

California High-Speed Rail Authority

Palmdale Subsection

PEPD RECORD SET REV02

Grading and Drainage Plans

March 2021



The environmental review, consultation, and other actions required by applicable federal environmental laws for this project are being or have been carried out by the State of California pursuant to 23 U.S.C. 327 and a Memorandum of Understanding dated July 23, 2019, and executed by the Federal Railroad Administration and the State of California.

GRADING AND DRAINAGE PLANS

DRAWING NO.	DESCRIPTION	SHEET NO.
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REV	DATE	BY	CHK	APP	DESCRIPTION

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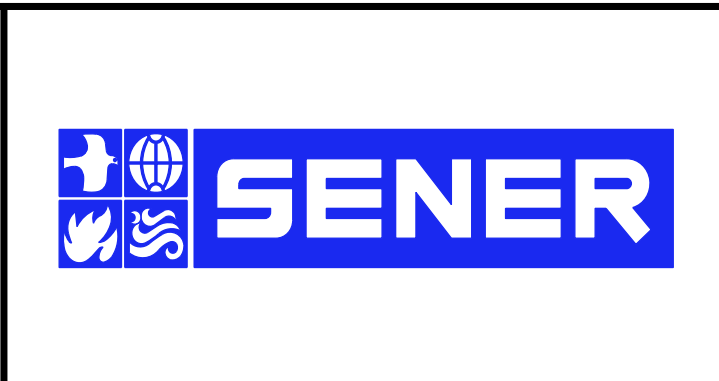
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DATE
03/01/2021

**PALMDALE
SUBSECTION**

**PEPD RECORD SET
REV 02**

**NOT FOR
CONSTRUCTION**



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

PALMDALE SUBSECTION
GRADING AND DRAINAGE PLAN
INDEX OF DRAWINGS

CONTRACT NO. HSR14-42
DRAWING NO. CV-B0001-PLM
SCALE NO SCALE
SHEET NO. 165

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A

AB AGGREGATE BASE
ABBC ASBESTOS BONDED BITUMINOUS COATED
ABM AIR-BLOWN MORTAR
ABN ABANDON
ADJ ADJUST
AFES ALTERNATIVE FLARED END SECTION
AHD AHEAD
ALT ALTERNATE
AM TIME FROM MIDNIGHT TO NOON
AP ALTERNATIVE PIPE
APC ALTERNATIVE PIPE CULVERT
APPROX APPROXIMATE
APU ALTERNATIVE PIPE UNDERDRAIN
AS AGGREGATE SUBBASE
ASRP ALUMINUM SPIRAL RIB PIPE
ASSY ASSEMBLY
AVE AVENUE
AVG AVERAGE
@ AT

B

BEG BEGIN
BIT CTD BITUMINOUS COATED
BK BACK
BKF BACKFILL
BLDG BUILDING
BLVD BOULEVARD
BM BENCH MARK
BOT BOTTOM
B-P BAKERSFIELD TO PALMDALE
BR BRIDGE
BRG BEARING
BW BARBED WIRE

C

CAP CORRUGATED ALUMINUM PIPE
CAPA CORRUGATED ALUMINUM PIPE ARCH
CB CONCRETE BARRIER
CHSRA CALIFORNIA HIGH SPEED RAIL AUTHORITY
CHST CALIFORNIA HIGH SPEED TRAIN
CHSR CALIFORNIA HIGH SPEED RAIL
CHNL CHANNEL
CI CAST IRON
CIDH CAST-IN-DRILLED-HOLE
CIP,C-I-P CAST-IN-PLACE, CAST IRON PIPE
CIPCP CAST IN PLACE CONCRETE PIPE
CISS CAST-IN-STEEL-SHELL
CJP COMPLETE JOINT PENETRATION
CL CENTERLINE, CLASS
CL2 CLASS 2
CL-6 CHAIN LINK FENCE (6 FT)
CLR CLEAR, CLEARANCE
CM CORRUGATED METAL
CMP CORRUGATED METAL PIPE
CO COUNTY
COL COLUMN
CONC CONCRETE
COND CONDUIT
CONN CONNECTOR
CONST CONSTRUCT, CONSTRUCTION
CONT CONTINUOUS

C CONTINUED

COORD COORDINATE
CR CREEK
CRCP CONTINUOUS REINFORCED CONCRETE PAVEMENT
CRSP CONCRETED ROCK SLOPE PROTECTION
CSP CORRUGATED STEEL PIPE
CSPA CORRUGATED STEEL PIPE ARCH
CTB CEMENT TREATED BASE
CTPB CEMENT TREATED PERMEABLE BASE
CTPM CEMENT TREATED PERMEABLE MATERIAL
CTRS CENTERS
CVFPB CENTRAL VALLEY FLOOD PROTECTION BOARD
CULV CULVERT
@ CENTERLINE

D

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

E

E EAST, EASTING
EASE EASEMENT
EB END OF BRIDGE
EC END HORIZONTAL CURVE
ED EDGE DRAIN
EDC EDGE DRAIN CLEANOUT
EDO EDGE DRAIN OUTLET
EDV EDGE DRAIN VENT
ELEV ELEVATION
ELLN EXTRALEGAL LEAD NETWORK
EMB EMBANKMENT
ENGR ENGINEER
EQ EQUATION, EQUAL
ES EDGE OF SHOULDER
ETW EDGE OF TRAVELED WAY
EVC END VERTICAL CURVE
EW ENDWALL
EXC EXCAVATION
EXIST, EX. EXISTING
EXP EXPANSION
EXP JT EXPANSION JOINT
EXWY EXPRESSWAY
EXT EXTERIOR

F

F & C FRAME AND COVER
F & G FRAME AND GRATE
FDN FOUNDATION
FEBT FACING EASTBOUND TRAFFIC
FES FLARED END SECTION

F CONTINUED

FES FLARED END SECTION
FF FILTER FABRIC
FG FINISHED GRADE
FIG FIGURE
FL FLOW LINE
FNBT FACING NORTHBOUND TRAFFIC
FOC FACE OF CONCRETE
FR RD FRONTAGE ROAD
FS FAR SIDE, FINISHED SURFACE
FSBT FACING SOUTHBOUND TRAFFIC
FT FOOT, FEET
FTG FOOTING
FWBT FACING WESTBOUND TRAFFIC
FWY FREEWAY

G

GA GAGE
GALV GALVANIZED
GP GRADING PLANE
GR GUARD RAILING
GSP GALVANIZED STEEL PIPE
GTR GUTTER

H

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

I

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

J

JCT JUNCTION
JS JUNCTION STRUCTURE
JT JOINT

K

K DISTANCE TO ACHIEVE 1% GRADE CHANGE

L

L LENGTH
LAT LATITUDE
LMF LIGHT MAINTENANCE FACILITY
LOC LOCATION
LOL LAYOUT LINE

L CONTINUED

LONG LONGITUDE
LONGIT LONGITUDINAL
LT LEFT
M
MAINT MAINTENANCE
MAX MAXIMUM
MED MEDIAN
MH MANHOLE
MIN MINIMUM
MISC MISCELLANEOUS
MKR MARKER
M/L MAIN LINE (RAILWAY)
MOD MODIFIED, MODIFY
MON MONUMENT
MTL MATERIAL
MT MAIN TRACK
N
N NORTH, NORTHING
NB NORTHBOUND
NO. NUMBER (MUST HAVE PERIOD)
NOS. NUMBERS (MUST HAVE PERIOD)
NPS NOMINAL PIPE SIZE
NS NEAR SIDE
NTS NOT TO SCALE
N/A NOT APPLICABLE
O
OBLR OBLITERATE
OC OVERCROSSING
OD OUTSIDE DIAMETER
OF OUTSIDE FACE
OG ORIGINAL GROUND
OH OVERHEAD
OPP OPPOSITE
P
P PAGE
PAP PERFORATED ALUMINUM PIPE
P-B PALMDALE TO BURBANK
PC POINT OF CURVATURE, PRECAST
PCC POINT OF COMPOUND CURVE, PORTLAND CEMENT CONCRETE
PCP PERFORATED CONCRETE PIPE, PRESTRESSED CONCRETE PIPE
PED PEDESTRIAN
PED OC PEDESTRIAN OVERCROSSING
PED UC PEDESTRIAN UNDERCROSSING
PERM MTL PERMEABLE MATERIAL
PG PROFILE GRADE
PI POINT OF INTERSECTION
P/L PROPERTY LINE
PM POST MILE, TIME FROM NOON TO MIDNIGHT
POB POINT OF BEGINNING
POE POINT OF ENDING
PP PIPE PILE, PLASTIC PIPE, POWER POLE
PPEF PROPOSED PERMANENT ENVIRONMENTAL FOOTPRINT
PPL PREFORMED PERMEABLE LINER
PRF PAVEMENT REINFORCING FABRIC

P CONTINUED

PROP PROPOSED
PS&E PLANS, SPECIFICATIONS AND ESTIMATES
PS, P/S PRESTRESSED, PARALLEL STATION
PSP PERFORATED STEEL PIPE
PT POINT OF TANGENCY
PVC POLYVINYL CHLORIDE
PVI POINT OF VERTICAL INTERSECTION
PVMT PAVEMENT
PVP MAINTENANCE VEHICLE PULLOUT
Q
QTY QUANTITY
R
R RADIUS
R & D REMOVE AND DISPOSE
R & S REMOVE AND SALVAGE
R/C RATE OF CHANGE
RCA REINFORCED CONCRETE ARCH
RCB REINFORCED CONCRETE BOX
RCP REINFORCED CONCRETE PIPE
RCPA REINFORCED CONCRETE PIPE ARCH
RD ROAD
REINF REINFORCED, REINFORCEMENT, REINFORCING
REL RELOCATE
REPL REPLACEMENT
RET RETAINING
REV REVISED
RDWY ROADWAY
RP RADIUS POINT, REFERENCE POINT
RR RAILROAD
RSP ROCK SLOPE PROTECTION
RT RIGHT
RTE ROUTE
RW RETAINING WALL
R/W RIGHT OF WAY
RWY RAILWAY
S
S SOUTH, SUPPLEMENT
SAE STRUCTURE APPROACH EMBANKMENT
SALV SALVAGE
SAPP STRUCTURAL ALUMINUM PLATE PIPE
SB SOUTHBOUND
SC SPIRAL TO CURVE
SCRRA SOUTHERN CALIFORNIA REGIONAL RAIL AUTHORITY
SCSP SLOTTED CORRUGATED STEEL PIPE
SD STORM DRAIN
SEC SECOND
SECT SECTION
SEP SEPARATION
SHLD SHOULDER
SHT SHEET
SIM SIMILAR
S STATION LINE
SM SELECTED MATERIAL
SPEC SPECIAL, SPECIFICATIONS
SPP SLOTTED PLASTIC PIPE
SS SLOPE STAKE, SPIRAL TO SPIRAL

REV	DATE	BY	CHK	APP	DESCRIPTION

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PALMDALE SUBSECTION
PEPD RECORD SET REV 02
NOT FOR CONSTRUCTION



CALIFORNIA HIGH-SPEED RAIL PROJECT
PALMDALE TO BURBANK
PALMDALE SUBSECTION
GRADING AND DRAINAGE PLAN
ABBREVIATIONS

CONTRACT NO.
HSR14-42
DRAWING NO.
CV-B0002-PLM
SCALE
NO SCALE
SHEET NO.
166

(S CONTINUED)

(W CONTINUED)

SSD STRUCTURAL SECTION DRAIN
 SSRP STEEL SPIRAL RIB PIPE
 SR STATE ROUTE
 ST STREET, SPIRAL TO TANGENT
 STA STATION
 STBB SINGLE THRIE BEAM BARRIER
 STD STANDARD
 STR STRUCTURE
 SRS STAND ALONE RADIO SITE
 SURF SURFACING
 SW SIDEWALK, SOUND WALL
 SYM SYMMETRICAL

W/
X SEC
YR
YRS

WITH
X
CROSS SECTION
CROSSING
Y
YEAR
YEARS

(T)

T TANGENT
 TAB TABLET
 TAN TANGENT
 TBB THRIE BEAM BARRIER
 TC TOP OF CURB, TANGENT TO CURVE
 TCE TEMPORARY CONSTRUCTION EASEMENT
 TEL TELEPHONE
 TEMP TEMPORARY
 TG TOP OF GRADE
 TM TECHNICAL MEMORANDUM
 TOT TOTAL
 TPSS TRACTION POWER SUPPLY STATION
 TRANS TRANSITION, TRANSVERSE
 TS TRAFFIC SIGNAL, TUBULAR STEEL,
 TANGENT TO SPIRAL
 TYP TYPICAL
 TOR TOP OF RAIL

(U)

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

(V)

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

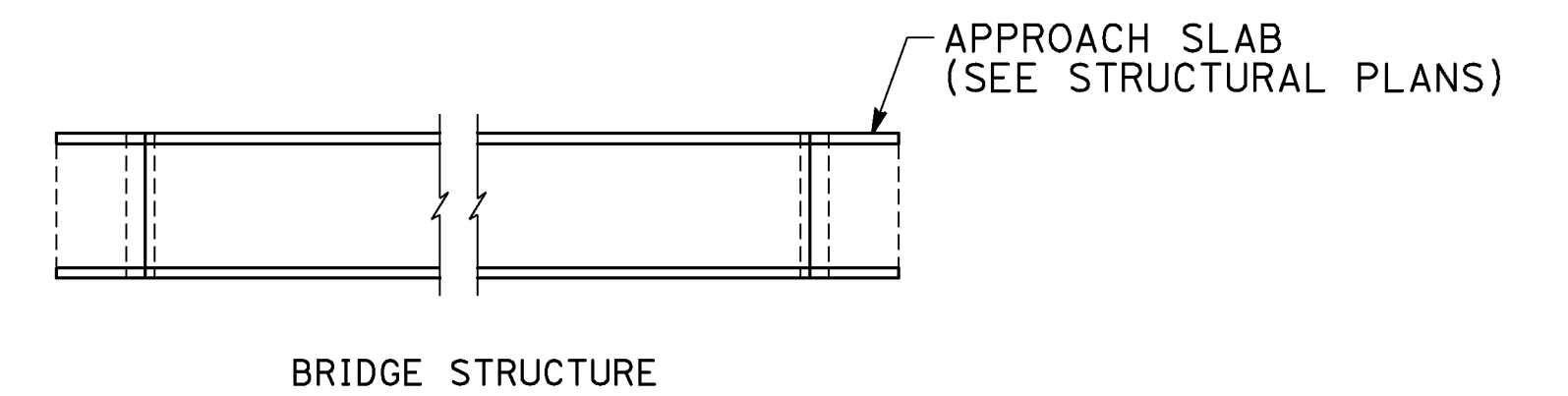
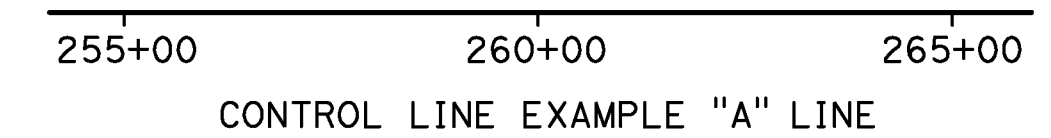
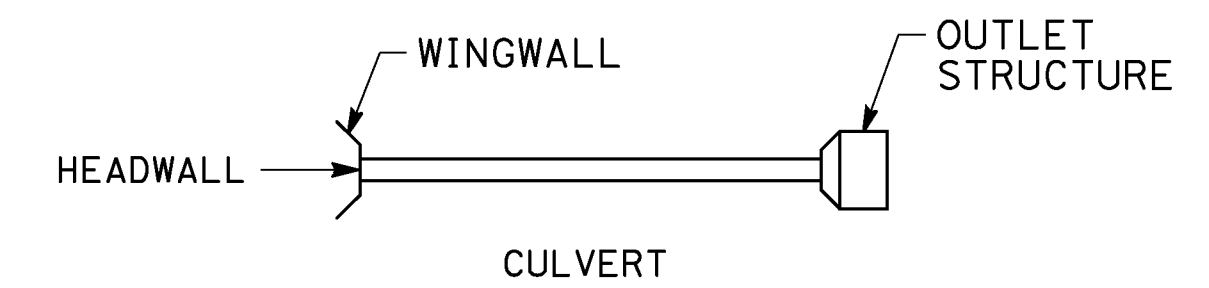
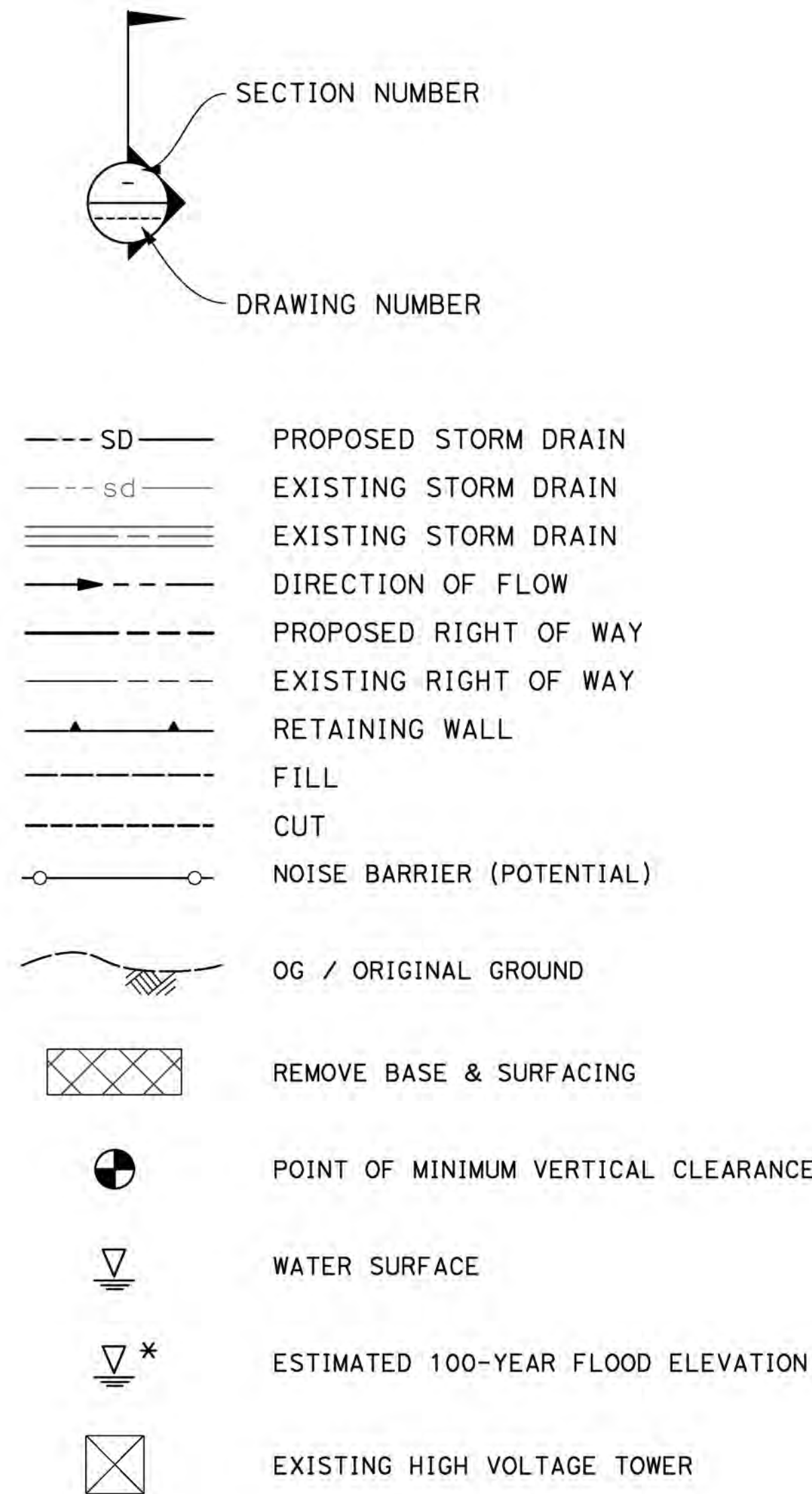
(W)

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

GENERAL NOTES

1. MINIMUM VERTICAL CLEARANCE REQUIREMENTS TO CANALS AND DITCHES ARE NOT KNOWN. FURTHER CONSULTATION WITH THE WATERCOURSE OWNERS WILL BE REQUIRED TO DETERMINE NECESSARY CLEARANCES. 3'-0" FREEBOARD HAS BEEN ALLOWED OVER THE 100-YEAR FLOOD LEVEL ELEVATIONS OF THE WASHES AND LA RIVER.

LEGEND



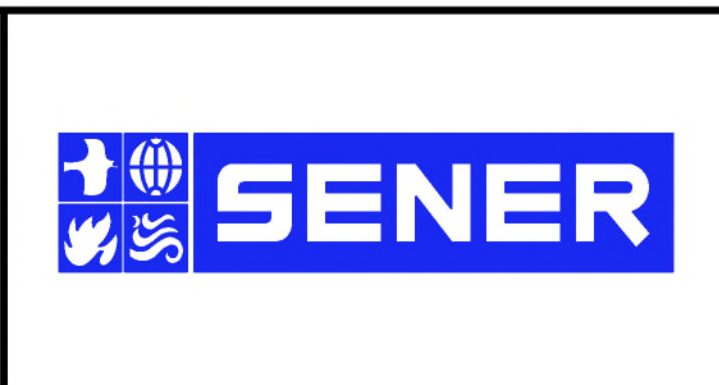
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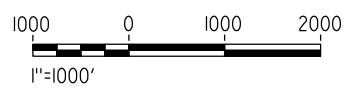
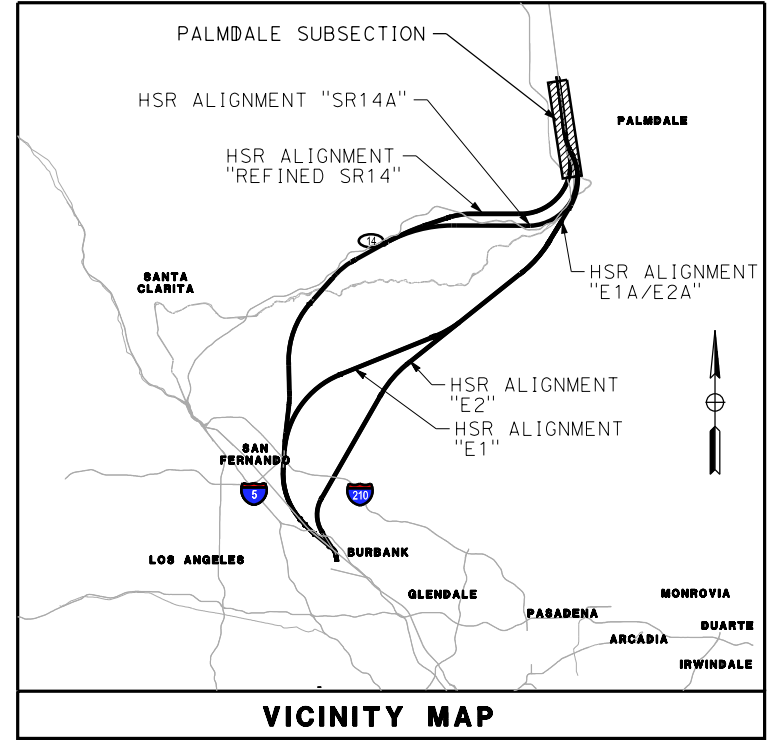
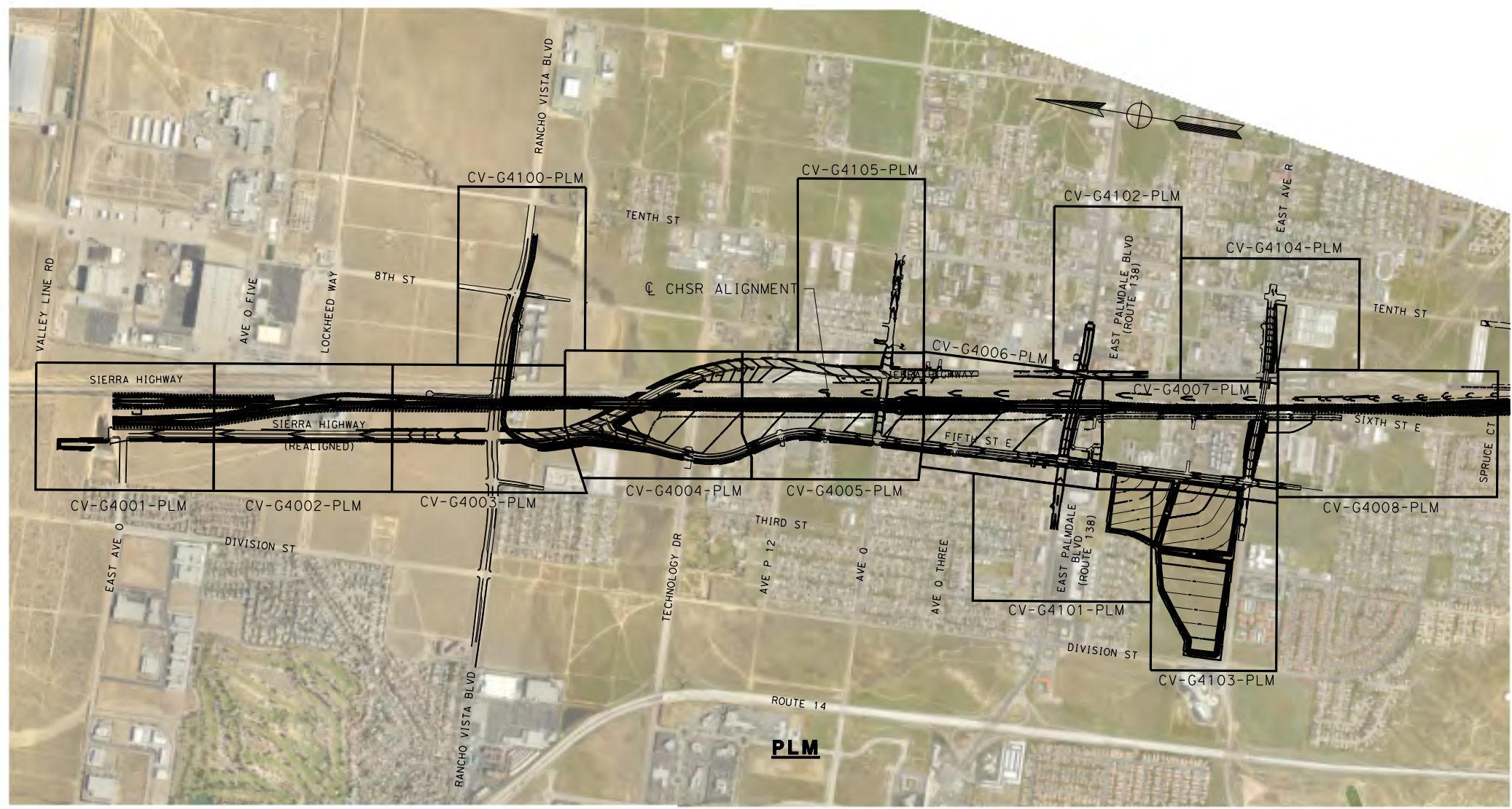
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CALIFORNIA HIGH-SPEED RAIL PROJECT
PALMDALE TO BURBANK
 PALMDALE SUBSECTION
 GRADING AND DRAINAGE PLAN
 ABBREVIATIONS AND LEGEND

CONTRACT NO.
HSR14-42
 DRAWING NO.
CV-B0003-PLM
 SCALE
NO SCALE
 SHEET NO.
167

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

PALMDALE SUBSECTION
GRADING AND DRAINAGE PLAN
KEY MAP

CONTRACT NO.
HSR14-42
DRAWING NO.
CV-B0004-PLM
SCALE
AS SHOWN
SHEET NO.
168

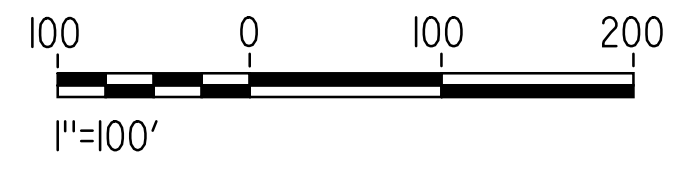
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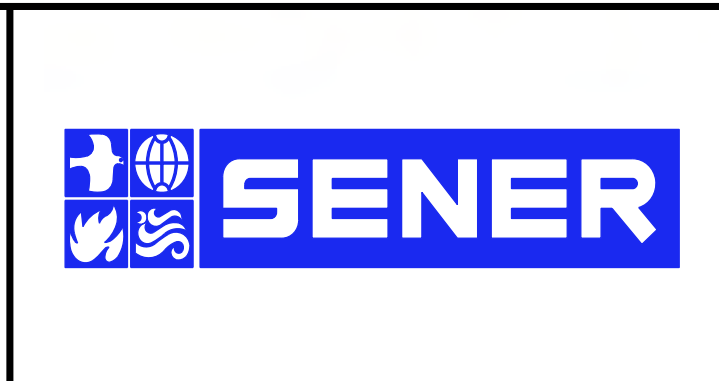
MATCH LINE (CV-G4002-PLM)



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CALIFORNIA HIGH-SPEED RAIL PROJECT
PALMDALE TO BURBANK
PALMDALE SUBSECTION
GRADING AND DRAINAGE PLAN

CONTRACT NO.
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CV-G4001-PLM
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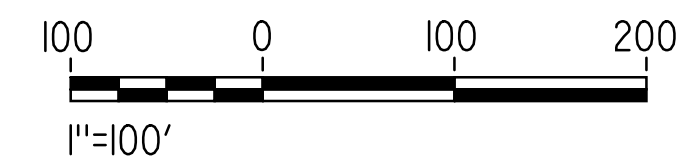
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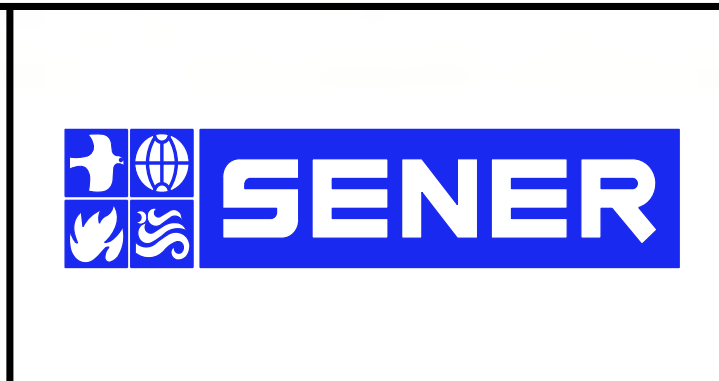
MATCH LINE (CV-G4003-PLM)



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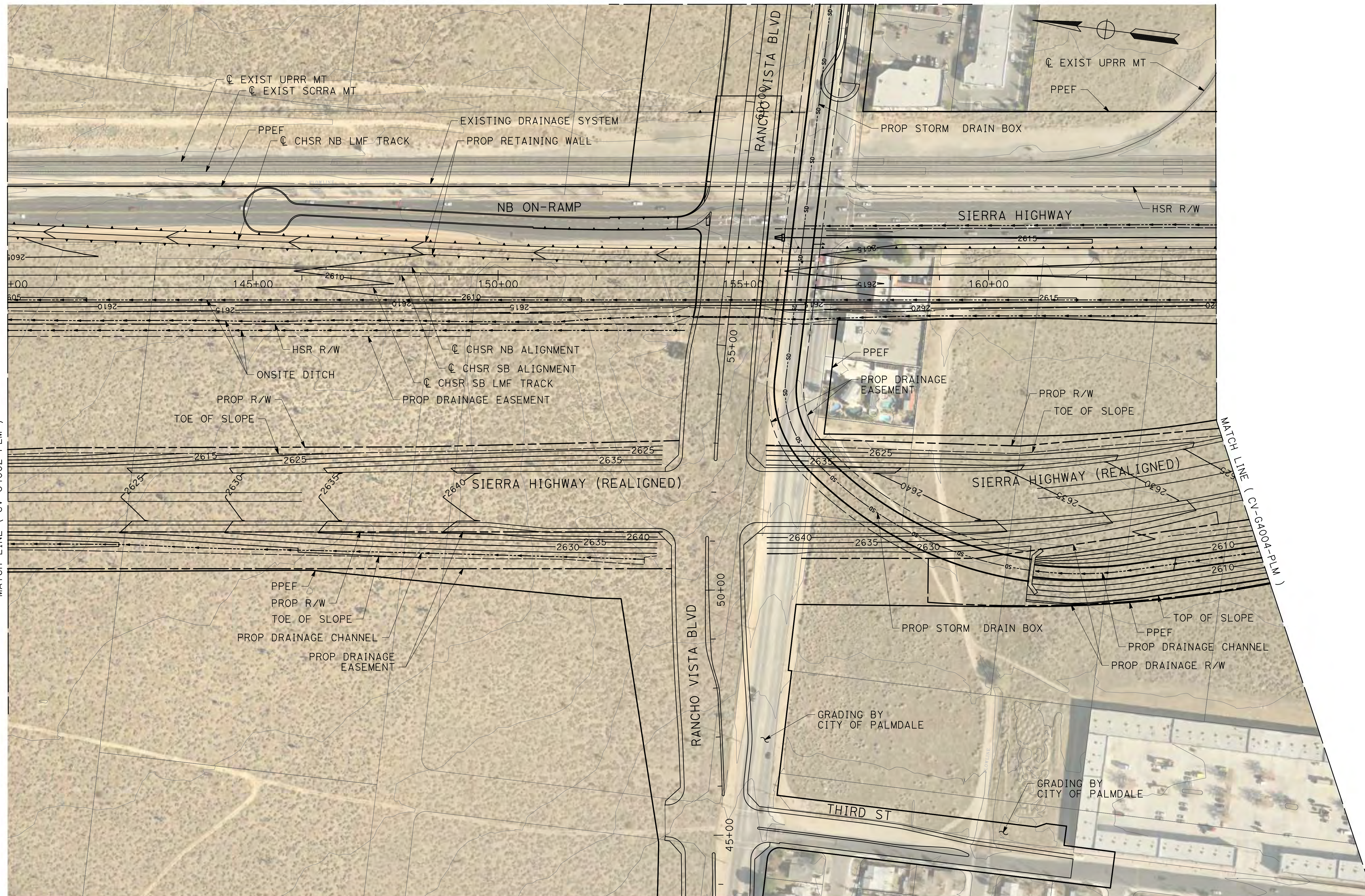
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PALMDALE TO BURBANK
PALMDALE SUBSECTION
GRADING AND DRAINAGE PLAN

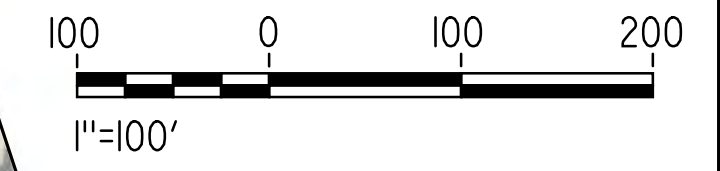
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DRAWING NO.
CV-G4002-PLM
SCALE
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170

MATCH LINE (CV-G4100-PLM)



MATCH LINE (CV-G4002-PLM)

MATCH LINE (CV-G4004-PLM)



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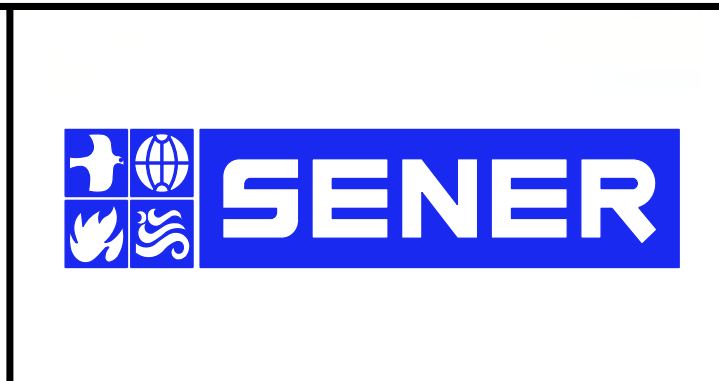
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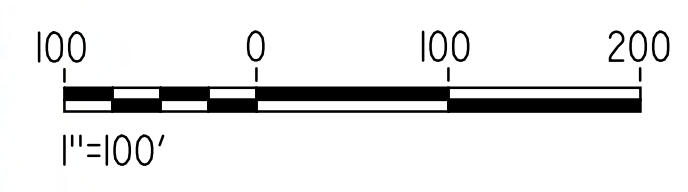
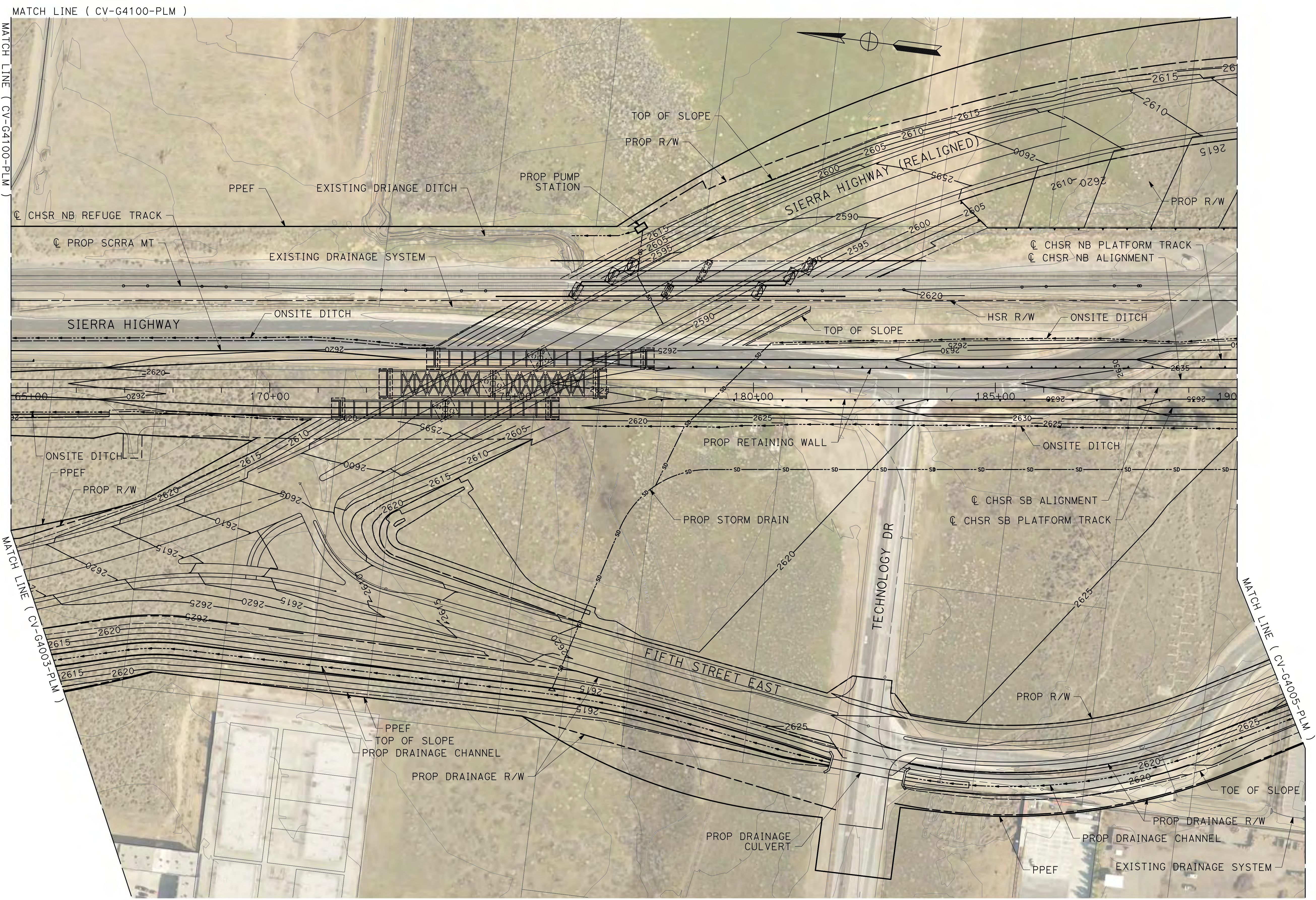
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171

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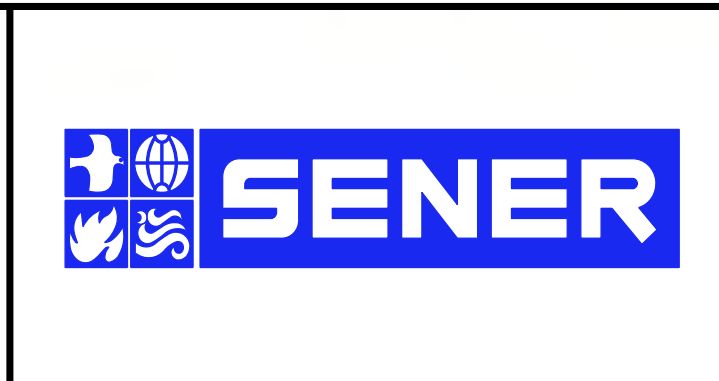
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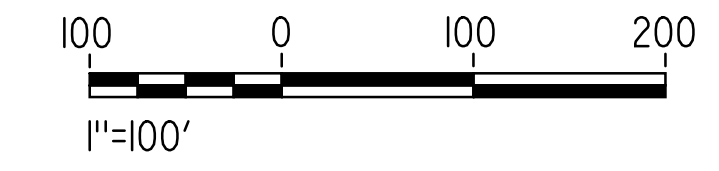
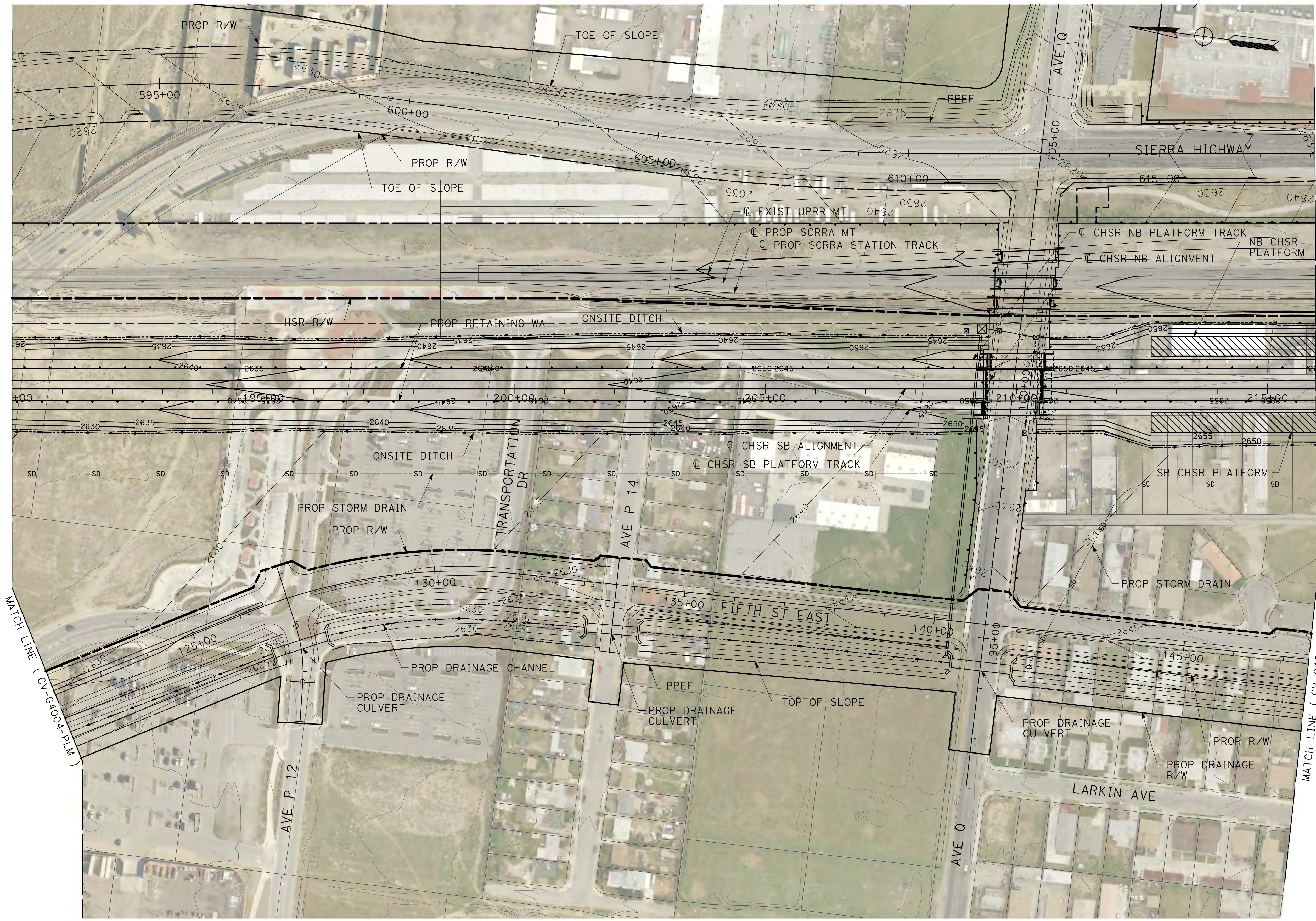


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SHEET NO.
172

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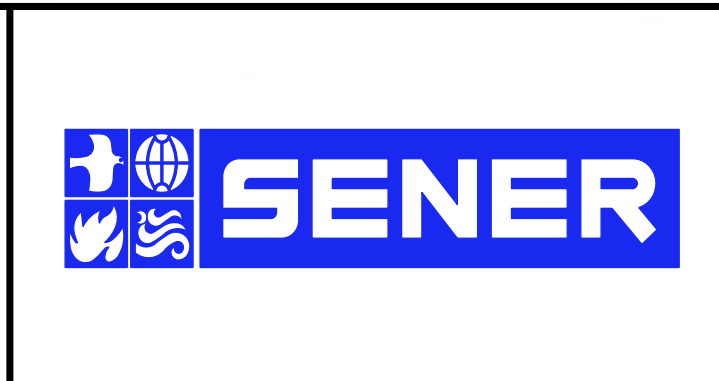
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A. CAMACHO
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W. GUO
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A. RELANO
DATE
03/01/2021

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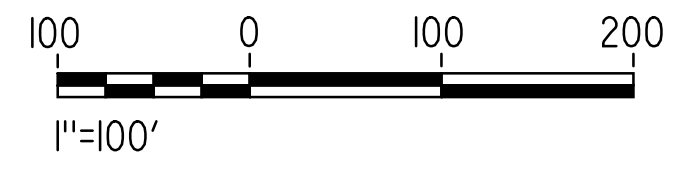
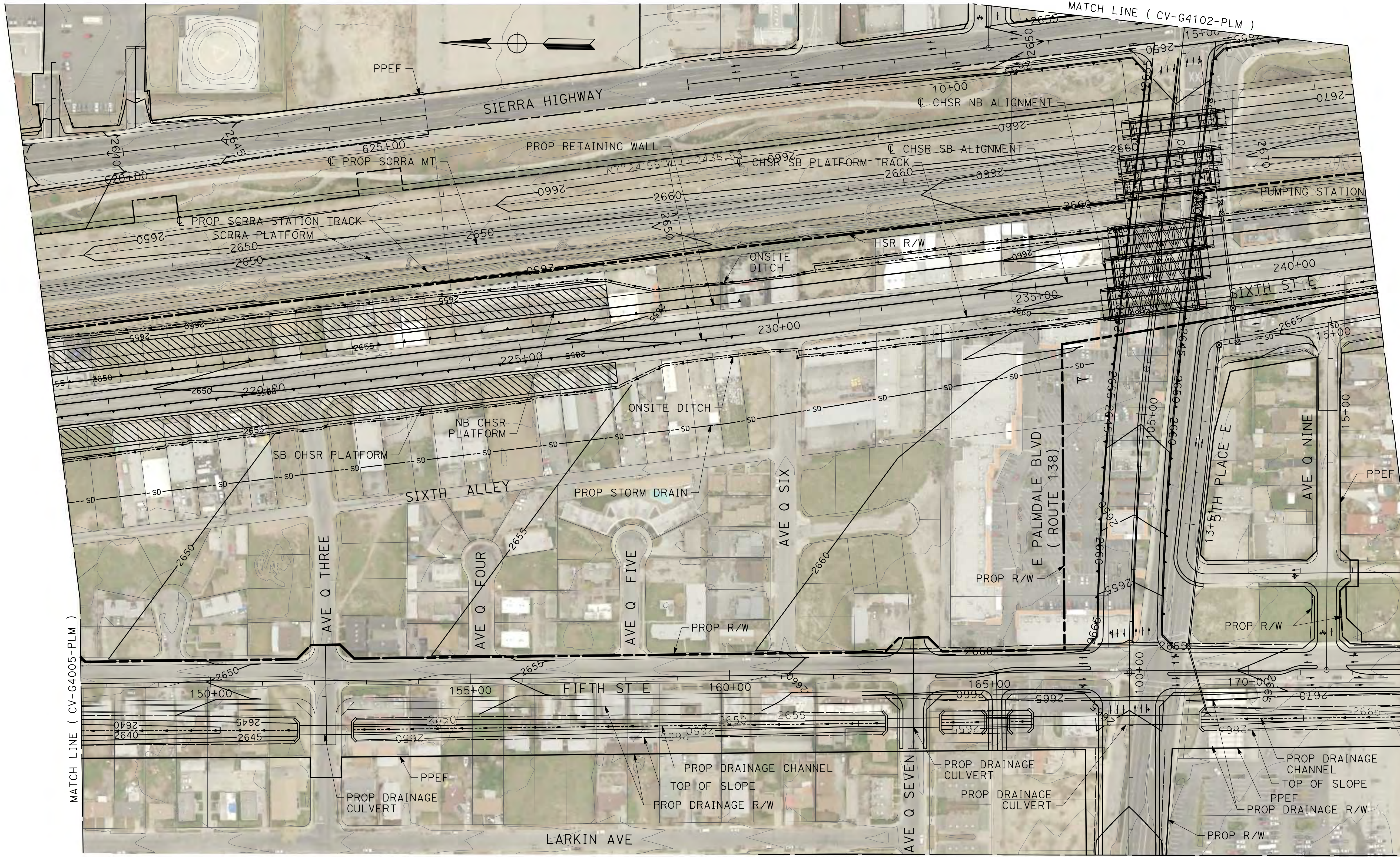
CALIFORNIA HIGH-SPEED RAIL PROJECT
PALMDALE TO BURBANK
PALMDALE SUBSECTION
GRADING AND DRAINAGE PLAN

CONTRACT NO.
HSR14-42
DRAWING NO.
CV-G4005-PLM
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173

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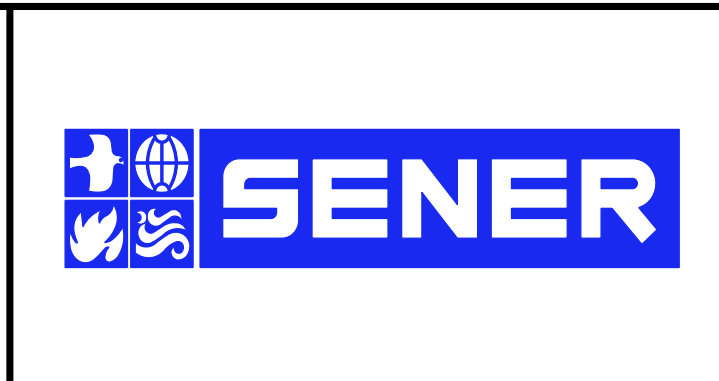
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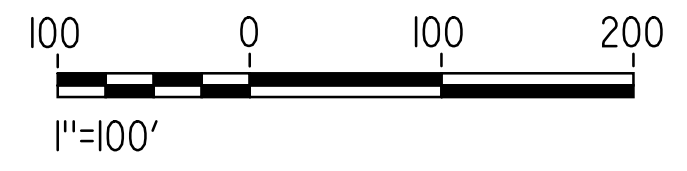
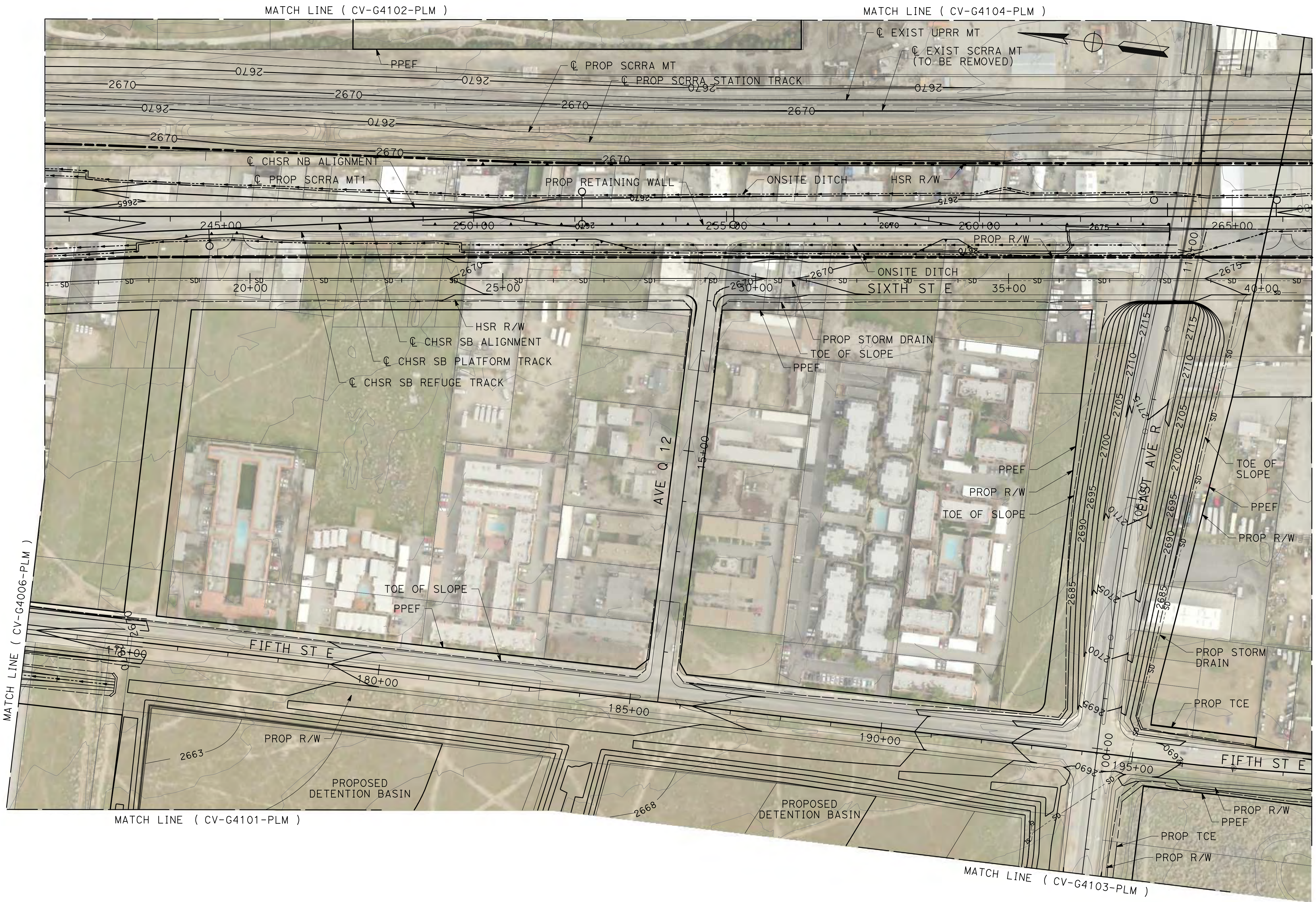
CALIFORNIA HIGH-SPEED RAIL PROJECT
PALMDALE TO BURBANK
PALMDALE SUBSECTION
GRADING AND DRAINAGE PLAN

CONTRACT NO.
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174

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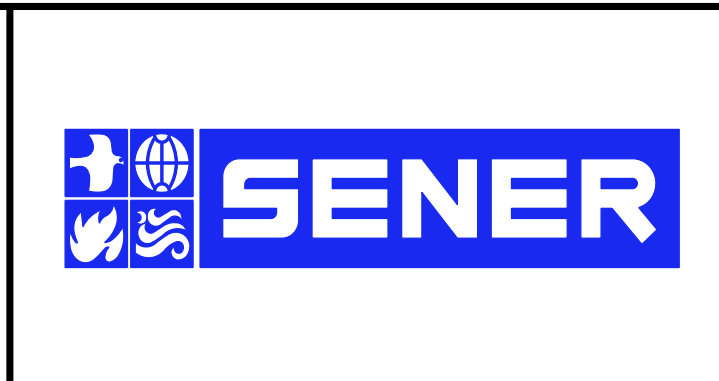
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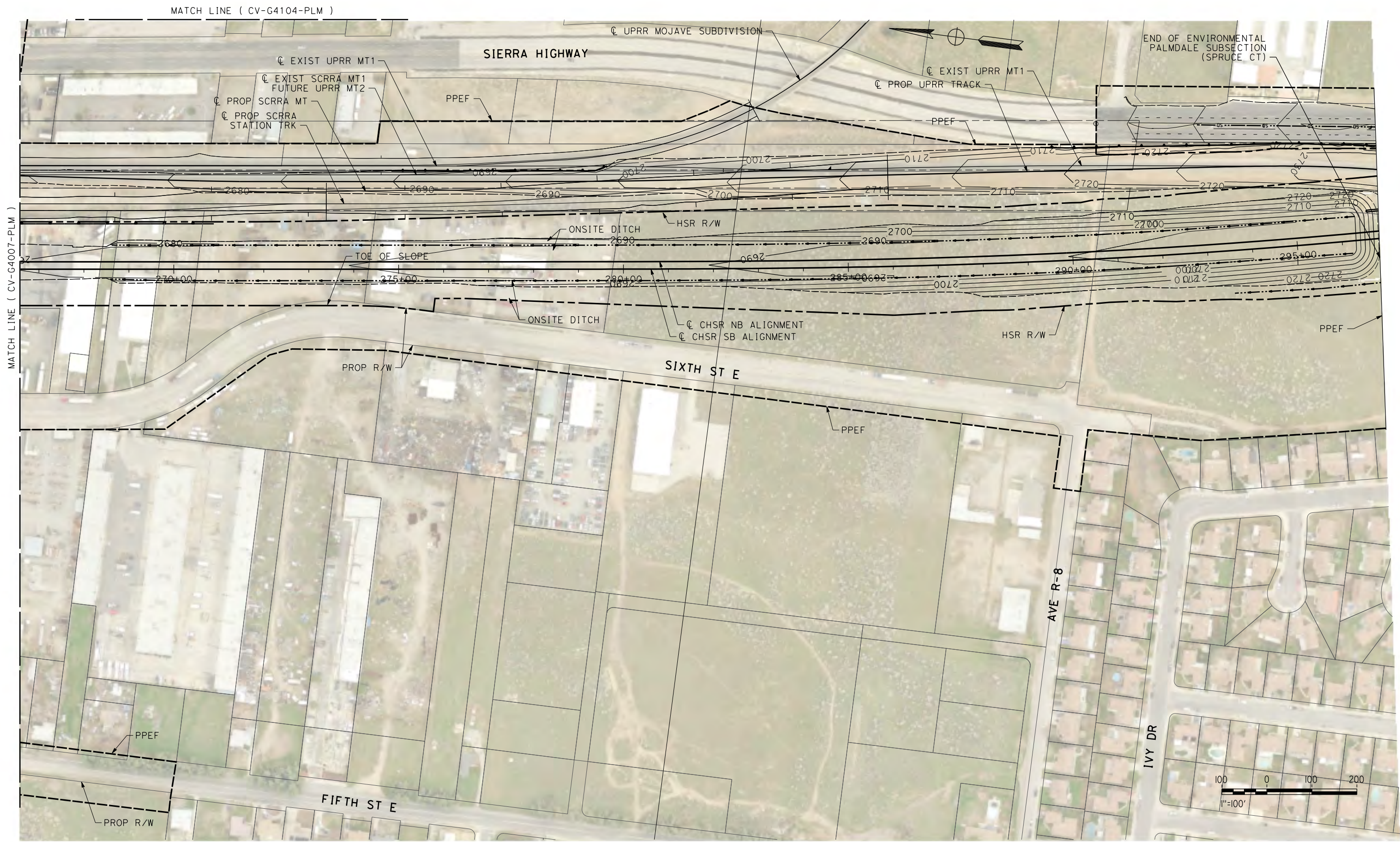
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CALIFORNIA HIGH-SPEED RAIL PROJECT
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GRADING AND DRAINAGE PLAN

CONTRACT NO.
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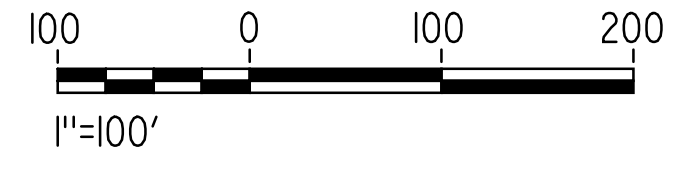
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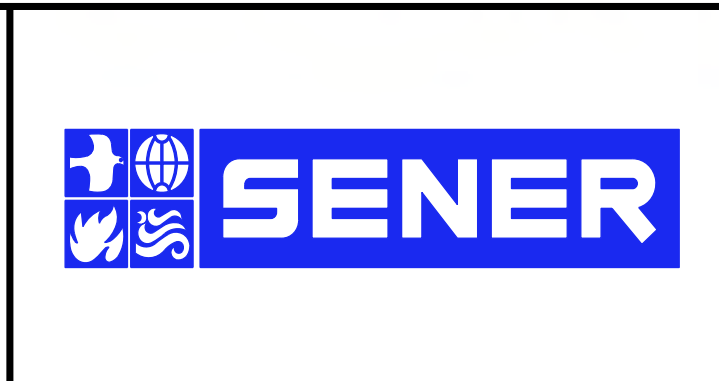
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A. CAMACHO
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W. GUO
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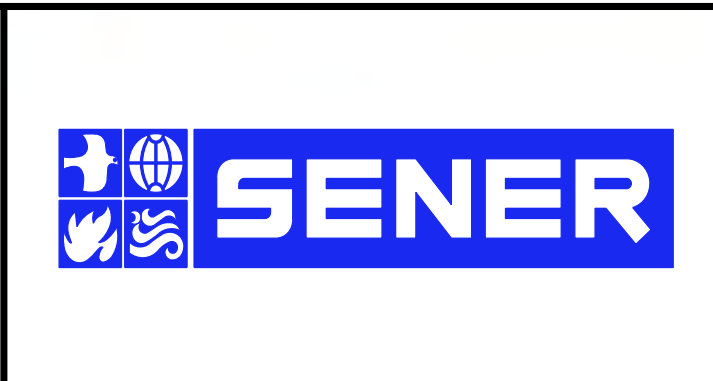
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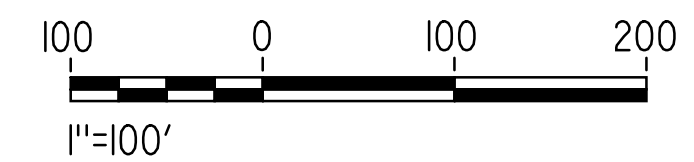
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CONTRACT NO.
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178

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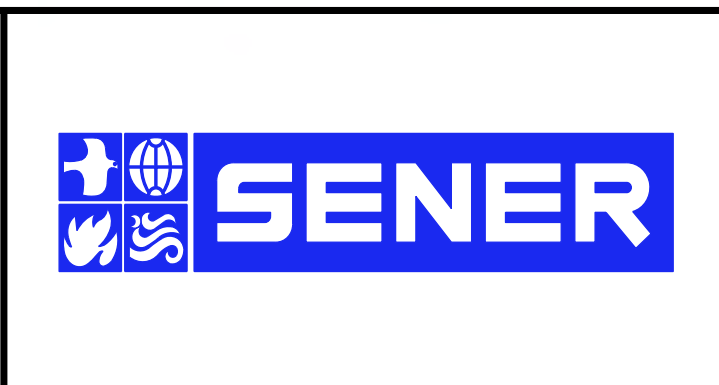


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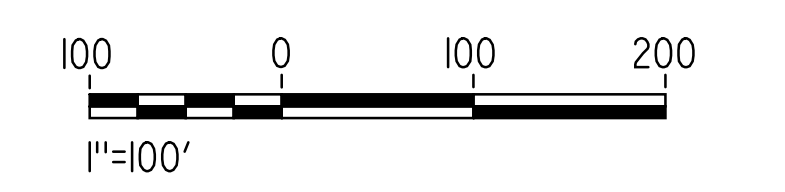
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CALIFORNIA HIGH-SPEED RAIL PROJECT
PALMDALE TO BURBANK
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GRADING AND DRAINAGE PLAN

CONTRACT NO.
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CV-G4102-PLM
SCALE
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179

MATCH LINE (CV-G4101-PLM)



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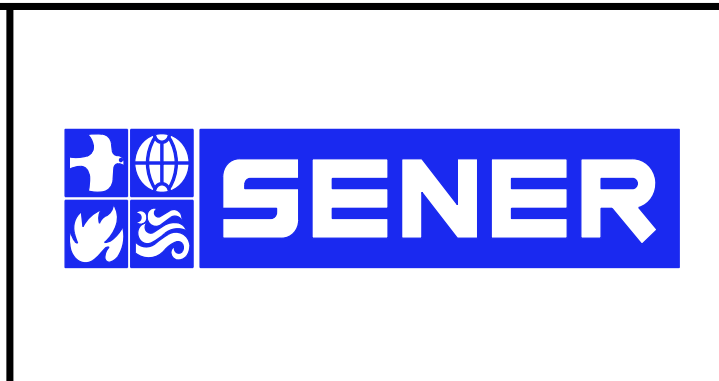
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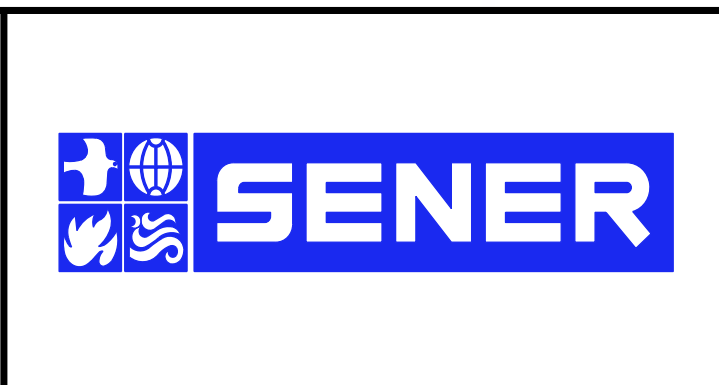
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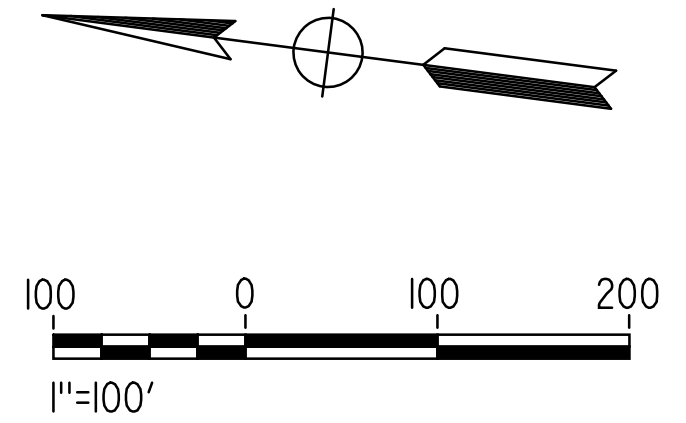
CALIFORNIA HIGH-SPEED RAIL PROJECT
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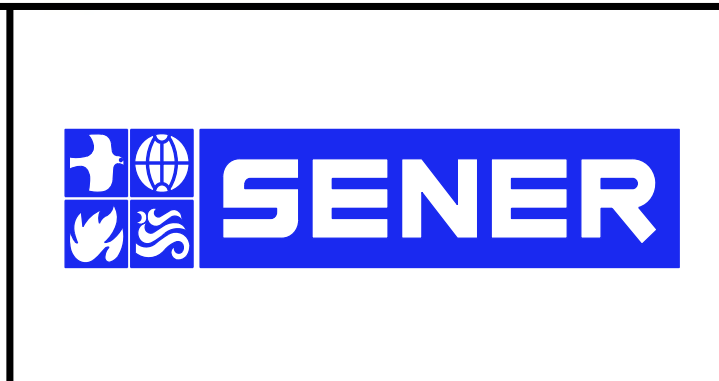
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CALIFORNIA HIGH-SPEED RAIL PROJECT
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GRADING AND DRAINAGE PLAN

CONTRACT NO.
HSR14-42
DRAWING NO.
CV-G4105-PLM
SCALE
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182

California High-Speed Rail Authority

Palmdale Subsection

PEPD RECORD SET REV02

Utility Relocation Plans

March 2021



PALMDALE SUBSECTION

DRAWING NO.	SHEET TITLE	SHEET NO.
UT-B0001-PLM	PALMDALE SUBSECTION RELOCATION UTILITY PLANS - INDEX OF DRAWINGS	
UT-B0002-PLM	PALMDALE SUBSECTION RELOCATION UTILITY PLANS - ABBREVIATIONS AND LEGEND	
UT-B0003-PLM	PALMDALE SUBSECTION RELOCATION UTILITY PLANS - KEY MAP	
UT-C4001-PLM	PALMDALE SUBSECTION RELOCATION UTILITY PLANS - STA 100+00 TO STA 120+00	
UT-C4002-PLM	PALMDALE SUBSECTION RELOCATION UTILITY PLANS - STA 120+00 TO STA 145+00	
UT-C4003-PLM	PALMDALE SUBSECTION RELOCATION UTILITY PLANS - STA 145+00 TO STA 170+00	
UT-C4004-PLM	PALMDALE SUBSECTION RELOCATION UTILITY PLANS - STA 170+00 TO STA 195+00	
UT-C4005-PLM	PALMDALE SUBSECTION RELOCATION UTILITY PLANS - STA 195+00 TO STA 220+00	
UT-C4006-PLM	PALMDALE SUBSECTION RELOCATION UTILITY PLANS - STA 220+00 TO STA 245+00	
UT-C4007-PLM	PALMDALE SUBSECTION RELOCATION UTILITY PLANS - STA 245+00 TO STA 270+00	
UT-C4008-PLM	PALMDALE SUBSECTION RELOCATION UTILITY PLANS - STA 270+00 TO STA 296+82.67	
UT-C4501-PLM	PALMDALE SUBSECTION RELOCATION UTILITY PLANS - RANCHO VISTA BLVD 1 OF 4	
UT-C4502-PLM	PALMDALE SUBSECTION RELOCATION UTILITY PLANS - RANCHO VISTA BLVD 2 OF 4	
UT-C4503-PLM	PALMDALE SUBSECTION RELOCATION UTILITY PLANS - RANCHO VISTA BLVD 3 OF 4	
UT-C4504-PLM	PALMDALE SUBSECTION RELOCATION UTILITY PLANS - RANCHO VISTA BLVD 4 OF 4	
UT-C4505-PLM	PALMDALE SUBSECTION RELOCATION UTILITY PLANS - TECHNOLOGY DRIVE	
UT-C4506-PLM	PALMDALE SUBSECTION RELOCATION UTILITY PLANS - PALMDALE BLVD 1 OF 2	
UT-C4507-PLM	PALMDALE SUBSECTION RELOCATION UTILITY PLANS - PALMDALE BLVD 2 OF 2	
UT-C4508-PLM	PALMDALE SUBSECTION RELOCATION UTILITY PLANS - EAST AVE R 1 OF 3	
UT-C4509-PLM	PALMDALE SUBSECTION RELOCATION UTILITY PLANS - EAST AVE R 2 OF 3	
UT-C4510-PLM	PALMDALE SUBSECTION RELOCATION UTILITY PLANS - EAST AVE R 3 OF 3	
UT-C4511-PLM	PALMDALE SUBSECTION RELOCATION UTILITY PLANS - AVE Q 1 OF 2	
UT-C4512-PLM	PALMDALE SUBSECTION RELOCATION UTILITY PLANS - AVE Q 2 OF 2	

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C. DIMARIO

DRAWN BY
F. VASQUEZ

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W. GUO

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A. RELANO

DATE
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CALIFORNIA HIGH-SPEED RAIL PROJECT

PALMDALE TO BURBANK

PALMDALE SUBSECTION

RELOCATION UTILITY PLANS
INDEX OF DRAWINGS

CONTRACT NO.
HSR14-42

DRAWING NO.
UT-B0001-PLM

SCALE
AS SHOWN

SHEET NO.
184

LEGEND AND SYMBOLS

EXISTING	PROPOSED	DESCRIPTION
		ELECTRICAL UNDERGROUND
		ELECTRICAL OVERHEAD
		FIBER OPTIC UNDERGROUND
		FIBER OPTIC OVERHEAD
		GAS
		NATURAL GAS
		OIL
		STORM DRAIN
		SEWER
		STEAM
		TELECOMMUNICATION UNDERGROUND
		TELECOMMUNICATION OVERHEAD
		TELEPHONE UNDERGROUND
		TELEPHONE OVERHEAD
		TELEVISION UNDERGROUND
		TELEVISION OVERHEAD
		WATER
		RETAINING WALL
		RIGHT-OF-WAY
		HSR RIGHT-OF-WAY
		HSR TUNNEL
		HSR TRACK CENTERLINE
		PERMANENT ENVIRONMENTAL FOOTPRINT
		TEMPORARY ENVIRONMENTAL FOOTPRINT
		FUTURE TRACK CENTERLINE
		NATIONAL FOREST BOUNDARY
		PTC TOWER
		WELL LOCATION
		POWER TRANSMISSION TOWER
		HEADWALL
		TRACK SWITCH
		STRUCTURES (BRIDGE, VIADUCT)
		KEY NOTE
		PUMP STATION

ABBREVIATIONS

ABN	ABANDON	PROP	PROPOSED
ACP	ASBESTOS CEMENT PIPE	PEPF	PROPOSED PERMANENT ENVIRONMENTAL FOOTPRINT
ALT	ALTERNATIVE	PS	POWER STATION
APPROX	APPROXIMATE		
AVE	AVENUE	R	RADIUS
		RCP	REINFORCED CONCRETE PIPE
BEG	BEGIN	RD	ROAD
BLDG	BUILDING	REINF	REINFORCED, REINFORCEMENT, REINFORCING
BLVD	BOULEVARD	REL	RELOCATE
BO	BLOW-OFF	REPL	REPLACEMENT
		R/W, ROW	RIGHT OF WAY
CB	CATCH BASIN	RT	RIGHT
CD	CURB DRAIN	RTE	ROUTE
CHSR	CALIFORNIA HIGH-SPEED RAIL		
CIP	CAST IRON PIPE	S	SOUTH
		SB	SOUTHBOUND
CL	CENTERLINE	SCRRRA	SOUTHERN CALIFORNIA REGIONAL RAIL AUTHORITY
CMP	CORRUGATED METAL PIPE	SD	STORM DRAIN
CTV	CABLE TELEVISION	SR	STATE ROUTE
		ST	STREET
D	DEPTH	STA	STATION
DI	DRAINAGE INLET, DROP INLET	STBB	SINGLE THRIE BEAM BARRIER
DIA	DIAMETER	STD	STANDARD
DIP	DUCTILE IRON PIPE	STR	STRUCTURE
DWG	DRAWING	SRS	STAND ALONE RADIO SITE
		SW	SIDEWALK, SOUND WALL
ED	EDGE DRAIN	SWR	SEWER
EDC	EDGE DRAIN CLEANOUT	TEL	TELEPHONE
EDO	EDGE DRAIN OUTLET	TEMP	TEMPORARY
EDV	EDGE DRAIN VENT	TOT	TOTAL
ELEC	ELECTRIC	TP	TELEPHONE POLE
ELEV	ELEVATION	TPSS	TRACTION POWER SUPPLY STATION
ENV	ENVIRONMENTAL	TSMF	TERMINAL STORAGE AND MAINTENANCE FACILITY
EXIST	EXISTING	TYP	TYPICAL
EXP	EXPANSION		
		UG	UNDERGROUND
FL	FLOW LINE	UNK	UNKNOWN
FO	FIBER OPTIC	UPRR	UNION PACIFIC RAILROAD
FP	FOOTPRINT		
G	GAS	W	WATER, WEST, WIDTH
GALV	GALVANIZED	WB	WESTBOUND
		WM	WATER MAIN
HDC	HIGH DESERT CORRIDOR	WSP	WELDED STEEL PIPE
HSR	HIGH-SPEED RAIL	WT	WEIGHT
		WV	WATER VALVE
INV	INVERT		
IRR	IRRIGATION		
L	LENGTH		
LT	LEFT		
LMF	LIGHT MAINTENANCE FACILITY		
MAX	MAXIMUM		
MIN	MINIMUM		
MT	MAIN TRACK		
N	NORTH		
NB	NORTHBOUND		
PROP	PROPOSED		
P.S.	POWER STATION		

UTILITY OWNERS

AIR TOUCH	AIR TOUCH CELLULAR
AVEK W	ANTELOPE VALLEY - E. KERN WATER
AT&T DIST	AT&T DISTRIBUTION
AT&T TRANS	AT&T TRANSMISSION
BURBANK AIRPORT	BURBANK GLENDALE PASADENA AIRPORT AUTHORITY
BWP	BURBANK WATER & POWER
CENTURY L	CENTURYLINK
CITY OF BURBANK	CITY OF BURBANK
CITY OF GLENDALE	CITY OF GLENDALE
CITY OF LA	CITY OF LOS ANGELES - RECORDS SECTION
CITY OF SC	CITY OF SANTA CLARITA
CITY OF PALMDALE	CITY OF PALMDALE
CITY OF S FERNANDO	CITY OF SAN FERNANDO
CLEAR CHANNEL	CLEAR CHANNEL OUTDOOR
CROWN CASTLE	CROWN CASTLE
EL DORADO MWC	EL DORADO MUTUAL WATER COMPANY
EXXON	EXXON MOBIL PIPELINE CO
LACDPW	LA COUNTY DEPARTMENT OF PUBLIC WORKS
LACDPW-WW	LA COUNTY WATER WORKS
LACSD	LOS ANGELES COUNTY SANITATION DISTRICT
LADWP	LOS ANGELES DEPARTMENT OF WATER & POWER
LEVEL 3	LEVEL 3 COMMUNICATIONS
LIBERMAN	LIBERMAN BROADCASTING
NEWHALL CW	NEWHALL COUNTY WATER
MARCUS	MARCUS CABLE
MCI	MCI (VERIZON BUSINESS)
MWD	METROPOLITAN WATER DISTRICT
PALMDALE WD	PALMDALE WATER DISTRICT
PAAP	PLAINS ALL AMERICAN PIPELINE
PPS	PACIFIC PIPELINE
PT & T	PACIFIC TEL & TELEGRAPH
QWEST	QWEST COMMUNICATION
SCWC	SANTA CLARITA WATER CO
SCE TEL	SC EDISON - TELECOM
SCE DIST	SC EDISON - DIST/TELECOM
SCE	SOUTHERN CALIFORNIA EDISON
SCG	SC GAS - LANCASTER
SCG TRANS	SC GAS - TRANSMISSION
	SC GAS VICT - TRANSMISSION
SUNESYS	SUNESYS, LLC
SPRINT	SPRINT
SPV WC	SPV WATER COMPANY
CA DWR	STATE DEPARTMENT WATER RESOURCES
TESORO	TESORO
T-MOBILE	T-MOBILE USA
TWC	TIME WARNER CABLE
VERIZON	VERIZON - IRWINDALE
WSP MWC	WEST SIDE PARK MUTUAL WATER COMPANY
WILSHIRE CONN	WILSHIRE CONNECTION LLC
XO COMM	XO COMMUNICATIONS
ZAYO	ZAYO FNA ABOVE NET

GENERAL NOTES

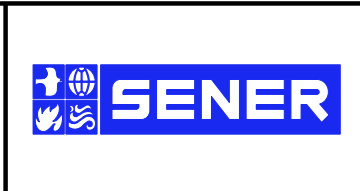
- EXISTING UTILITIES IDENTIFIED WITH THE DISPOSITIONS 'RELOCATE', 'REMOVE' OR 'PROTECT IN PLACE' PERTAIN TO THAT PORTION OF THE UTILITY THAT IS LOCATED WITHIN THE PROPOSED, PERMANENT HSR RIGHT-OF-WAY

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REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY C. DIMARIO
DRAWN BY F. VASQUEZ
CHECKED BY W. GUO
IN CHARGE A. RELANO
DATE 03/01/2021

PALMDALE SUBSECTION
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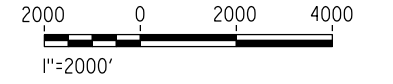
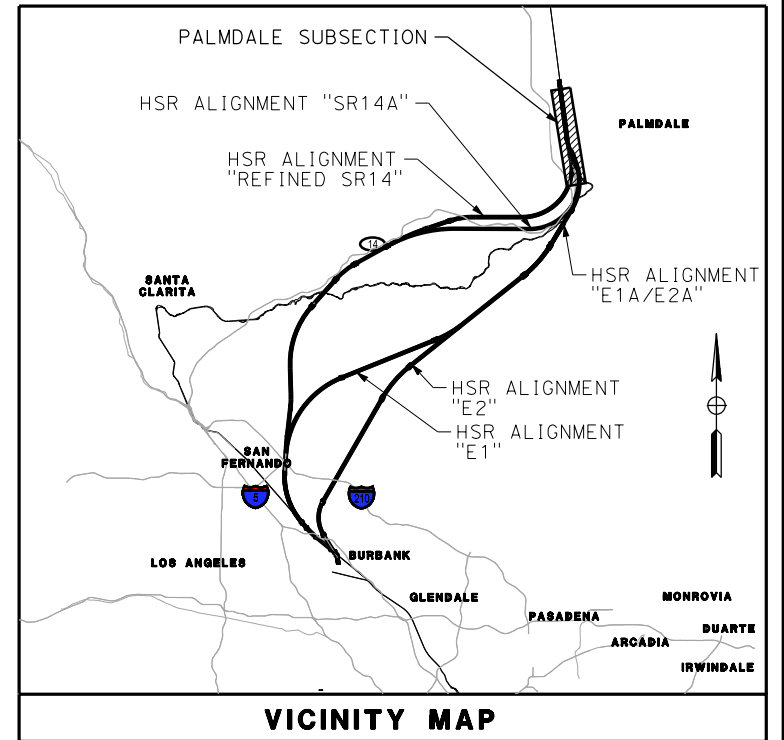
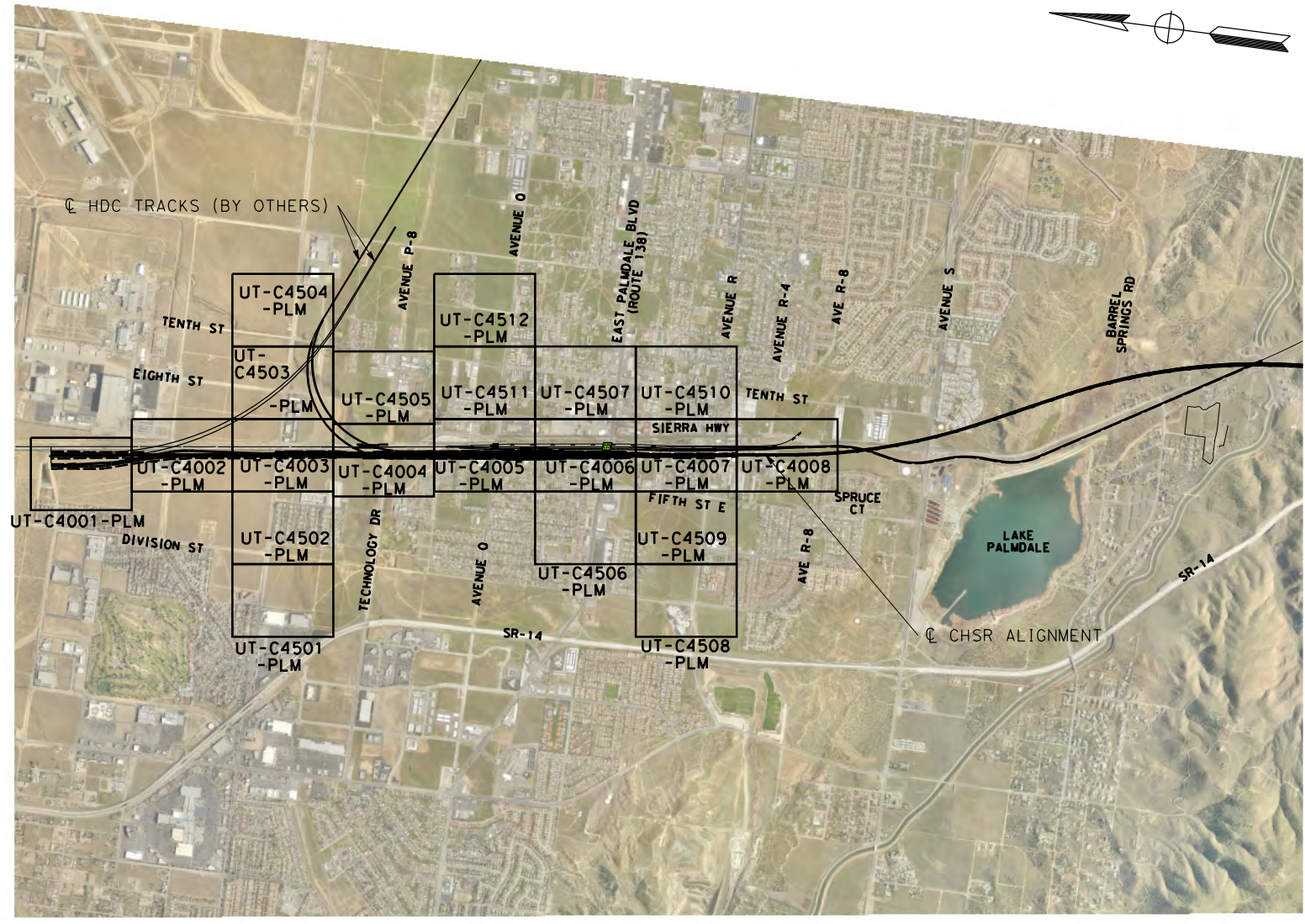
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 RELOCATION UTILITY PLANS
 ABBREVIATIONS AND LEGEND

CONTRACT NO. HSR14-42
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SCALE NO SCALE
SHEET NO. 185

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3/12/2021 4:58:50 PM

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REV	DATE	BY	CHK	APP	DESCRIPTION

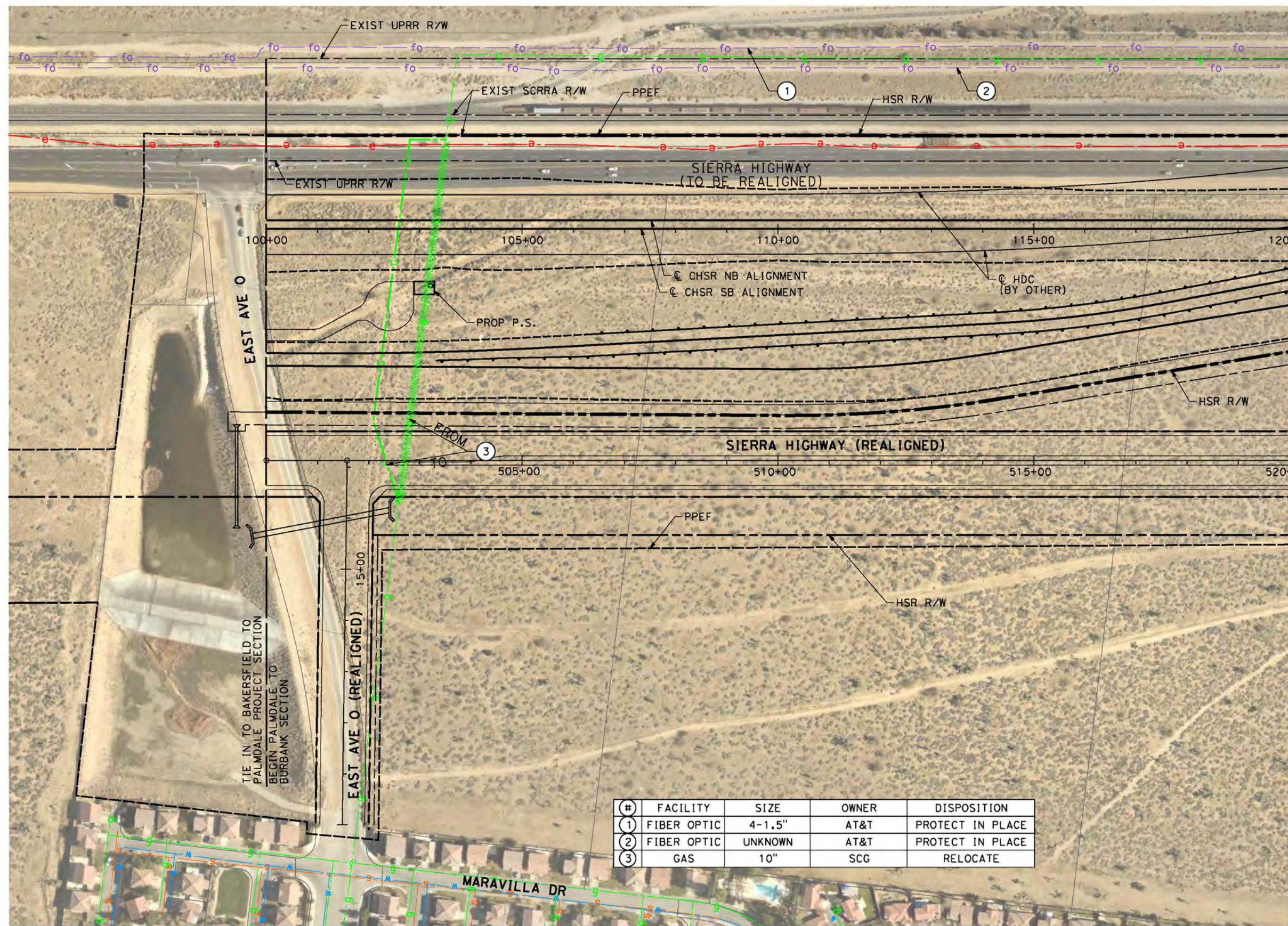
DESIGNED BY
C. DIMARIO
DRAWN BY
F. VASQUEZ
CHECKED BY
W. GUO
IN CHARGE
A. RELANO
DATE
03/01/2021

PALMDALE SUBSECTION
PEPD RECORD SET
REV 02
NOT FOR CONSTRUCTION



CALIFORNIA HIGH-SPEED RAIL PROJECT
PALMDALE TO BURBANK
PALMDALE SUBSECTION
RELOCATION UTILITY PLANS
KEY MAP

CONTRACT NO.
HSR14-42
DRAWING NO.
UT-B0003-PLM
SCALE
AS SHOWN
SHEET NO.
186



MATCH LINE (UT-C4002-PLM)

#	FACILITY	SIZE	OWNER	DISPOSITION
1	FIBER OPTIC	4-1.5"	AT&T	PROTECT IN PLACE
2	FIBER OPTIC	UNKNOWN	AT&T	PROTECT IN PLACE
3	GAS	10"	SCG	RELOCATE



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2/24/2021 10:22:27 AM

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C. DIMARIO
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F. VASQUEZ
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W. GUO
IN CHARGE
A. RELANO
DATE
03/01/2021

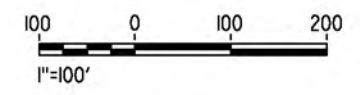
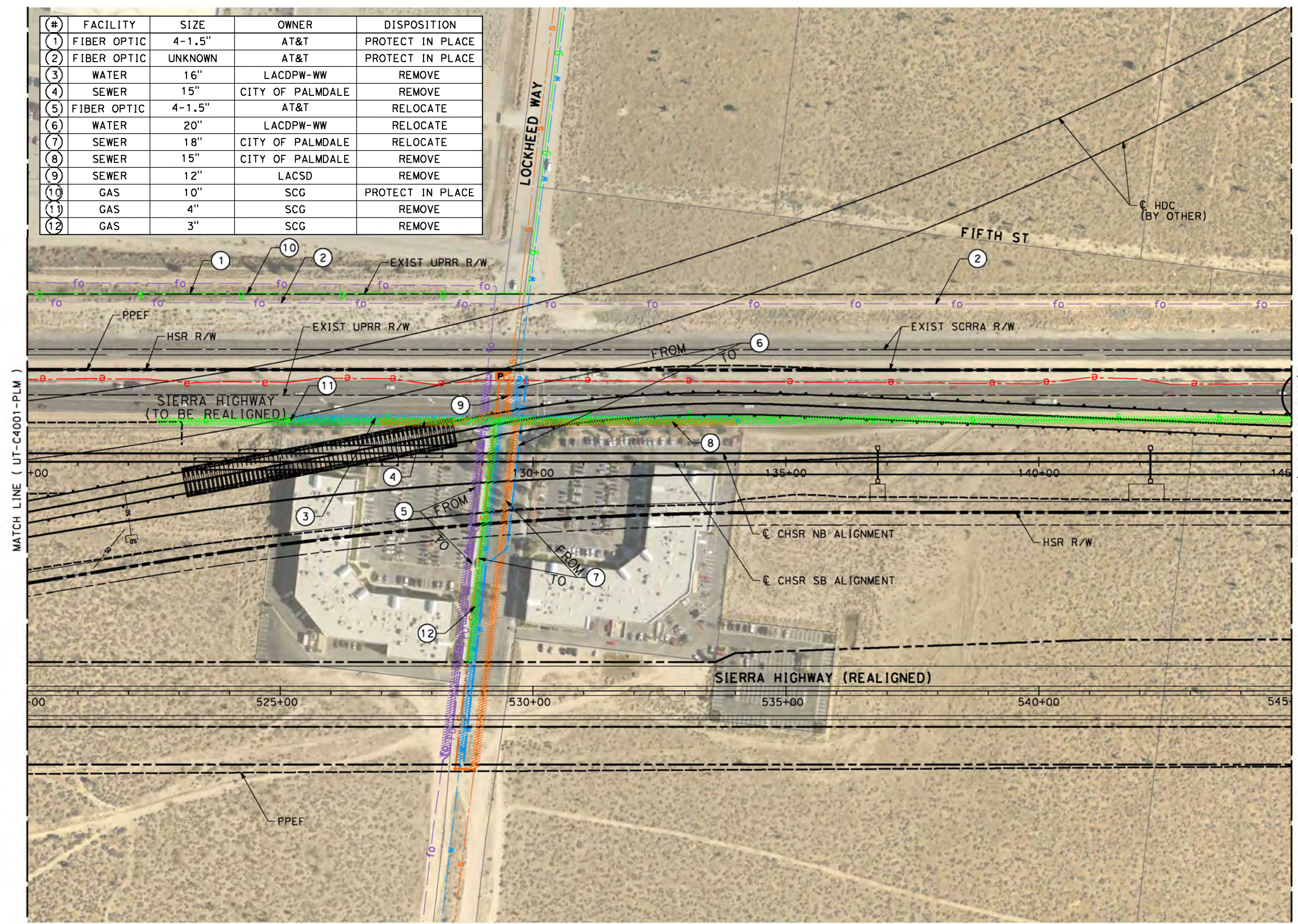
PALMDALE SUBSECTION
PEPD RECORD SET REV 02
NOT FOR CONSTRUCTION



CALIFORNIA HIGH-SPEED RAIL PROJECT
PALMDALE TO BURBANK
PALMDALE SUBSECTION
RELOCATION UTILITY PLANS
STA 100+00 TO STA 120+00

CONTRACT NO.
HSR14-42
DRAWING NO.
UT-C4001-PLM
SCALE
AS SHOWN
SHEET NO.
187

#	FACILITY	SIZE	OWNER	DISPOSITION
1	FIBER OPTIC	4-1.5"	AT&T	PROTECT IN PLACE
2	FIBER OPTIC	UNKNOWN	AT&T	PROTECT IN PLACE
3	WATER	16"	LACDPW-WW	REMOVE
4	SEWER	15"	CITY OF PALMDALE	REMOVE
5	FIBER OPTIC	4-1.5"	AT&T	RELOCATE
6	WATER	20"	LACDPW-WW	RELOCATE
7	SEWER	18"	CITY OF PALMDALE	RELOCATE
8	SEWER	15"	CITY OF PALMDALE	REMOVE
9	SEWER	12"	LACSD	REMOVE
10	GAS	10"	SCG	PROTECT IN PLACE
11	GAS	4"	SCG	REMOVE
12	GAS	3"	SCG	REMOVE



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C. DIMARIO

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F. VASQUEZ

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W. GUO

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A. RELANO

DATE
03/01/2021

PALMDALE SUBSECTION

PEPD RECORD SET
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CALIFORNIA HIGH-SPEED RAIL PROJECT

PALMDALE TO BURBANK

PALMDALE SUBSECTION

RELOCATION UTILITY PLANS
STA 120+00 TO STA 145+00

CONTRACT NO.
HSR14-42

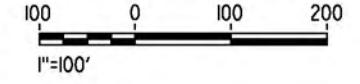
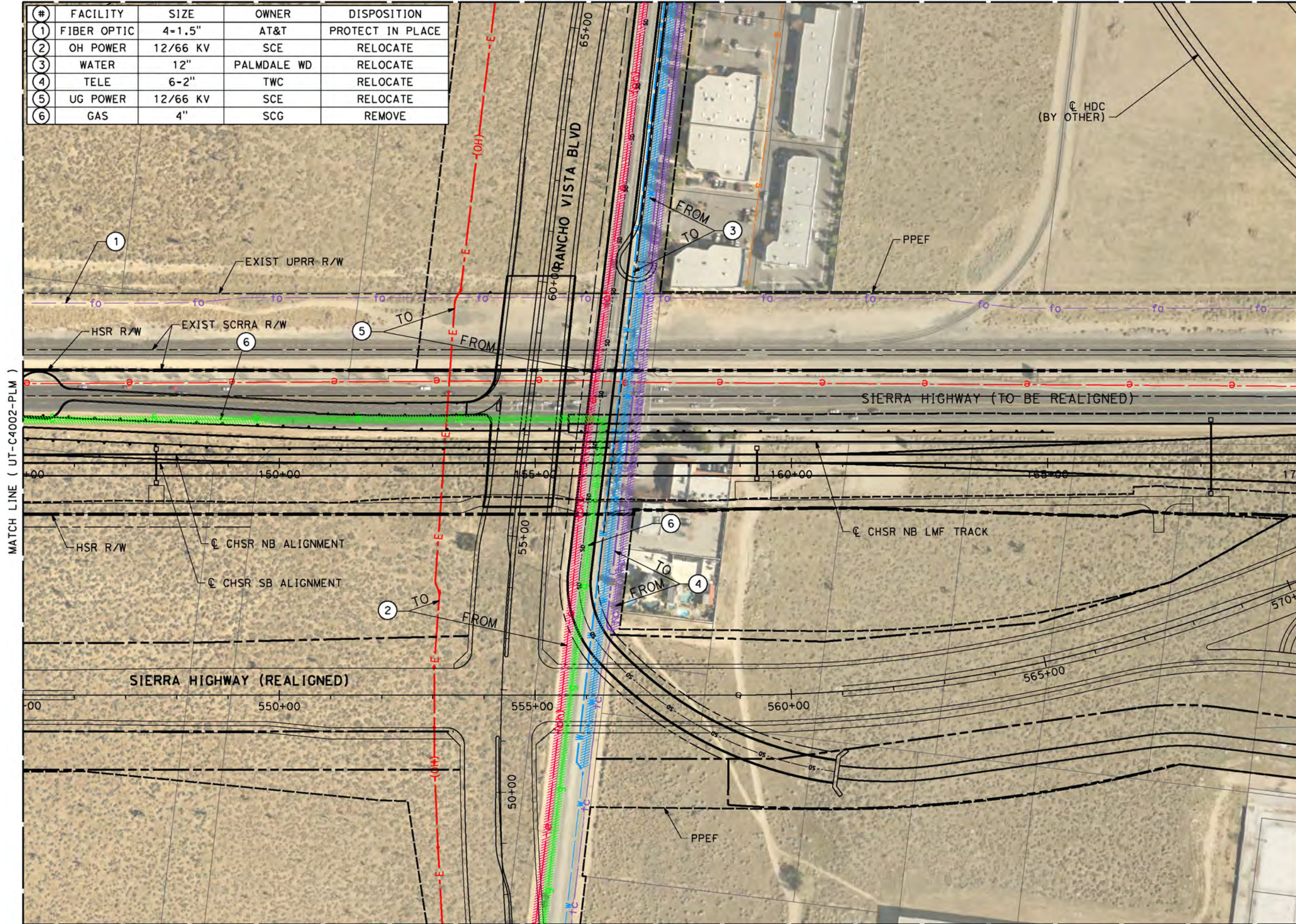
DRAWING NO.
UT-C4002-PLM

SCALE
AS SHOWN

SHEET NO.
188

MATCH LINE (UT-C4503-PLM)

#	FACILITY	SIZE	OWNER	DISPOSITION
1	FIBER OPTIC	4-1.5"	AT&T	PROTECT IN PLACE
2	OH POWER	12/66 KV	SCE	RELOCATE
3	WATER	12"	PALMDALE WD	RELOCATE
4	TELE	6-2"	TWC	RELOCATE
5	UG POWER	12/66 KV	SCE	RELOCATE
6	GAS	4"	SCG	REMOVE



MATCH LINE (UT-C4502-PLM)

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F. VASQUEZ
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W. GUO
IN CHARGE
A. RELANO
DATE
03/01/2021

PALMDALE SUBSECTION
PEPD RECORD SET
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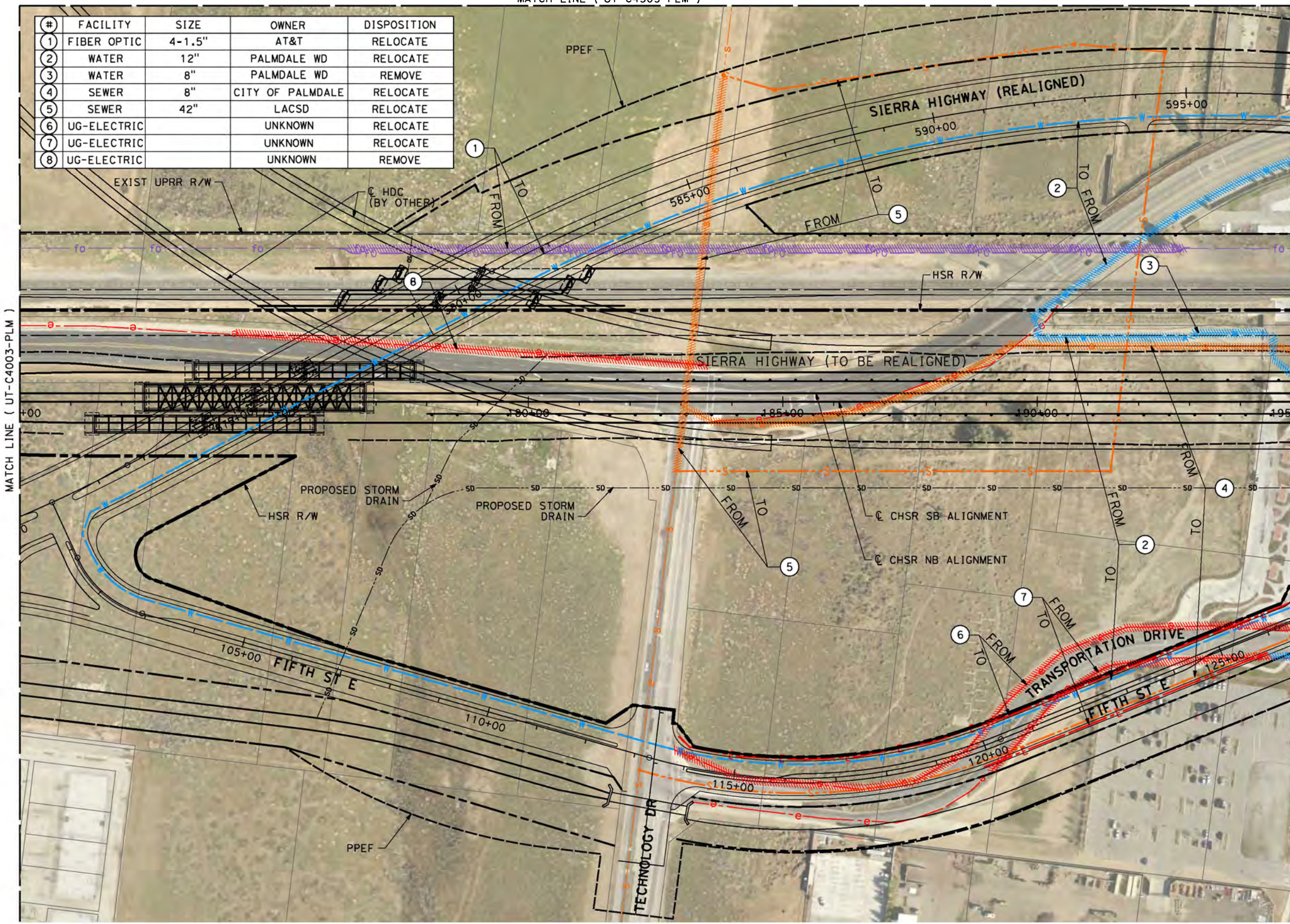
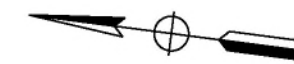


CALIFORNIA HIGH-SPEED RAIL PROJECT
PALMDALE TO BURBANK
PALMDALE SUBSECTION
RELOCATION UTILITY PLANS
STA 145+00 TO STA 170+00

CONTRACT NO.
HSR14-42
DRAWING NO.
UT-C4003-PLM
SCALE
AS SHOWN
SHEET NO.
189

MATCH LINE (UT-C4505-PLM)

#	FACILITY	SIZE	OWNER	DISPOSITION
1	FIBER OPTIC	4-1.5"	AT&T	RELOCATE
2	WATER	12"	PALMDALE WD	RELOCATE
3	WATER	8"	PALMDALE WD	REMOVE
4	SEWER	8"	CITY OF PALMDALE	RELOCATE
5	SEWER	42"	LACSD	RELOCATE
6	UG-ELECTRIC		UNKNOWN	RELOCATE
7	UG-ELECTRIC		UNKNOWN	RELOCATE
8	UG-ELECTRIC		UNKNOWN	REMOVE



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IN CHARGE
A. RELANO
DATE
03/01/2021

PALMDALE SUBSECTION
PEPD RECORD SET
REV 02
NOT FOR CONSTRUCTION



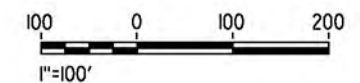
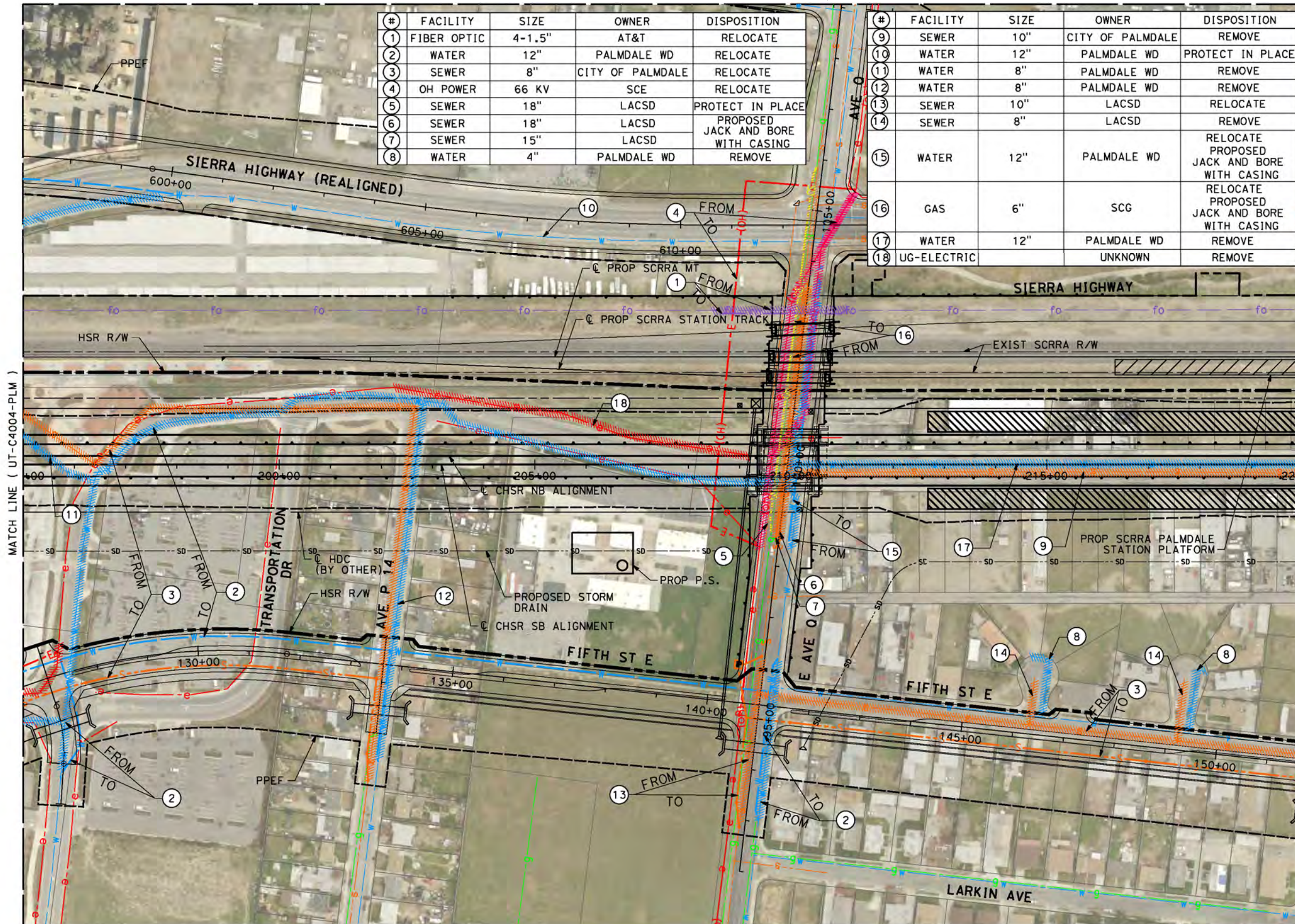
CALIFORNIA HIGH-SPEED RAIL PROJECT
PALMDALE TO BURBANK
PALMDALE SUBSECTION
RELOCATION UTILITY PLANS
STA 170+00 TO STA 195+00

CONTRACT NO.
HSR14-42
DRAWING NO.
UT-C4004-PLM
SCALE
AS SHOWN
SHEET NO.
190

MATCH LINE (UT-C4511-PLM)

#	FACILITY	SIZE	OWNER	DISPOSITION
1	FIBER OPTIC	4-1.5"	AT&T	RELOCATE
2	WATER	12"	PALMDALE WD	RELOCATE
3	SEWER	8"	CITY OF PALMDALE	RELOCATE
4	OH POWER	66 KV	SCE	RELOCATE
5	SEWER	18"	LACSD	PROTECT IN PLACE
6	SEWER	18"	LACSD	PROPOSED JACK AND BORE WITH CASING
7	SEWER	15"	LACSD	RELOCATE
8	WATER	4"	PALMDALE WD	REMOVE

#	FACILITY	SIZE	OWNER	DISPOSITION
9	SEWER	10"	CITY OF PALMDALE	REMOVE
10	WATER	12"	PALMDALE WD	PROTECT IN PLACE
11	WATER	8"	PALMDALE WD	REMOVE
12	WATER	8"	PALMDALE WD	REMOVE
13	SEWER	10"	LACSD	RELOCATE
14	SEWER	8"	LACSD	REMOVE
15	WATER	12"	PALMDALE WD	RELOCATE PROPOSED JACK AND BORE WITH CASING
16	GAS	6"	SCG	RELOCATE PROPOSED JACK AND BORE WITH CASING
17	WATER	12"	PALMDALE WD	REMOVE
18	UG-ELECTRIC		UNKNOWN	REMOVE



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F. VASQUEZ
CHECKED BY
W. GUO
IN CHARGE
A. RELANO
DATE
03/01/2021

PALMDALE SUBSECTION
PEPD RECORD SET REV 02
NOT FOR CONSTRUCTION

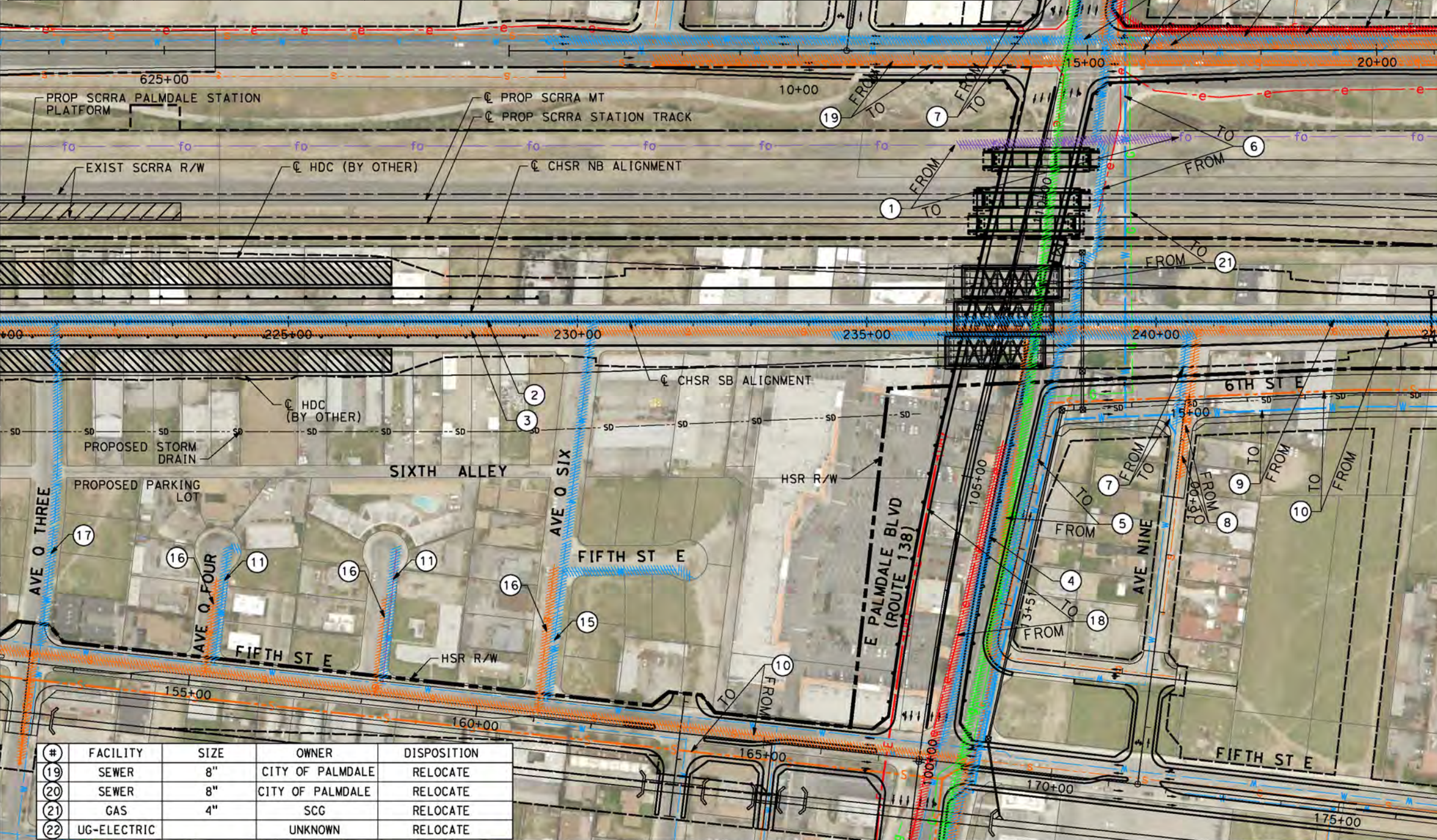


CALIFORNIA HIGH-SPEED RAIL PROJECT
PALMDALE TO BURBANK
PALMDALE SUBSECTION
RELOCATION UTILITY PLANS
STA 195+00 TO STA 220+00

CONTRACT NO.
HSR14-42
DRAWING NO.
UT-C4005-PLM
SCALE
AS SHOWN
SHEET NO.
191

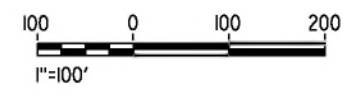
MATCH LINE (UT-C4507-PLM)

#	FACILITY	SIZE	OWNER	DISPOSITION	#	FACILITY	SIZE	OWNER	DISPOSITION
1	FIBER OPTIC	4-1.5"	AT&T	REMOVE	10	SEWER	8"	CITY OF PALMDALE	RELOCATE
2	WATER	12"	PALMDALE WD	REMOVE	11	WATER	4"	PALMDALE WD	REMOVE
3	SEWER	10"	CITY OF PALMDALE	REMOVE	12	WATER	16"	PALMDALE WD	RELOCATE
4	WATER	12"	PALMDALE WD	REMOVE	13	SEWER	8"	CITY OF PALMDALE	REMOVE
5	SEWER	8"	CITY OF PALMDALE	RELOCATE	14	WATER	12"	PALMDALE WD	REMOVE
6	WATER	12"	PALMDALE WD	RELOCATE	15	WATER	6"	PALMDALE WD	REMOVE
7	WATER	8"	PALMDALE WD	RELOCATE	16	SEWER	8"	LACSD	REMOVE
8	SEWER	8"	CITY OF PALMDALE	RELOCATE	17	WATER	10"	PALMDALE WD	REMOVE
9	WATER	12"	PALMDALE WD	RELOCATE	18	UG ELECTRIC		UNKNOWN	RELOCATE



#	FACILITY	SIZE	OWNER	DISPOSITION
19	SEWER	8"	CITY OF PALMDALE	RELOCATE
20	SEWER	8"	CITY OF PALMDALE	RELOCATE
21	GAS	4"	SCG	RELOCATE
22	UG-ELECTRIC		UNKNOWN	RELOCATE

MATCH LINE (UT-C4506-PLM)



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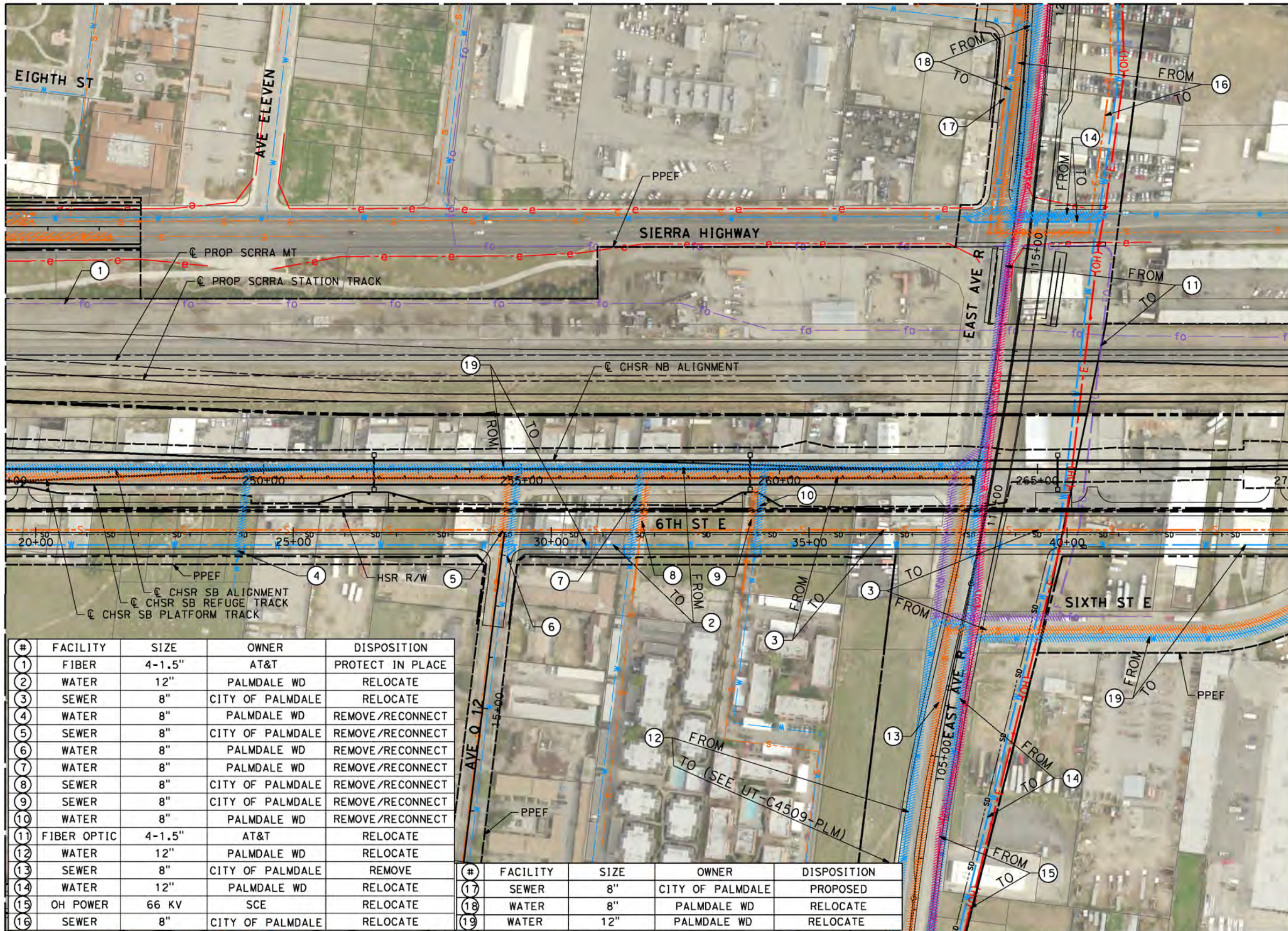
DESIGNED BY
C. DIMARIO
DRAWN BY
F. VASQUEZ
CHECKED BY
W. GUO
IN CHARGE
A. RELANO
DATE
03/01/2021

PALMDALE SUBSECTION
PEPD RECORD SET REV 02
NOT FOR CONSTRUCTION



CALIFORNIA HIGH-SPEED RAIL PROJECT
PALMDALE TO BURBANK
PALMDALE SUBSECTION
RELOCATION UTILITY PLANS
STA 220+00 TO STA 245+00

CONTRACT NO.
HSR14-42
DRAWING NO.
UT-C4006-PLM
SCALE
AS SHOWN
SHEET NO.
192



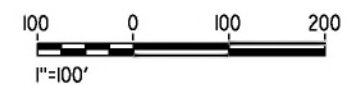
MATCH LINE (UT-C4006-PLM)

MATCH LINE (UT-C4008-PLM)

#	FACILITY	SIZE	OWNER	DISPOSITION
1	FIBER	4-1.5"	AT&T	PROTECT IN PLACE
2	WATER	12"	PALMDALE WD	RELOCATE
3	SEWER	8"	CITY OF PALMDALE	RELOCATE
4	WATER	8"	PALMDALE WD	REMOVE/RECONNECT
5	SEWER	8"	CITY OF PALMDALE	REMOVE/RECONNECT
6	WATER	8"	PALMDALE WD	REMOVE/RECONNECT
7	WATER	8"	PALMDALE WD	REMOVE/RECONNECT
8	SEWER	8"	CITY OF PALMDALE	REMOVE/RECONNECT
9	SEWER	8"	CITY OF PALMDALE	REMOVE/RECONNECT
10	WATER	8"	PALMDALE WD	REMOVE/RECONNECT
11	FIBER OPTIC	4-1.5"	AT&T	RELOCATE
12	WATER	12"	PALMDALE WD	RELOCATE
13	SEWER	8"	CITY OF PALMDALE	RELOCATE
14	WATER	12"	PALMDALE WD	RELOCATE
15	OH POWER	66 KV	SCE	RELOCATE
16	SEWER	8"	CITY OF PALMDALE	RELOCATE

#	FACILITY	SIZE	OWNER	DISPOSITION
17	SEWER	8"	CITY OF PALMDALE	PROPOSED
18	WATER	8"	PALMDALE WD	RELOCATE
19	WATER	12"	PALMDALE WD	RELOCATE

MATCH LINE (UT-C4509-PLM)



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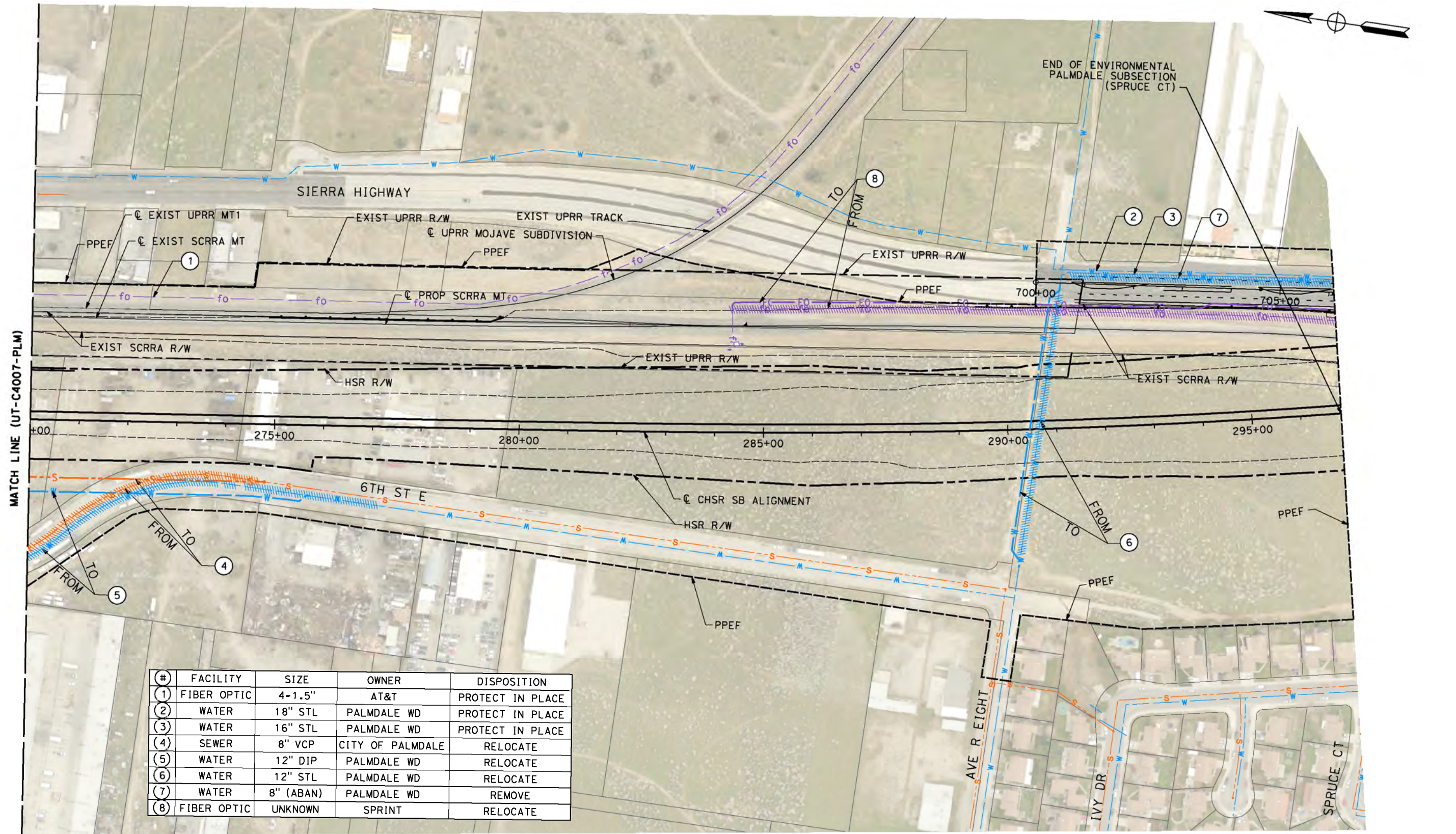
DESIGNED BY
C. DIMARIO
DRAWN BY
F. VASQUEZ
CHECKED BY
W. GUO
IN CHARGE
A. RELANO
DATE
03/01/2021

PALMDALE SUBSECTION
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CALIFORNIA HIGH-SPEED RAIL PROJECT
PALMDALE TO BURBANK
PALMDALE SUBSECTION
RELOCATION UTILITY PLANS
STA 245+00 TO STA 270+00

CONTRACT NO.
HSR14-42
DRAWING NO.
UT-C4007-PLM
SCALE
AS SHOWN
SHEET NO.
193



MATCH LINE (UT-C4007-PLM)

#	FACILITY	SIZE	OWNER	DISPOSITION
1	FIBER OPTIC	4-1.5"	AT&T	PROTECT IN PLACE
2	WATER	18" STL	PALMDALE WD	PROTECT IN PLACE
3	WATER	16" STL	PALMDALE WD	PROTECT IN PLACE
4	SEWER	8" VCP	CITY OF PALMDALE	RELOCATE
5	WATER	12" DIP	PALMDALE WD	RELOCATE
6	WATER	12" STL	PALMDALE WD	RELOCATE
7	WATER	8" (ABAN)	PALMDALE WD	REMOVE
8	FIBER OPTIC	UNKNOWN	SPRINT	RELOCATE



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3/16/2021 11:20:46 AM

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C. DIMARIO
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F. VASQUEZ
CHECKED BY
J. LEMA
IN CHARGE
A. RELANO
DATE
03/01/2021

PALMDALE SUBSECTION
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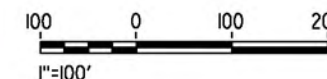


CALIFORNIA HIGH-SPEED RAIL PROJECT
PALMDALE TO BURBANK
PALMDALE SUBSECTION
RELOCATION UTILITY PLAN
STA 270+00 TO STA 296+82.67

CONTRACT NO.
HSR14-42
DRAWING NO.
UT-C4008-PLM
SCALE
AS SHOWN
SHEET NO.
194



#	FACILITY	SIZE	OWNER	DISPOSITION
①	WATER	UNKNOWN	PALMDALE WD	PROTECT IN PLACE
②	SEWER	UNKNOWN	CITY OF PALMDALE	PROTECT IN PLACE
③	WATER	14"	PALMDALE WD	PROTECT IN PLACE
④	OH POWER	12/66 KV	SCE	PROTECT IN PLACE



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F. VASQUEZ
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DATE
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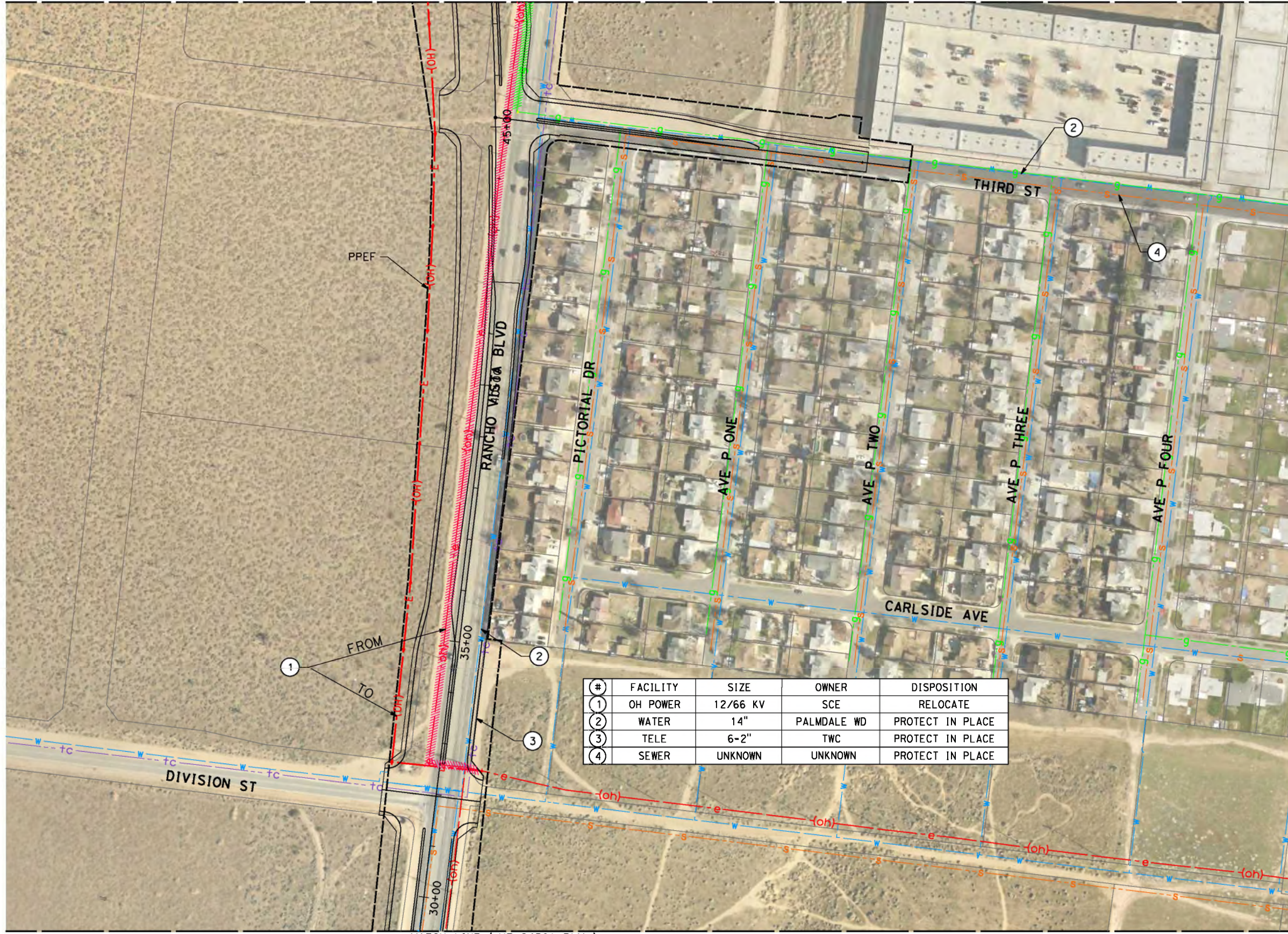
PALMDALE
SUBSECTION
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REV 02
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CALIFORNIA HIGH-SPEED RAIL PROJECT
PALMDALE TO BURBANK
PALMDALE SUBSECTION
RELOCATION UTILITY PLANS
RANCHO VISTA BLVD 1 OF 4

CONTRACT NO.
HSR14-42
DRAWING NO.
UT-C4501-PLM
SCALE
AS SHOWN
SHEET NO.
195

MATCH LINE (UT-C4003-PLM)



#	FACILITY	SIZE	OWNER	DISPOSITION
1	OH POWER	12/66 KV	SCE	RELOCATE
2	WATER	14"	PALMDALE WD	PROTECT IN PLACE
3	TELE	6-2"	TWC	PROTECT IN PLACE
4	SEWER	UNKNOWN	UNKNOWN	PROTECT IN PLACE

MATCH LINE (UT-C4501-PLM)

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W. GUO
IN CHARGE
A. RELANO
DATE
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PALMDALE SUBSECTION
PEPD RECORD SET
REV 02
NOT FOR CONSTRUCTION

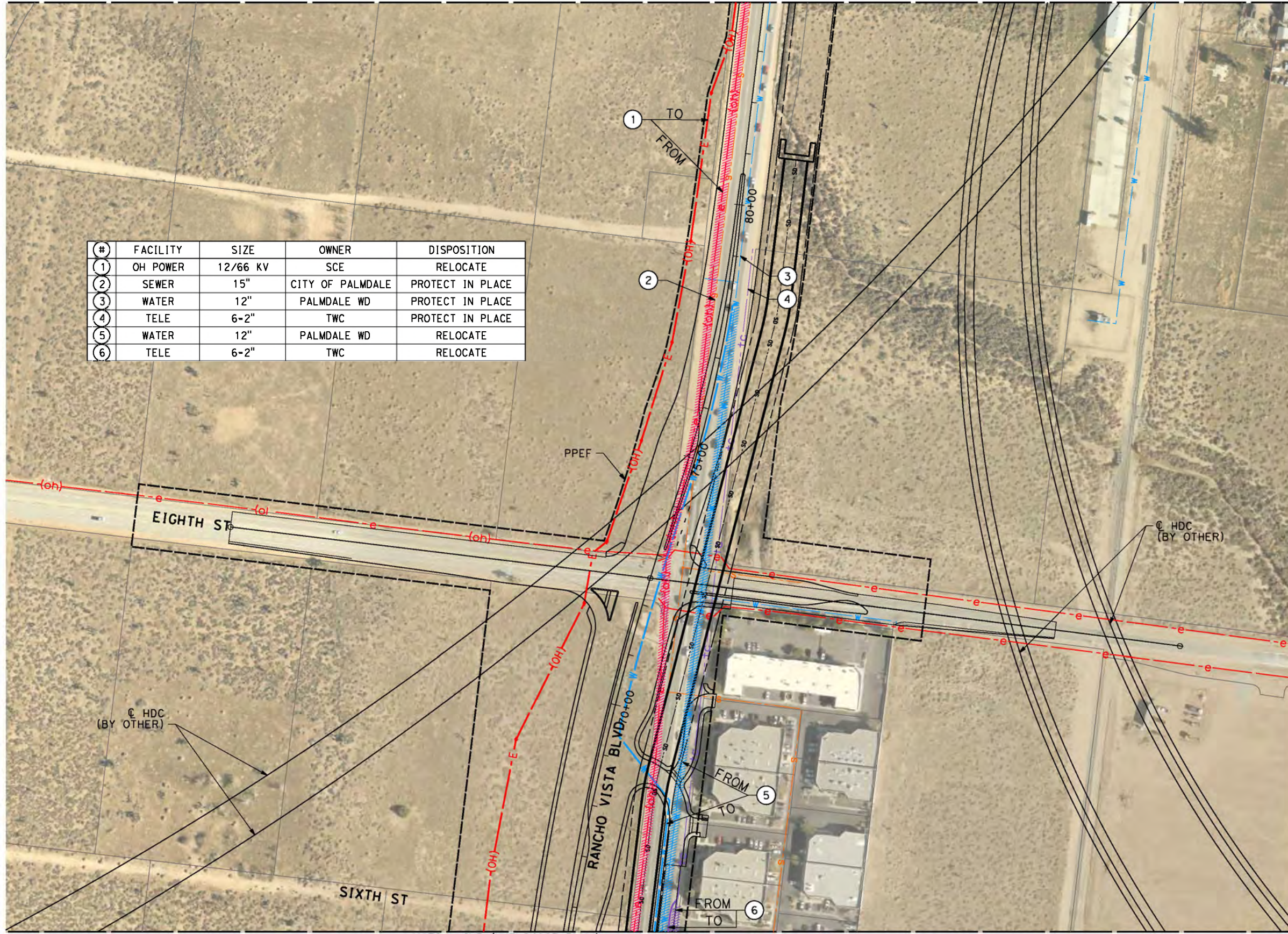


CALIFORNIA HIGH-SPEED RAIL PROJECT
PALMDALE TO BURBANK
PALMDALE SUBSECTION
RELOCATION UTILITY PLANS
RANCHO VISTA BLVD 2 OF 4

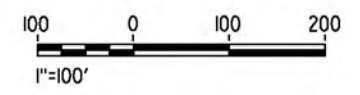
CONTRACT NO.
HSR14-42
DRAWING NO.
UT-C4502-PLM
SCALE
AS SHOWN
SHEET NO.
196

MATCH LINE (UT-C4504-PLM)

#	FACILITY	SIZE	OWNER	DISPOSITION
1	OH POWER	12/66 KV	SCE	RELOCATE
2	SEWER	15"	CITY OF PALMDALE	PROTECT IN PLACE
3	WATER	12"	PALMDALE WD	PROTECT IN PLACE
4	TELE	6-2"	TWC	PROTECT IN PLACE
5	WATER	12"	PALMDALE WD	RELOCATE
6	TELE	6-2"	TWC	RELOCATE



MATCH LINE (UT-C4505-PLM)



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IN CHARGE
A. RELANO
DATE
03/01/2021

PALMDALE
SUBSECTION
PEPD RECORD SET
REV 02
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CALIFORNIA HIGH-SPEED RAIL PROJECT
PALMDALE TO BURBANK
PALMDALE SUBSECTION
RELOCATION UTILITY PLANS
RANCHO VISTA BLVD 3 OF 4

CONTRACT NO.
HSR14-42
DRAWING NO.
UT-C4503-PLM
SCALE
AS SHOWN
SHEET NO.
197

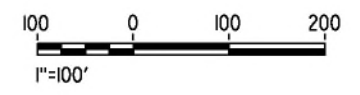
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2/24/2021 10:23:51 AM

0400074



#	FACILITY	SIZE	OWNER	DISPOSITION
1	OH POWER	12/66 KV	SCE	RELOCATE
2	WATER	12"	PALMDALE WD	PROTECT IN PLACE



MATCH LINE (UT-C4503-PLM)

REV	DATE	BY	CHK	APP	DESCRIPTION

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F. VASQUEZ
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W. GUO
IN CHARGE
A. RELANO
DATE
03/01/2021

PALMDALE SUBSECTION
PEPD RECORD SET REV 02
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CALIFORNIA HIGH-SPEED RAIL PROJECT
PALMDALE TO BURBANK
PALMDALE SUBSECTION
RELOCATION UTILITY PLANS
RANCHO VISTA BLVD 4 OF 4

CONTRACT NO.
HSR14-42
DRAWING NO.
UT-C4504-PLM
SCALE
AS SHOWN
SHEET NO.
198

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0400074



NO UTILITIES IDENTIFIED
AT THIS TIME ON THIS SHEET

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C. DIMARIO
DRAWN BY
F. VASQUEZ
CHECKED BY
W. GUO
IN CHARGE
A. RELANO
DATE
03/01/2021

**PALMDALE
SUBSECTION**
**PEPD RECORD SET
REV 02**
**NOT FOR
CONSTRUCTION**

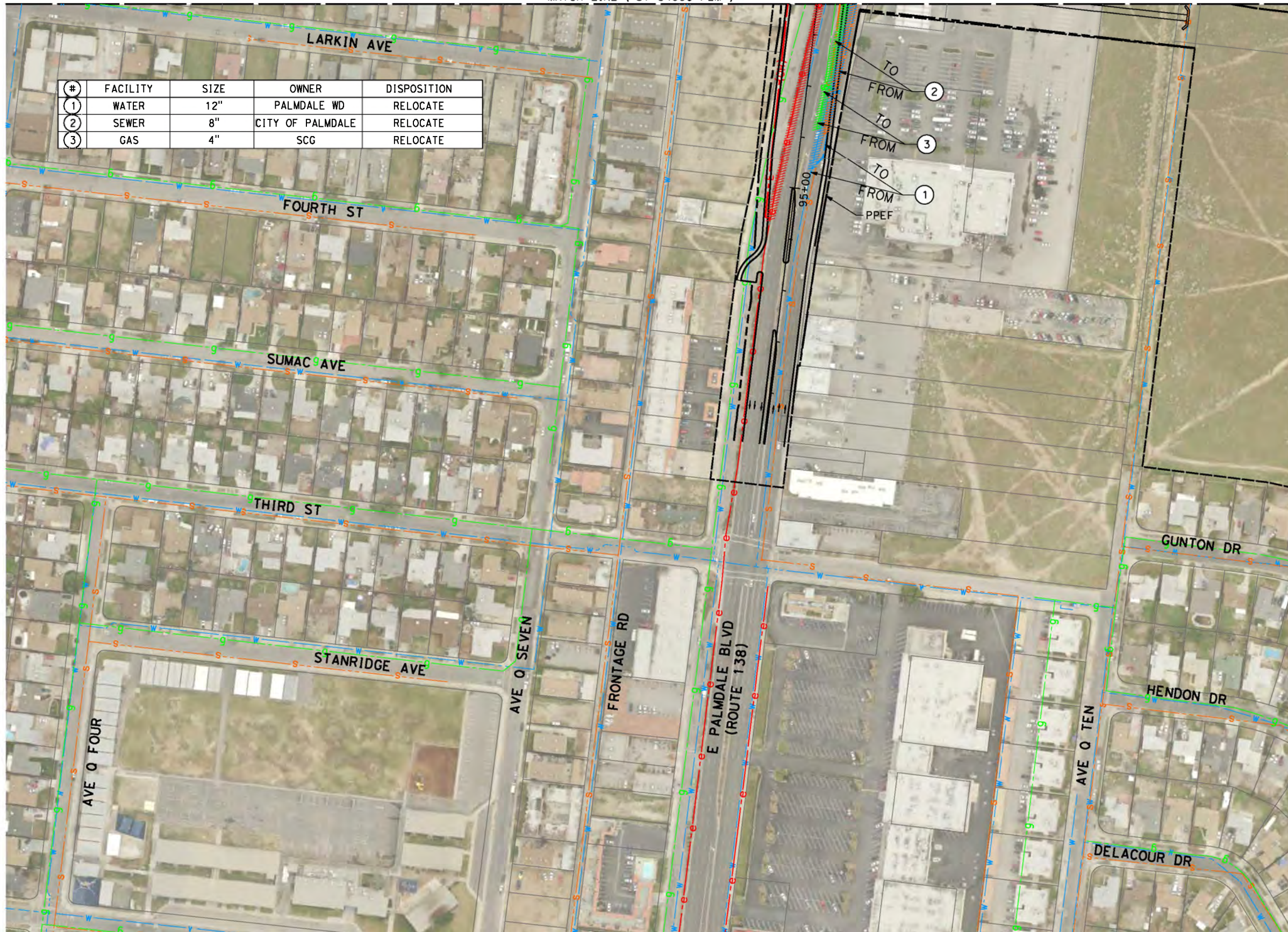


CALIFORNIA HIGH-SPEED RAIL PROJECT
PALMDALE TO BURBANK
PALMDALE SUBSECTION
RELOCATION UTILITY PLANS
TECHNOLOGY DRIVE

CONTRACT NO.
HSR14-42
DRAWING NO.
UT-C4505-PLM
SCALE
AS SHOWN
SHEET NO.
199

MATCH LINE (UT-C4006-PLM)

#	FACILITY	SIZE	OWNER	DISPOSITION
1	WATER	12"	PALMDALE WD	RELOCATE
2	SEWER	8"	CITY OF PALMDALE	RELOCATE
3	GAS	4"	SCG	RELOCATE



MATCH LINE (UT-C4509-PLM)



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2/24/2021 10:24:07 AM

0400074

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
C. DIMARIO
DRAWN BY
F. VASQUEZ
CHECKED BY
W. GUO
IN CHARGE
A. RELANO
DATE
03/01/2021

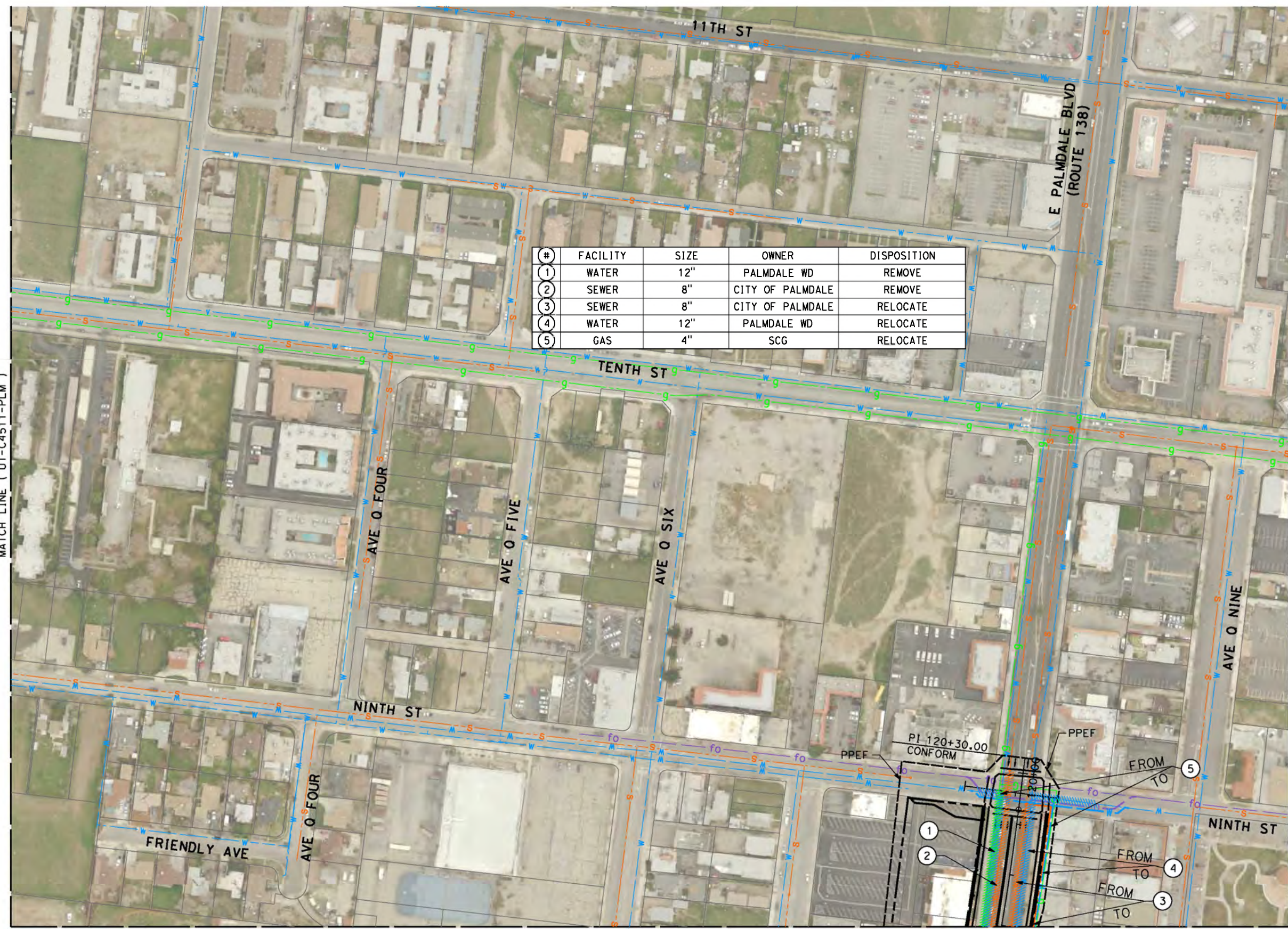
PALMDALE SUBSECTION
PEPD RECORD SET
REV 02
NOT FOR CONSTRUCTION



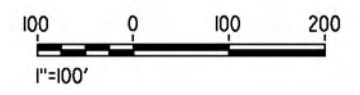
CALIFORNIA HIGH-SPEED RAIL PROJECT
PALMDALE TO BURBANK
PALMDALE SUBSECTION
RELOCATION UTILITY PLANS
PALMDALE BLVD 1 OF 2

CONTRACT NO.
HSR14-42
DRAWING NO.
UT-C4506-PLM
SCALE
AS SHOWN
SHEET NO.
200

2/24/2021 10:24:15 AM c:\pwworking\chsr\dms29544\p\UT-C4507-PLM.dgn



#	FACILITY	SIZE	OWNER	DISPOSITION
1	WATER	12"	PALMDALE WD	REMOVE
2	SEWER	8"	CITY OF PALMDALE	REMOVE
3	SEWER	8"	CITY OF PALMDALE	RELOCATE
4	WATER	12"	PALMDALE WD	RELOCATE
5	GAS	4"	SCG	RELOCATE



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
C. DIMARIO
DRAWN BY
F. VASQUEZ
CHECKED BY
W. GUO
IN CHARGE
A. RELANO
DATE
03/01/2021

PALMDALE SUBSECTION
PEPD RECORD SET
REV 02
NOT FOR CONSTRUCTION



CALIFORNIA HIGH-SPEED RAIL PROJECT
PALMDALE TO BURBANK
PALMDALE SUBSECTION
RELOCATION UTILITY PLANS
PALMDALE BLVD 2 OF 2

CONTRACT NO.
HSR14-42
DRAWING NO.
UT-C4507-PLM
SCALE
AS SHOWN
SHEET NO.
201

MATCH LINE (UT-C4509-PLM)

#	FACILITY	SIZE	OWNER	DISPOSITION
1	SEWER	10"	CITY OF PALMDALE	PROTECT IN PLACE
2	WATER	12"	PALMDALE WD	PROTECT IN PLACE
3	OH POWER	66 KV	SCE	PROTECT IN PLACE



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IN CHARGE
A. RELANO
DATE
03/01/2021

PALMDALE SUBSECTION
PEPD RECORD SET
REV 02
NOT FOR CONSTRUCTION



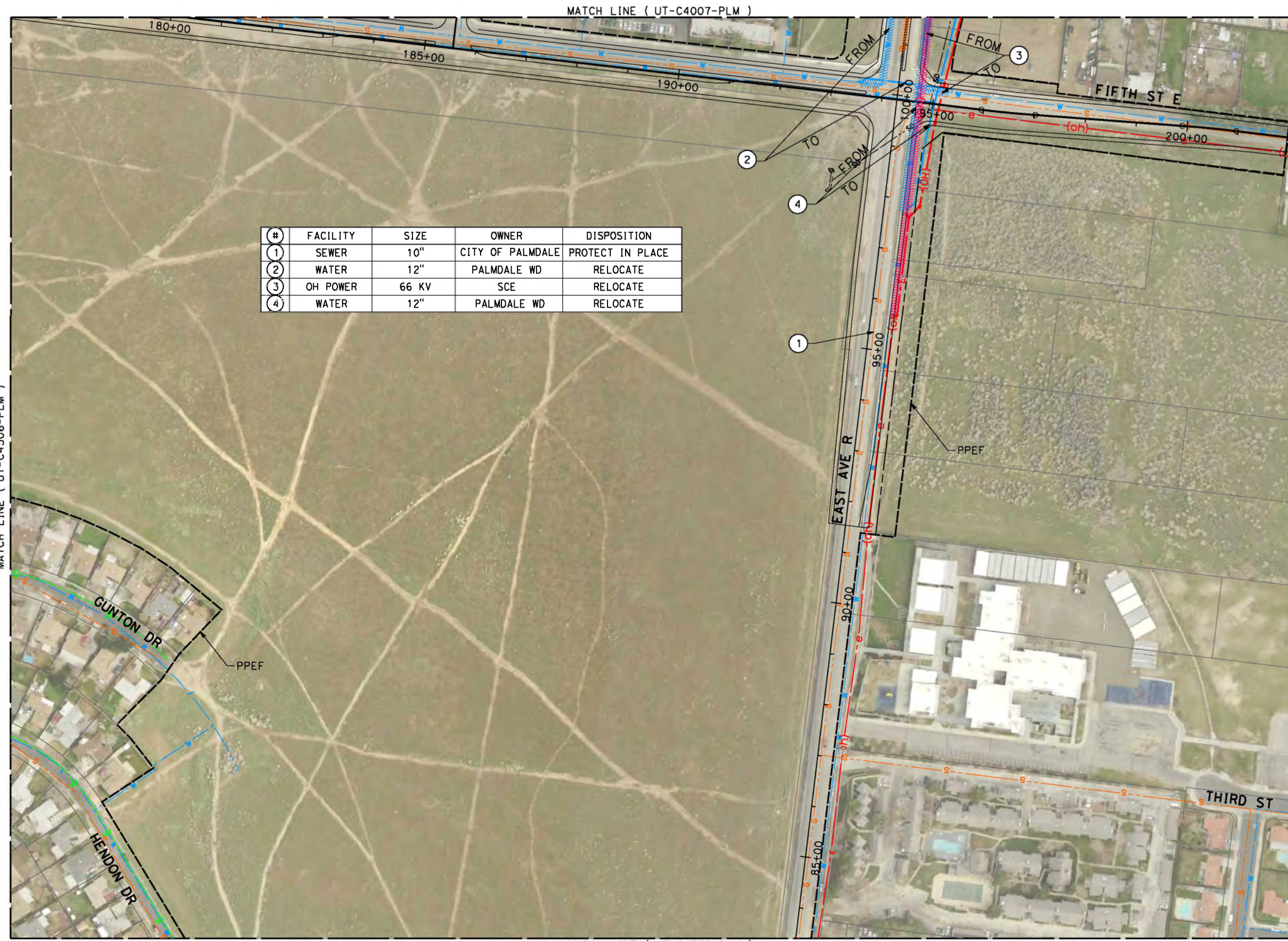
CALIFORNIA HIGH-SPEED RAIL PROJECT
PALMDALE TO BURBANK
PALMDALE SUBSECTION
RELOCATION UTILITY PLANS
EAST AVE R 1 OF 3

CONTRACT NO.
HSR14-42
DRAWING NO.
UT-C4508-PLM
SCALE
AS SHOWN
SHEET NO.
202

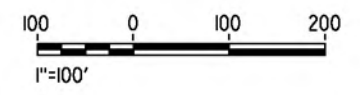
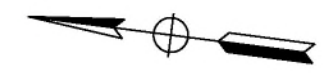
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0400074



#	FACILITY	SIZE	OWNER	DISPOSITION
①	SEWER	10"	CITY OF PALMDALE	PROTECT IN PLACE
②	WATER	12"	PALMDALE WD	RELOCATE
③	OH POWER	66 KV	SCE	RELOCATE
④	WATER	12"	PALMDALE WD	RELOCATE



REV	DATE	BY	CHK	APP	DESCRIPTION

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DATE
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PALMDALE SUBSECTION
PEPD RECORD SET
REV 02
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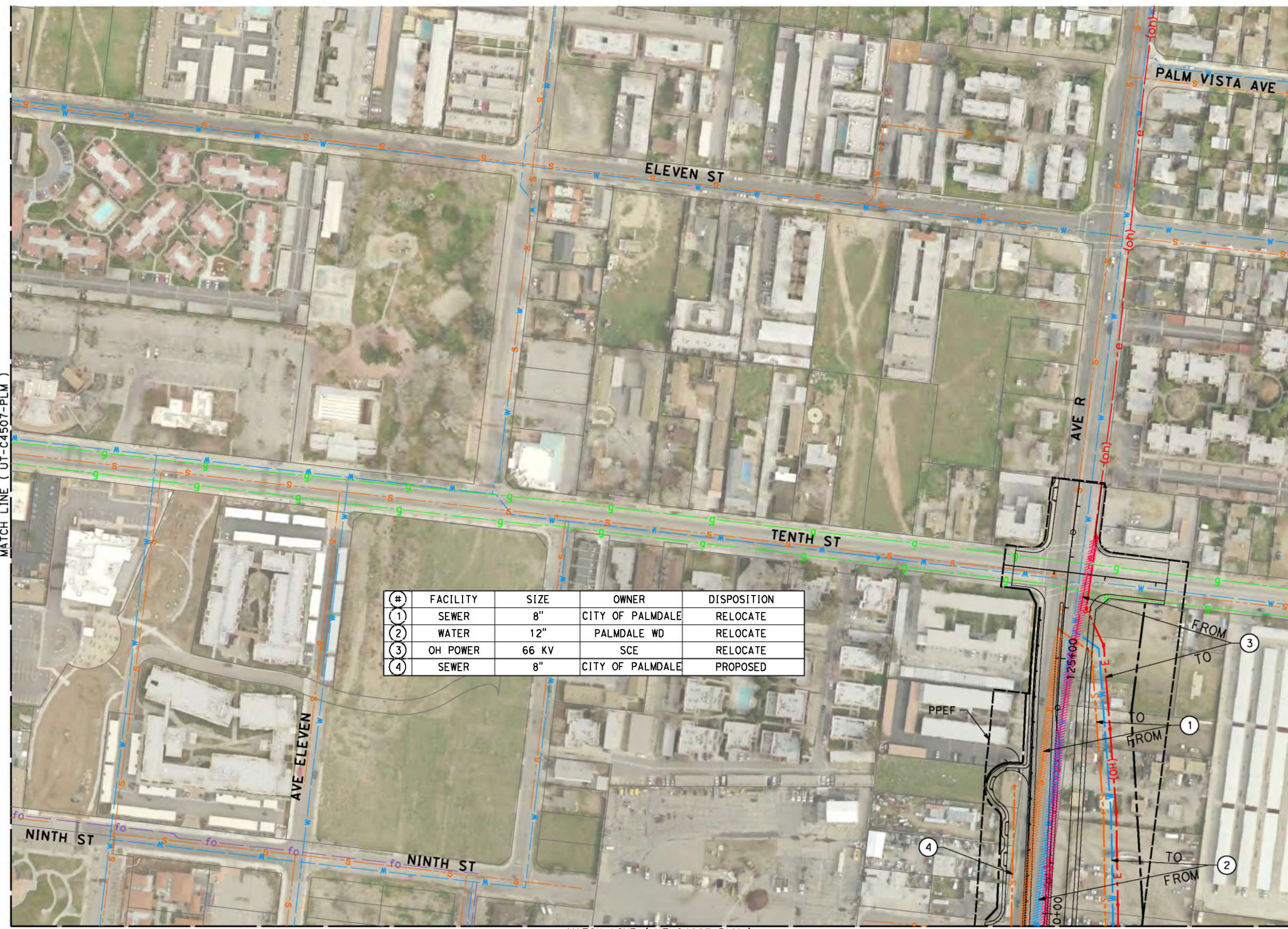
CALIFORNIA HIGH-SPEED RAIL PROJECT
PALMDALE TO BURBANK
PALMDALE SUBSECTION
RELOCATION UTILITY PLANS
EAST AVE R 2 OF 3

CONTRACT NO.
HSR14-42
DRAWING NO.
UT-C4509-PLM
SCALE
AS SHOWN
SHEET NO.
203

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#	FACILITY	SIZE	OWNER	DISPOSITION
1	SEWER	8"	CITY OF PALMDALE	RELOCATE
2	WATER	12"	PALMDALE WD	RELOCATE
3	OH POWER	66 KV	SCE	RELOCATE
4	SEWER	8"	CITY OF PALMDALE	PROPOSED

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
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03/01/2021

PALMDALE
SUBSECTION
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CALIFORNIA HIGH-SPEED RAIL PROJECT
PALMDALE TO BURBANK
PALMDALE SUBSECTION
RELOCATION UTILITY PLANS
EAST AVE R 3 OF 3

CONTRACT NO.
HSR14-42
DRAWING NO.
UT-C4510-PLM
SCALE
AS SHOWN
SHEET NO.
204

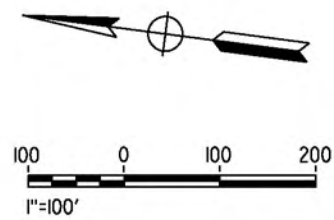
MATCH LINE (UT-C4512-PLM)



#	FACILITY	SIZE	OWNER	DISPOSITION
1	OH POWER	66 KV	SCE	RELOCATE

MATCH LINE (UT-C4505-PLM)

MATCH LINE (UT-C4507-PLM)



MATCH LINE (UT-C4005-PLM)

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C. DIMARIO
DRAWN BY
F. VASQUEZ
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W. GUO
IN CHARGE
A. RELANO
DATE
03/01/2021

**PALMDALE
SUBSECTION**
**PEPD RECORD SET
REV 02**
**NOT FOR
CONSTRUCTION**



CALIFORNIA HIGH-SPEED RAIL PROJECT
PALMDALE TO BURBANK
PALMDALE SUBSECTION
RELOCATION UTILITY PLANS
AVE 0 1 OF 2

CONTRACT NO.
HSR14-42
DRAWING NO.
UT-C4511-PLM
SCALE
AS SHOWN
SHEET NO.
205

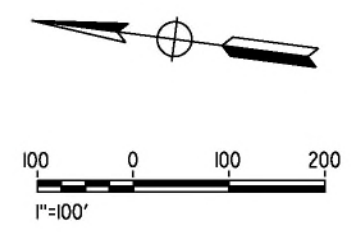
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#	FACILITY	SIZE	OWNER	DISPOSITION
1	OH POWER	66 KV	SCE	RELOCATE



REV	DATE	BY	CHK	APP	DESCRIPTION

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F. VASQUEZ
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W. GUO
IN CHARGE
A. RELANO
DATE
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PALMDALE SUBSECTION
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CALIFORNIA HIGH-SPEED RAIL PROJECT
PALMDALE TO BURBANK
PALMDALE SUBSECTION
RELOCATION UTILITY PLANS
AVE 0 2 OF 2

CONTRACT NO.
HSR14-42
DRAWING NO.
UT-C4512-PLM
SCALE
AS SHOWN
SHEET NO.
206

California High-Speed Rail Authority

Palmdale Subsection

PEPD RECORD SET REV02

Railway Systems Plans

March 2021



GENERAL SHEETS

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

CHSR ALIGNMENT "SR14A" RAILWAY SYSTEMS AND FACILITIES

DRAWING NO.	DRAWING DESCRIPTION	SHEET NO.
TP-D0001-14A	PALMDALE SUBSECTION ALIGNMENT "SR14A" TRACTION POWER FACILITIES - LOCATION LAYOUT	
TP-B6001-PLM	PALMDALE SUBSECTION TRACTION POWER FACILITIES - KEY MAP	
TC-F4005-PLM	PALMDALE SUBSECTION TRAIN CONTROL SYSTEM - STANDALONE RADIO SITE 1	
TP-O4001-PLM	PALMDALE SUBSECTION TRACTION POWER FACILITIES - PARALLELING STATION 1	



TRAIN CONTROL SYSTEM

DRAWING NO.	DRAWING DESCRIPTION	SHEET NO.
TC-E6001	TRAIN CONTROL SYSTEM INTERLOCKING SITES - PALMDALE STATION	
TC-B6001-PLM	PALMDALE SUBSECTION TRAIN CONTROL SYSTEM - KEY MAP	
TC-F4001-PLM	PALMDALE SUBSECTION TRAIN CONTROL SYSTEM INTERLOCKING SITES - STA 132+00 TO STA 145+00	
TC-F4002-PLM	PALMDALE SUBSECTION TRAIN CONTROL SYSTEM INTERLOCKING SITES - STA 153+00 TO STA 165+00	
TC-F4003-PLM	PALMDALE SUBSECTION TRAIN CONTROL SYSTEM INTERLOCKING SITES - STA 251+00 TO STA 266+00	
TC-F4004-PLM	PALMDALE SUBSECTION TRAIN CONTROL SYSTEM INTERLOCKING SITES - STA 266+00 TO STA 276+00	

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0400074

	DESIGNED BY R. RODRIGUEZ DRAWN BY F. VASQUEZ CHECKED BY W. GUO IN CHARGE A. RELANO DATE 03/01/2021	PALMDALE SUBSECTION PEPD RECORD SET REV 02 NOT FOR CONSTRUCTION			CALIFORNIA HIGH-SPEED RAIL PROJECT PALMDALE TO BURBANK PALMDALE SUBSECTION GENERAL INDEX OF DRAWINGS	CONTRACT NO. HSR14-42 DRAWING NO. TP-B0001 SCALE NO SCALE SHEET NO. 208																														
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>REV</th> <th>DATE</th> <th>BY</th> <th>CHK</th> <th>APP</th> <th>DESCRIPTION</th> </tr> </thead> <tbody> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> </tbody> </table>	REV	DATE	BY	CHK	APP	DESCRIPTION																														
REV	DATE	BY	CHK	APP	DESCRIPTION																															

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A

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

B

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

C

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

C CONTINUED

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

D

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

E

E EAST, EASTING
EA ACTUAL SUPERELEVATION
EU UNBALANCED SUPERELEVATION

E CONTINUED

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

F

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

G

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

H

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

J

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

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

K

K DISTANCE TO ACHIEVE 1% GRADE CHANGE

L

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

M

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

M CONTINUED

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

N

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

O

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

P

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

REV	DATE	BY	CHK	APP	DESCRIPTION

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R. RODRIGUEZ
 DRAWN BY
F. VASQUEZ
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PALMDALE SUBSECTION
PEPD RECORD SET
REV 02
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CALIFORNIA HIGH-SPEED RAIL PROJECT
PALMDALE TO BURBANK
PALMDALE SUBSECTION
GENERAL ABBREVIATIONS

CONTRACT NO.
HSR14-42
 DRAWING NO.
TP-B0002
 SCALE
NO SCALE
 SHEET NO.
209

P CONTINUED

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

Q
 QTY QUANTITY

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

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

S CONTINUED

SSBM STRAP AND SADDLE BRACKET METHOD
 SSD STRUCTURAL SECTION DRAIN
 SSPA STRUCTURAL STEEL PLATE ARCH
 SSPP STRUCTURAL STEEL PLATE PIPE
 SSPPA STRUCTURAL STEEL PLATE PIPE ARCH
 SSRP STEEL SPIRAL RIB PIPE
 SR STATE ROUTE
 ST STREET, SPIRAL TO TANGENT STATION
 STBB SINGLE THRIE BEAM BARRIER
 STD STANDARD
 STR STRUCTURE
 SRS STAND ALONE RADIO SITE
 SURF SURFACING
 SW SIDEWALK, SOUND WALL
 SWR SEWER
 SWS SWITCHING STATION
 SYM SYMMETRICAL
 S4S SURFACE 4 SIDES

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

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

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

W

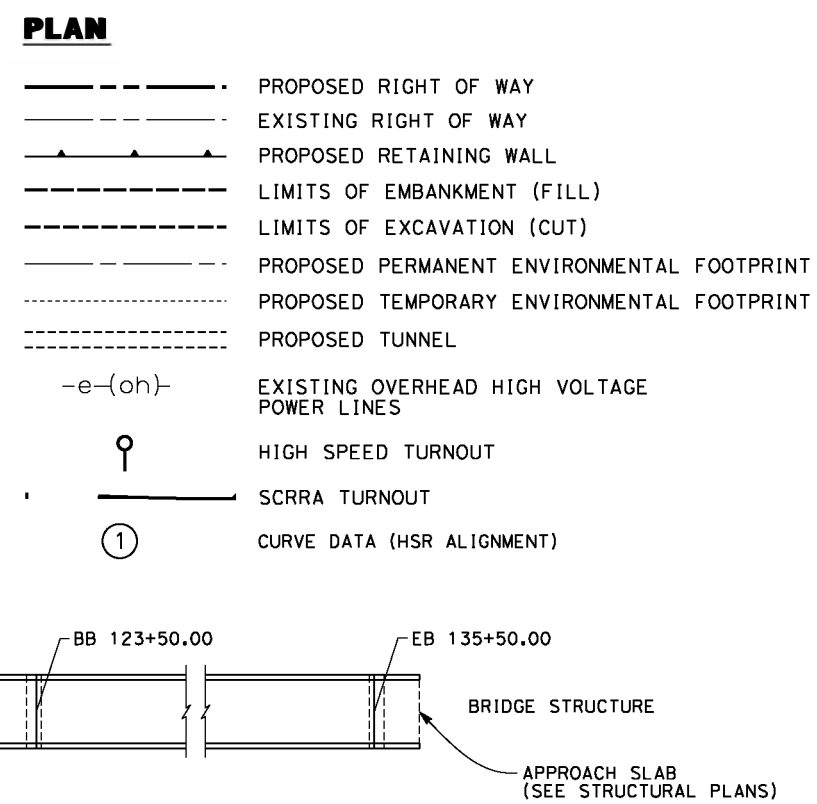
W WEST,
 WIDTH
 WB WESTBOUND
 WH WEEP HOLE
 WM WIRE MESH
 WS WATER SURFACE
 WSP WELDED STEEL PIPE
 WT WEIGHT
 WV WATER VALVE
 WW WINGWALL
 WWLW WINGWALL LAYOUT LINE
 W/ WITH

X
 X SEC CROSS SECTION
 XING CROSSING

Y

Z
 ZR YEAR
 ZRS YEARS

LEGEND



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REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
R. RODRIGUEZ
 DRAWN BY
F. VASQUEZ
 CHECKED BY
W. GUO
 IN CHARGE
A. RELANO
 DATE
03/01/2021

PALMDALE SUBSECTION
 PEPD RECORD SET
 REV 02
 NOT FOR CONSTRUCTION



CALIFORNIA HIGH-SPEED RAIL PROJECT
PALMDALE TO BURBANK
 PALMDALE SUBSECTION
 GENERAL ABBREVIATIONS AND LEGEND

CONTRACT NO.
HSR14-42
 DRAWING NO.
TP-B0003
 SCALE
NO SCALE
 SHEET NO.
210

LEGEND

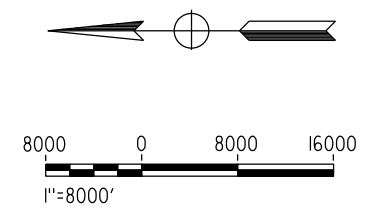
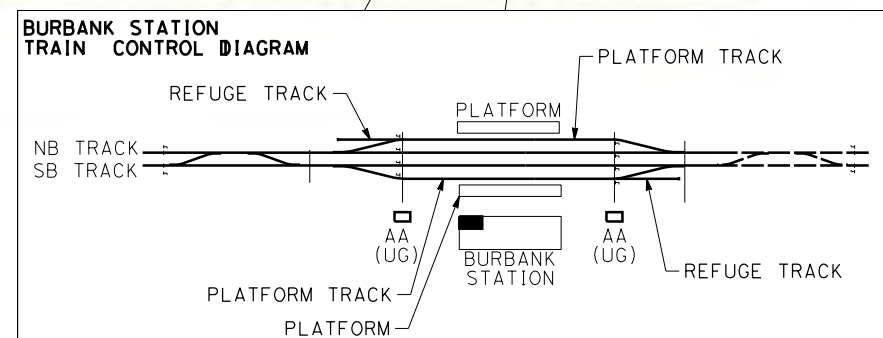
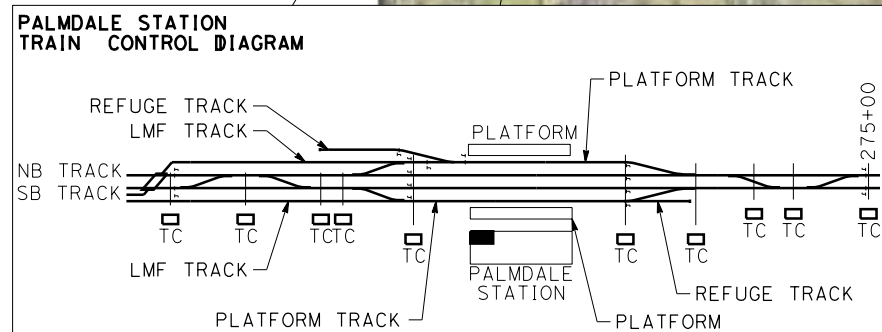
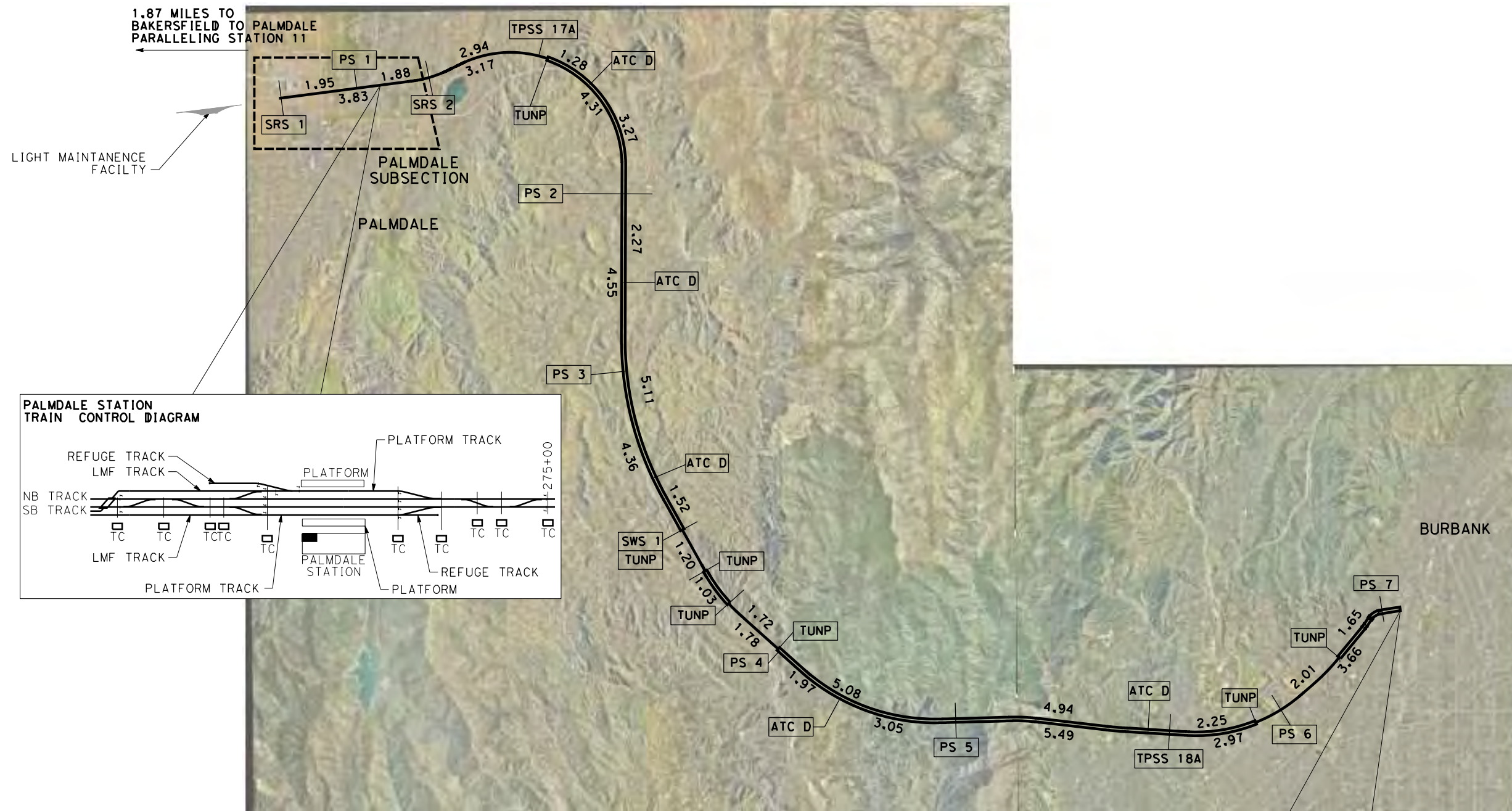
RAILWAY SYSTEMS FACILITY	5.0
SPACING (MILES)	
AT- GRADE / ELEVATED	————
UNDERGROUND	=====

ABBREVIATIONS:

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

NOTE:

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



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R. RODRIGUEZ
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CHECKED BY
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IN CHARGE
A. RELANO
DATE
03/01/2021

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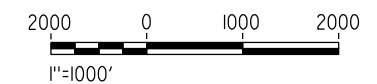
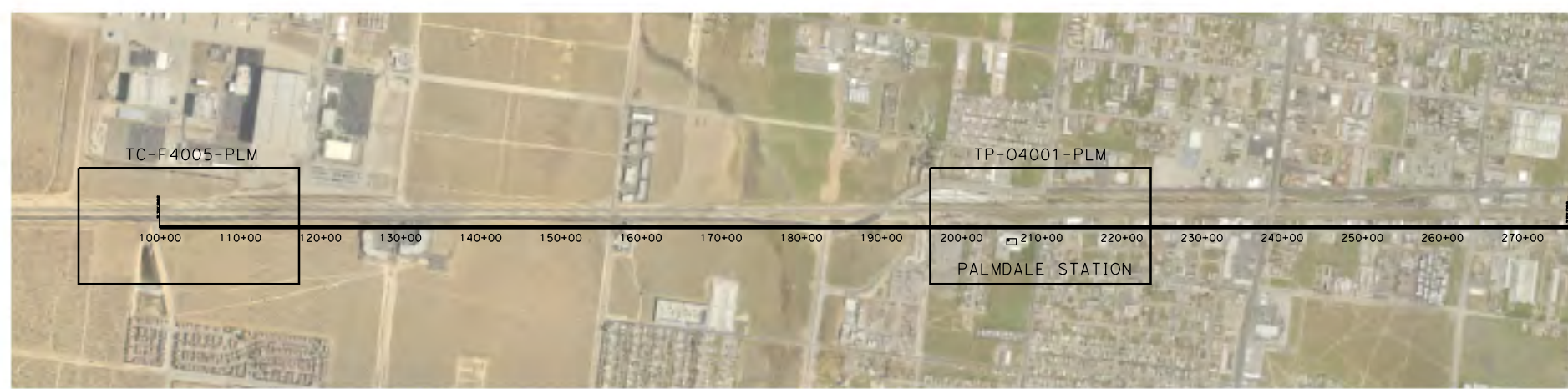
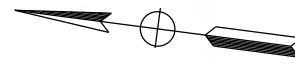
CALIFORNIA HIGH-SPEED RAIL PROJECT
PALMDALE TO BURBANK
PALMDALE SUBSECTION
ALIGNMENT "SR14A"
TRACTION POWER FACILITIES
LOCATION LAYOUT

CONTRACT NO.
HSR14-42
DRAWING NO.
TP-D0001-14A
SCALE
AS SHOWN
SHEET NO.
211

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A. RELANO

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CALIFORNIA HIGH-SPEED RAIL PROJECT

PALMDALE TO BURBANK

PALMDALE SUBSECTION

TRACTION POWER FACILITIES
KEY MAP

CONTRACT NO.
HSR14-42

DRAWING NO.
TP-B6001-PLM

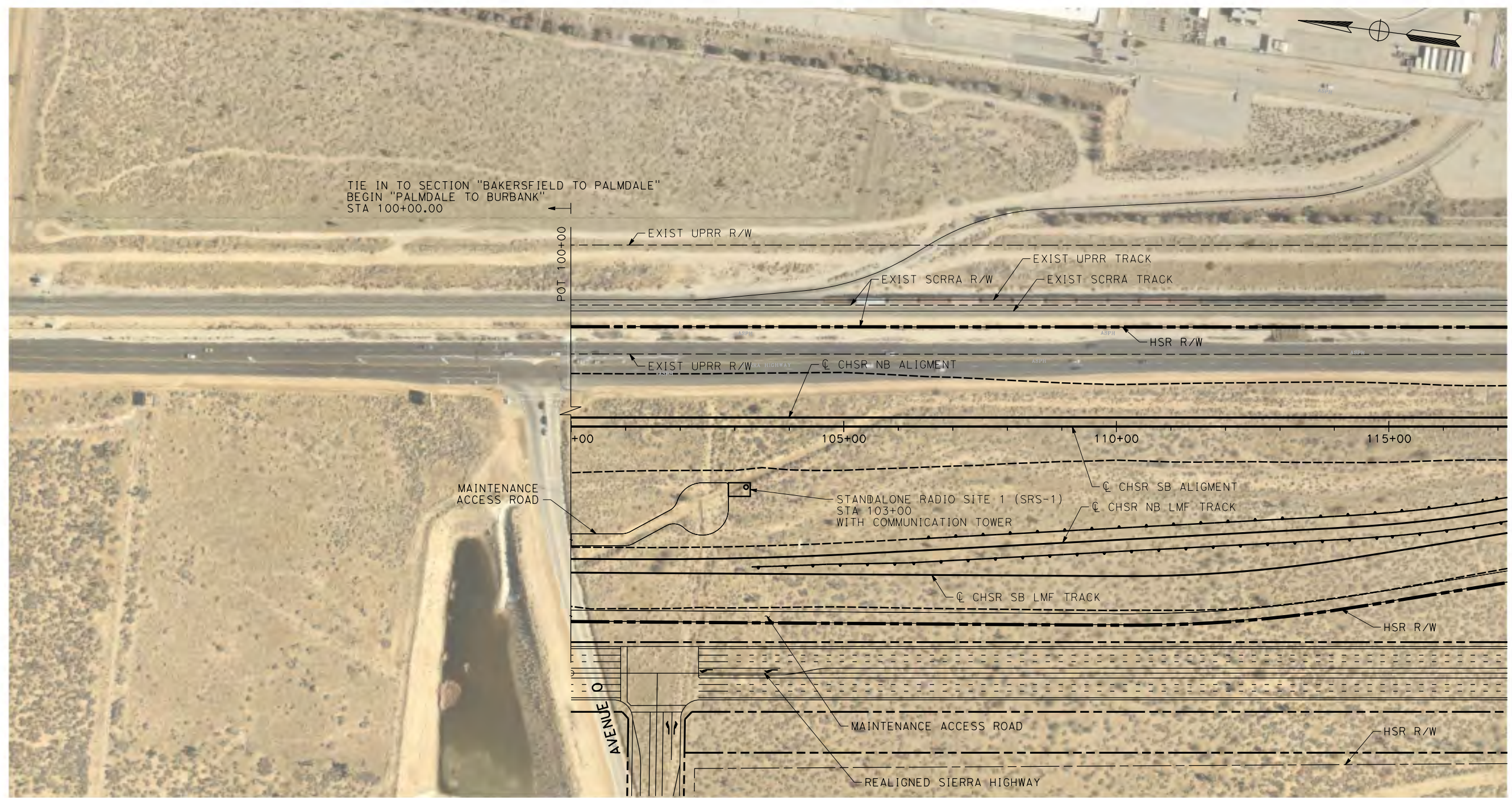
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SHEET NO.
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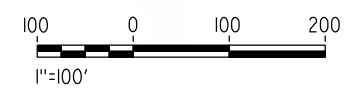
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PLAN



REV	DATE	BY	CHK	APP	DESCRIPTION

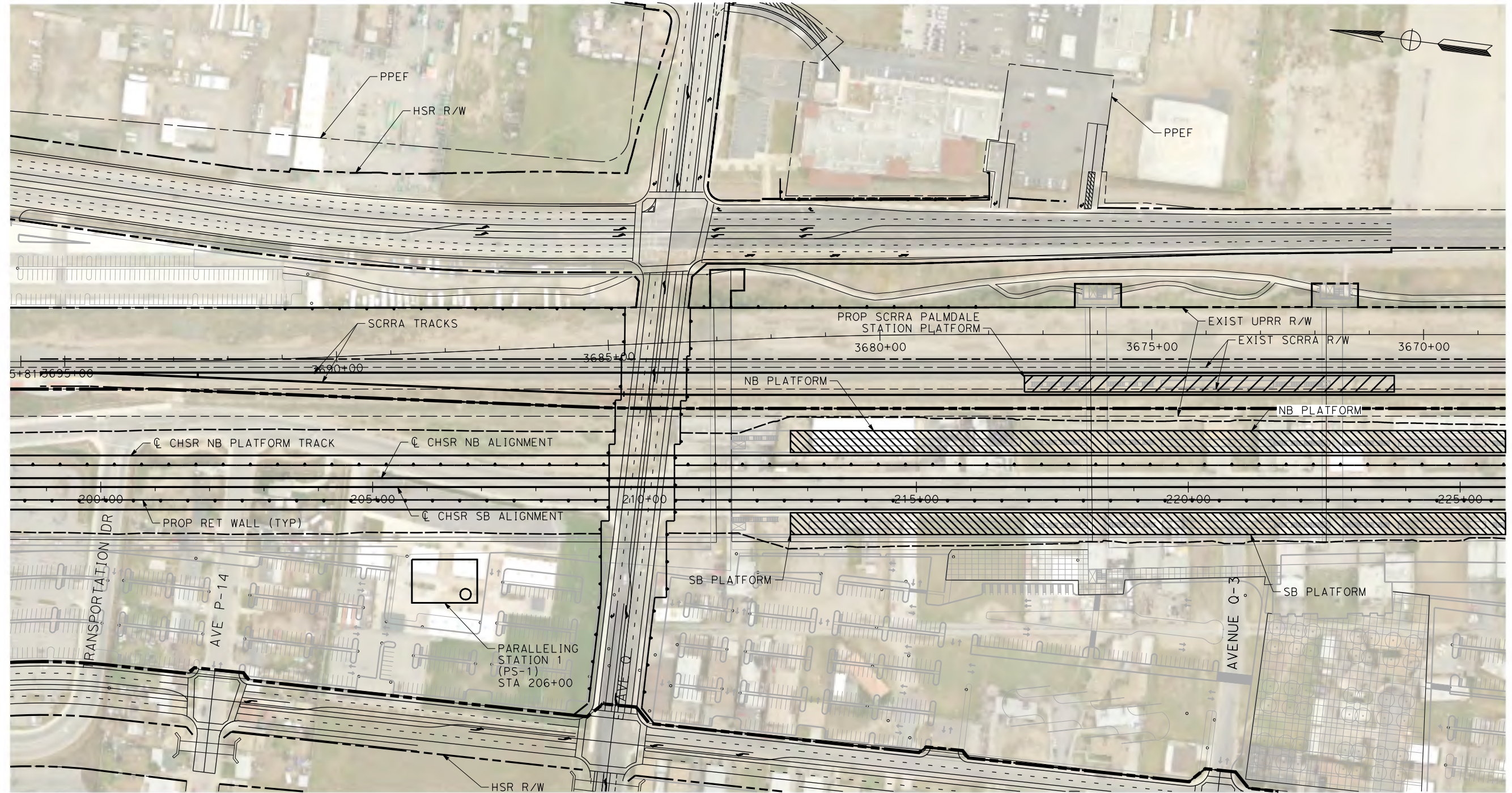
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R. RODRIGUEZ
DRAWN BY
F. VASQUEZ
CHECKED BY
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IN CHARGE
A. RELANO
DATE
03/01/2021

**PALMDALE
SUBSECTION**
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REV 02**
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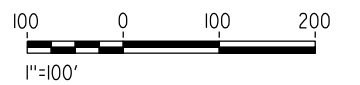


CALIFORNIA HIGH-SPEED RAIL PROJECT
PALMDALE TO BURBANK
PALMDALE SUBSECTION
TRAIN CONTROL SYSTEM
STANDALONE RADIO SITE 1

CONTRACT NO.
HSR14-42
DRAWING NO.
TC-F4005-PLM
SCALE
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SHEET NO.
213



PLAN



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DATE
03/01/2021

PALMDALE SUBSECTION
PEPD RECORD SET
REV 02
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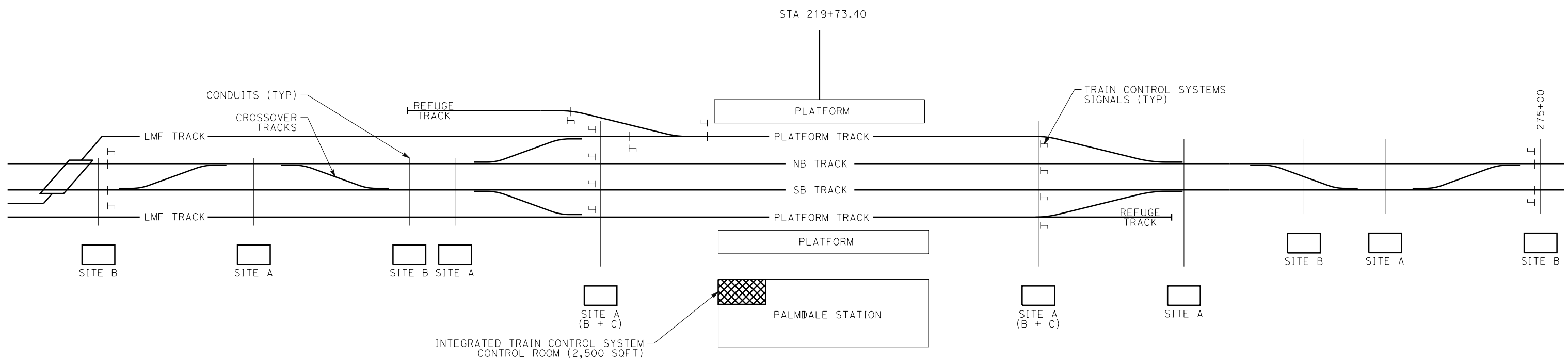
CALIFORNIA HIGH-SPEED RAIL PROJECT
PALMDALE TO BURBANK
PALMDALE SUBSECTION
TRACTION POWER FACILITIES
PARALLELING STATION 1

CONTRACT NO.
HSR14-42
DRAWING NO.
TP-04001-PLM
SCALE
AS SHOWN
SHEET NO.
214

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PALMDALE STATION

NOTE:

1. THIS SCHEMATIC DIAGRAM IS APPLICABLE TO ALL ALTERNATIVES.

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PALMDALE SUBSECTION
PEPD RECORD SET REV 02
NOT FOR CONSTRUCTION



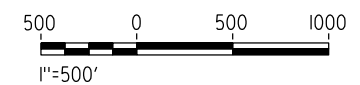
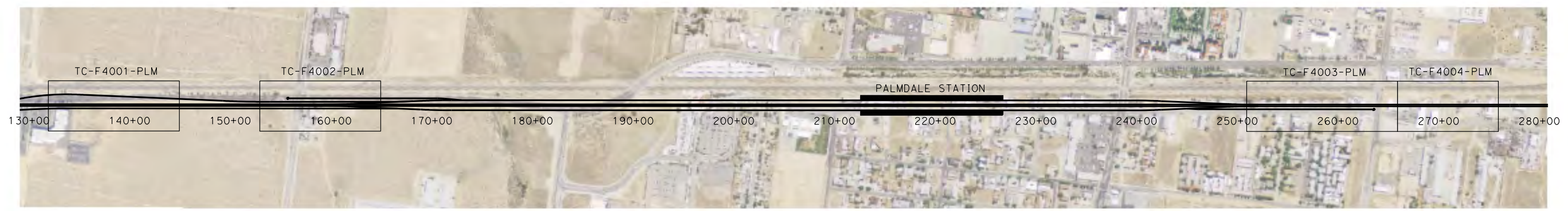
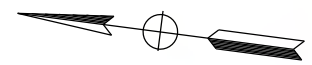
CALIFORNIA HIGH-SPEED RAIL PROJECT
PALMDALE TO BURBANK
TRAIN CONTROL SYSTEM INTERLOCKING SITES PALMDALE STATION

CONTRACT NO.
HSR14-42
DRAWING NO.
TC-E6001
SCALE
NOT TO SCALE
SHEET NO.
215

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SUBSECTION**

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CALIFORNIA HIGH-SPEED RAIL PROJECT

PALMDALE TO BURBANK

PALMDALE SUBSECTION

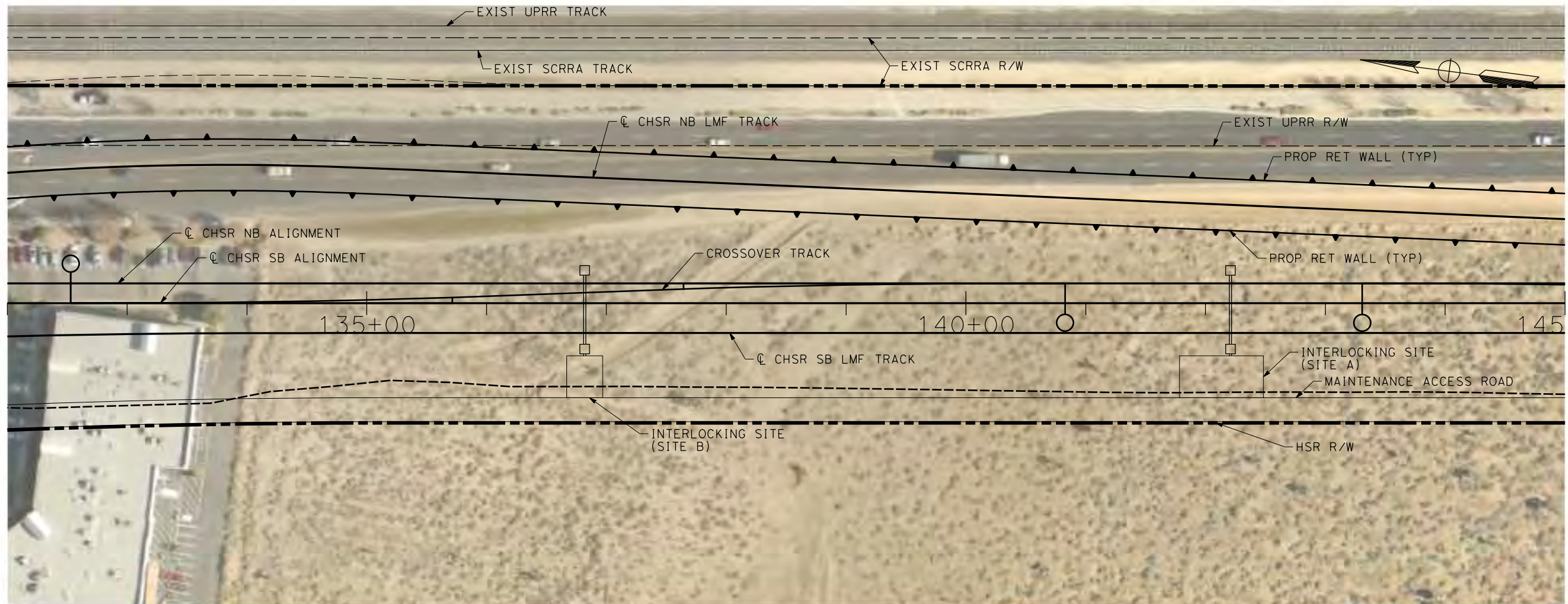
TRAIN CONTROL SYSTEM
KEY MAP

CONTRACT NO.
HSR14-42

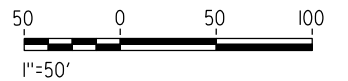
DRAWING NO.
TC-B6001-PLM

SCALE
AS SHOWN

SHEET NO.
216



PLAN



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CALIFORNIA HIGH-SPEED RAIL PROJECT

PALMDALE TO BURBANK

PALMDALE SUBSECTION

TRAIN CONTROL SYSTEM

INTERLOCKING SITES STA 132+00 TO STA 145+00

CONTRACT NO.
HSR14-42

DRAWING NO.
TC-F4001-PLM

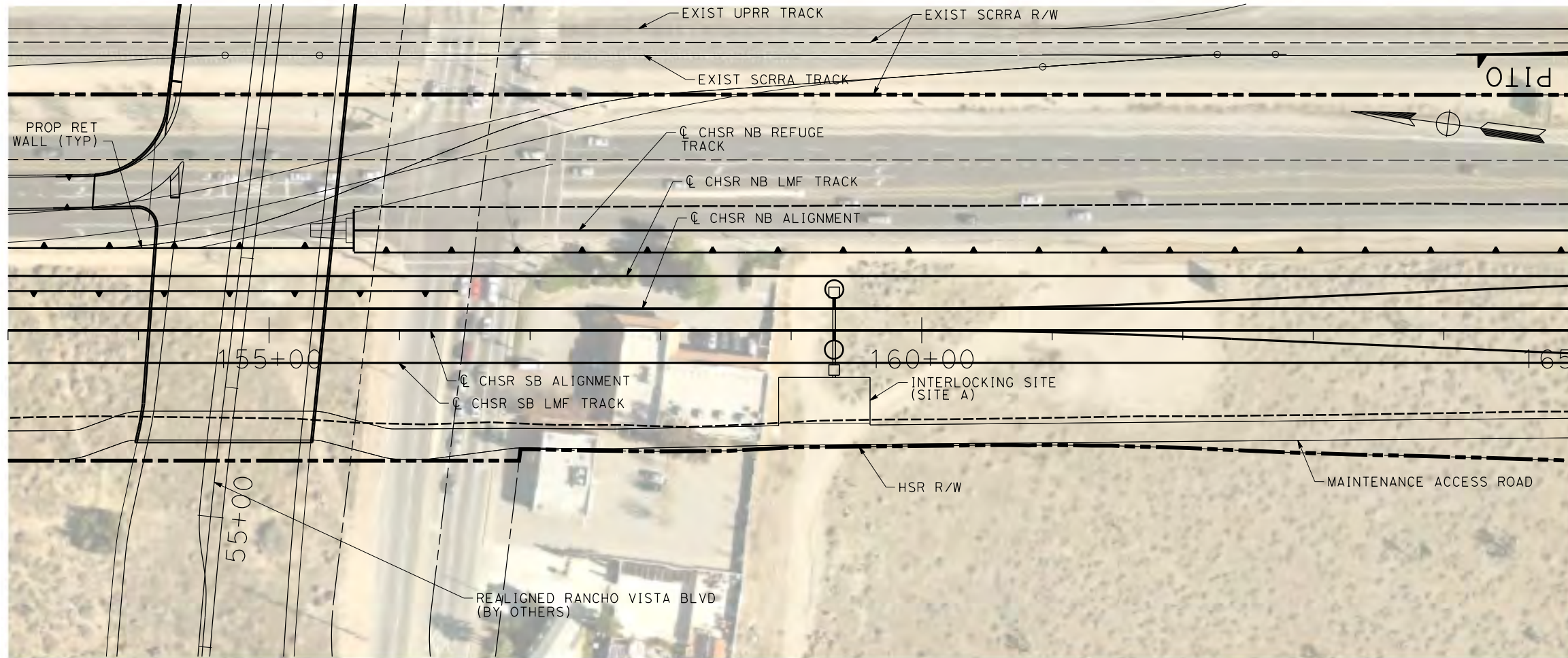
SCALE
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SHEET NO.
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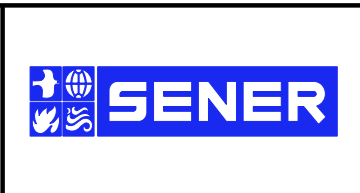
PLAN



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F. VASQUEZ
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A. RELANO
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CALIFORNIA HIGH-SPEED RAIL PROJECT
PALMDALE TO BURBANK
PALMDALE SUBSECTION
TRAIN CONTROL SYSTEM
INTERLOCKING SITES STA 153+00 TO STA 165+00

CONTRACT NO.
HSR14-42
DRAWING NO.
TC-F4002-PLM
SCALE
AS SHOWN
SHEET NO.
218

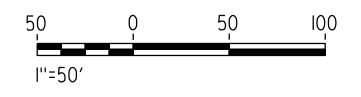
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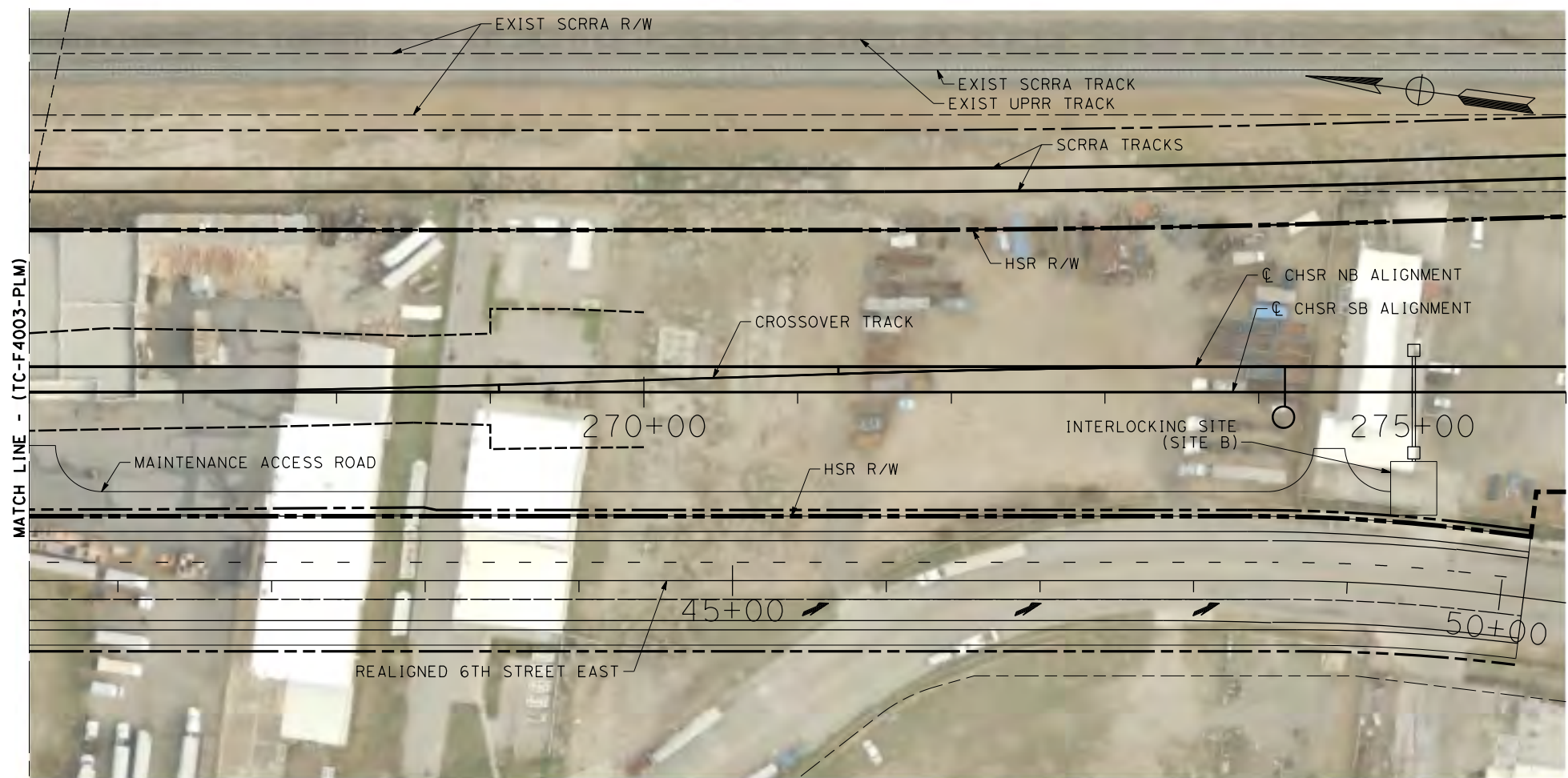
CALIFORNIA HIGH-SPEED RAIL PROJECT
PALMDALE TO BURBANK
PALMDALE SUBSECTION
TRAIN CONTROL SYSTEM
INTERLOCKING SITES STA 251+00 TO STA 266+00

CONTRACT NO.
HSR14-42
DRAWING NO.
TC-F4003-PLM
SCALE
AS SHOWN
SHEET NO.
219

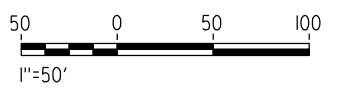
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DATE
03/01/2021

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SUBSECTION**
**PEPD RECORD SET
REV 02**
**NOT FOR
CONSTRUCTION**



CALIFORNIA HIGH-SPEED RAIL PROJECT
PALMDALE TO BURBANK
PALMDALE SUBSECTION
TRAIN CONTROL SYSTEM
INTERLOCKING SITES STA 266+00 TO STA 276+00

CONTRACT NO.
HSR14-42
DRAWING NO.
TC-F4004-PLM
SCALE
AS SHOWN
SHEET NO.
220