°04'38" E	209.56'

- NOTES:**
1. FOR TRACK INFORMATION, SEE TRACK PLANS VOLUME 5
  2. FOR RIGHT-OF-WAY INFORMATION, SEE RIGHT-OF-WAY PLANS VOLUME 1
  3. FOR BRIDGE INFORMATION, SEE BRIDGE PLANS VOLUME 2
  4. FOR UTILITY INFORMATION, SEE UTILITY PLANS VOLUME 5
  5. FOR DRAINAGE INFORMATION, SEE DRAINAGE PLANS VOLUME 5
  6. FOR SYSTEM INFORMATION, SEE SYSTEM PLANS VOLUME 4



**NOT FOR CONSTRUCTION  
FOR INTERNAL USE ONLY**

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
**R. YU**

DRAWN BY  
**J. REGUYAL**

CHECKED BY  
**R. YU**

IN CHARGE  
**C. LEE**

DATE  
**08/27/2021**

**PEPD  
RECORD SET**

**NOT FOR  
CONSTRUCTION**



**CALIFORNIA HIGH-SPEED TRAIN PROJECT**

**BURBANK TO LOS ANGELES**

OPTION B REVISED ALIGNMENT - REVISED FINAL

PEPD  
CMF  
ROADWAY - SHEET 4 OF 4

CONTRACT NO.  
HSR14-39

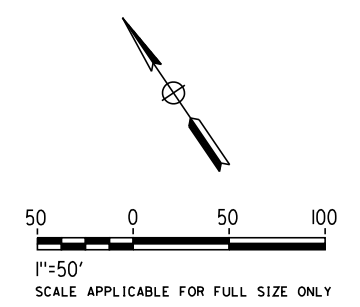
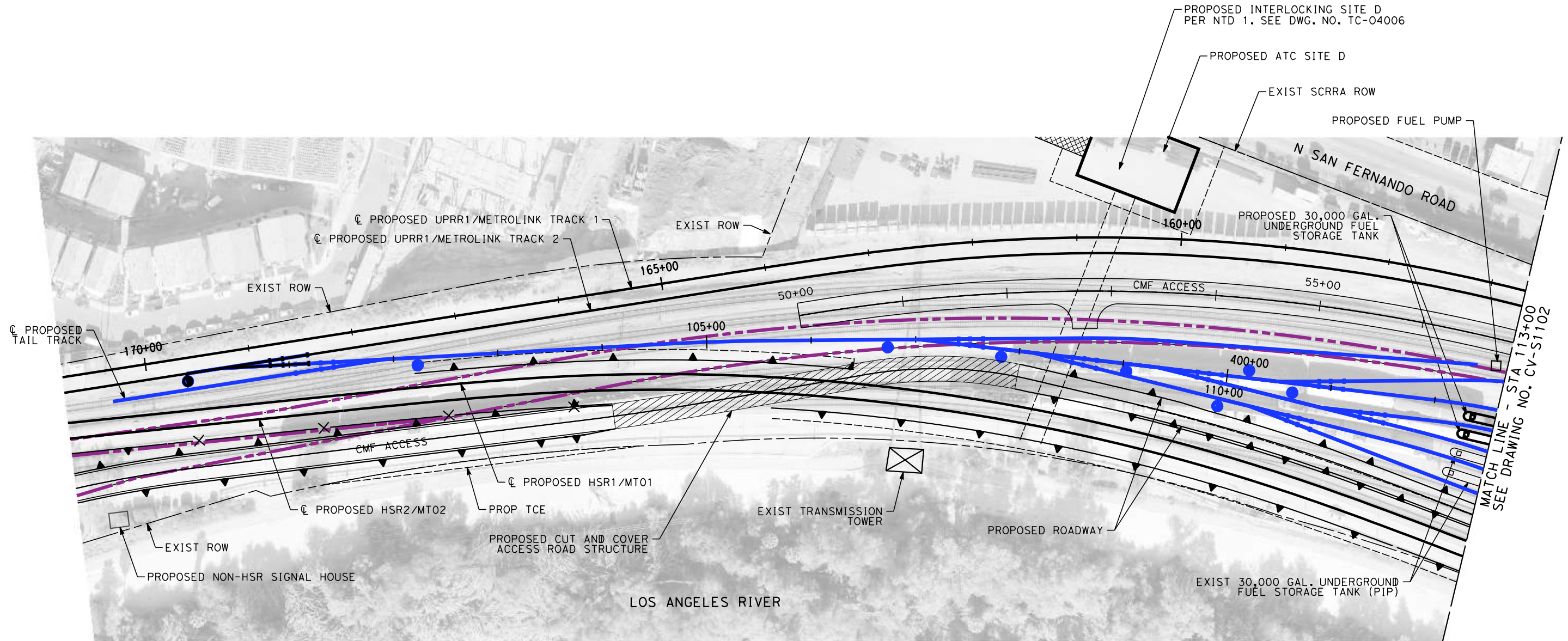
DRAWING NO.  
CV-R1104

SCALE  
AS SHOWN

SHEET NO.



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**NOT FOR CONSTRUCTION  
FOR INTERNAL USE ONLY**

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
**C. CUSSON**  
DRAWN BY  
**C. CUSSON**  
CHECKED BY  
**C. LEE**  
IN CHARGE  
**C. LEE**  
DATE  
**08/27/2021**

**PEPD  
RECORD SET**

**NOT FOR  
CONSTRUCTION**

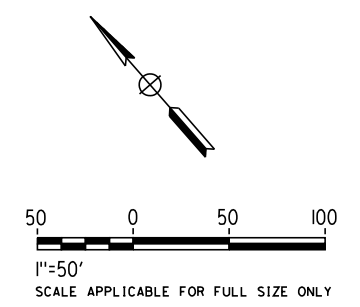
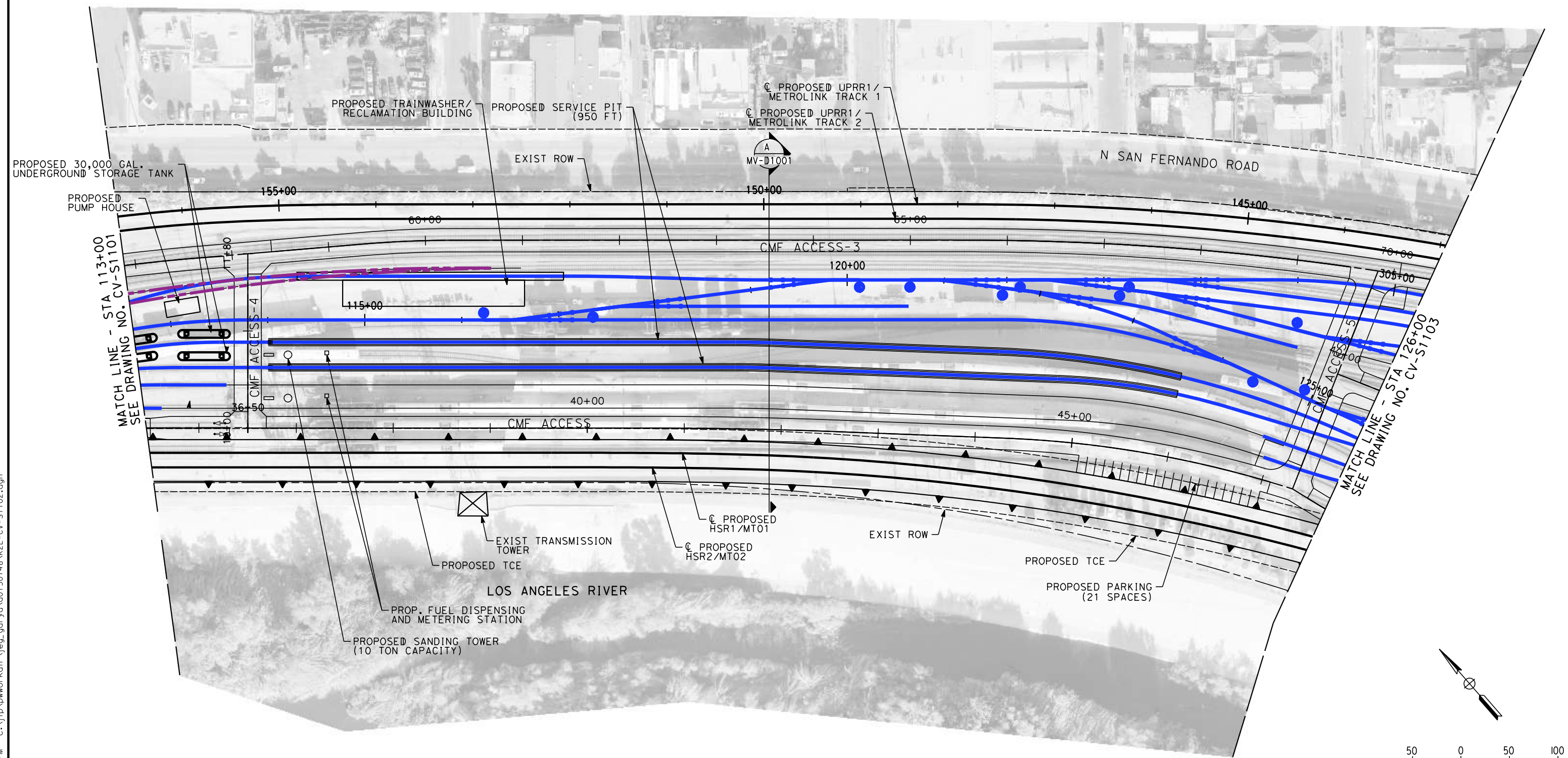


**CALIFORNIA HIGH-SPEED TRAIN PROJECT**  
**BURBANK TO LOS ANGELES**  
OPTION B REVISED ALIGNMENT - REVISED FINAL  
PEPD  
CMF  
SITE IMPROVEMENTS - SHEET 1 OF 4

CONTRACT NO.  
HSR14-39  
DRAWING NO.  
CV-S1101  
SCALE  
AS SHOWN  
SHEET NO.



8/26/2021 8:21:56 PM c:\j\p\pwworkdir\jag\_gary\d0150148\K2L-CV-S1102.dgn



NOT FOR CONSTRUCTION  
FOR INTERNAL USE ONLY

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
**C. CUSSON**  
DRAWN BY  
**C. CUSSON**  
CHECKED BY  
**C. LEE**  
IN CHARGE  
**C. LEE**  
DATE  
**08/27/2021**

**PEPD RECORD SET**  
  
**NOT FOR CONSTRUCTION**

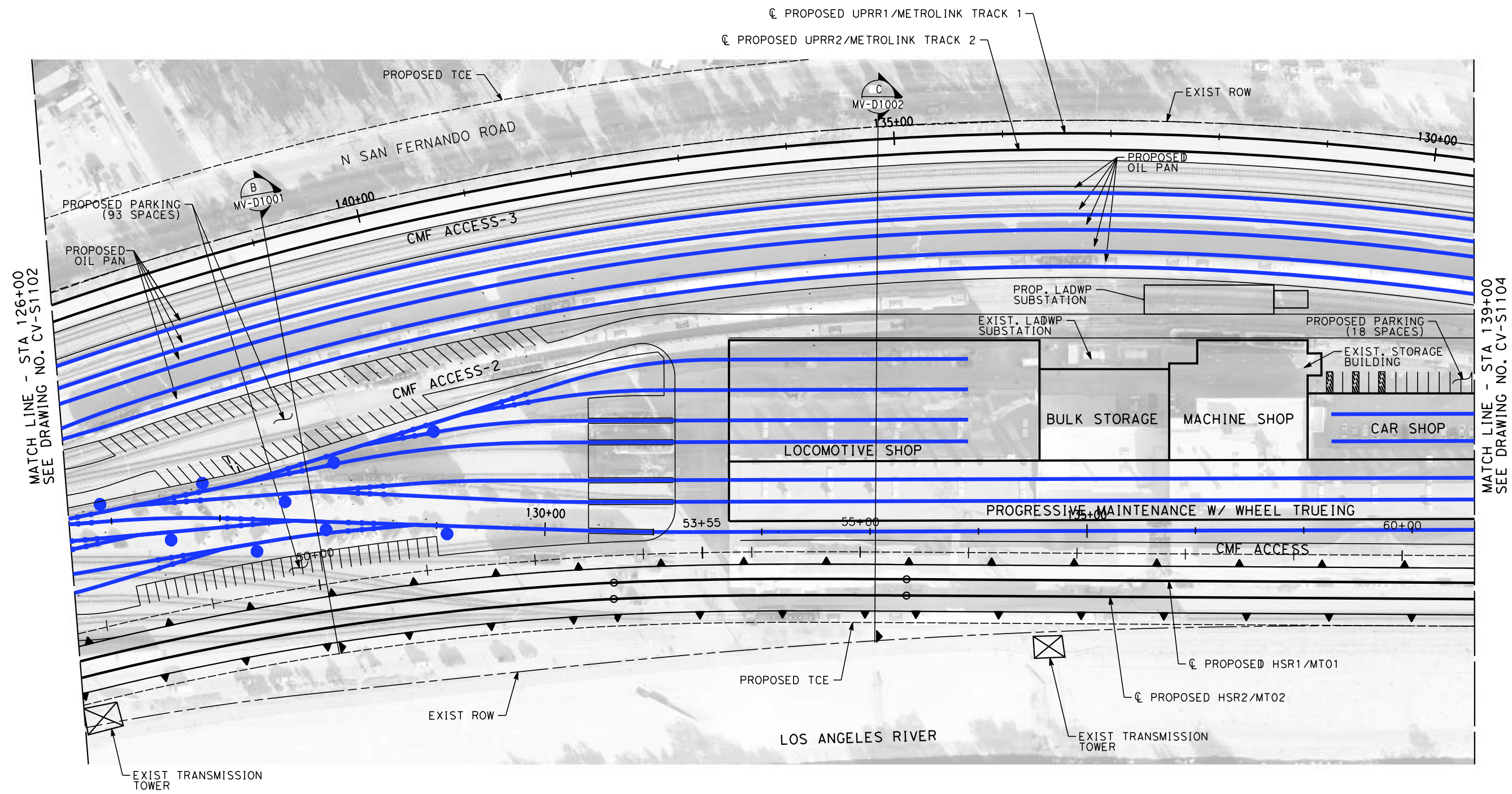


**CALIFORNIA HIGH-SPEED TRAIN PROJECT**  
**BURBANK TO LOS ANGELES**  
OPTION B REVISED ALIGNMENT - REVISED FINAL  
PEPD  
CMF  
SITE IMPROVEMENTS - SHEET 2 OF 4

CONTRACT NO.  
HSR14-39  
DRAWING NO.  
CV-S1102  
SCALE  
AS SHOWN  
SHEET NO.

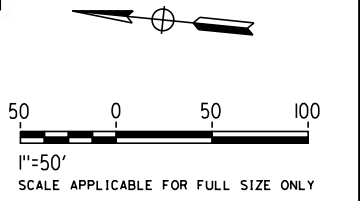


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MATCH LINE - STA 126+00  
SEE DRAWING NO. CV-S1102

MATCH LINE - STA 139+00  
SEE DRAWING NO. CV-S1104



**NOT FOR CONSTRUCTION  
FOR INTERNAL USE ONLY**

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
**C. CUSSON**  
DRAWN BY  
**C. CUSSON**  
CHECKED BY  
**C. LEE**  
IN CHARGE  
**C. LEE**  
DATE  
**08/27/2021**

**PEPD  
RECORD SET**

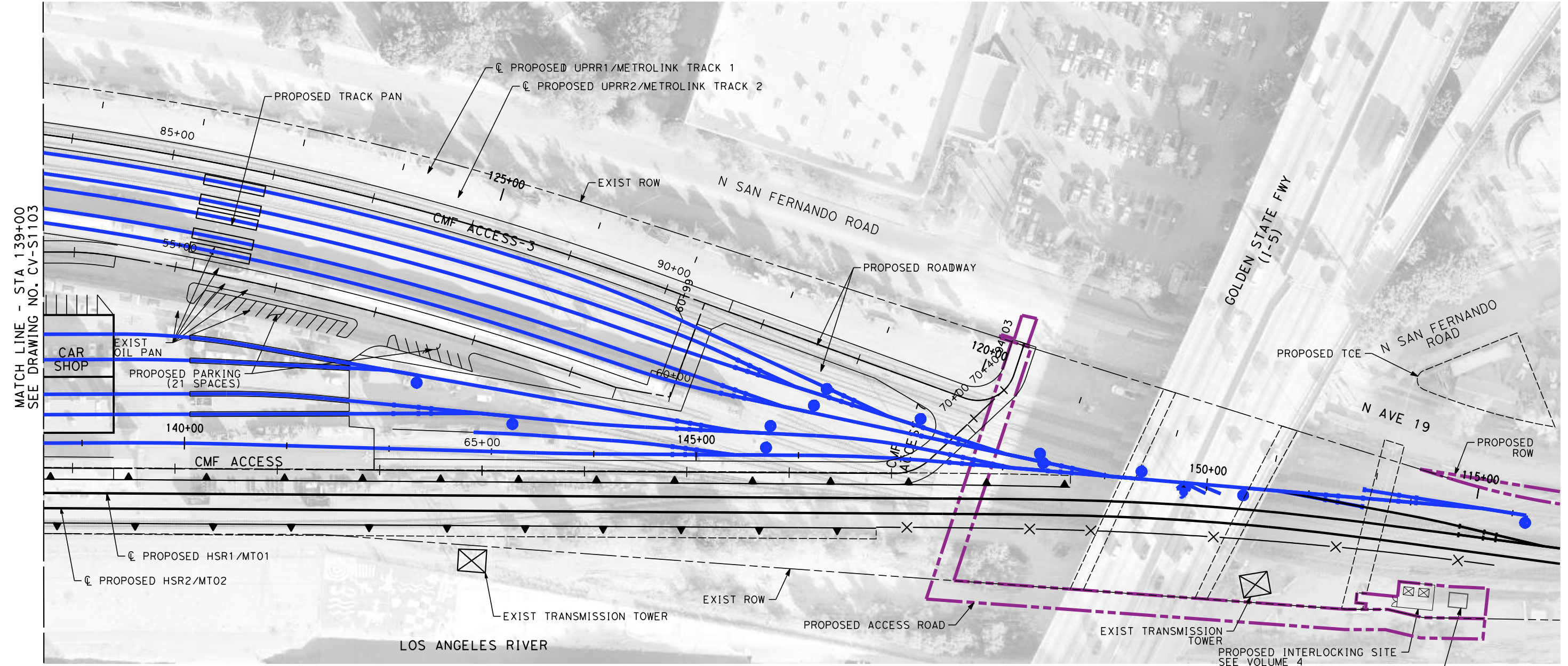
**NOT FOR  
CONSTRUCTION**



**CALIFORNIA HIGH-SPEED TRAIN PROJECT**  
**BURBANK TO LOS ANGELES**  
OPTION B REVISED ALIGNMENT - REVISED FINAL  
PEPD  
CMF  
SITE IMPROVEMENTS - SHEET 3 OF 4

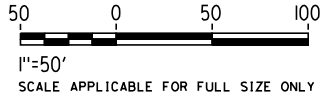
CONTRACT NO.  
HSR14-39  
DRAWING NO.  
CV-S1103  
SCALE  
AS SHOWN  
SHEET NO.





MATCH LINE - STA 139+00  
SEE DRAWING NO. CV-S1103

PROPOSED INTERLOCKING SITE  
SEE VOLUME 4  
DWG. NO. TC-04008  
PROPOSED SIGNAL HOUSE  
SEE VOLUME 4  
DWG. NO. TC-04108



NOT FOR CONSTRUCTION  
FOR INTERNAL USE ONLY

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REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
**C. LEE**  
DRAWN BY  
**C. LEE**  
CHECKED BY  
**C. LEE**  
IN CHARGE  
**C. LEE**  
DATE  
**08/27/2021**

**PEPD  
RECORD SET**  
  
**NOT FOR  
CONSTRUCTION**

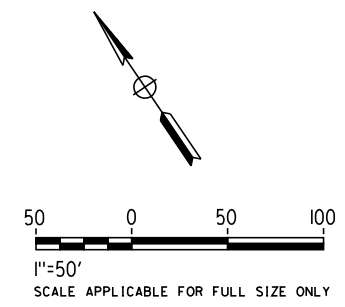
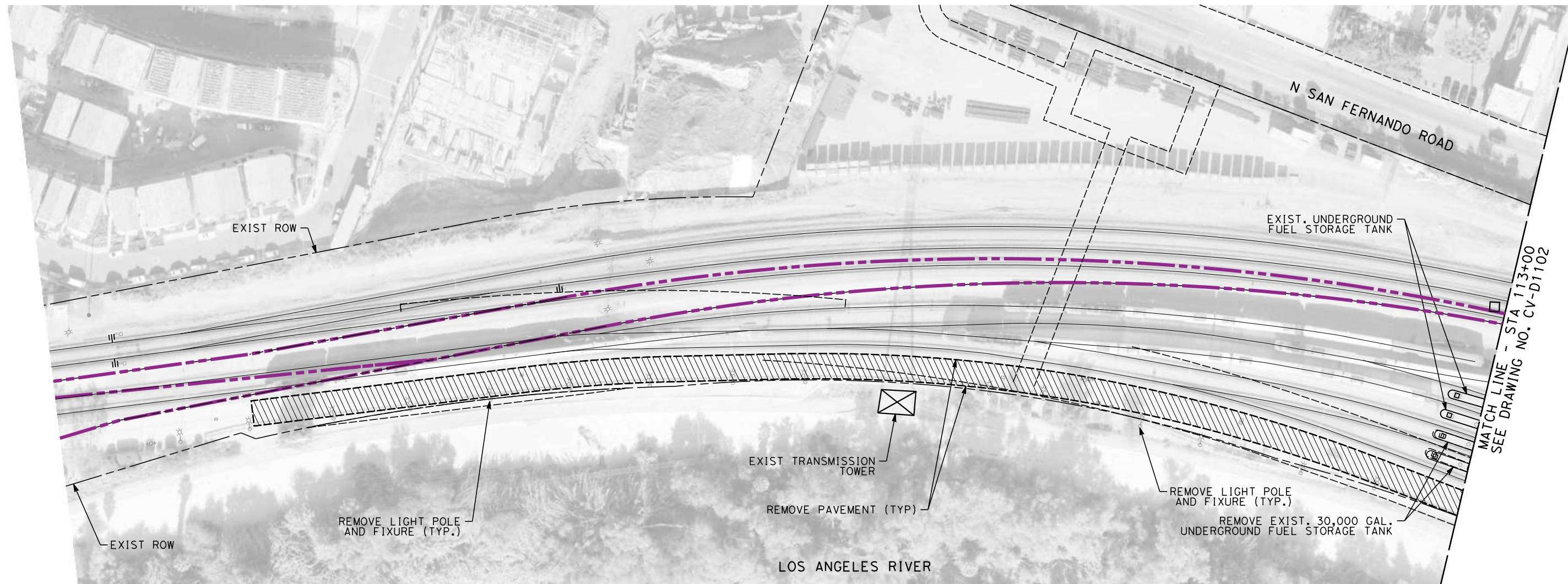


**CALIFORNIA HIGH-SPEED TRAIN PROJECT**  
**BURBANK TO LOS ANGELES**  
OPTION B REVISED ALIGNMENT - REVISED FINAL  
PEPD  
CMF  
SITE IMPROVEMENTS - SHEET 4 OF 4

CONTRACT NO.  
HSR14-39  
DRAWING NO.  
CV-S1104  
SCALE  
AS SHOWN  
SHEET NO.



7/13/2021 3:40:53 PM c:\jip\pwworkdir\jag\_garya\d0150148\K2L-CV-D1101.dgn



**NOT FOR CONSTRUCTION  
FOR INTERNAL USE ONLY**

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
**C. CUSSON**  
DRAWN BY  
**C. CUSSON**  
CHECKED BY  
**C. LEE**  
IN CHARGE  
**C. LEE**  
DATE  
**07/15/2021**

**PEPD  
RECORD SET**

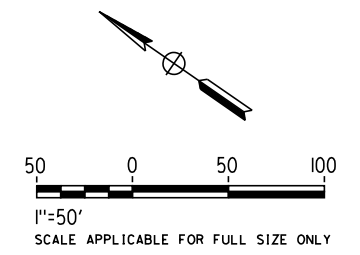
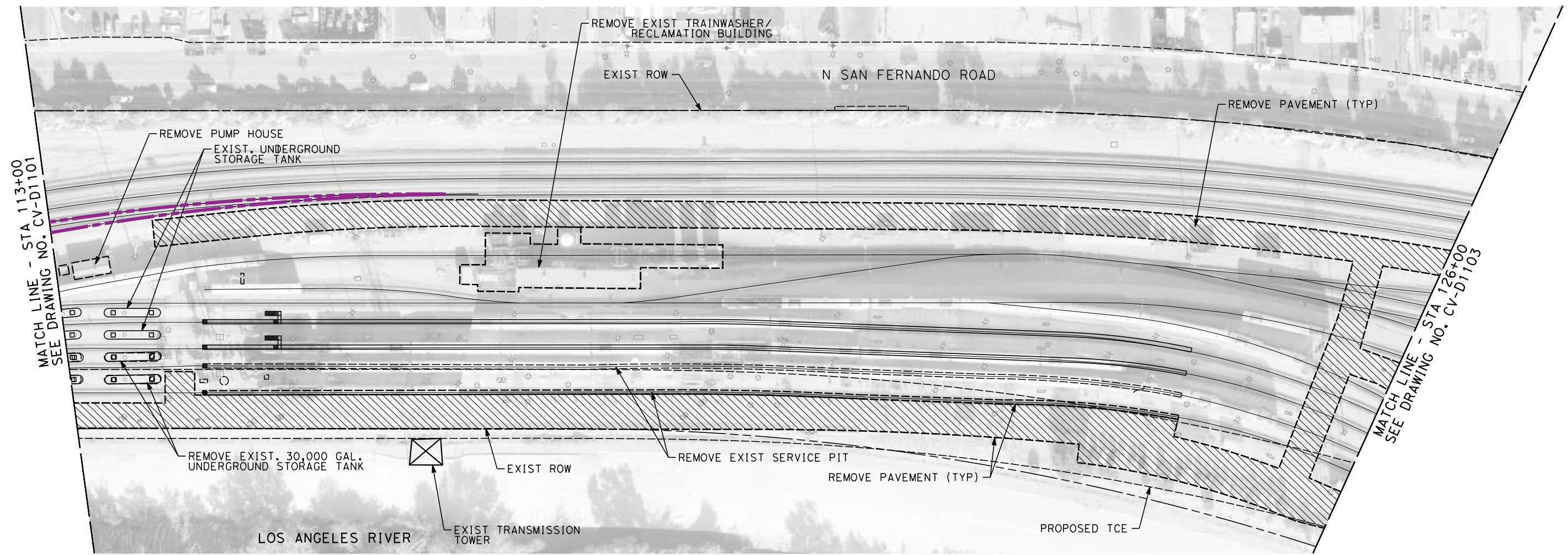
**NOT FOR  
CONSTRUCTION**



**CALIFORNIA HIGH-SPEED TRAIN PROJECT**  
**BURBANK TO LOS ANGELES**  
OPTION B REVISED ALIGNMENT - REVISED FINAL  
PEPD  
CMF  
DEMOLITION - SHEET 1 OF 4

CONTRACT NO.  
HSR14-39  
DRAWING NO.  
CV-D1101  
SCALE  
AS SHOWN  
SHEET NO.

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REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
**C. CUSSON**  
DRAWN BY  
**C. CUSSON**  
CHECKED BY  
**C. LEE**  
IN CHARGE  
**C. LEE**  
DATE  
**07/15/2021**

**PEPD  
RECORD SET**

**NOT FOR  
CONSTRUCTION**

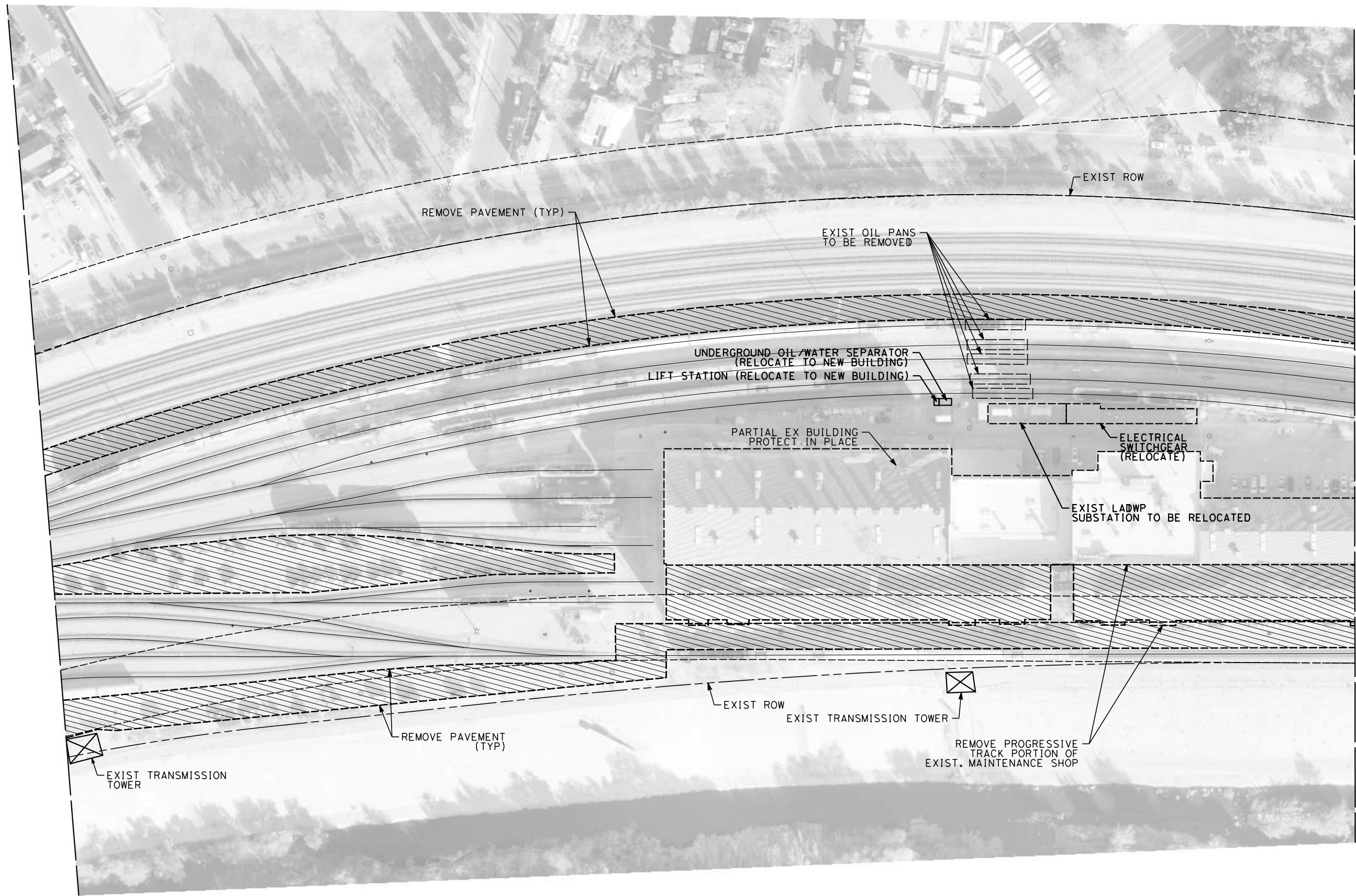


**CALIFORNIA HIGH-SPEED TRAIN PROJECT**  
**BURBANK TO LOS ANGELES**  
OPTION B REVISED ALIGNMENT - REVISED FINAL  
PEPD  
CMF  
DEMOLITION - SHEET 2 OF 4

CONTRACT NO.  
HSR14-39  
DRAWING NO.  
CV-D1102  
SCALE  
AS SHOWN  
SHEET NO.



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REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
**C. CUSSON**  
DRAWN BY  
**C. CUSSON**  
CHECKED BY  
**C. LEE**  
IN CHARGE  
**C. LEE**  
DATE  
**07/15/2021**

**PEPD  
RECORD SET**  
  
**NOT FOR  
CONSTRUCTION**



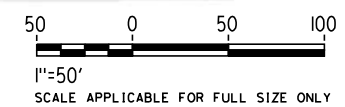
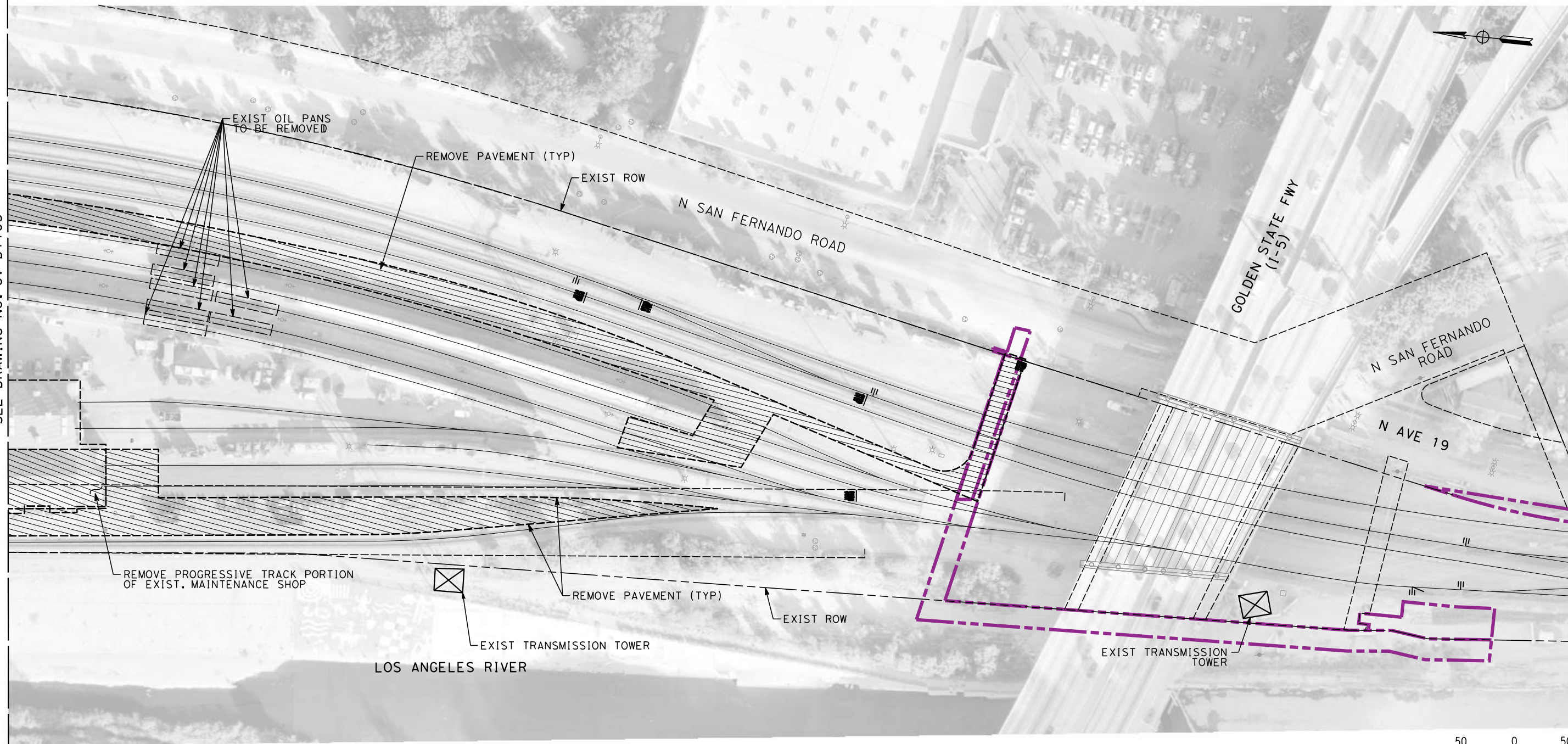
**CALIFORNIA HIGH-SPEED TRAIN PROJECT**  
**BURBANK TO LOS ANGELES**  
OPTION B REVISED ALIGNMENT - REVISED FINAL  
PEPD  
CMF  
DEMOLITION - SHEET 3 OF 4

CONTRACT NO.  
HSR14-39  
DRAWING NO.  
CV-D1103  
SCALE  
AS SHOWN  
SHEET NO.



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MATCH LINE - STA 139+00  
SEE DRAWING NO. CV-D1103



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FOR INTERNAL USE ONLY

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
**C. CUSSON**  
DRAWN BY  
**C. CUSSON**  
CHECKED BY  
**C. LEE**  
IN CHARGE  
**C. LEE**  
DATE  
**07/15/2021**

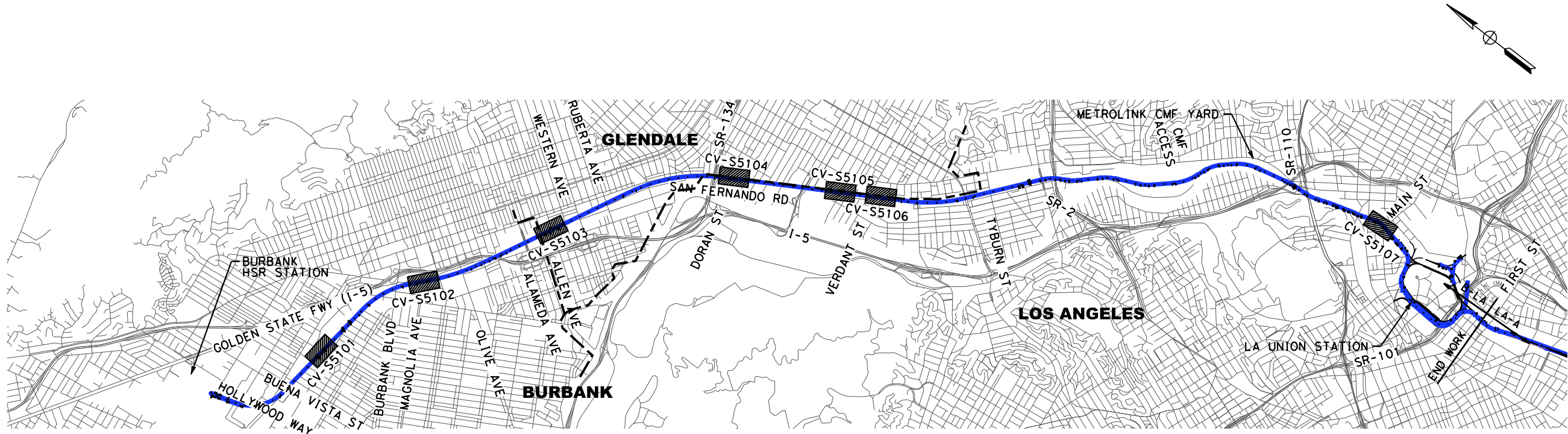
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**NOT FOR  
CONSTRUCTION**



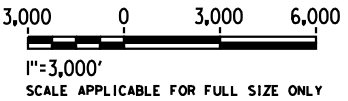
**CALIFORNIA HIGH-SPEED TRAIN PROJECT**  
**BURBANK TO LOS ANGELES**  
OPTION B REVISED ALIGNMENT - REVISED FINAL  
PEPD  
CMF  
DEMOLITION - SHEET 4 OF 4

CONTRACT NO.  
**HSR14-39**  
DRAWING NO.  
**CV-D1104**  
SCALE  
**AS SHOWN**  
SHEET NO.





VEHICLE TRACK ACCESS LOCATIONS		
STREET POINT OF ENTRY	HSR STATION	DRAWING NO.
BUENA VISTA ST / LINCOLN ST	3095+01	CV-S5101
UPRR WYE TRACKS	3161+20	CV-S5102
ALLEN AVE	3224+00	CV-S5103
DORAN ST	3325+00	CV-S5104
GOODWIN AVE	3387+00	CV-S5105
VERDANT ST	3412+60	CV-S5106
MAIN ST	3683+00	CV-S5107



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REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
**J. FELIX**  
DRAWN BY  
**J. FELIX**  
CHECKED BY  
**C. LEE**  
IN CHARGE  
**C. LEE**  
DATE  
**07/15/2021**

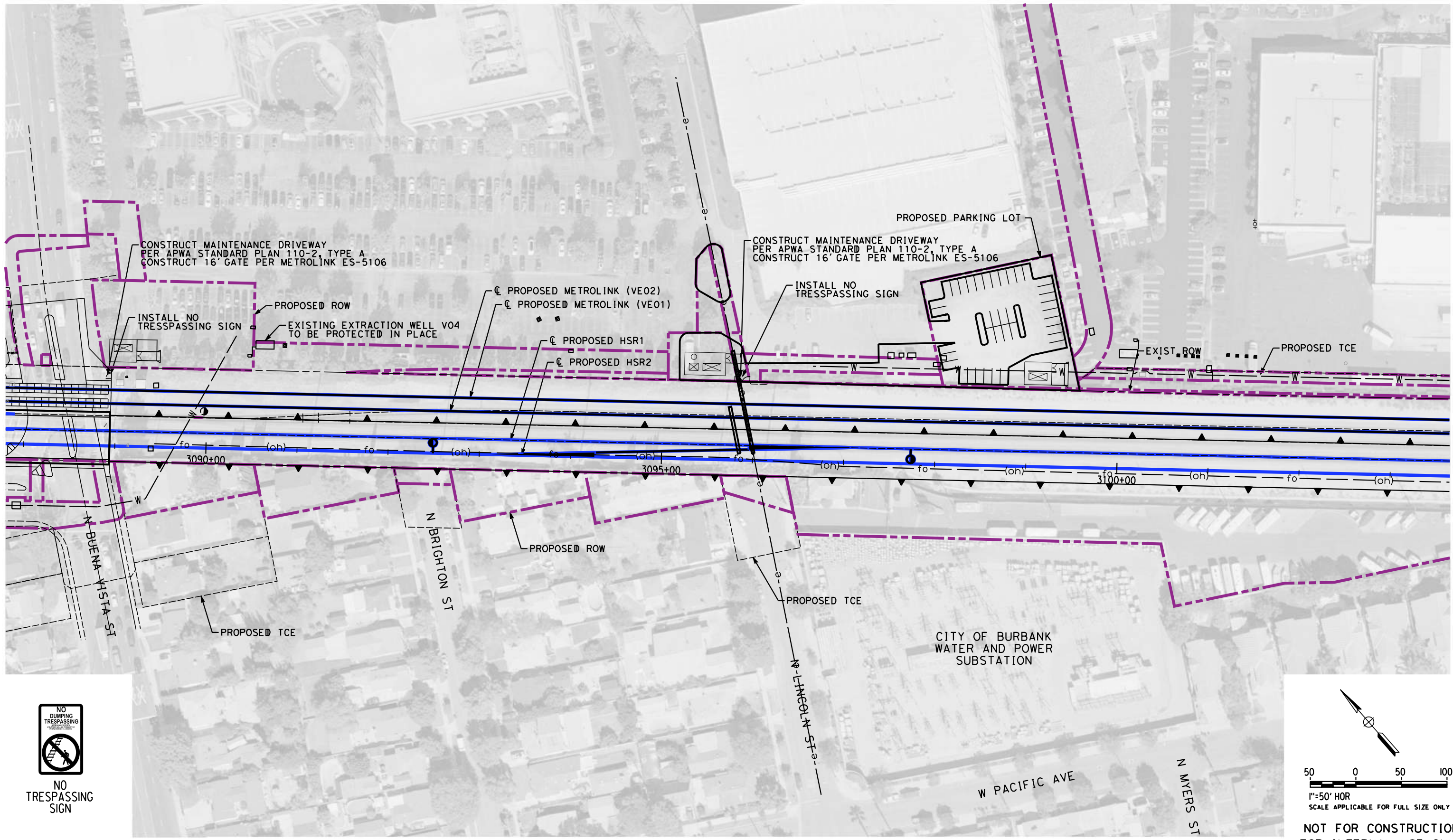


**CALIFORNIA HIGH-SPEED TRAIN PROJECT**  
**BURBANK TO LOS ANGELES**  
OPTION B REVISED ALIGNMENT - REVISED FINAL  
PEP#  
VEHICLE TRACK ACCESS  
LOCATION PLAN

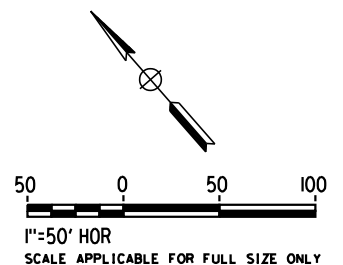
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HSR14-39  
DRAWING NO.  
CV-S5100  
SCALE  
AS SHOWN  
SHEET NO.



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**NO TRESPASSING SIGN**



**NOT FOR CONSTRUCTION  
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REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
**J. FELIX**  
DRAWN BY  
**J. FELIX**  
CHECKED BY  
**C. LEE**  
IN CHARGE  
**C. LEE**  
DATE  
**07/15/2021**

**PEPD RECORD SET**

**NOT FOR CONSTRUCTION**

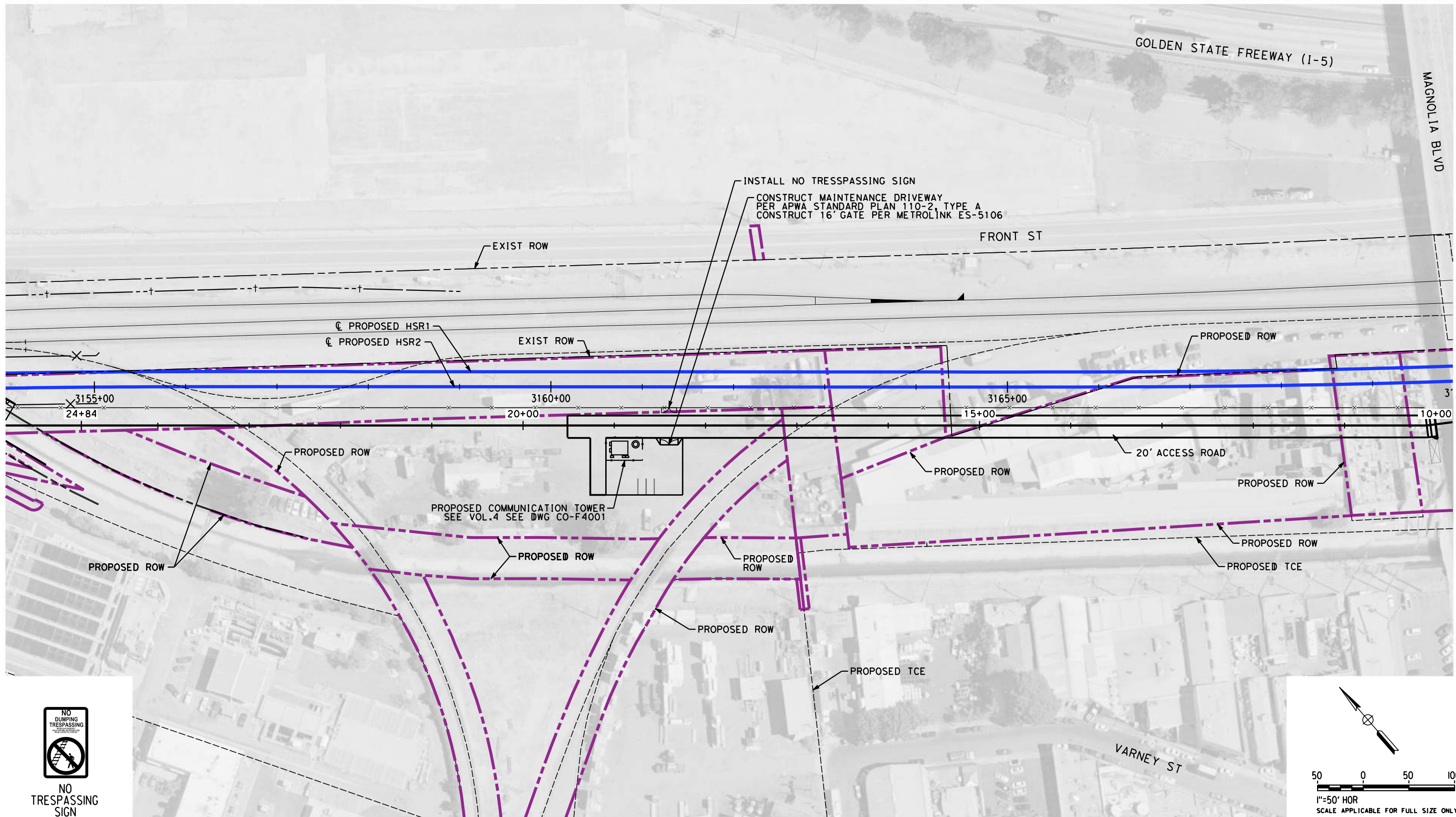


**CALIFORNIA HIGH-SPEED TRAIN PROJECT**  
**BURBANK TO LOS ANGELES**  
OPTION B REVISED ALIGNMENT - REVISED FINAL  
PEPD  
VEHICLE TRACK ACCESS  
BUENA VISTA ST / LINCOLN ST HSR STA 3095+01

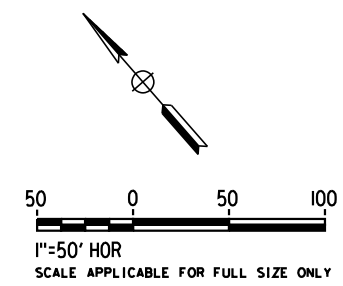
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HSR14-39  
DRAWING NO.  
CV-S5101  
SCALE  
AS SHOWN  
SHEET NO.



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**NO TRESPASSING SIGN**



**NOT FOR CONSTRUCTION  
FOR INTERNAL USE ONLY**

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
**J. FELIX**  
DRAWN BY  
**J. FELIX**  
CHECKED BY  
**C. LEE**  
IN CHARGE  
**C. LEE**  
DATE  
**07/15/2021**

**PEPD  
RECORD SET**

**NOT FOR  
CONSTRUCTION**

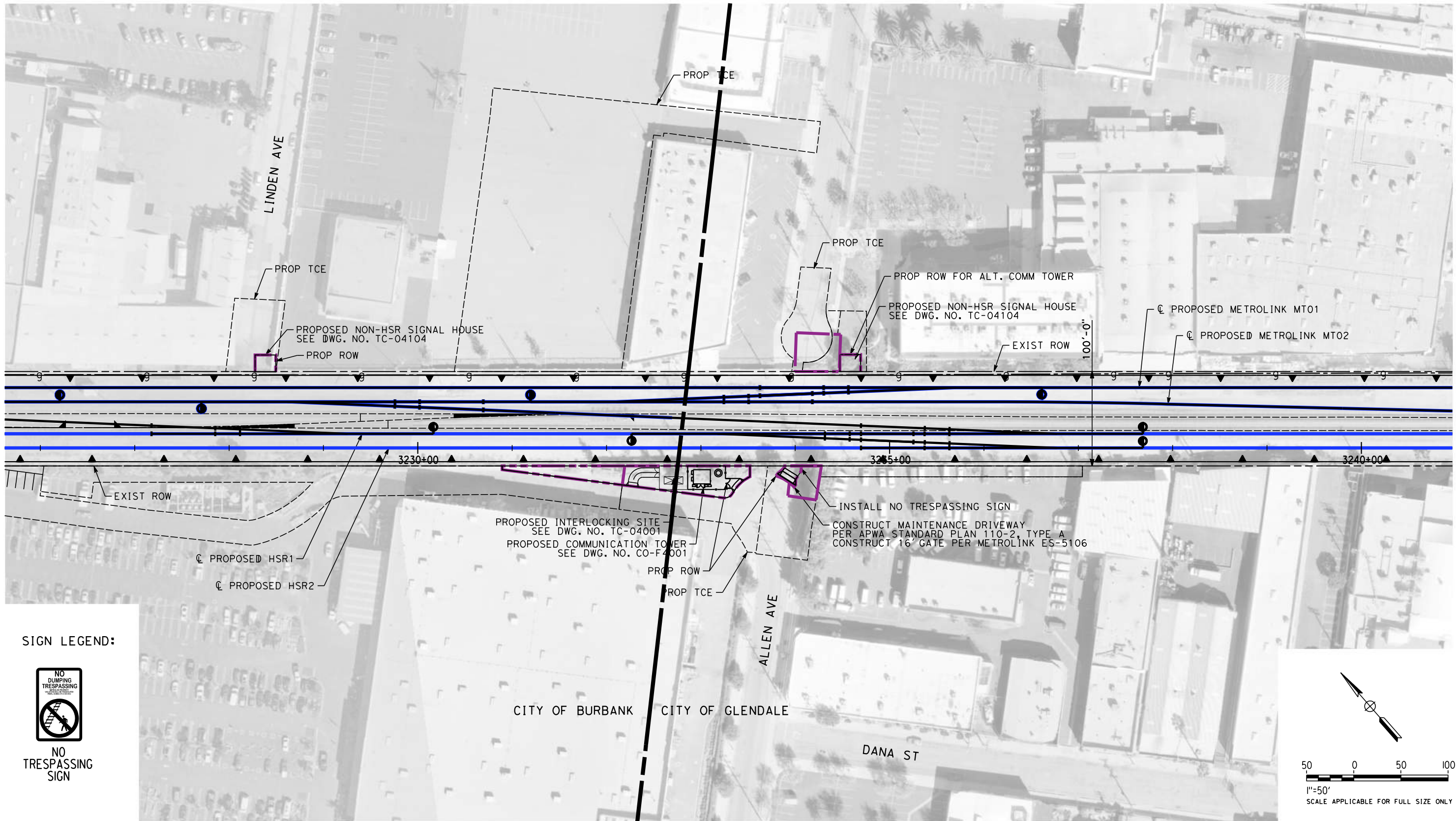


**CALIFORNIA HIGH-SPEED TRAIN PROJECT  
BURBANK TO LOS ANGELES**

OPTION B REVISED ALIGNMENT - REVISED FINAL  
PEPD  
VEHICLE TRACK ACCESS  
UPRR WYE TRACKS HSR STA 3161+20

CONTRACT NO.  
HSR14-39  
DRAWING NO.  
CV-S5102  
SCALE  
AS SHOWN  
SHEET NO.

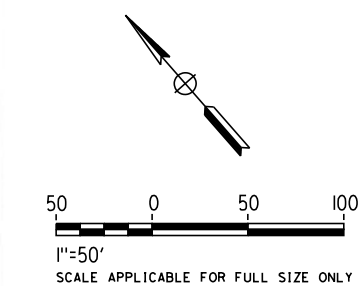




**SIGN LEGEND:**



**NO TRESPASSING SIGN**



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REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
**J. FELIX**  
DRAWN BY  
**J. FELIX**  
CHECKED BY  
**C. LEE**  
IN CHARGE  
**C. LEE**  
DATE  
**07/15/2021**

**PEPD  
RECORD SET**

**NOT FOR  
CONSTRUCTION**

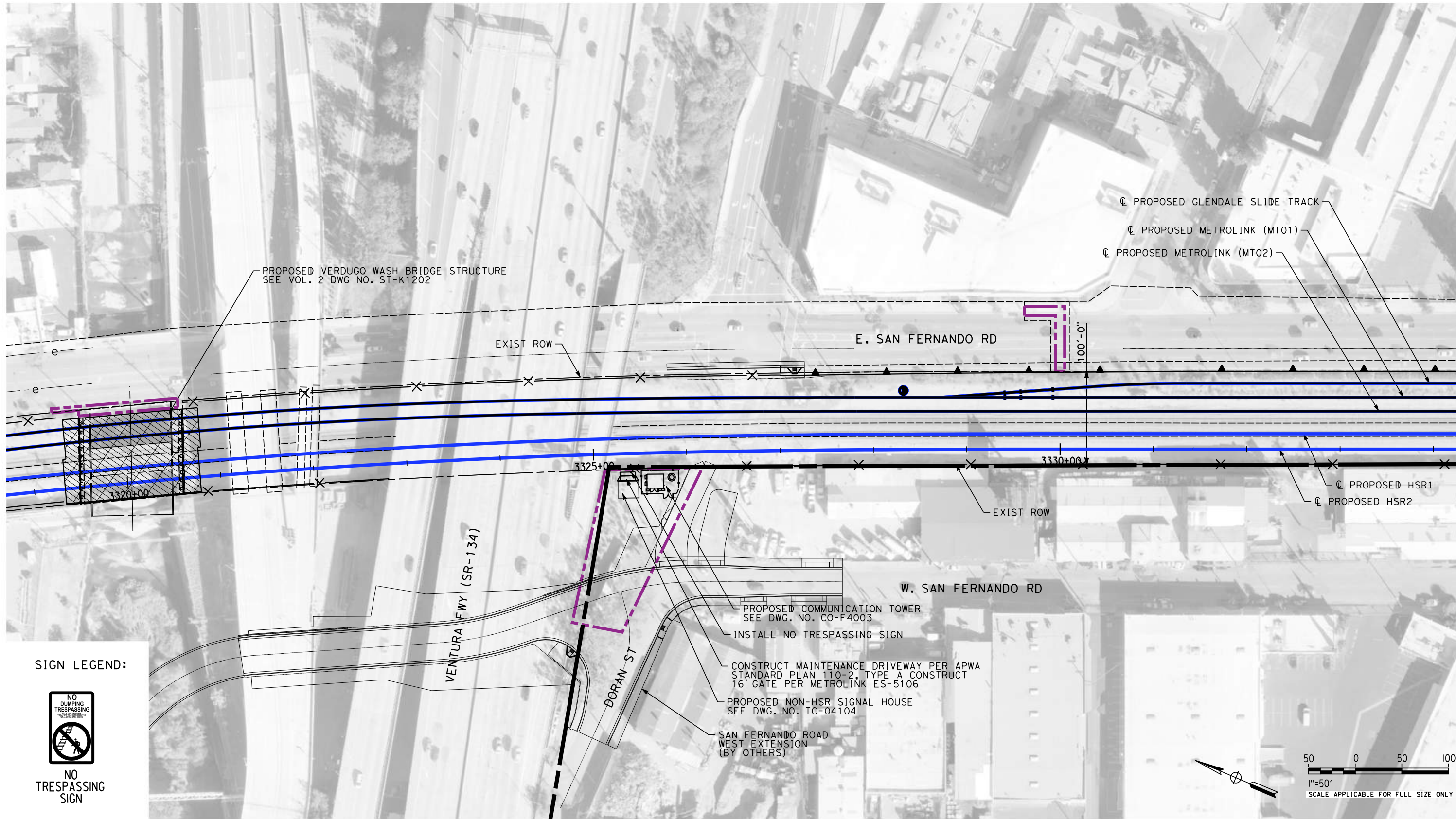


**CALIFORNIA HIGH-SPEED TRAIN PROJECT**  
**BURBANK TO LOS ANGELES**  
OPTION B REVISED ALIGNMENT - REVISED FINAL  
PEPD  
VEHICLE TRACK ACCESS  
ALLEN AVE HSR STA 3224+00

CONTRACT NO.  
HSR14-39  
DRAWING NO.  
CV-S5103  
SCALE  
AS SHOWN  
SHEET NO.



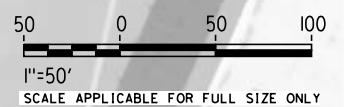
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**SIGN LEGEND:**



**NO TRESPASSING SIGN**



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FOR INTERNAL USE ONLY**

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
**J. FELIX**

DRAWN BY  
**J. FELIX**

CHECKED BY  
**C. LEE**

IN CHARGE  
**C. LEE**

DATE  
**07/15/2021**

**PEPD  
RECORD SET**

**NOT FOR  
CONSTRUCTION**



**CALIFORNIA HIGH-SPEED TRAIN PROJECT**

**BURBANK TO LOS ANGELES**

OPTION B REVISED ALIGNMENT - REVISED FINAL

PEPD

VEHICLE TRACK ACCESS

DORAN ST HSR STA 3325+00

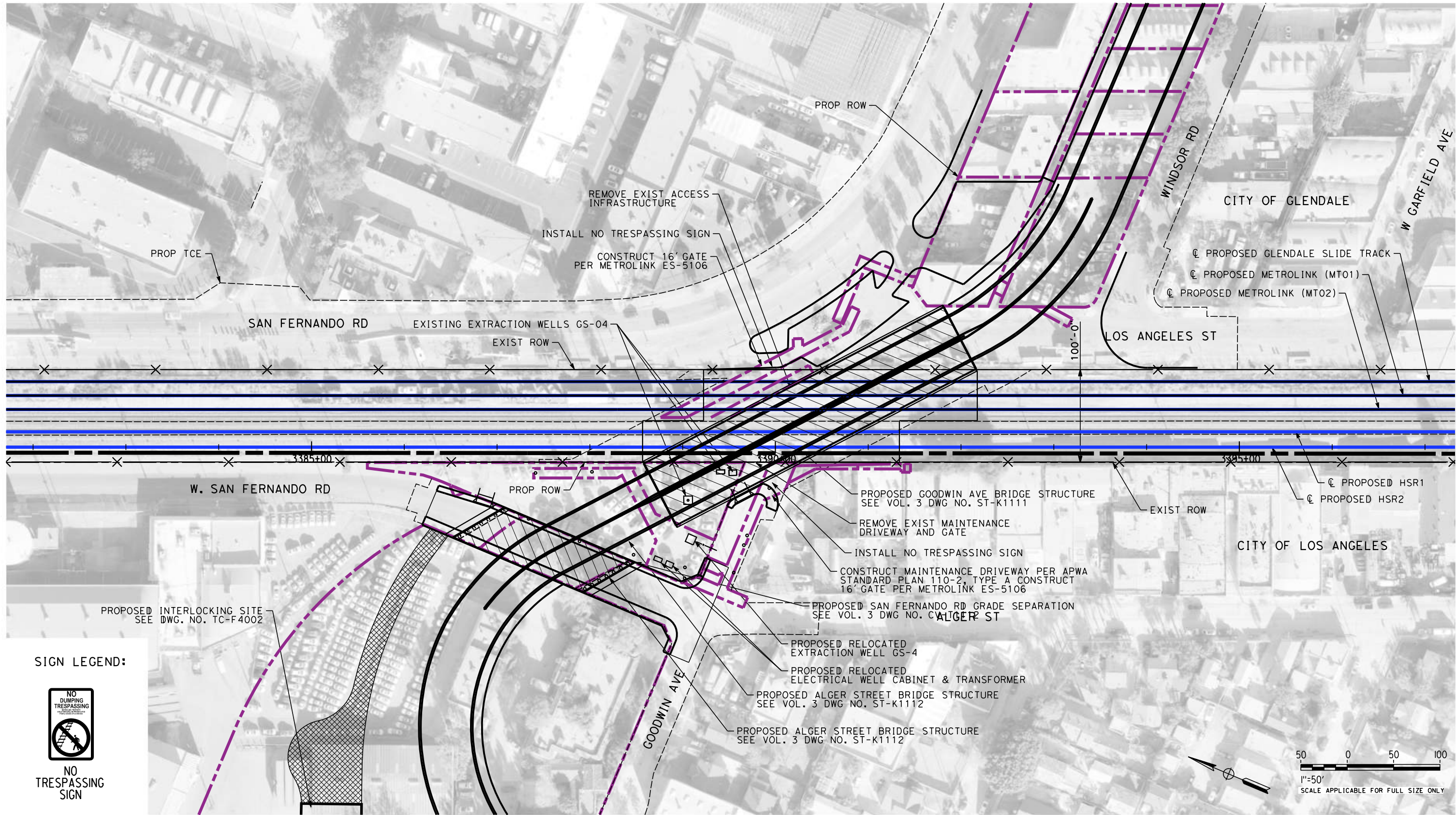
CONTRACT NO.  
HSR14-39

DRAWING NO.  
CV-S5104

SCALE  
AS SHOWN

SHEET NO.





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REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
**J. FELIX**  
DRAWN BY  
**J. FELIX**  
CHECKED BY  
**C. LEE**  
IN CHARGE  
**C. LEE**  
DATE  
**07/15/2021**

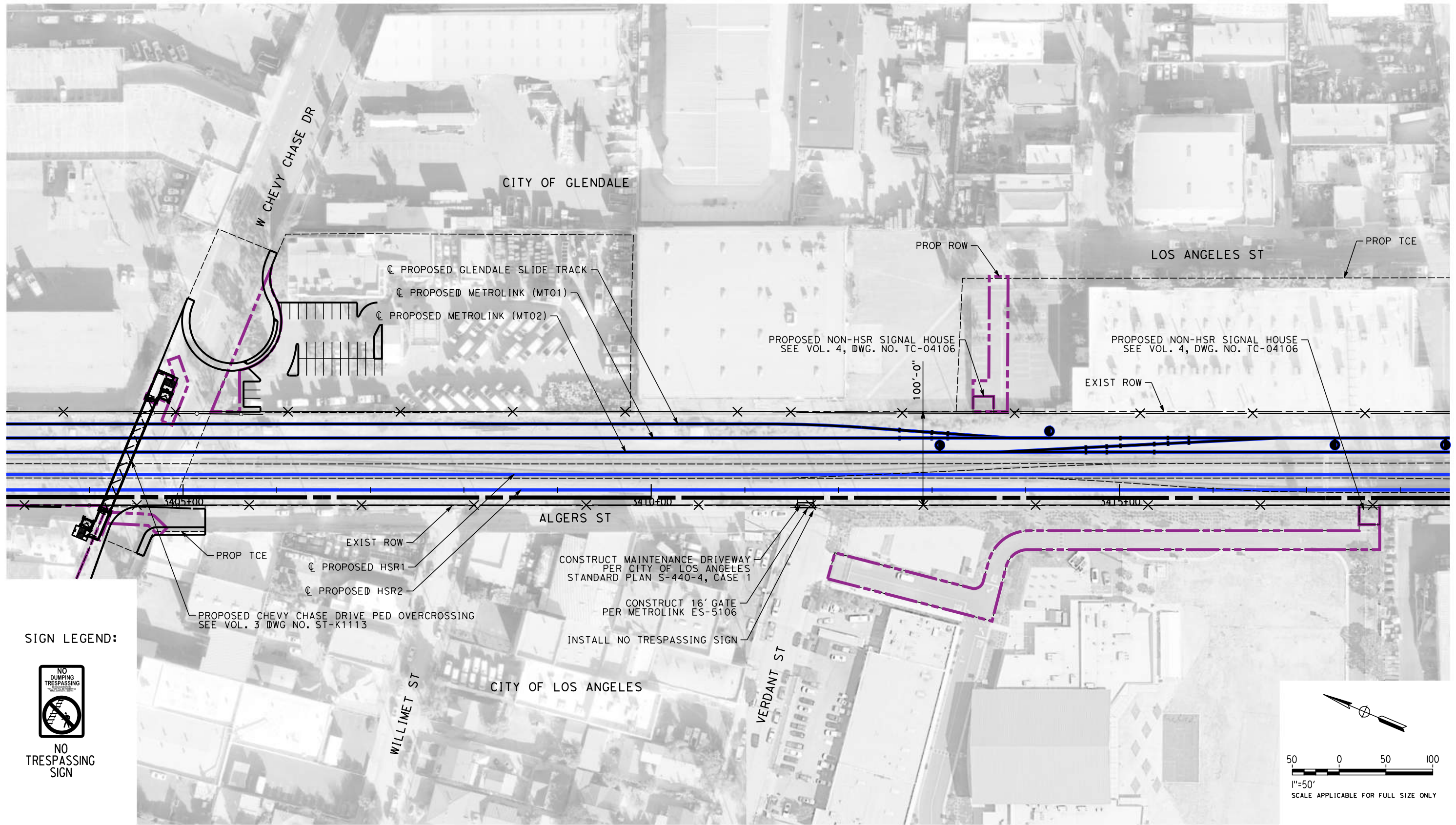
**PEPD RECORD SET**  
  
**NOT FOR CONSTRUCTION**



**CALIFORNIA HIGH-SPEED TRAIN PROJECT**  
**BURBANK TO LOS ANGELES**  
OPTION B REVISED ALIGNMENT - REVISED FINAL  
PEPD  
VEHICLE TRACK ACCESS  
GOODWIN AVE HSR STA 3387+00

CONTRACT NO.  
HSR14-39  
DRAWING NO.  
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SCALE  
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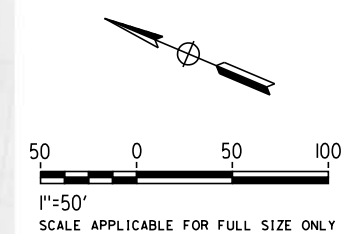




**SIGN LEGEND:**



**NO TRESPASSING SIGN**



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REV	RDATE	BY	CHK	APP	REV_DESC

DESIGNED BY  
**J. FELIX**  
DRAWN BY  
**J. FELIX**  
CHECKED BY  
**C. LEE**  
IN CHARGE  
**C. LEE**  
DATE  
**07/15/2021**

**PEPD  
RECORD SET**

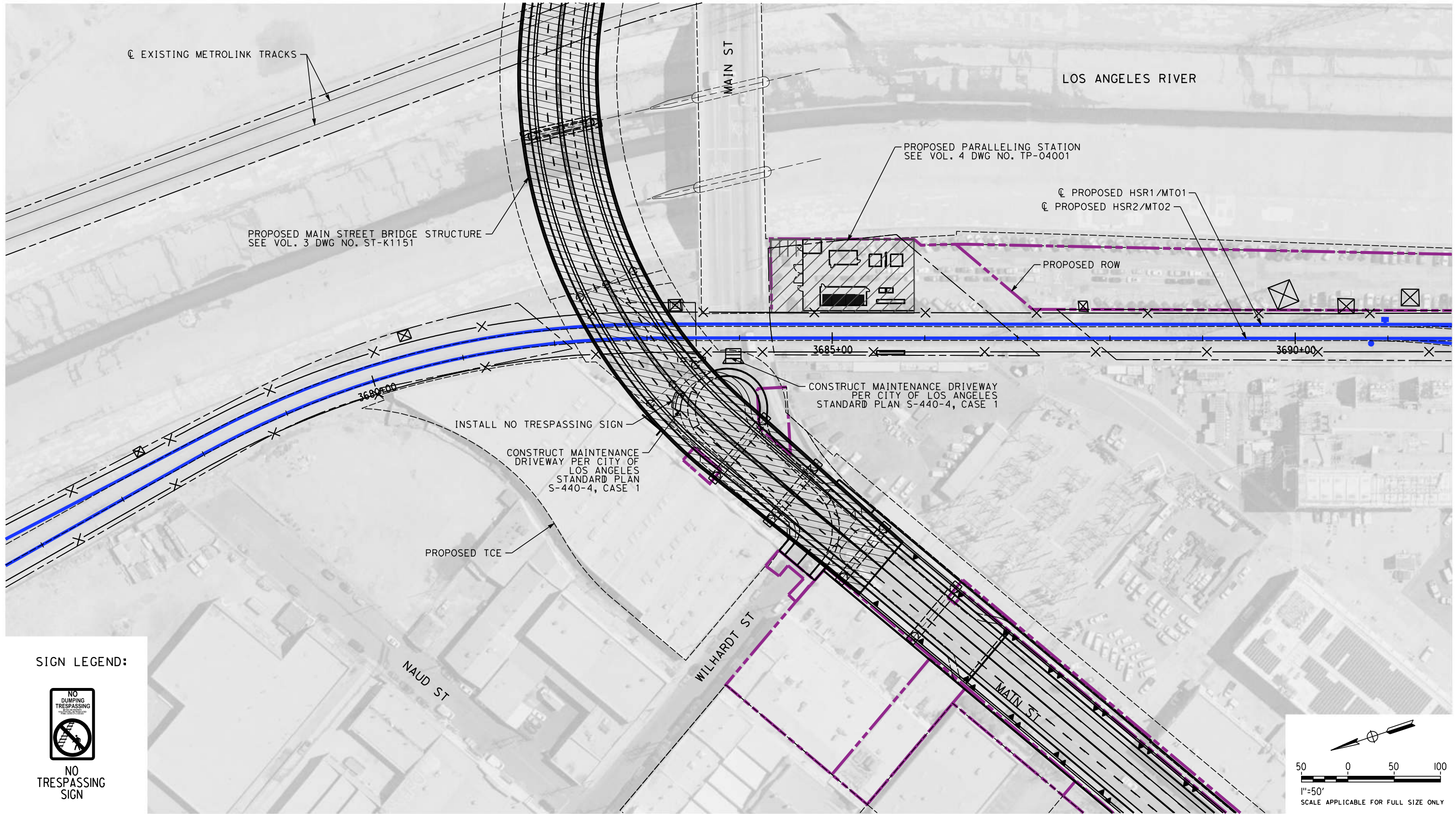
**NOT FOR  
CONSTRUCTION**



**CALIFORNIA HIGH-SPEED TRAIN PROJECT**  
**BURBANK TO LOS ANGELES**  
OPTION B REVISED ALIGNMENT - REVISED FINAL  
PEPD  
VEHICLE TRACK ACCESS  
VERDANT ST HSR STA 3412+60

CONTRACT NO.  
**HSR14-39**  
DRAWING NO.  
**CV-S5106**  
SCALE  
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SHEET NO.

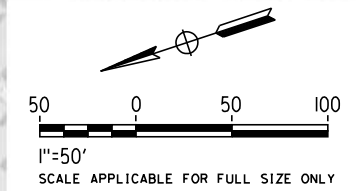




**SIGN LEGEND:**



**NO  
TRESPASSING  
SIGN**



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REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
**J. FELIX**  
DRAWN BY  
**J. FELIX**  
CHECKED BY  
**C. LEE**  
IN CHARGE  
**C. LEE**  
DATE  
**07/15/2021**

**PEPD  
RECORD SET**

**NOT FOR  
CONSTRUCTION**



**CALIFORNIA HIGH-SPEED TRAIN PROJECT  
BURBANK TO LOS ANGELES**  
OPTION B REVISED ALIGNMENT - REVISED FINAL  
PEPD  
VEHICLE TRACK ACCESS  
MAIN ST HSR STA 3683+00

CONTRACT NO.  
**HSR14-39**  
DRAWING NO.  
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SCALE  
**AS SHOWN**  
SHEET NO.