ORIGINAL

CONCEPTUAL ENGINEERING DRAWINGS

CALIFORNIA HIGH-SPEED RAIL PROJECT

Design-Build Contract for

CONSTRUCTION PACKAGE 4

Proposal | RFP Number: HSR 14-32

CALIFORNIA RAIL BUILDERS

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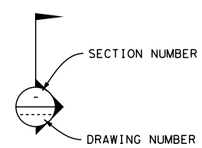
LEGEND



PROPOSED HST RIGHT OF WAY

PROPOSED HST TRACK CENTERLINE

TOE OF SLOPE / TOP OF CUT

1 LINE DATA

1 CURVE DATA

REMOVE BASE & SURFACING

- PRELIMINARY, SUBJECT TO CHANGE DURING DETAIL DESIGN.

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CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA RAIL BUILDERS

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD

INDEX OF DRAWINGS

CONTRACT NO.

DRAWING NO. 2.00

SCALE NO SCALE

SHEET NO. 1 OF 1

PLAN AND PROFILE

PLAN AND PROFILE

CALIFORNIA
HIGH-SPEED RAIL PROJECT

Design-Build Contract for
CONSTRUCTION PACKAGE 4

Proposals | RFP Number: HSR 14-32

CALIFORNIA RAIL BUILDERS

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- PRELIMINARY, SUBJECT TO CHANGE DURING DETAIL DESIGN.

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CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA RAIL BUILDERS

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD

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PLAN AND PROFILE

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- PRELIMINARY, SUBJECT TO CHANGE DURING DETAIL DESIGN.

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CALIFORNIA RAIL BUILDERS

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD

INDEX OF DRAWINGS
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FRESNO TO BAKERSFIELD

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PLAN AND PROFILE

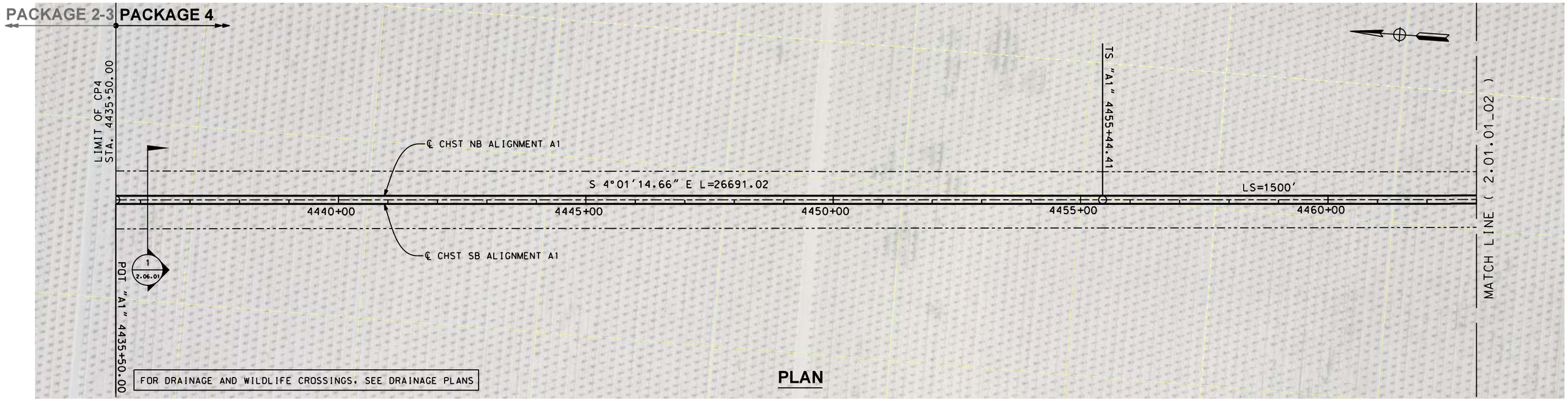
HIGH-SPEED RAIL TRACK

CALIFORNIA
HIGH-SPEED RAIL PROJECT

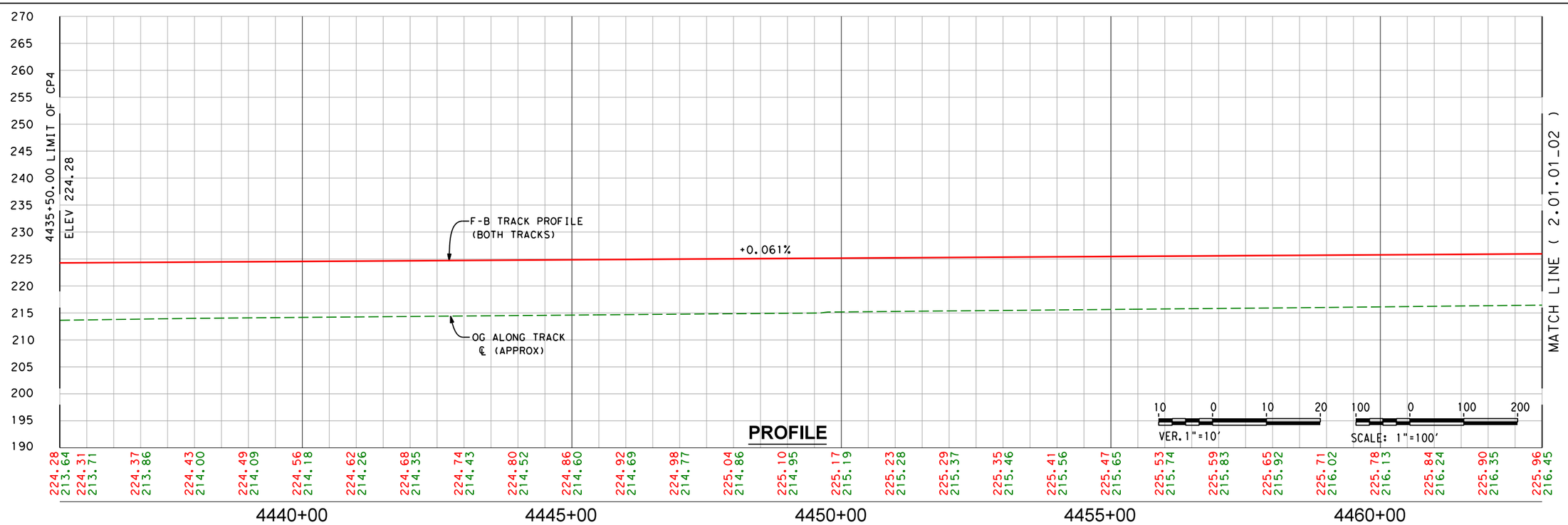
Design-Build Contract for
CONSTRUCTION PACKAGE 4

Proposal | RFP Number: HSR 14-32

CALIFORNIA RAIL BUILDERS



PLAN



PROFILE

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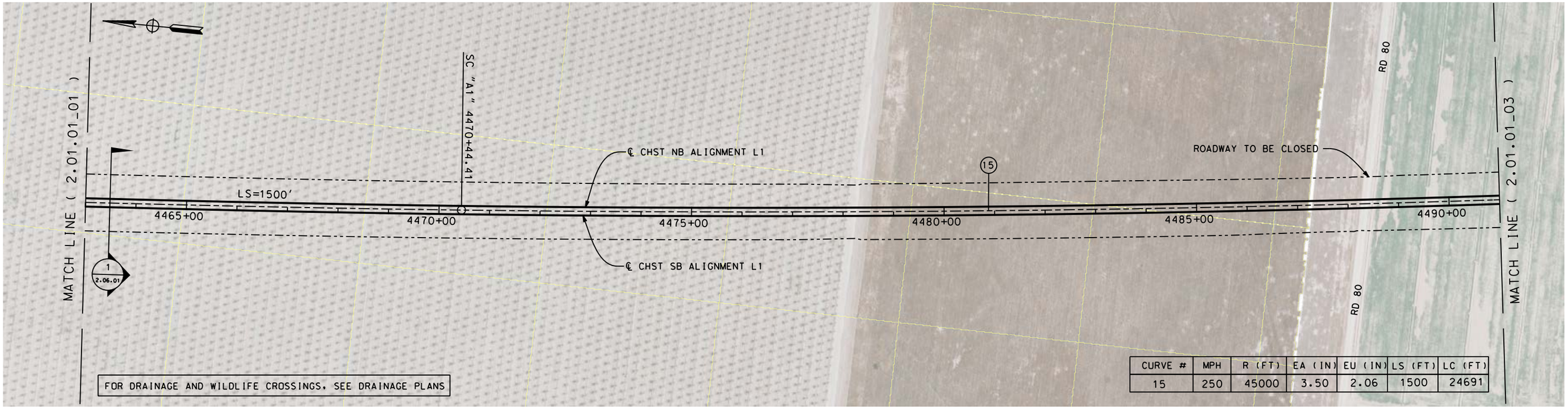
FRESNO TO BAKERSFIELD
ALLENSWORTH BYPASS SUBSECTION
ALIGNMENT A1
STA. 4435+50 TO 4463+00
PLAN AND PROFILE

CONTRACT NO.
DRAWING NO. 2.01.01_01
SCALE AS SHOWN
SHEET NO. 1 OF 40



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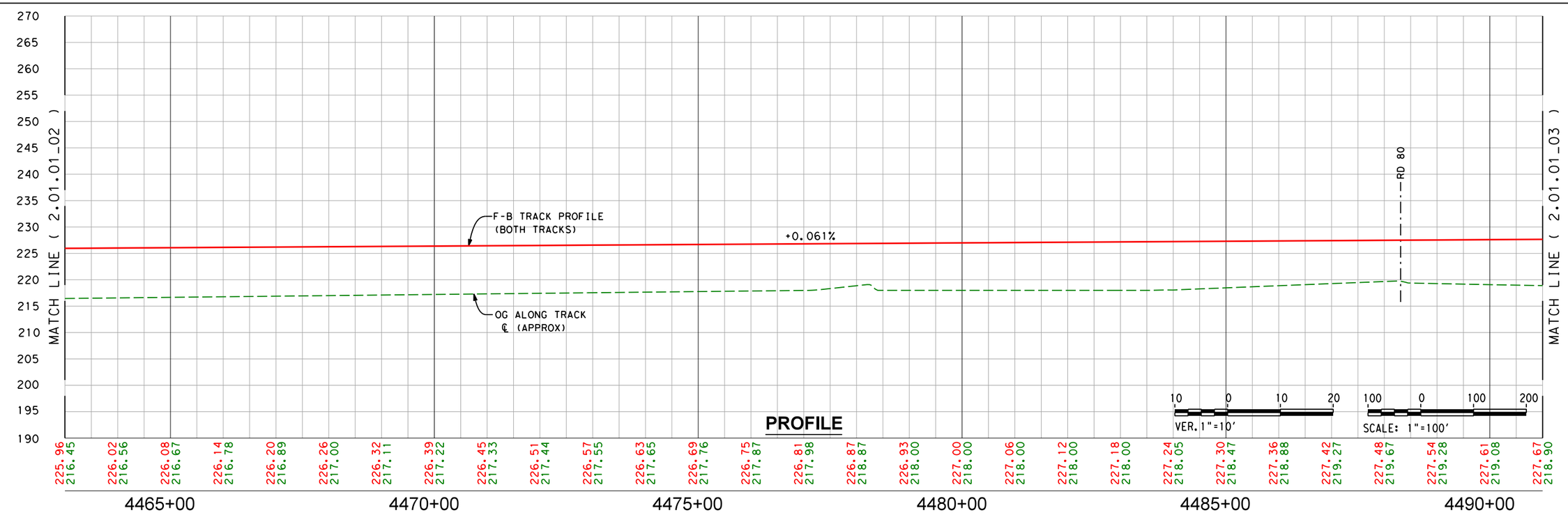

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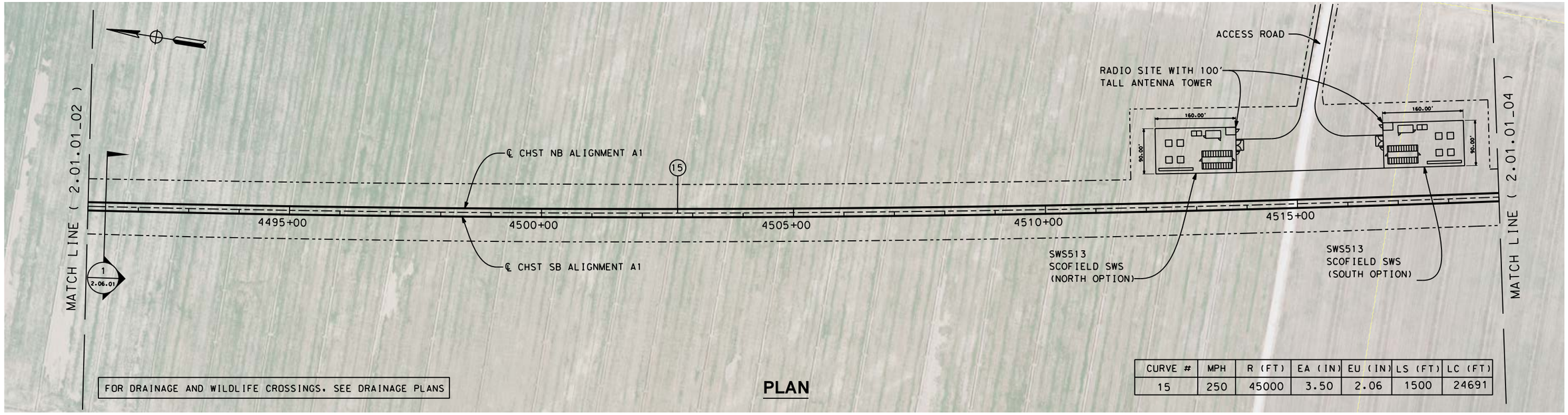
FRESNO TO BAKERSFIELD
ALLENSWORTH BYPASS SUBSECTION
ALIGNMENT A1
STA. 4463+00 TO 4491+00
PLAN AND PROFILE

CONTRACT NO.
DRAWING NO. 2.01.01_02
SCALE AS SHOWN
SHEET NO. 2 OF 40



FOR DRAINAGE AND WILDLIFE CROSSINGS. SEE DRAINAGE PLANS

PLAN

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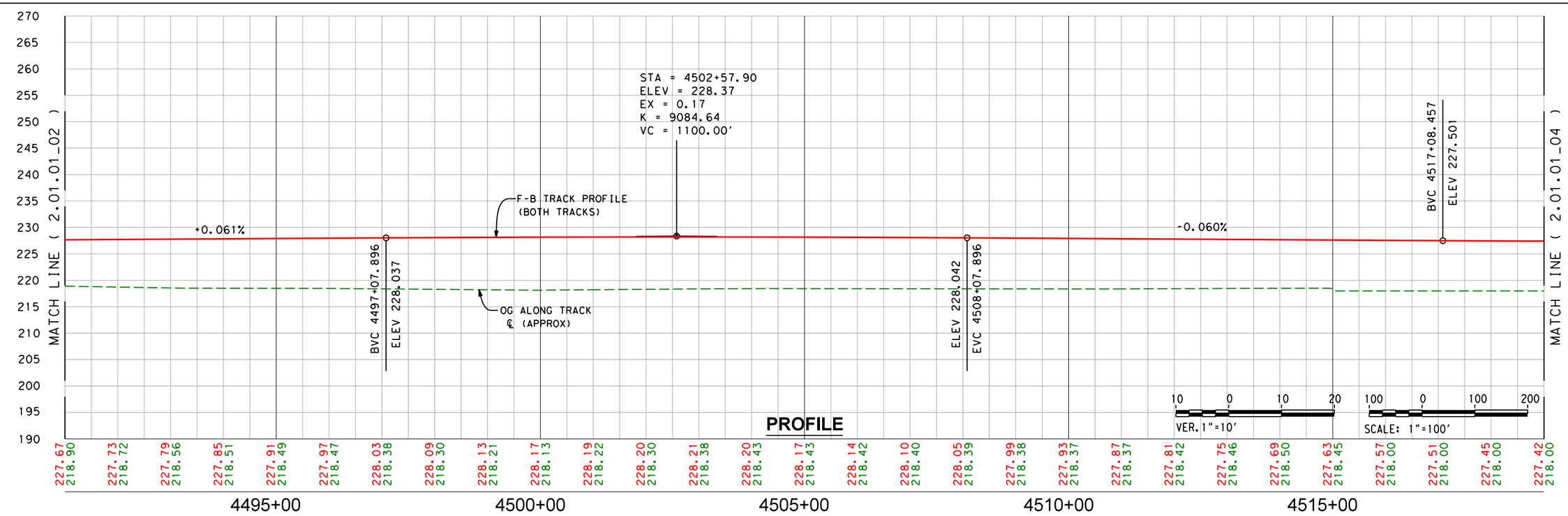

PROFILE

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FRESNO TO BAKERSFIELD
ALLENSWORTH BYPASS SUBSECTION
ALIGNMENT A1
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PLAN AND PROFILE

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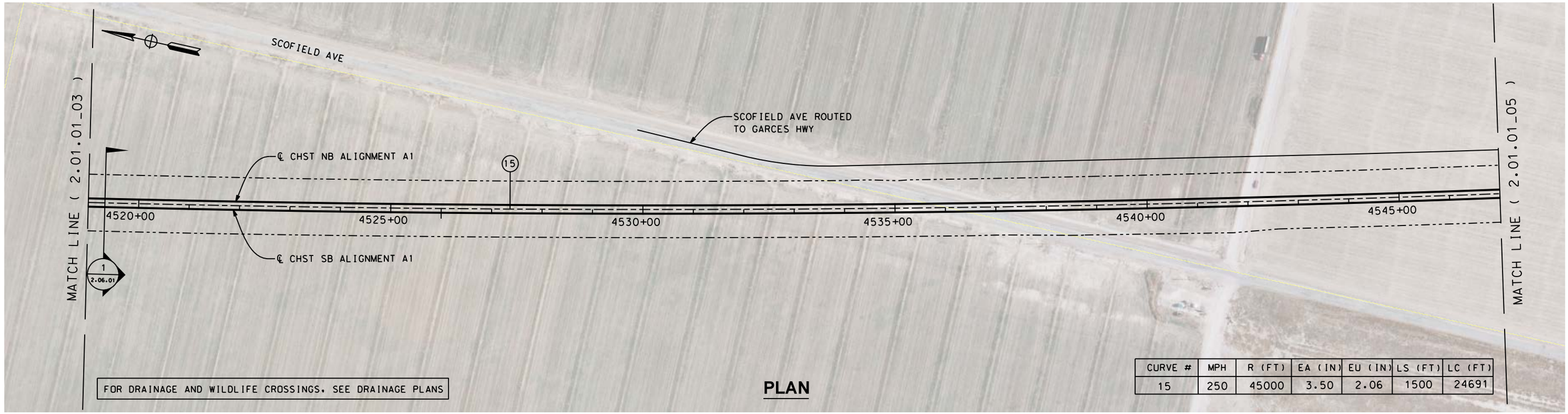
DRAWING NO. 2.01.01_03
SCALE AS SHOWN
SHEET NO. 3 OF 40



PLAN

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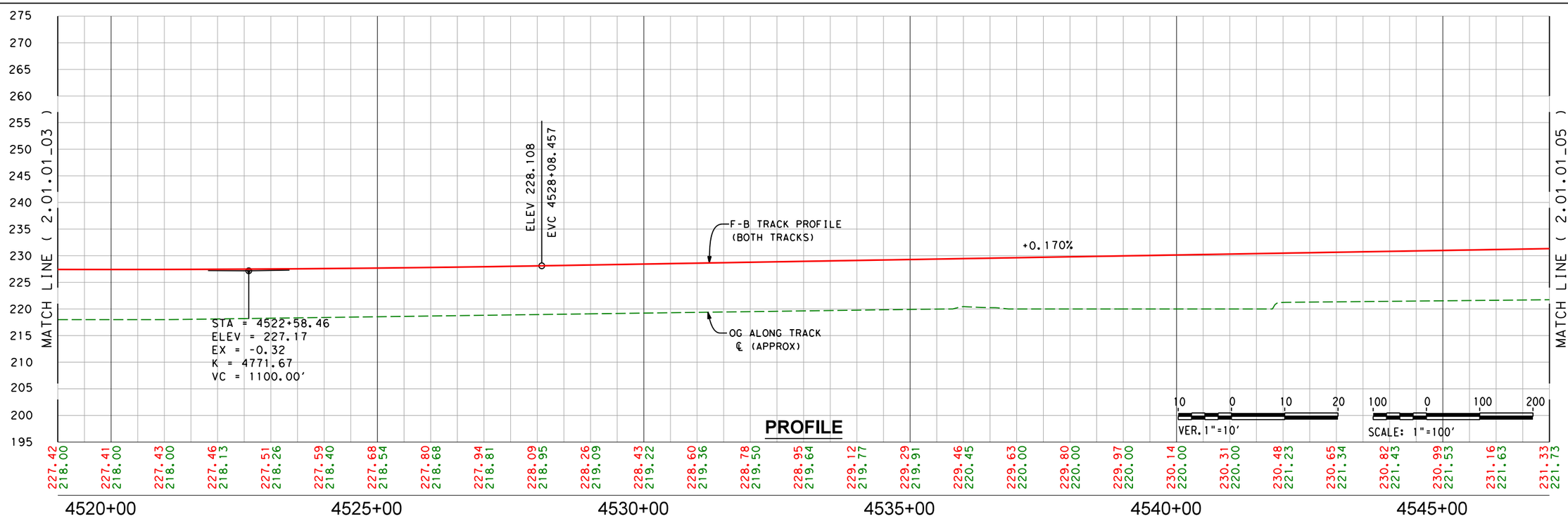

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FRESNO TO BAKERSFIELD
ALLENSWORTH BYPASS SUBSECTION
ALIGNMENT A1
STA. 4519+00 TO 4547+00
PLAN AND PROFILE

CONTRACT NO.
DRAWING NO. 2.01.01_04
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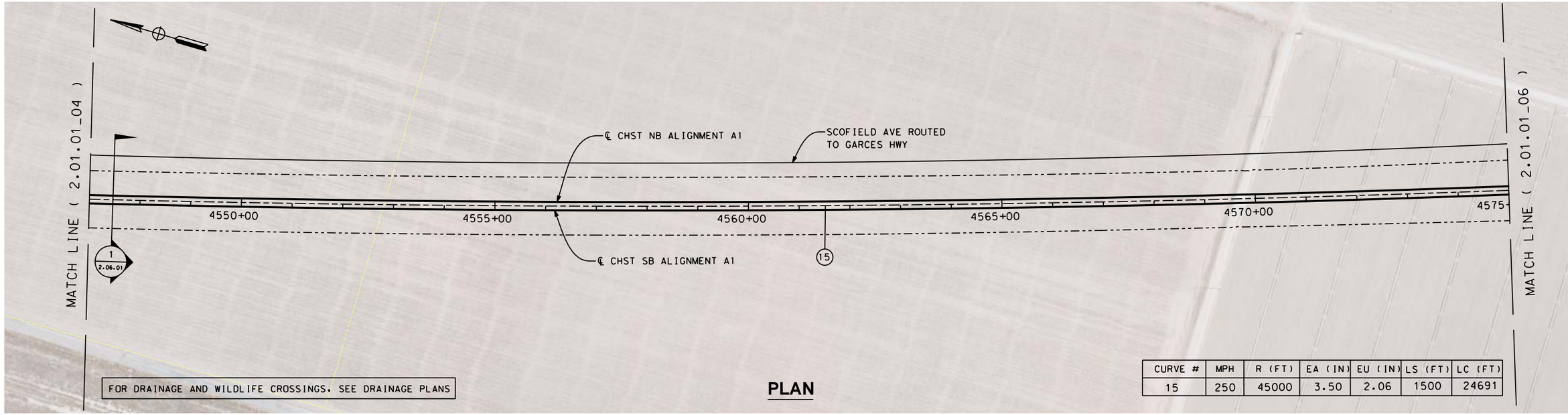
SHEET NO. 4 OF 40



FOR DRAINAGE AND WILDLIFE CROSSINGS, SEE DRAINAGE PLANS

PLAN

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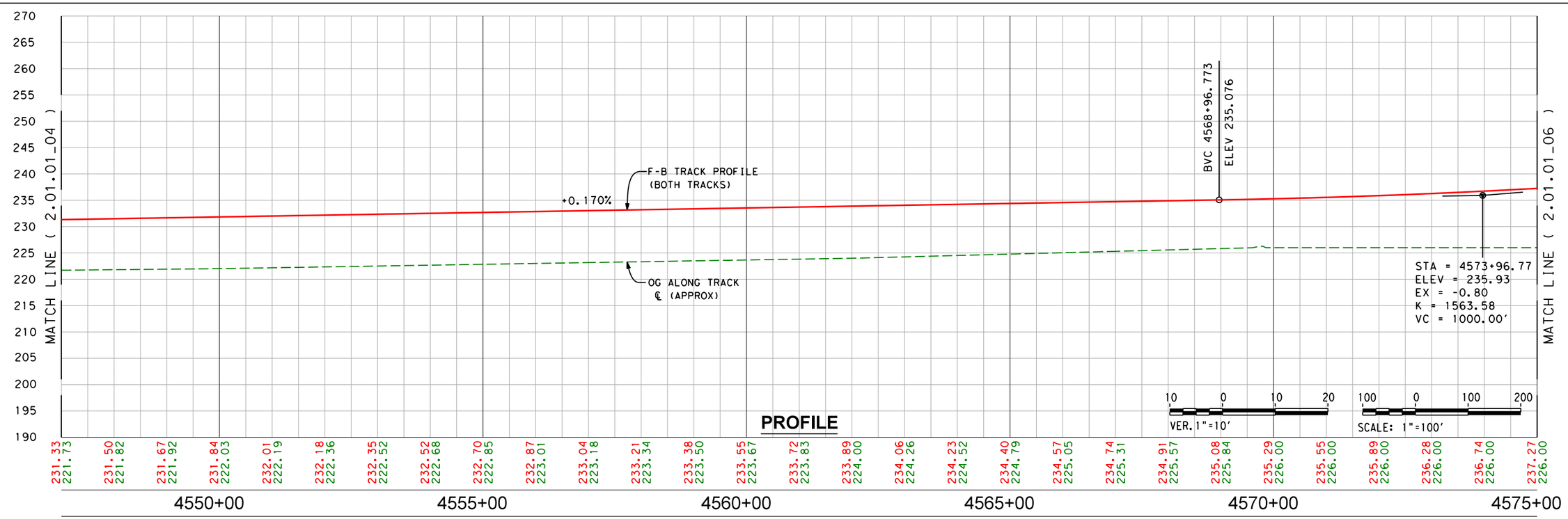

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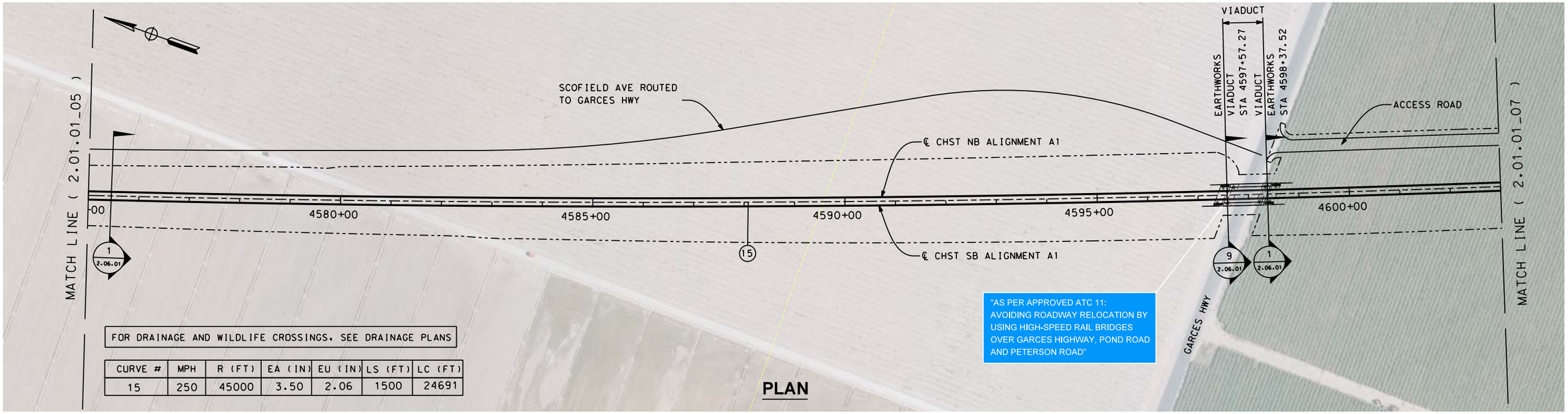
FRESNO TO BAKERSFIELD
ALLENSWORTH BYPASS SUBSECTION
ALIGNMENT A1
STA. 4547+00 TO 4575+00
PLAN AND PROFILE

CONTRACT NO.
DRAWING NO. 2.01.01_05
SCALE AS SHOWN
SHEET NO. 5 OF 40



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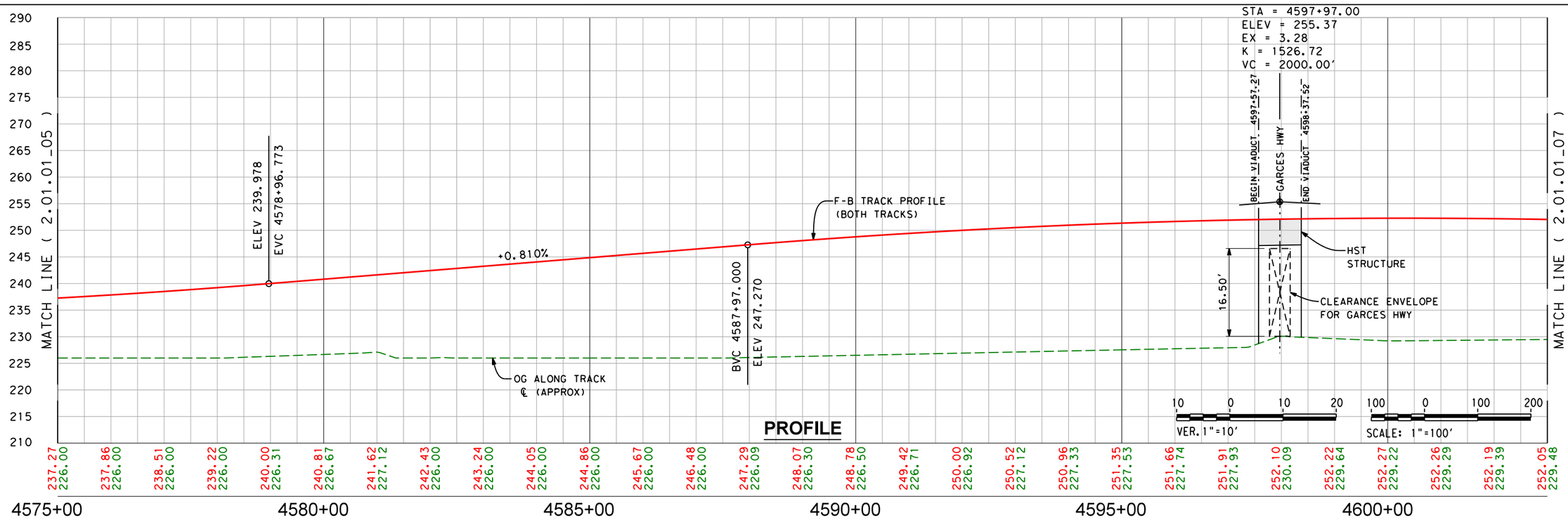
PLAN



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STA. 4575+00 TO 4603+00
PLAN AND PROFILE

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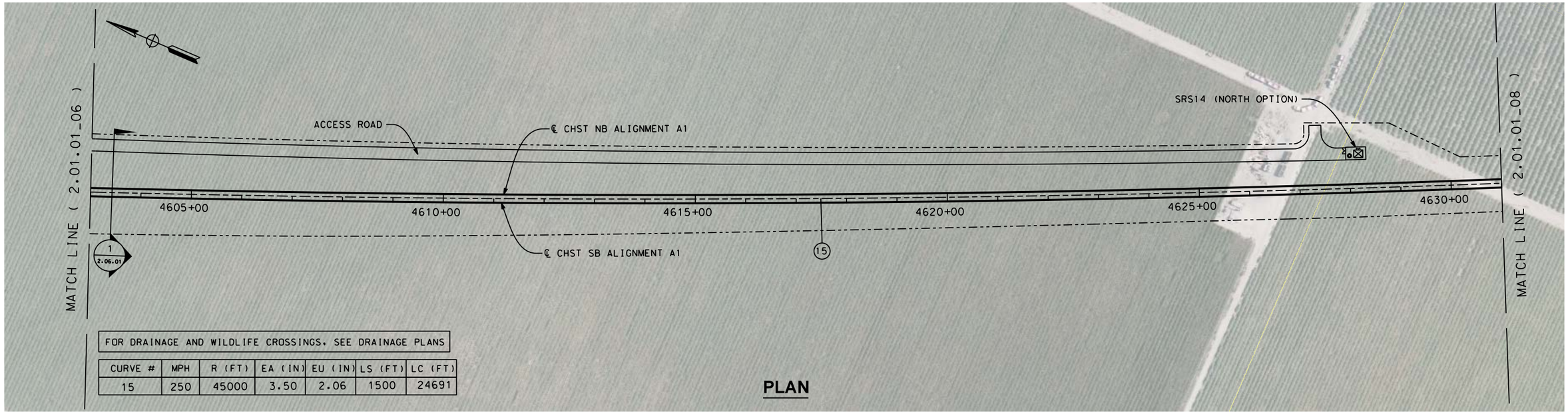
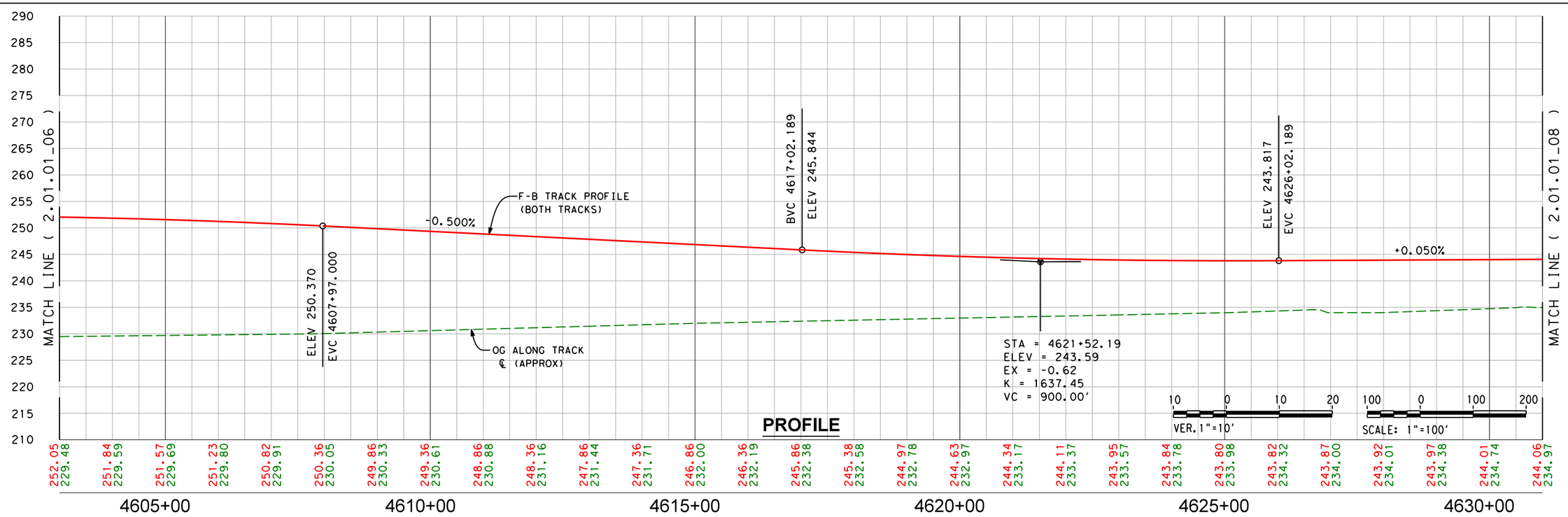
DRAWING NO. 2.01.01_06
SCALE AS SHOWN
SHEET NO. 6 OF 40



FOR DRAINAGE AND WILDLIFE CROSSINGS, SEE DRAINAGE PLANS

CURVE #	MPH	R (FT)	EA (IN)	EU (IN)	LS (FT)	LC (FT)
15	250	45000	3.50	2.06	1500	24691

PLAN



PROFILE

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
DRAWN BY
CHECKED BY
IN CHARGE
DATE

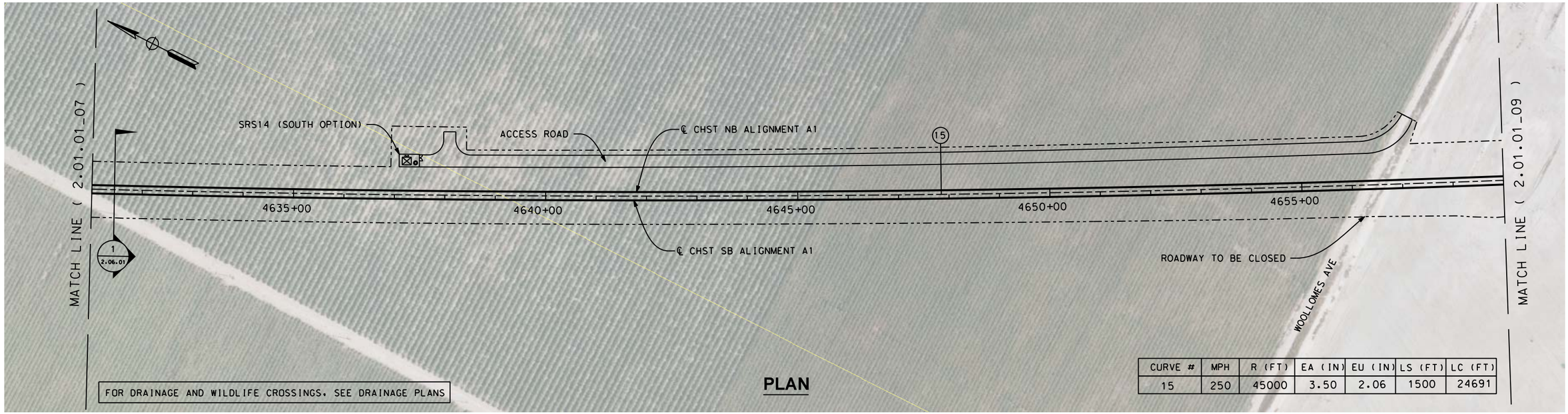
ONLY FOR BIDDING PURPOSES - NOT FOR CONSTRUCTION

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA RAIL BUILDERS

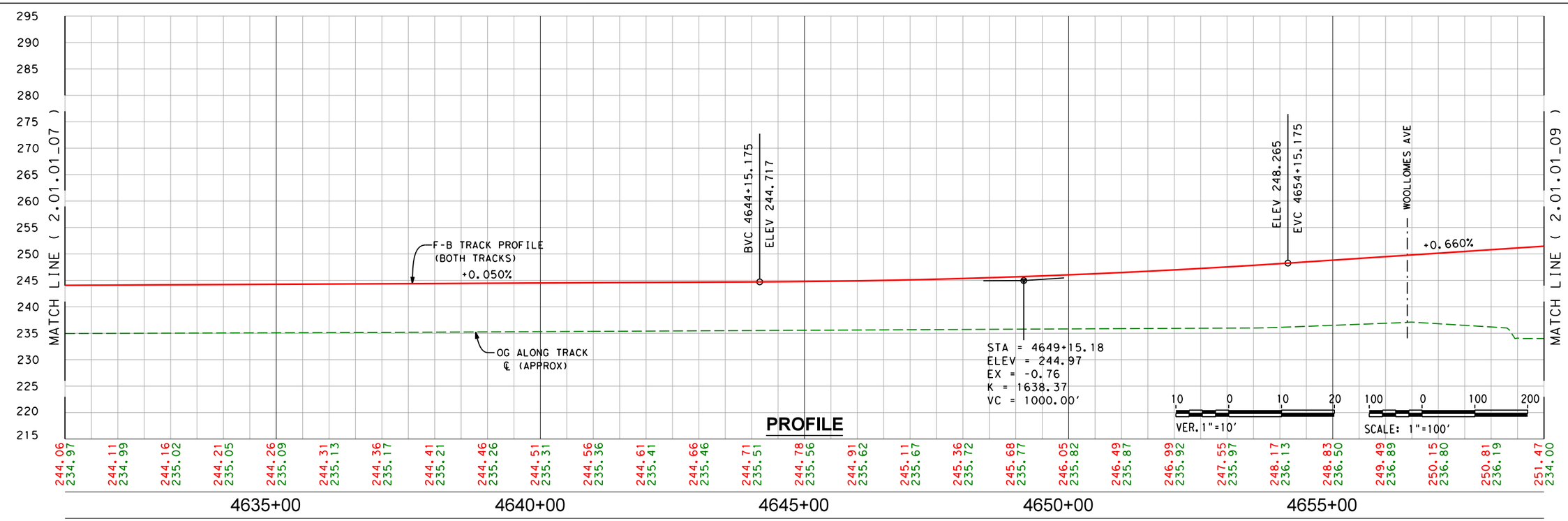
CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
ALLENSWORTH BYPASS SUBSECTION
ALIGNMENT A1
STA. 4603+00 TO 4631+00
PLAN AND PROFILE

CONTRACT NO.
DRAWING NO. 2.01.01_07
SCALE AS SHOWN
SHEET NO. 7 OF 40



CURVE #	MPH	R (FT)	EA (IN)	EU (IN)	LS (FT)	LC (FT)
15	250	45000	3.50	2.06	1500	24691

PLAN



PROFILE

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
DRAWN BY
CHECKED BY
IN CHARGE
DATE

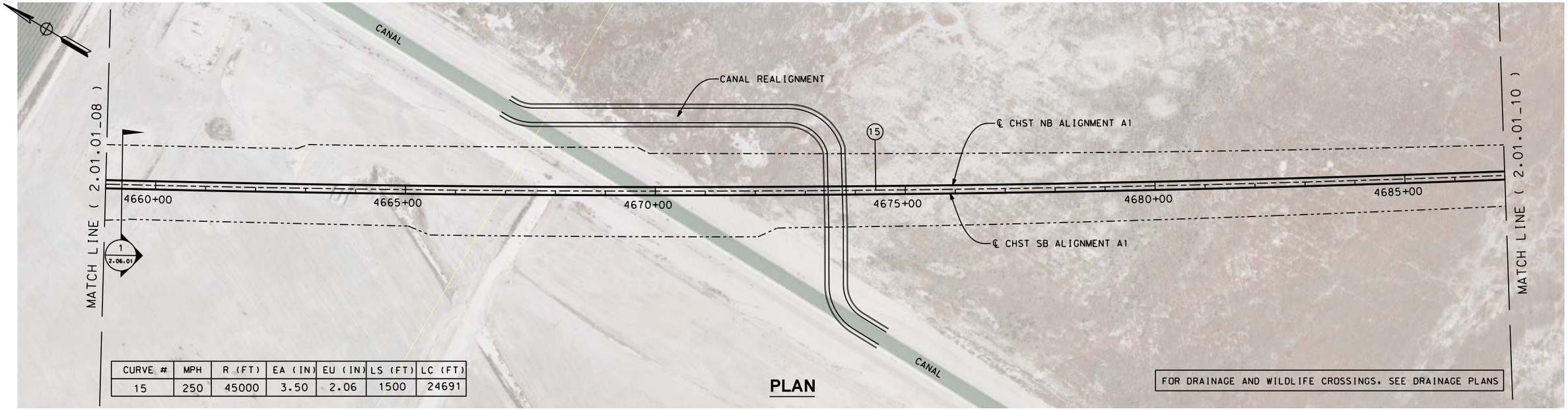
ONLY FOR BIDDING PURPOSES - NOT FOR CONSTRUCTION

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA RAIL BUILDERS

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
ALLENSWORTH BYPASS SUBSECTION
ALIGNMENT A1
STA. 4631+00 TO 4659+00
PLAN AND PROFILE

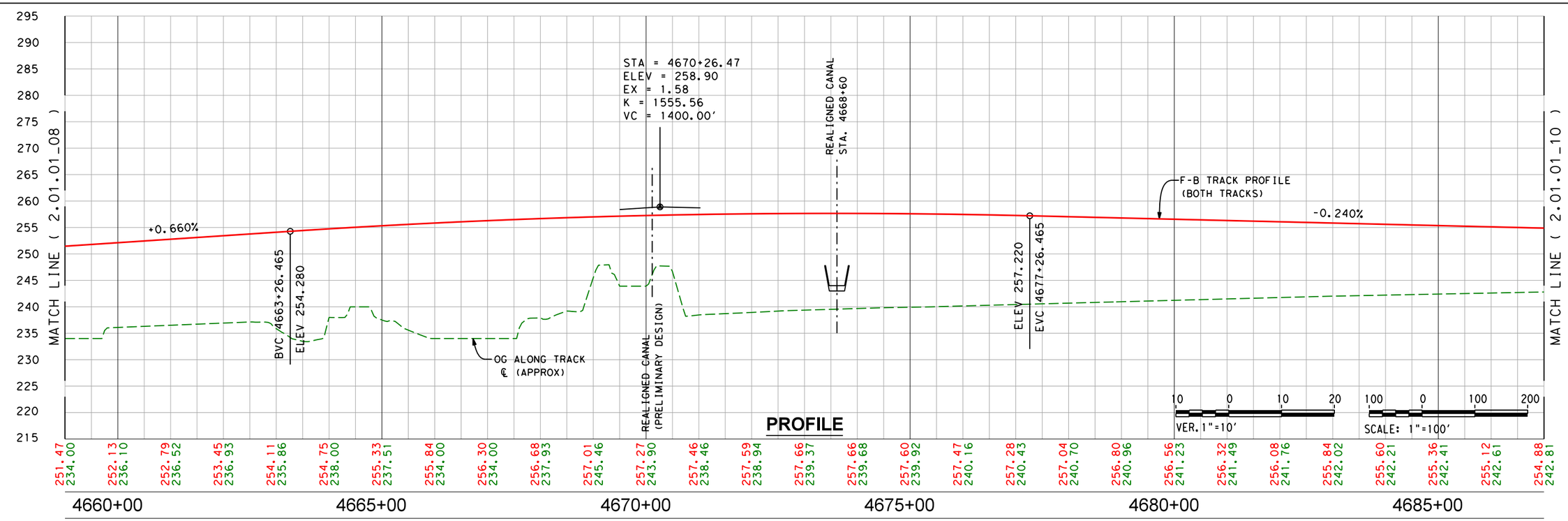
CONTRACT NO.
DRAWING NO. 2.01.01_08
SCALE AS SHOWN
SHEET NO. 8 OF 40



CURVE #	MPH	R (FT)	EA (IN)	EU (IN)	LS (FT)	LC (FT)
15	250	45000	3.50	2.06	1500	24691

PLAN

FOR DRAINAGE AND WILDLIFE CROSSINGS, SEE DRAINAGE PLANS



PROFILE

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
DRAWN BY
CHECKED BY
IN CHARGE
DATE

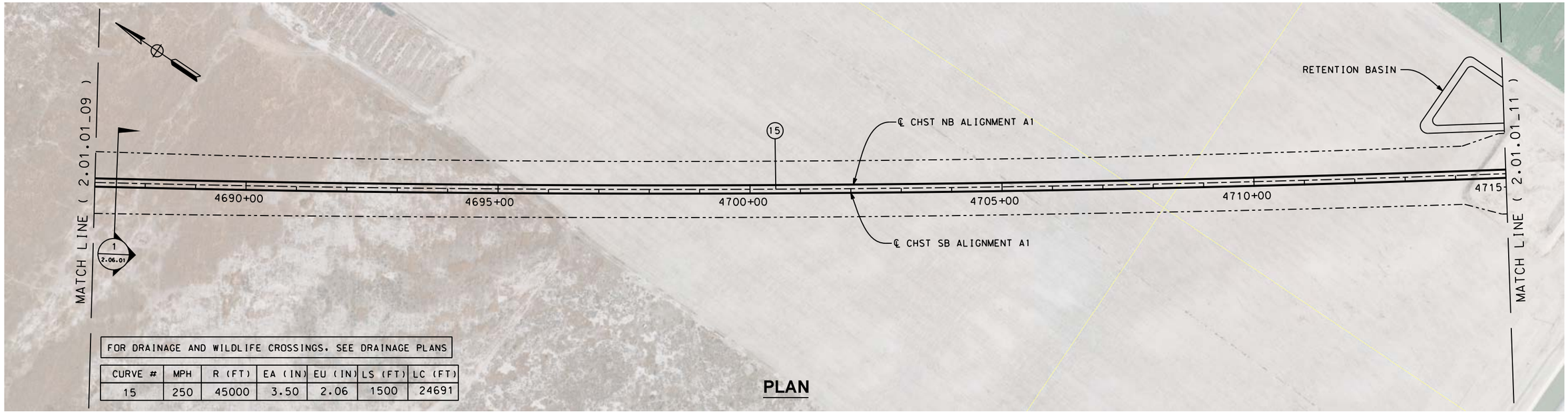
ONLY FOR BIDDING PURPOSES - NOT FOR CONSTRUCTION

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA RAIL BUILDERS

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
ALLENSWORTH BYPASS SUBSECTION
ALIGNMENT A1
STA. 4659+00 TO 4687+00
PLAN AND PROFILE

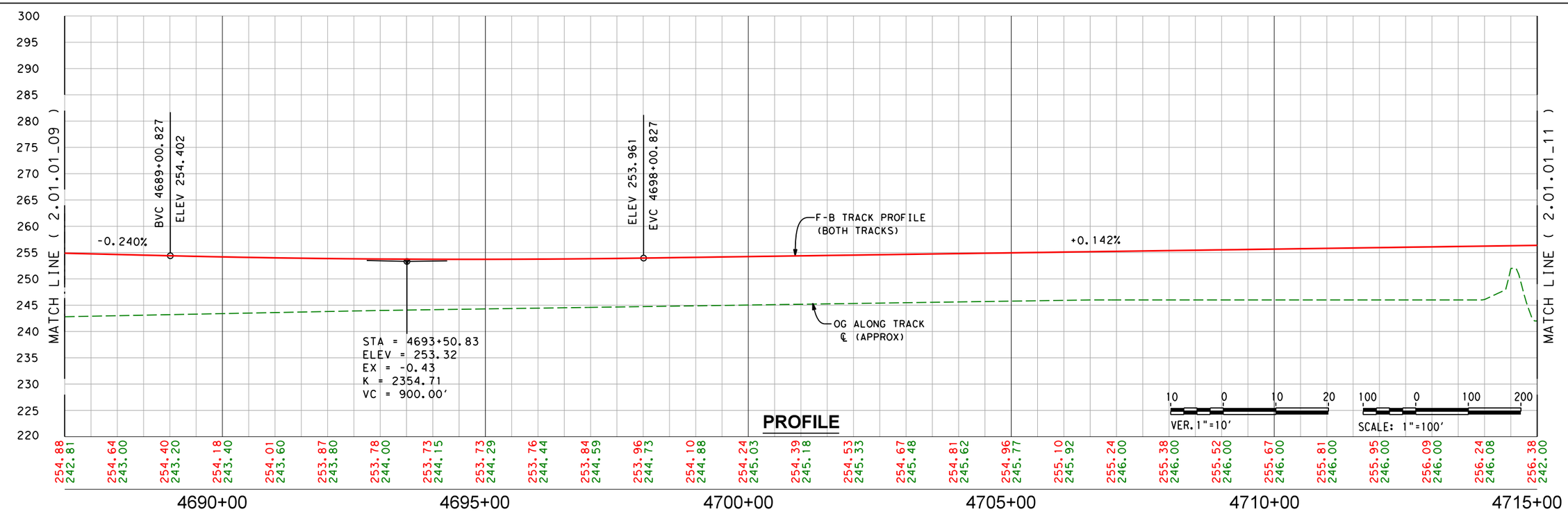
CONTRACT NO.
DRAWING NO. 2.01.01_09
SCALE AS SHOWN
SHEET NO. 9 OF 40



FOR DRAINAGE AND WILDLIFE CROSSINGS. SEE DRAINAGE PLANS

CURVE #	MPH	R (FT)	EA (IN)	EU (IN)	LS (FT)	LC (FT)
15	250	45000	3.50	2.06	1500	24691

PLAN



PROFILE

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
DRAWN BY
CHECKED BY
IN CHARGE
DATE

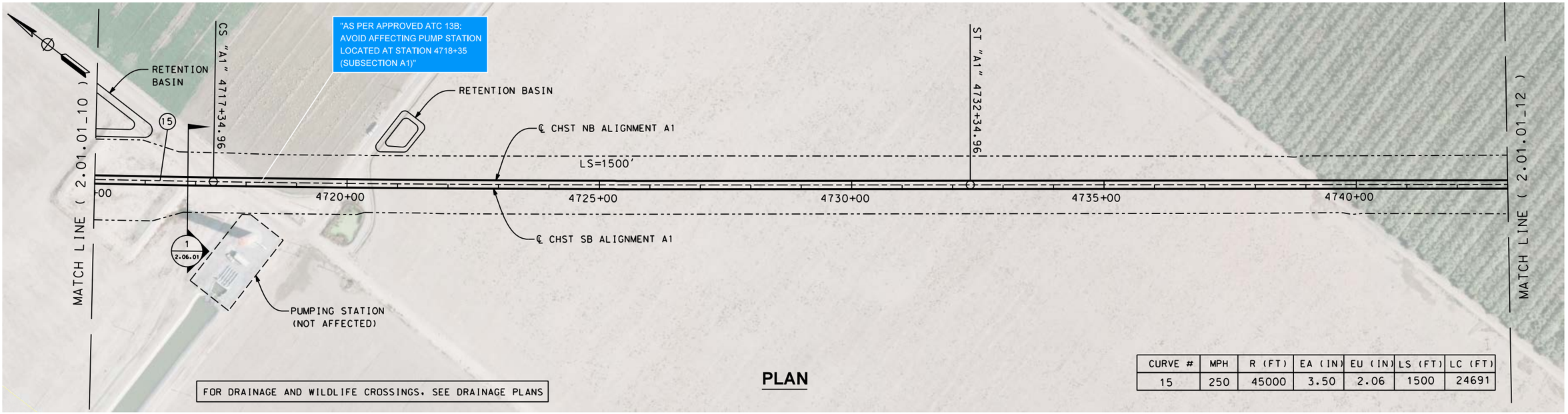
ONLY FOR BIDDING PURPOSES - NOT FOR CONSTRUCTION

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA RAIL BUILDERS

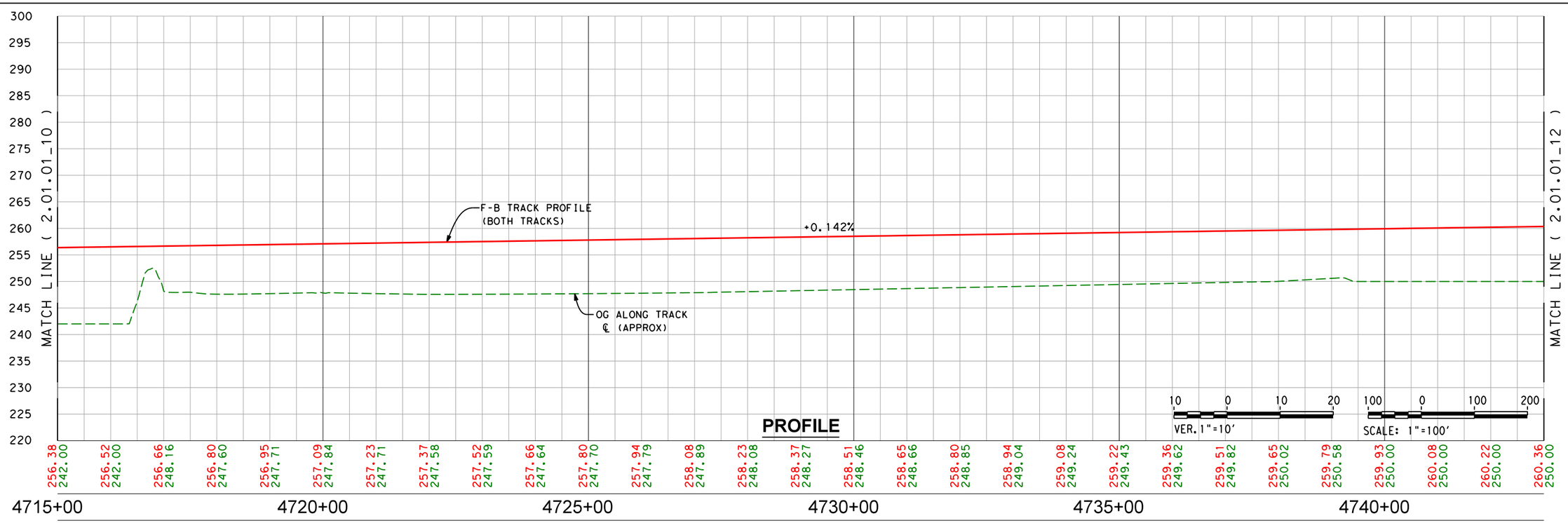
CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
ALLENSWORTH BYPASS SUBSECTION
ALIGNMENT A1
STA. 4687+00 TO 4715+00
PLAN AND PROFILE

CONTRACT NO.
DRAWING NO. 2.01.01_10
SCALE AS SHOWN
SHEET NO. 10 OF 40



PLAN

CURVE #	MPH	R (FT)	EA (IN)	EU (IN)	LS (FT)	LC (FT)
15	250	45000	3.50	2.06	1500	24691



PROFILE

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
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DATE

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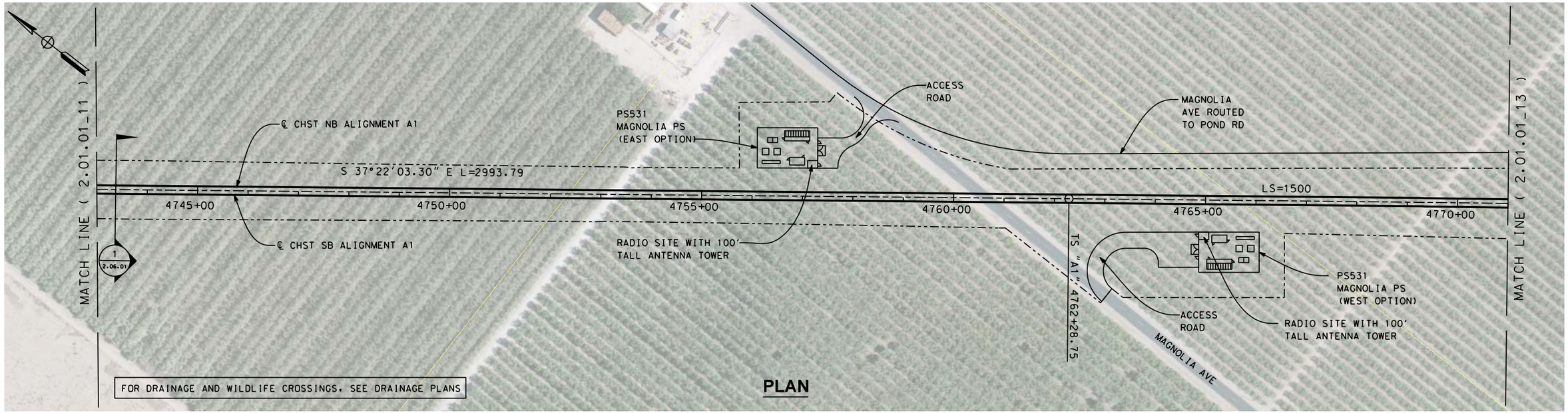
CALIFORNIA HIGH-SPEED RAIL AUTHORITY

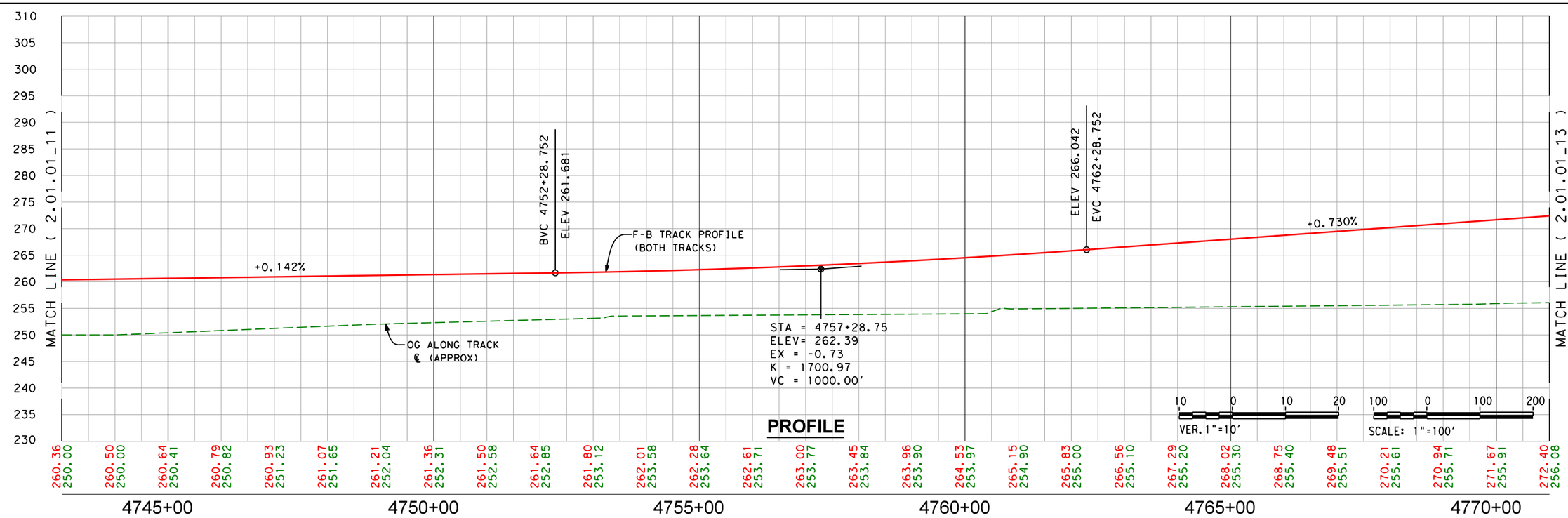
CALIFORNIA RAIL BUILDERS

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
ALLENSWORTH BYPASS SUBSECTION
ALIGNMENT A1
STA. 4715+00 TO 4743+00
PLAN AND PROFILE

CONTRACT NO.
DRAWING NO. 2.01.01_11
SCALE AS SHOWN
SHEET NO. 11 OF 40



PLAN



PROFILE

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
DRAWN BY
CHECKED BY
IN CHARGE
DATE

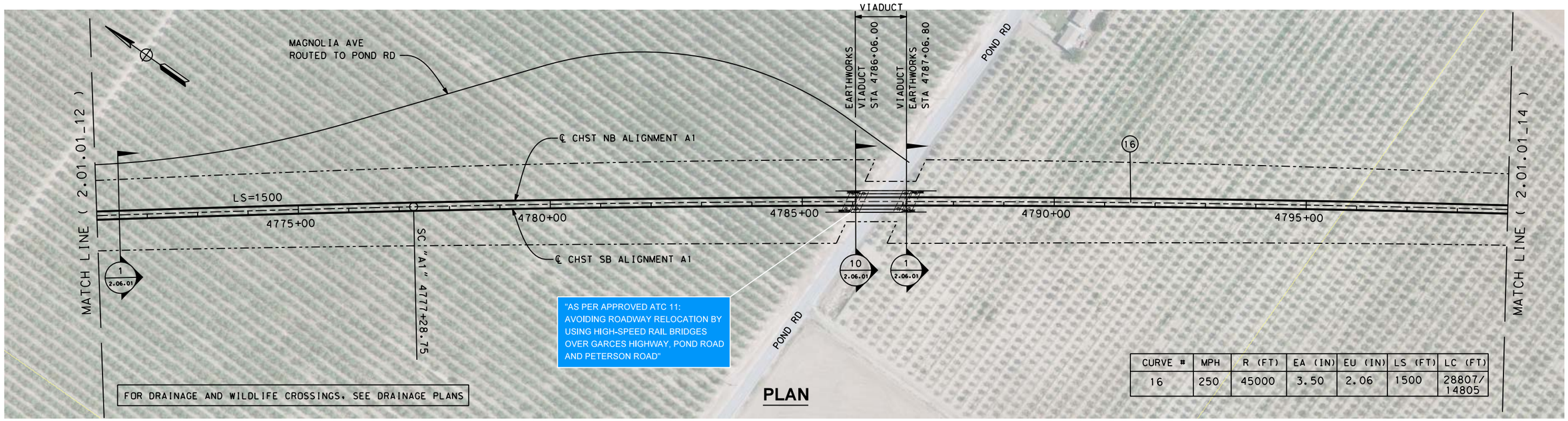
ONLY FOR BIDDING PURPOSES - NOT FOR CONSTRUCTION

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

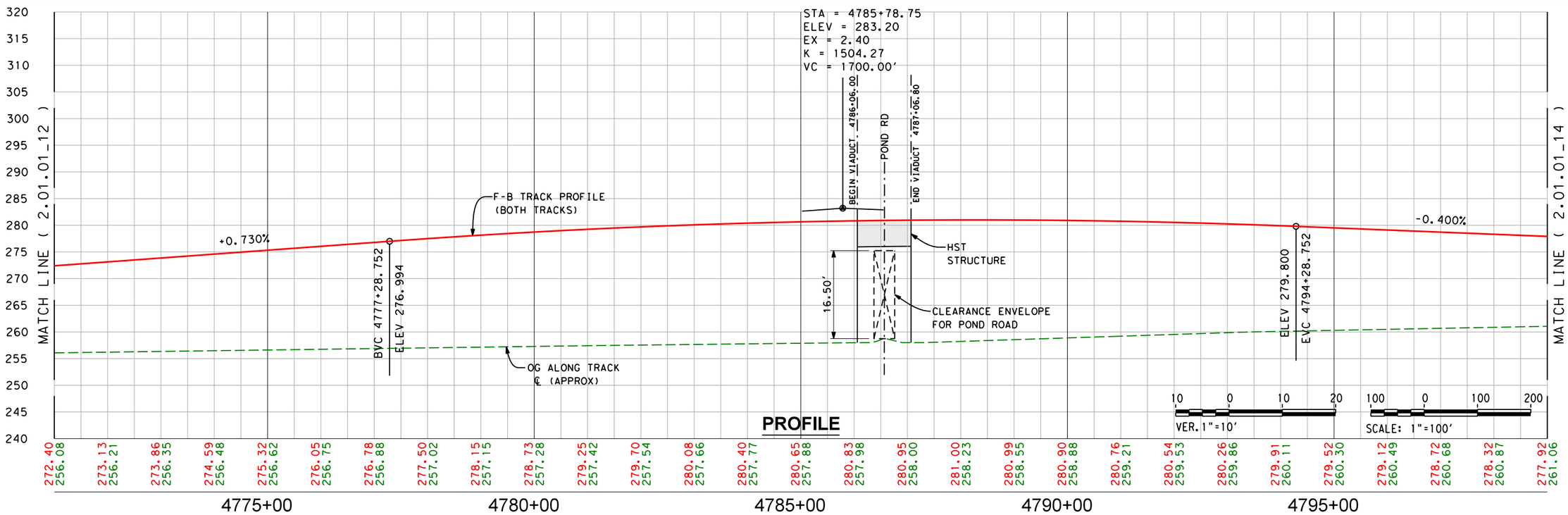
CALIFORNIA RAIL BUILDERS

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
ALLENSWORTH BYPASS SUBSECTION
ALIGNMENT A1
STA. 4743+00 TO 4771+00
PLAN AND PROFILE

CONTRACT NO.
DRAWING NO. 2.01.01_12
SCALE AS SHOWN
SHEET NO. 12 OF 40



CURVE #	MPH	R (FT)	EA (IN)	EU (IN)	LS (FT)	LC (FT)
16	250	45000	3.50	2.06	1500	28807/ 14805



REV	DATE	BY	CHK	APP	DESCRIPTION
					2.01_SHEET 12
					12 OF 40

DESIGNED BY
DRAWN BY
CHECKED BY
IN CHARGE
DATE

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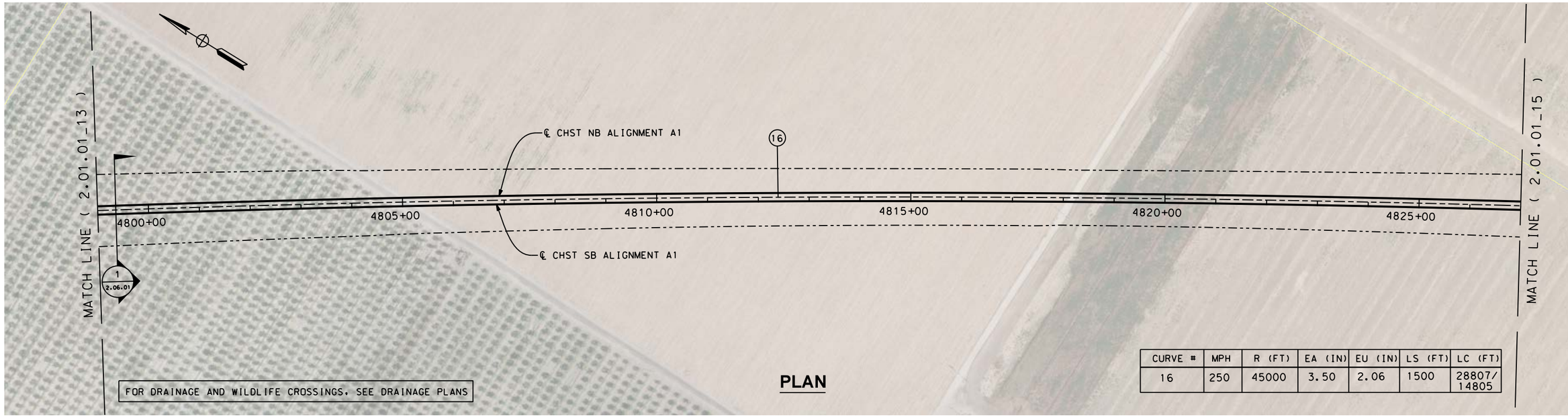
CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA RAIL BUILDERS

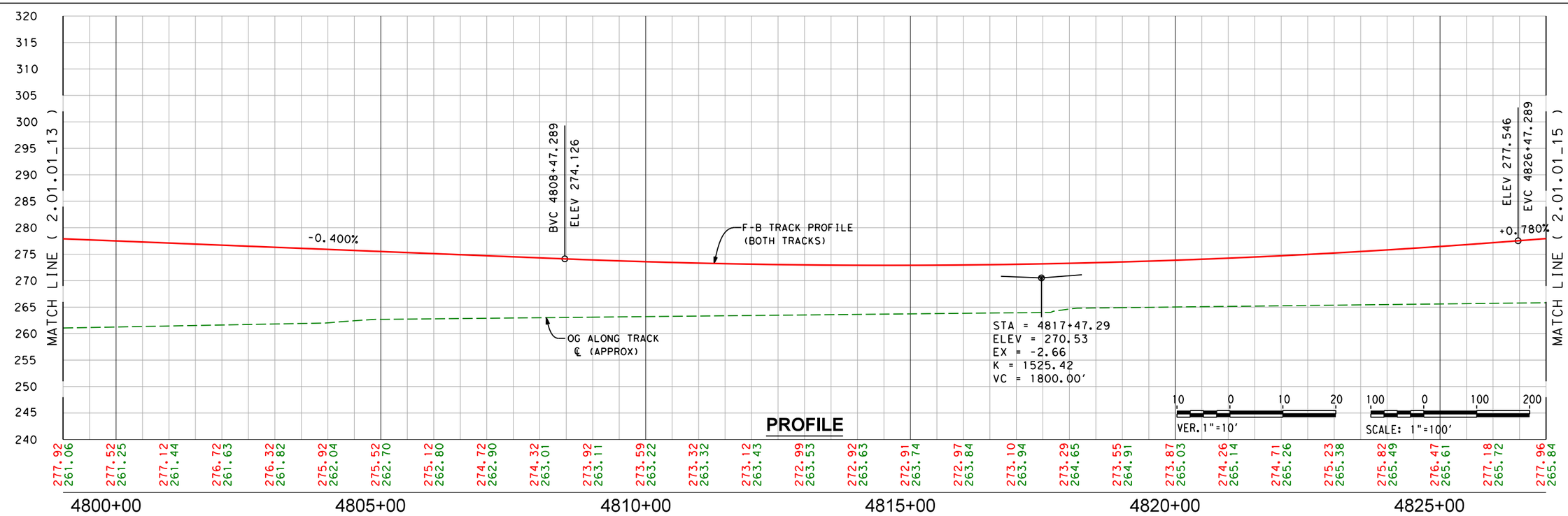
CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
ALLENSWORTH BYPASS SUBSECTION
ALIGNMENT A1
STA. 4771+00 TO 4799+00
PLAN AND PROFILE

CONTRACT NO.
DRAWING NO. 2.01.01_13
SCALE AS SHOWN
SHEET NO. 13 OF 40



PLAN

CURVE #	MPH	R (FT)	EA (IN)	EU (IN)	LS (FT)	LC (FT)
16	250	45000	3.50	2.06	1500	28807/ 14805



PROFILE

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
DRAWN BY
CHECKED BY
IN CHARGE
DATE

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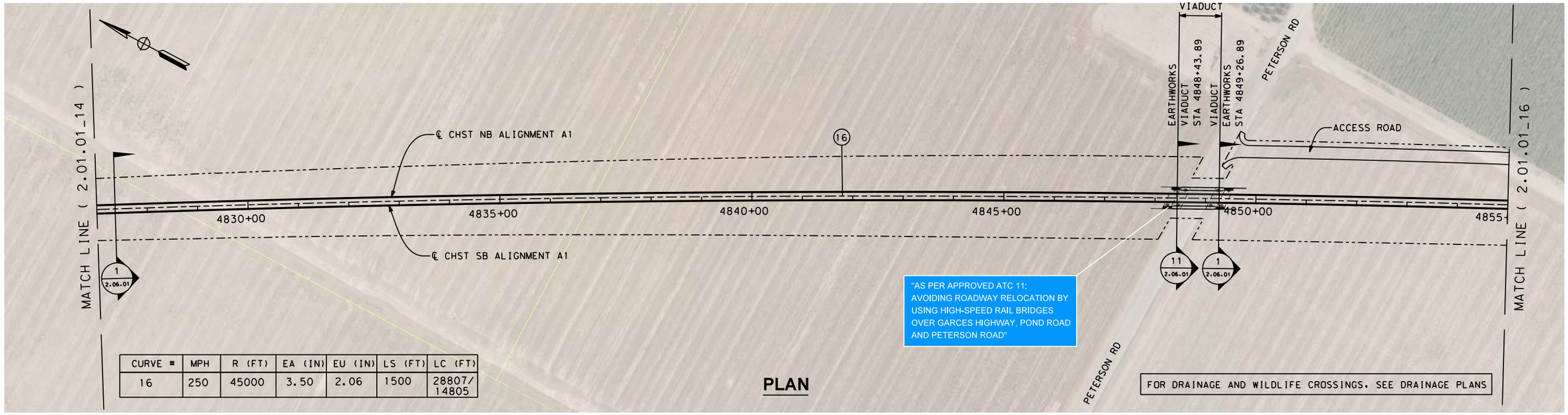
CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA RAIL BUILDERS

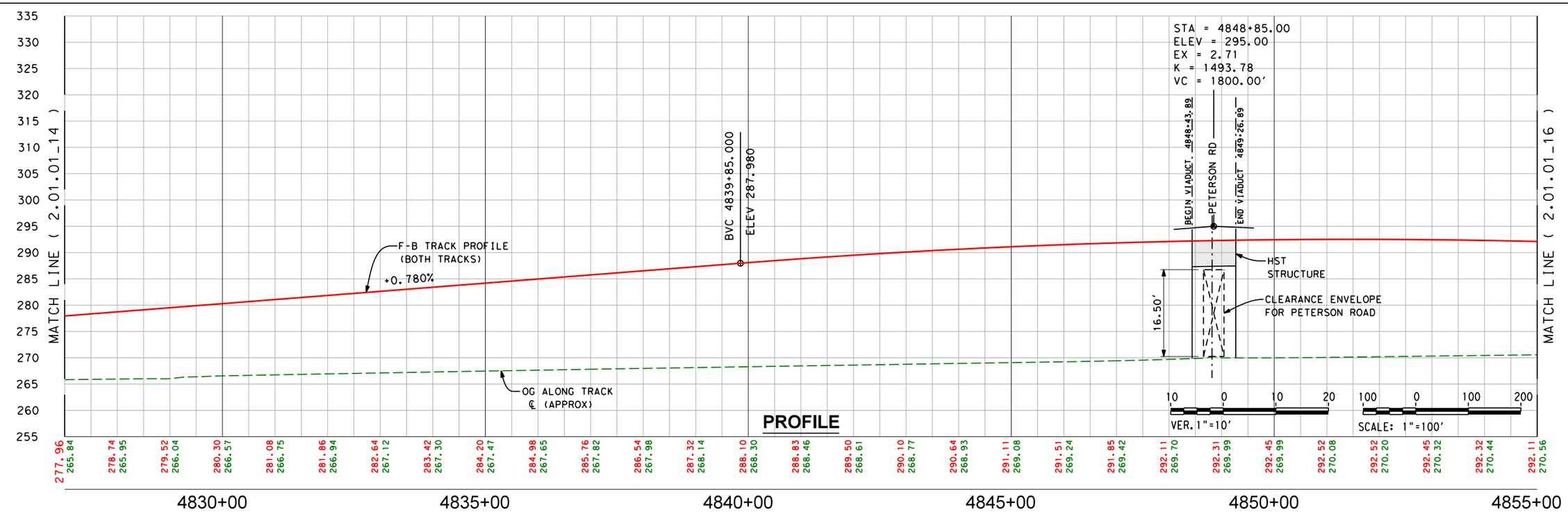
CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
ALLENSWORTH BYPASS SUBSECTION
ALIGNMENT A1
STA. 4799+00 TO 4827+00
PLAN AND PROFILE

CONTRACT NO.
DRAWING NO. 2.01.01_14
SCALE AS SHOWN
SHEET NO. 14 OF 40



CURVE #	MPH	R (FT)	EA (IN)	EU (IN)	LS (FT)	LC (FT)
16	250	45000	3.50	2.06	1500	28807/ 14805

PLAN



PROFILE

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
DRAWN BY
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IN CHARGE
DATE

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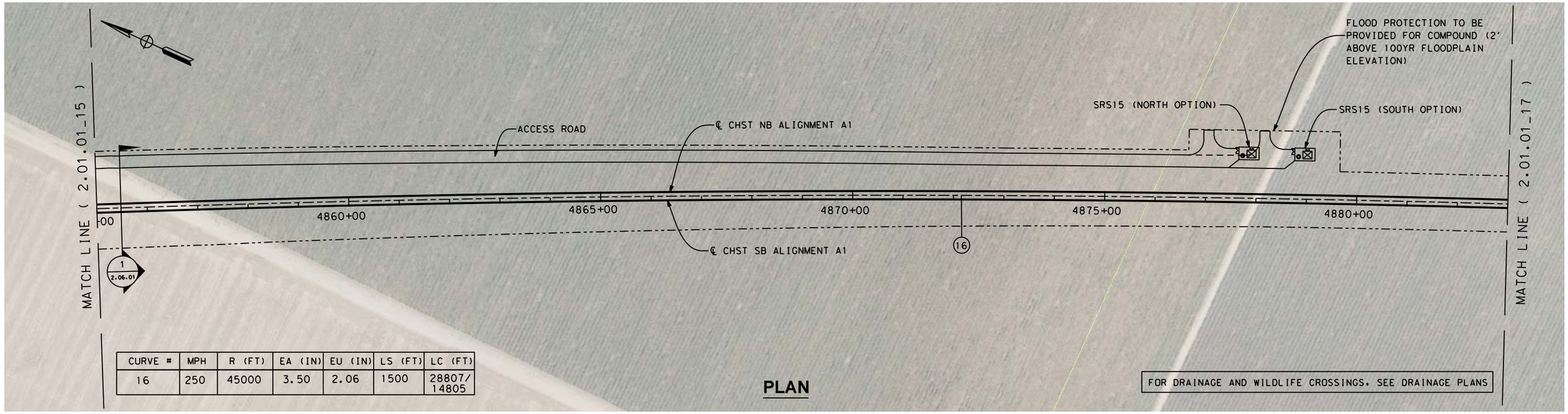
CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA RAIL BUILDERS

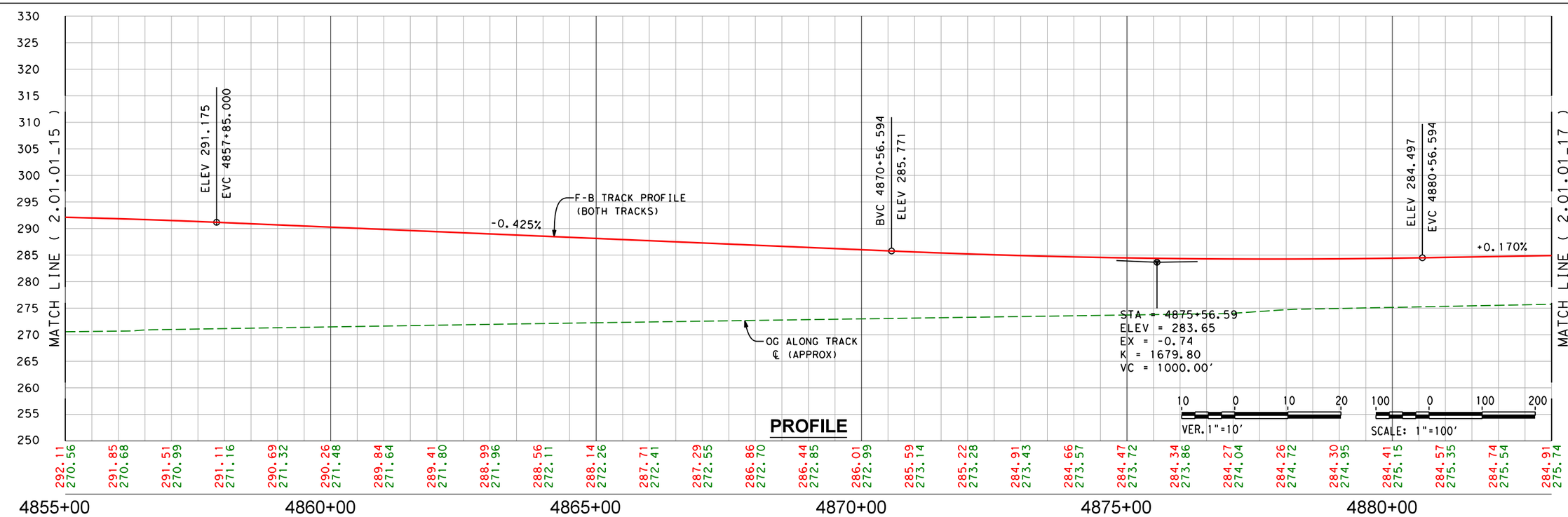
CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
ALLENSWORTH BYPASS SUBSECTION
ALIGNMENT A1
STA. 4827+00 TO 4855+00
PLAN AND PROFILE

CONTRACT NO.
DRAWING NO. 2.01.01_15
SCALE AS SHOWN
SHEET NO. 15 OF 40



CURVE #	MPH	R (FT)	EA (IN)	EU (IN)	LS (FT)	LC (FT)
16	250	45000	3.50	2.06	1500	28807/ 14805

PLAN



PROFILE

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
DRAWN BY
CHECKED BY
IN CHARGE
DATE

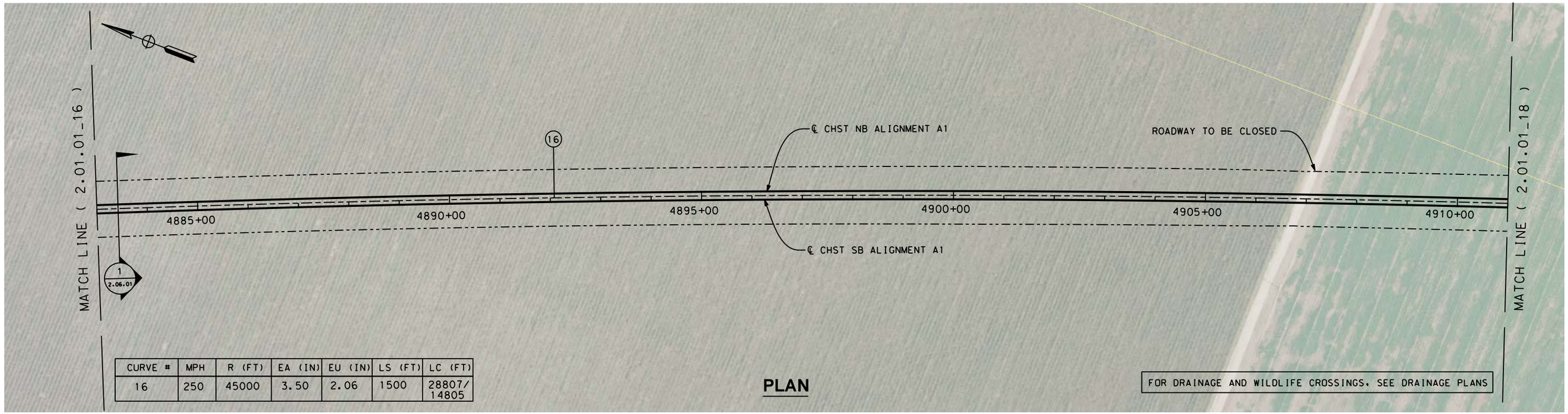
ONLY FOR BIDDING PURPOSES - NOT FOR CONSTRUCTION

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA RAIL BUILDERS

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
ALLENSWORTH BYPASS SUBSECTION
ALIGNMENT A1
STA. 4855+00 TO 4883+00
PLAN AND PROFILE

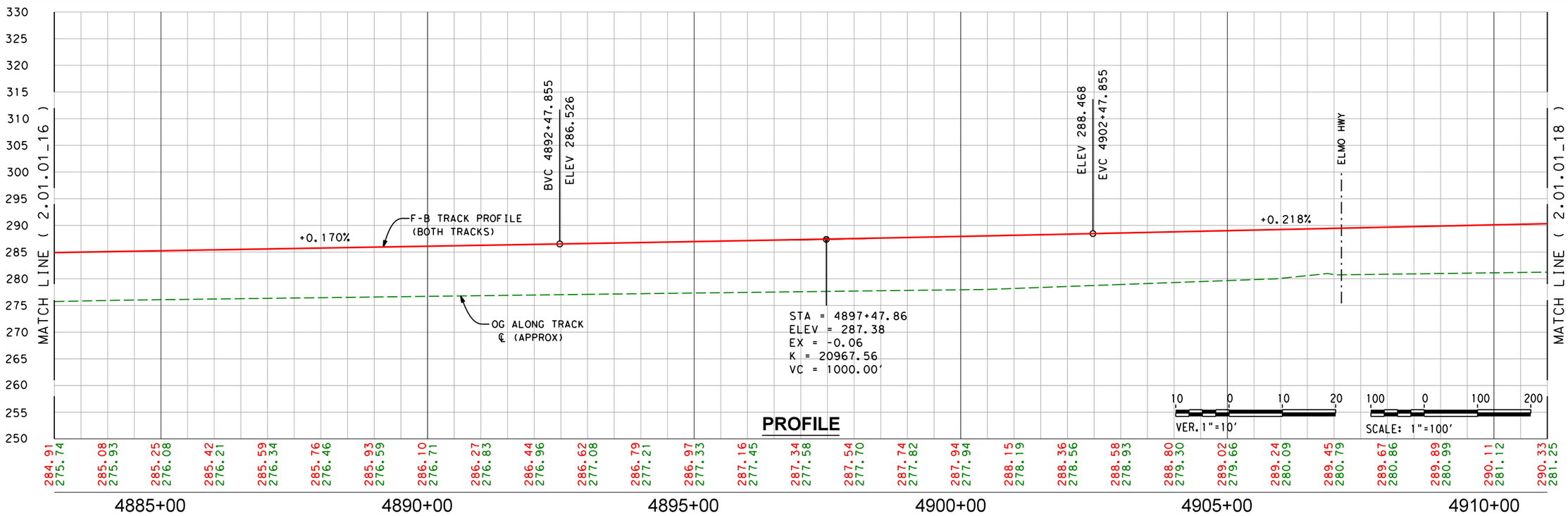
CONTRACT NO.
DRAWING NO. 2.01.01_16
SCALE AS SHOWN
SHEET NO. 16 OF 40



CURVE #	MPH	R (FT)	EA (IN)	EU (IN)	LS (FT)	LC (FT)
16	250	45000	3.50	2.06	1500	28807/ 14805

PLAN

FOR DRAINAGE AND WILDLIFE CROSSINGS, SEE DRAINAGE PLANS



PROFILE

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
DRAWN BY
CHECKED BY
IN CHARGE
DATE

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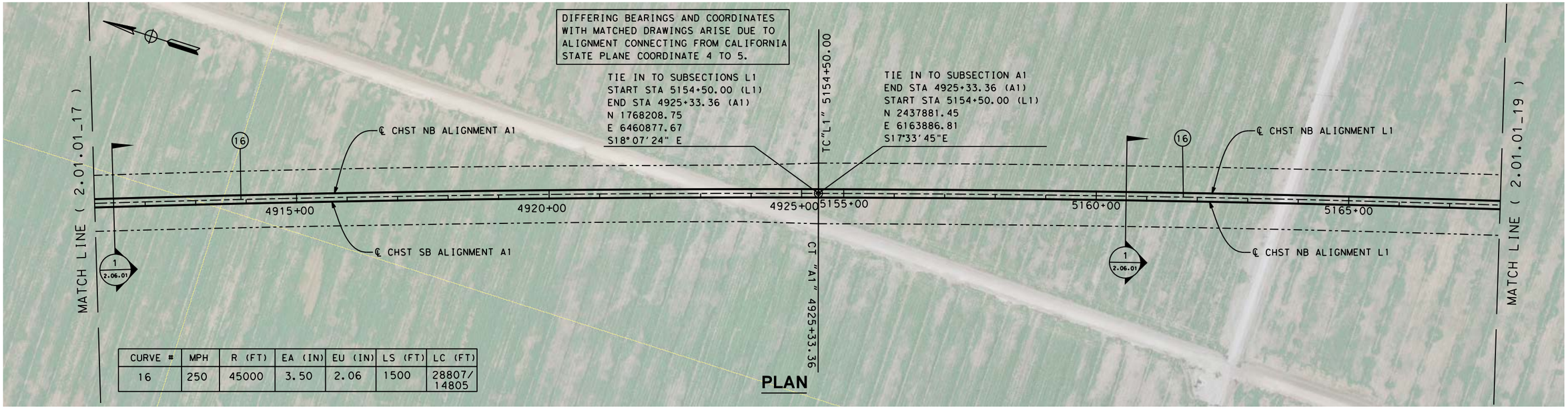
CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA RAIL BUILDERS

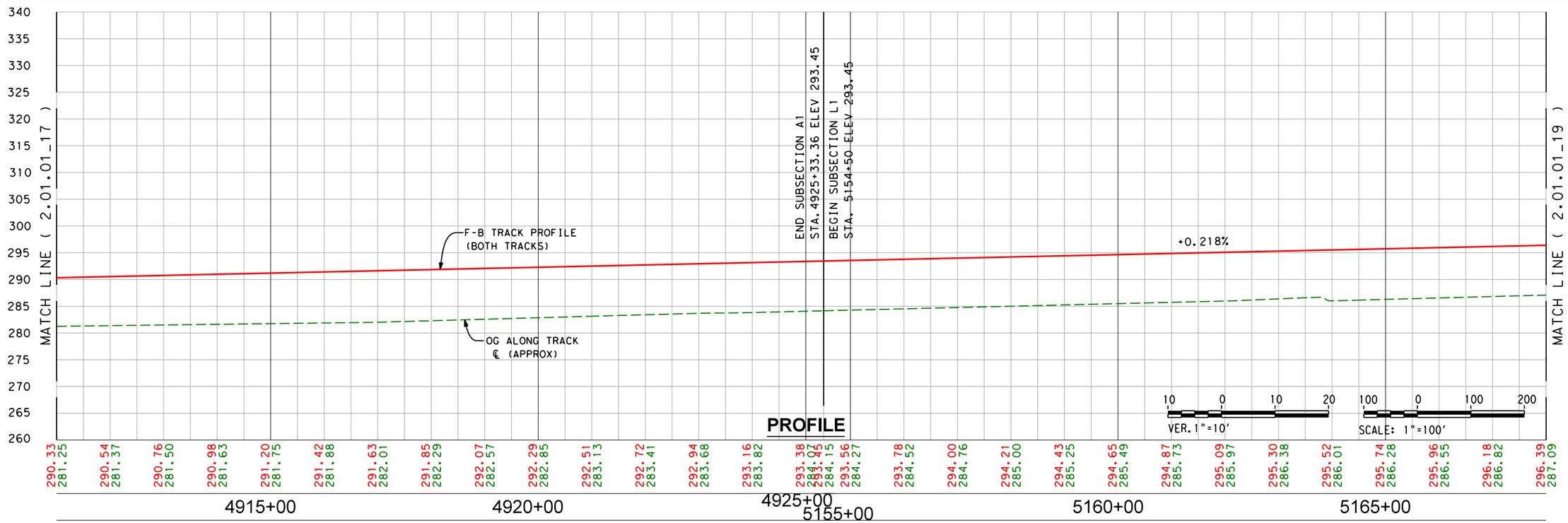
CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
ALLENSWORTH BYPASS SUBSECTION
ALIGNMENT A1
STA. 4883+00 TO 4911+00
PLAN AND PROFILE

CONTRACT NO.
DRAWING NO. 2.01.01_17
SCALE AS SHOWN
SHEET NO. 17 OF 40



CURVE #	MPH	R (FT)	EA (IN)	EU (IN)	LS (FT)	LC (FT)
16	250	45000	3.50	2.06	1500	28807/ 14805

PLAN



PROFILE

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
DRAWN BY
CHECKED BY
IN CHARGE
DATE

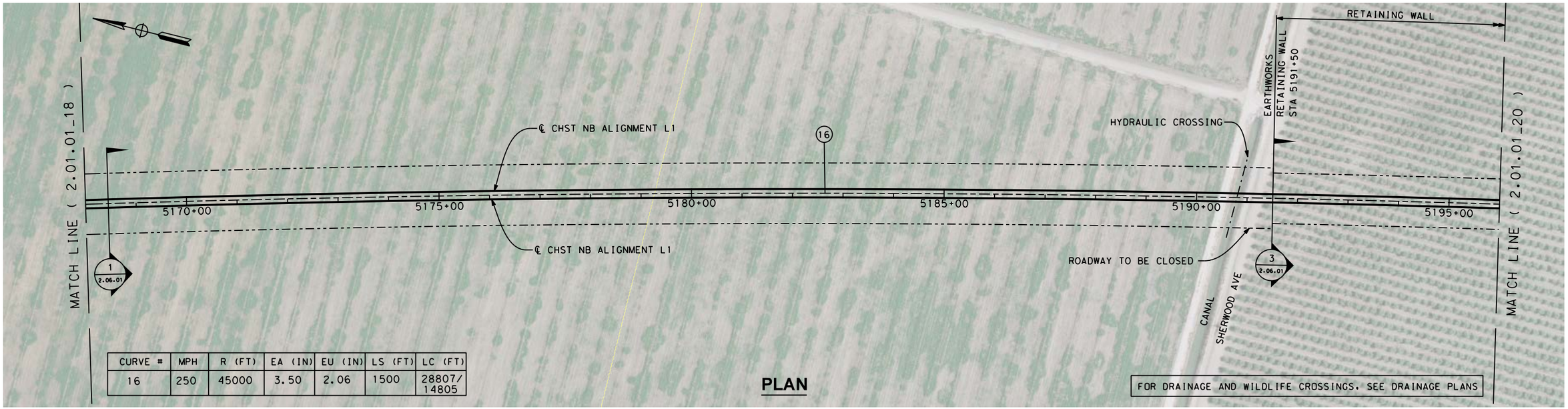
ONLY FOR BIDDING PURPOSES - NOT FOR CONSTRUCTION

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA RAIL BUILDERS

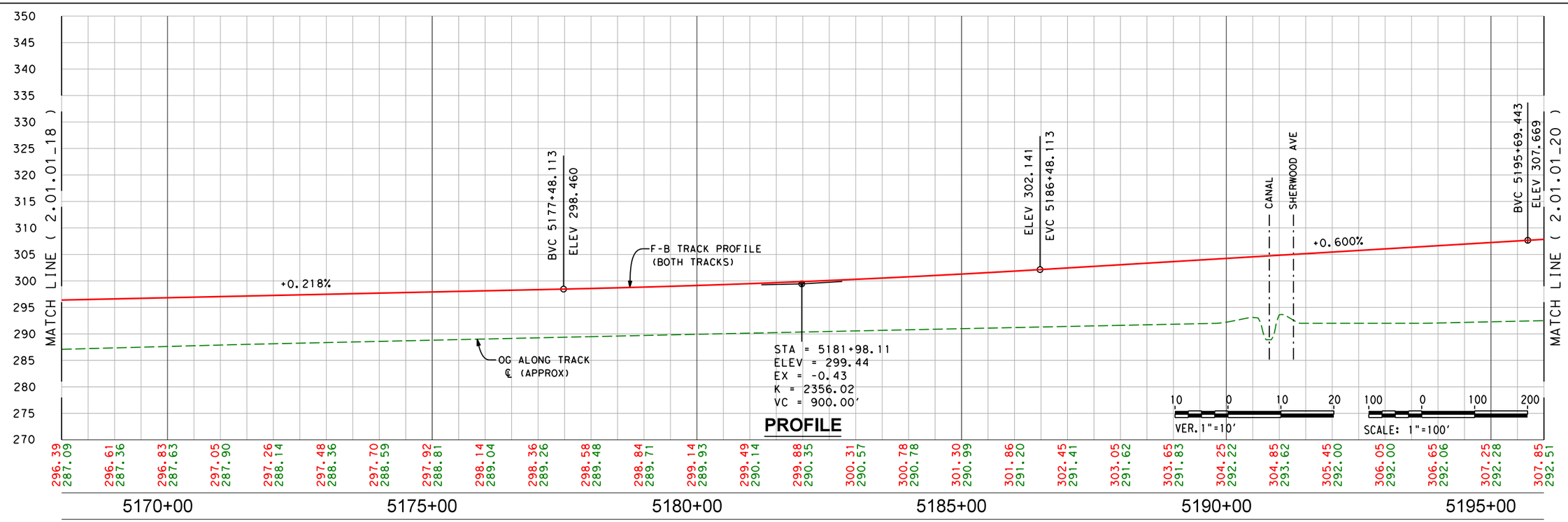
CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
ALLENSWORTH BYPASS SUBSECTION - ALIGNMENT A1
STA. 4911+00 TO 4925+33.36
POSO CREEK SUBSECTION - ALIGNMENT L1
STA. 5154+50 TO 5168+00
PLAN AND PROFILE

CONTRACT NO.
DRAWING NO. 2.01.01_18
SCALE AS SHOWN
SHEET NO. 18 OF 40



CURVE #	MPH	R (FT)	EA (IN)	EU (IN)	LS (FT)	LC (FT)
16	250	45000	3.50	2.06	1500	28807/ 14805

PLAN



PROFILE

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
DRAWN BY
CHECKED BY
IN CHARGE
DATE

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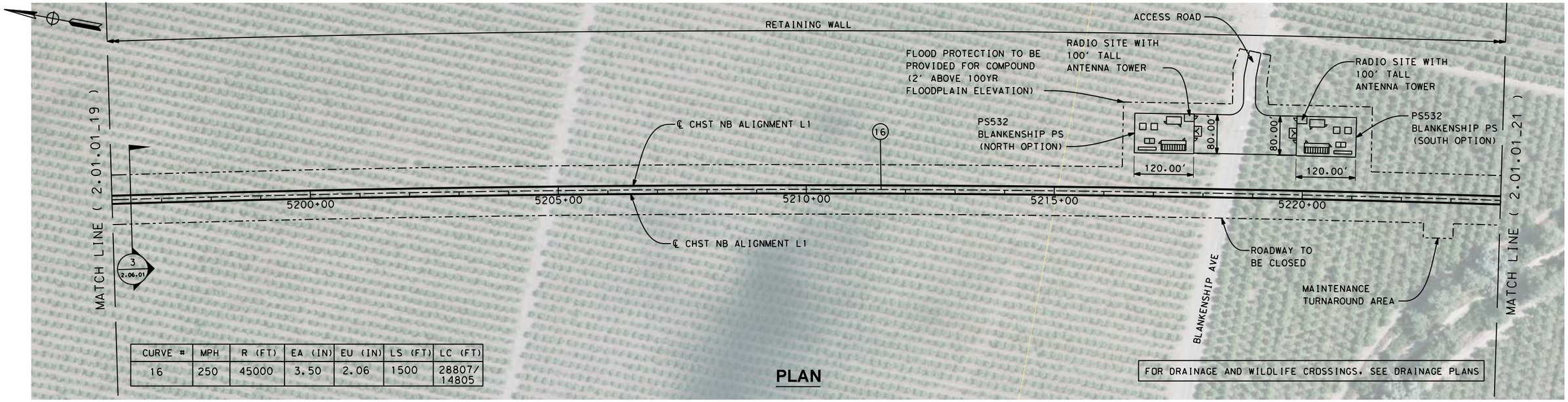
CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA RAIL BUILDERS

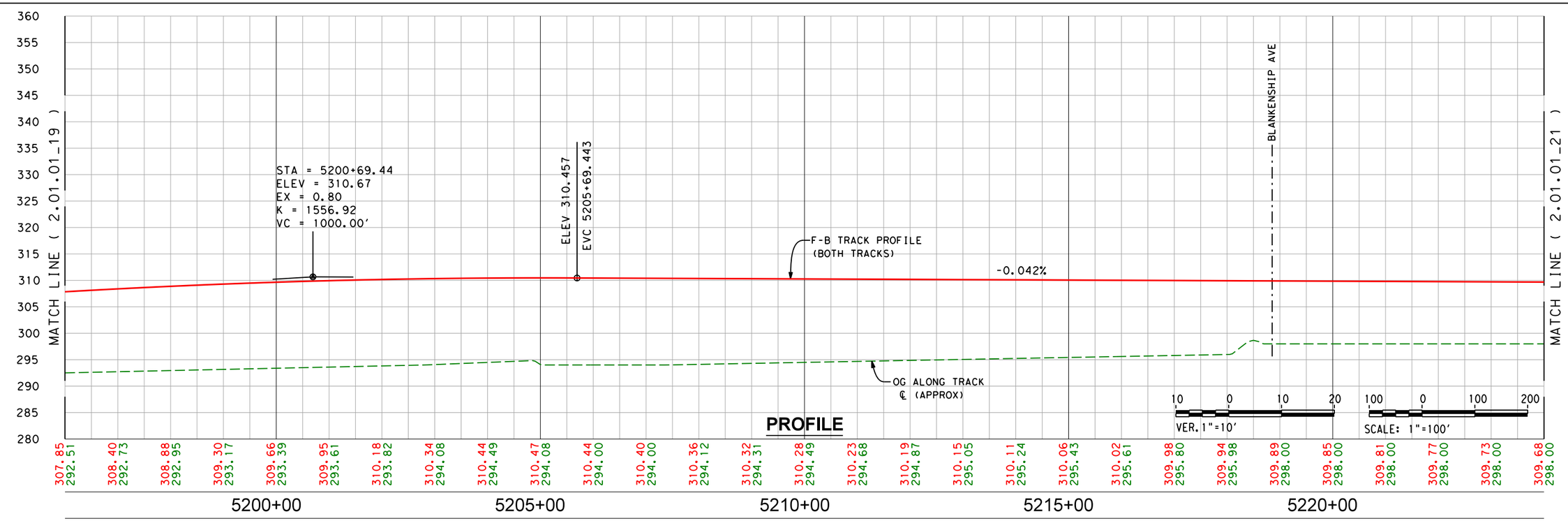
CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
POSO CREEK SUBSECTION
ALIGNMENT L1
STA. 5168+00 TO 5196+00
PLAN AND PROFILE

CONTRACT NO.
DRAWING NO. 2.01.01_19
SCALE AS SHOWN
SHEET NO. 19 OF 40



CURVE #	MPH	R (FT)	EA (IN)	EU (IN)	LS (FT)	LC (FT)
16	250	45000	3.50	2.06	1500	28807/ 14805

PLAN



PROFILE

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
DRAWN BY
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IN CHARGE
DATE

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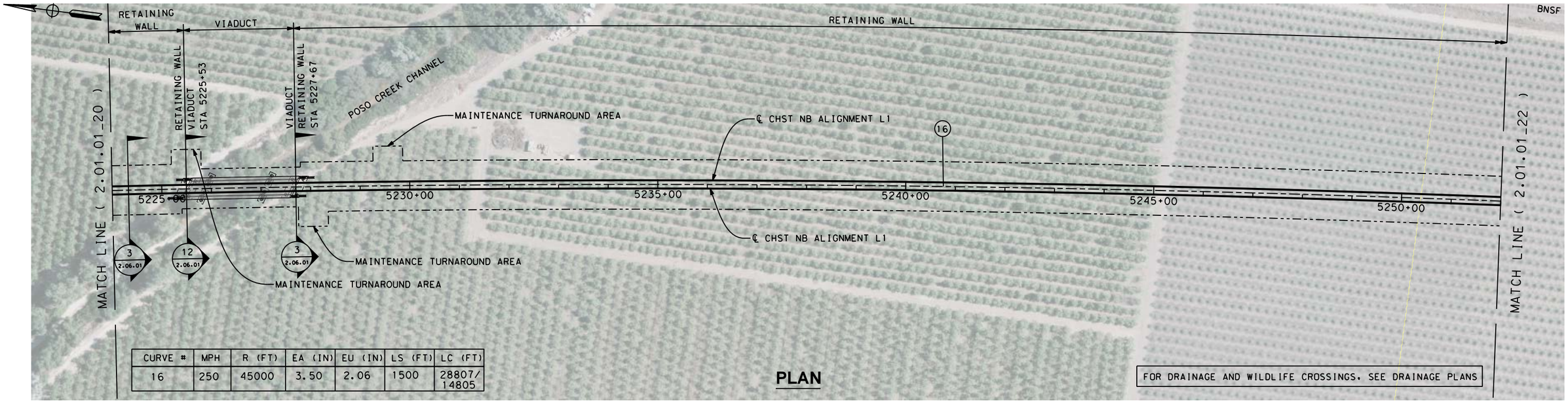
CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA RAIL BUILDERS

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
POSO CREEK SUBSECTION
ALIGNMENT L1
STA. 5196+00 TO 5224+00
PLAN AND PROFILE

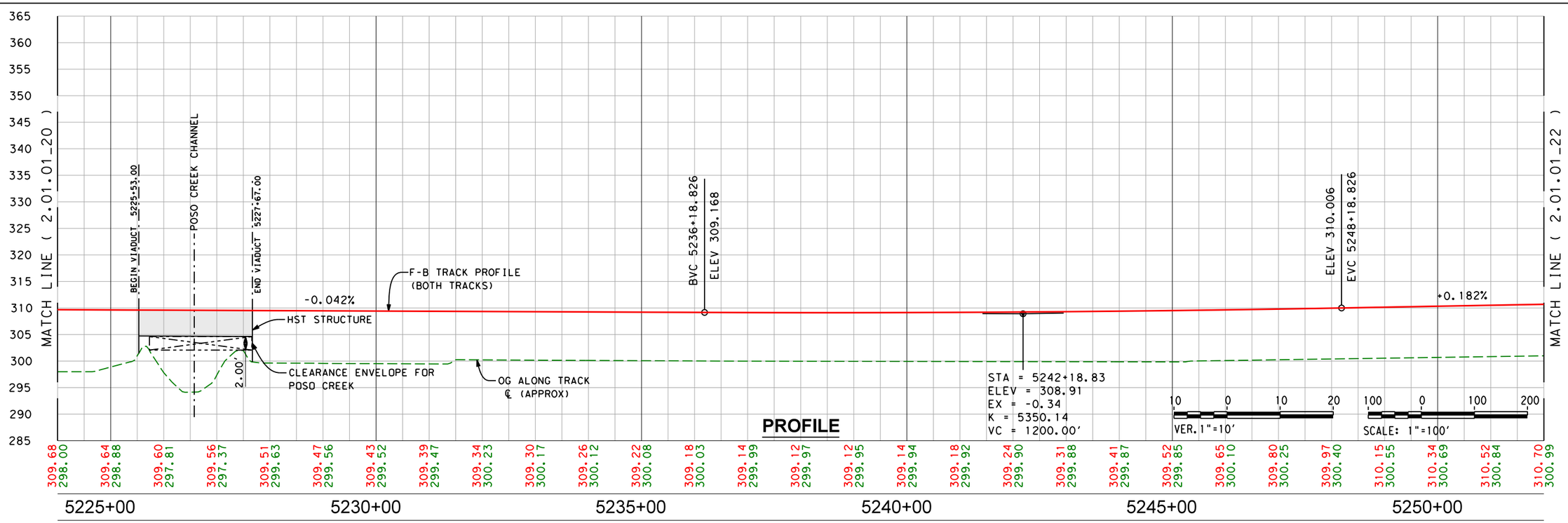
CONTRACT NO.
DRAWING NO. 2.01.01_20
SCALE AS SHOWN
SHEET NO. 20 OF 40



CURVE #	MPH	R (FT)	EA (IN)	EU (IN)	LS (FT)	LC (FT)
16	250	45000	3.50	2.06	1500	28807/ 14805

PLAN

FOR DRAINAGE AND WILDLIFE CROSSINGS, SEE DRAINAGE PLANS



PROFILE

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
DRAWN BY
CHECKED BY
IN CHARGE
DATE

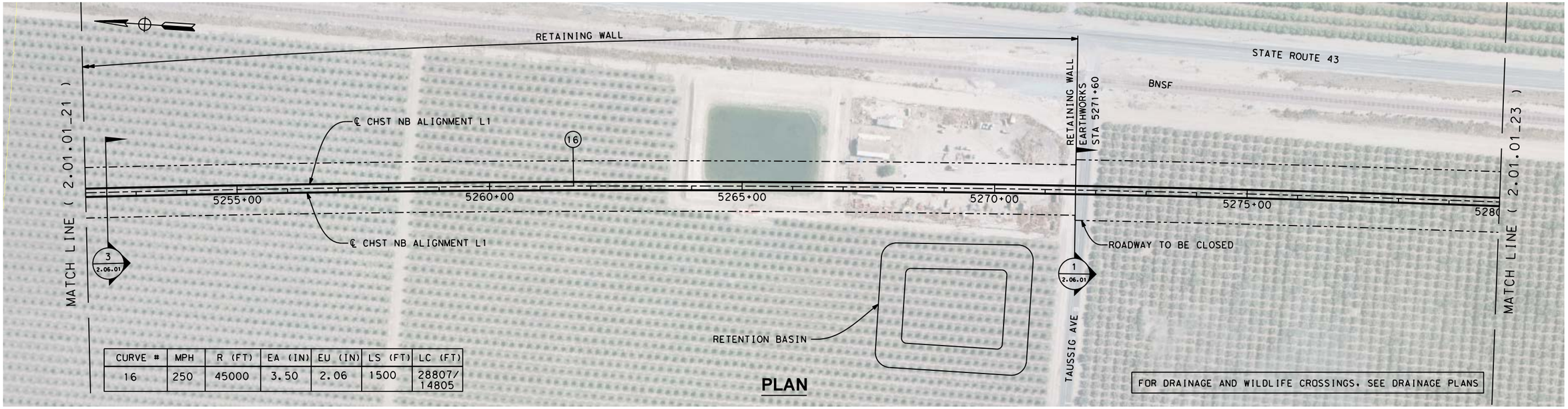
ONLY FOR BIDDING PURPOSES - NOT FOR CONSTRUCTION

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA RAIL BUILDERS

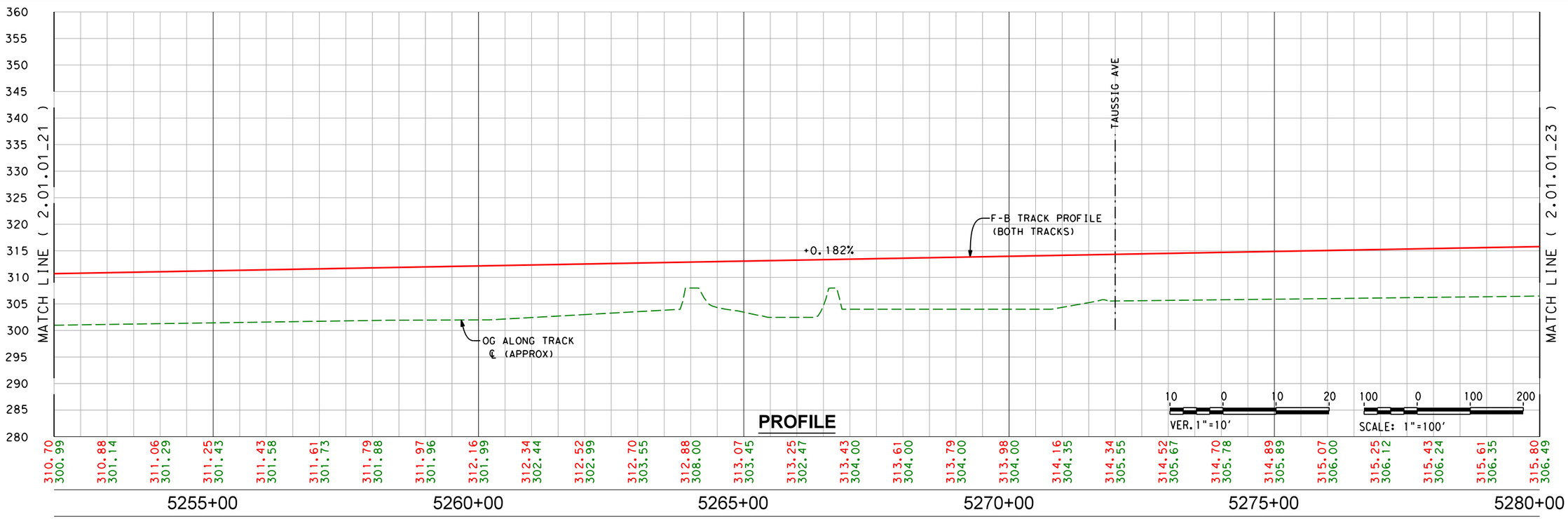
CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
POSO CREEK SUBSECTION
ALIGNMENT L1
STA. 5224+00 TO 5252+00
PLAN AND PROFILE

CONTRACT NO.
DRAWING NO. 2.01.01_21
SCALE AS SHOWN
SHEET NO. 21 OF 40



CURVE #	MPH	R (FT)	EA (IN)	EU (IN)	LS (FT)	LC (FT)
16	250	45000	3.50	2.06	1500	28807/ 14805

PLAN



PROFILE

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
DRAWN BY
CHECKED BY
IN CHARGE
DATE

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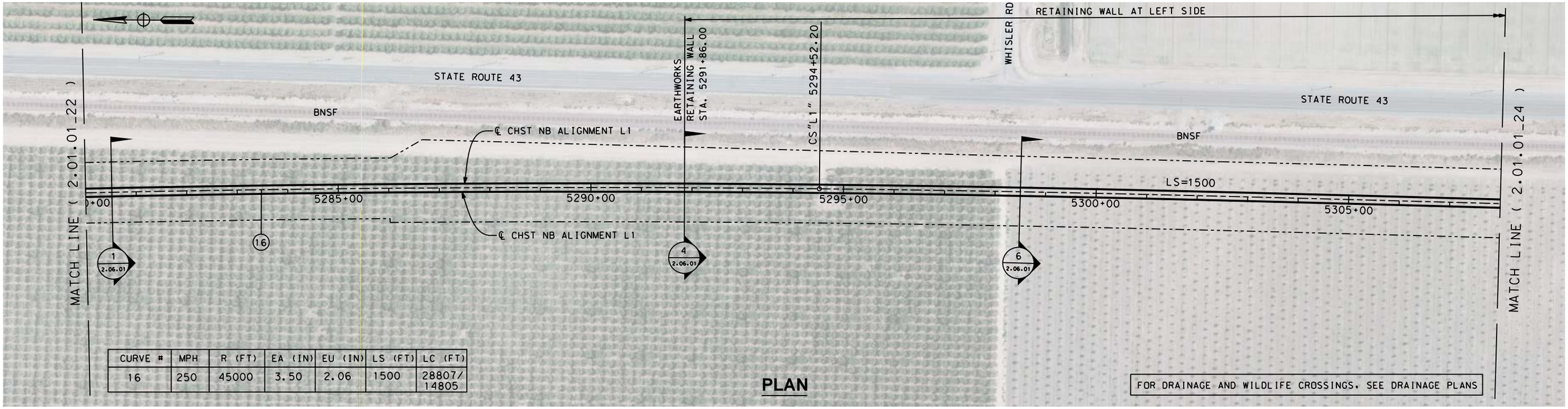
CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA RAIL BUILDERS

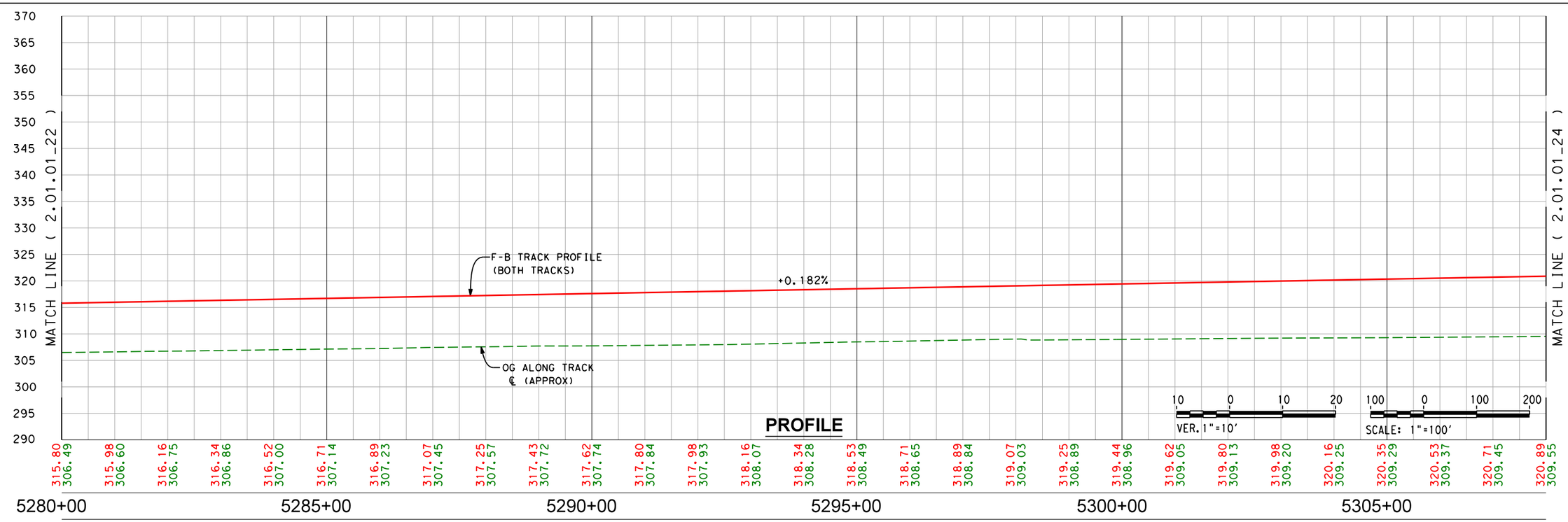
CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
POSO CREEK SUBSECTION
ALIGNMENT L1
STA. 5252+00 TO 5280+00
PLAN AND PROFILE

CONTRACT NO.
DRAWING NO. 2.01.01_22
SCALE AS SHOWN
SHEET NO. 22 OF 40



CURVE #	MPH	R (FT)	EA (IN)	EU (IN)	LS (FT)	LC (FT)
16	250	45000	3.50	2.06	1500	28807/ 14805

PLAN



PROFILE

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
DRAWN BY
CHECKED BY
IN CHARGE
DATE

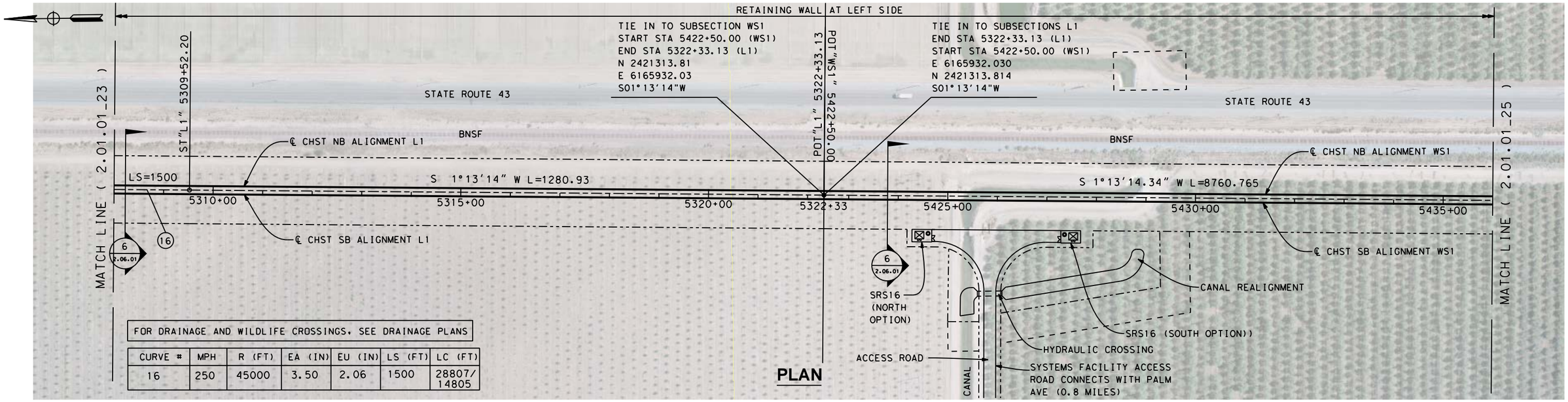
ONLY FOR BIDDING PURPOSES - NOT FOR CONSTRUCTION

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA RAIL BUILDERS

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
POSO CREEK SUBSECTION
ALIGNMENT L1
STA. 5280+00 TO 5308+00
PLAN AND PROFILE

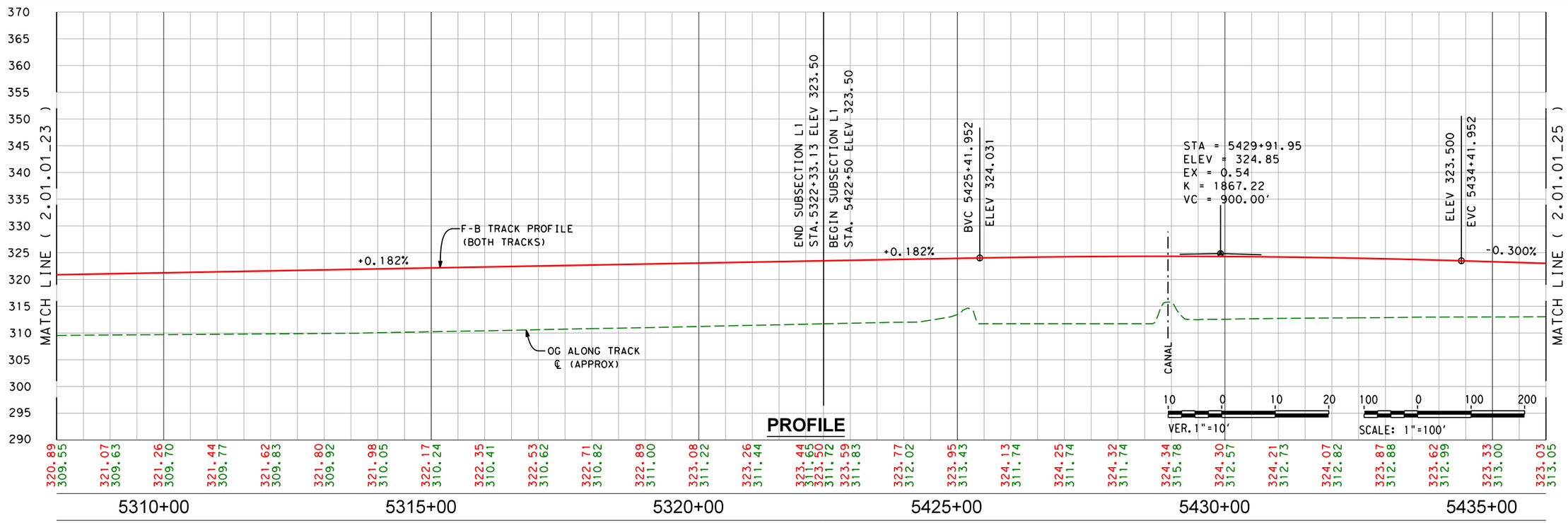
CONTRACT NO.
DRAWING NO. 2.01.01_23
SCALE AS SHOWN
SHEET NO. 23 OF 40



FOR DRAINAGE AND WILDLIFE CROSSINGS, SEE DRAINAGE PLANS

CURVE #	MPH	R (FT)	EA (IN)	EU (IN)	LS (FT)	LC (FT)
16	250	45000	3.50	2.06	1500	28807/ 14805

PLAN



PROFILE

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
DRAWN BY
CHECKED BY
IN CHARGE
DATE

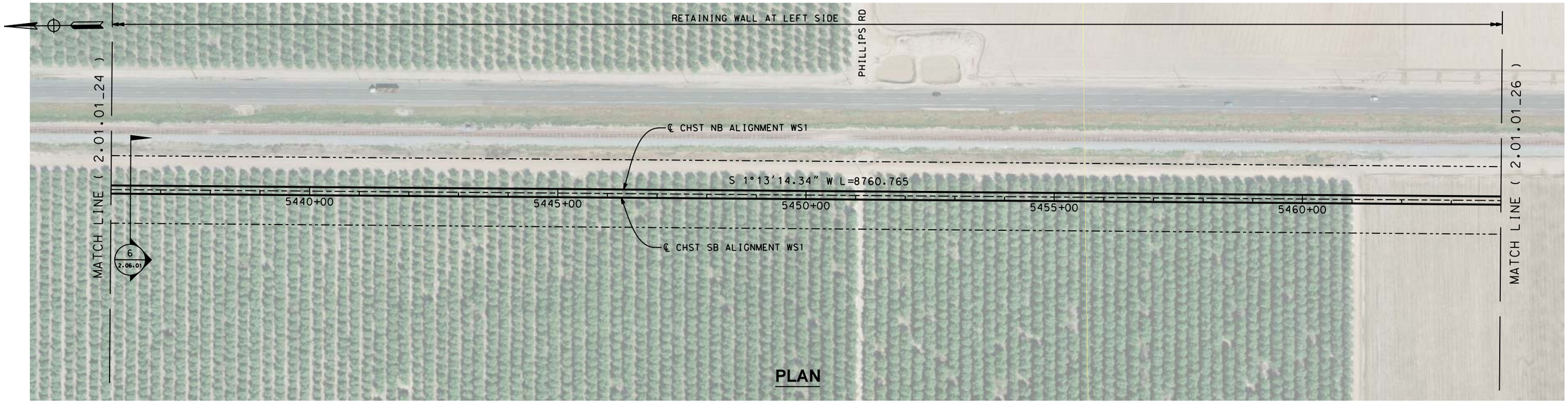
ONLY FOR BIDDING PURPOSES - NOT FOR CONSTRUCTION

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

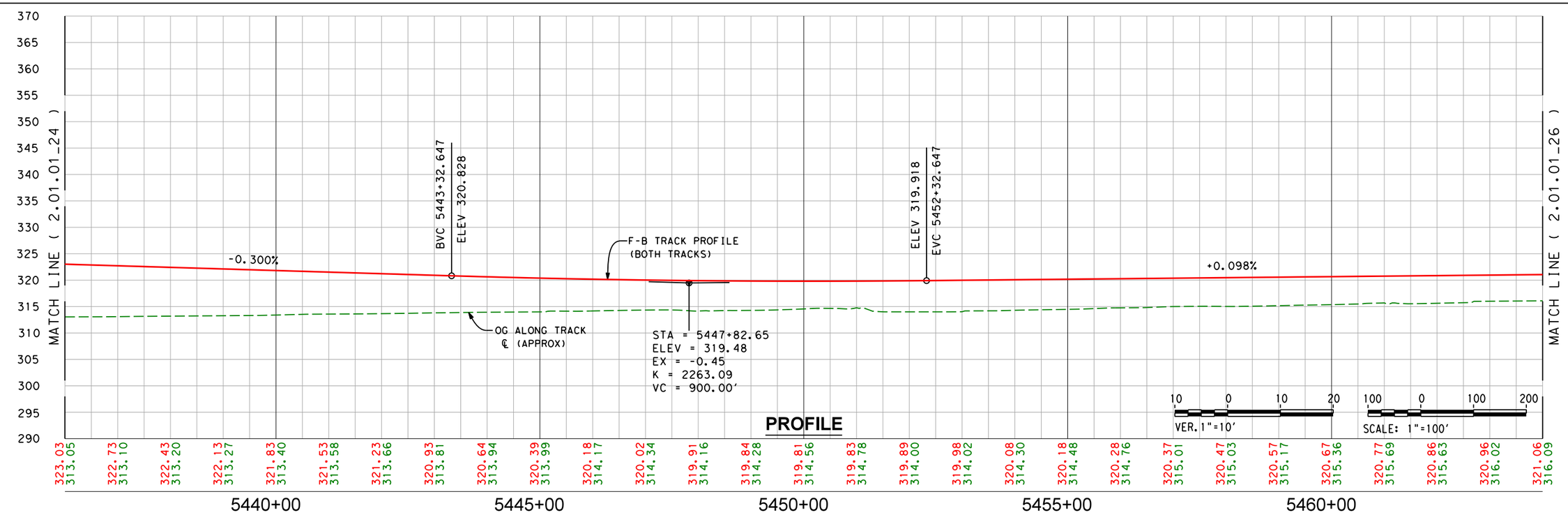
CALIFORNIA RAIL BUILDERS

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
POSO CREEK SUBSECTION - ALIGNMENT L1
STA. 5308+00 TO 5322+33.13
THROUGH WASCO SUBSECTION - ALIGNMENT WS1
STA. 5422+50 TO 5436+00 WS1
PLAN AND PROFILE

CONTRACT NO.
DRAWING NO. 2.01.01_24
SCALE AS SHOWN
SHEET NO. 24 OF 40



PLAN



PROFILE

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
DRAWN BY
CHECKED BY
IN CHARGE
DATE

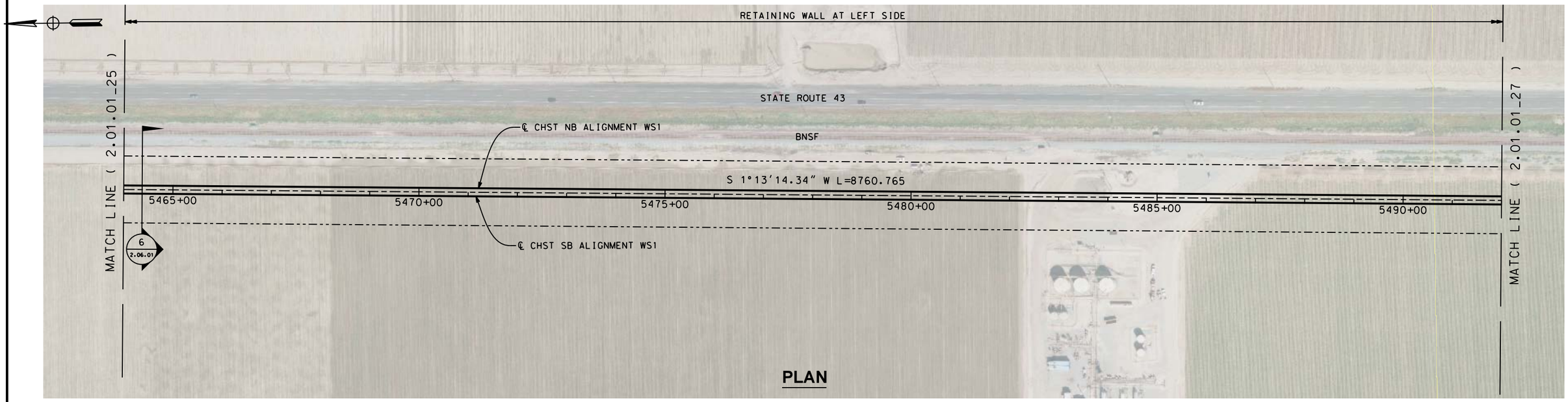
ONLY FOR BIDDING PURPOSES - NOT FOR CONSTRUCTION

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

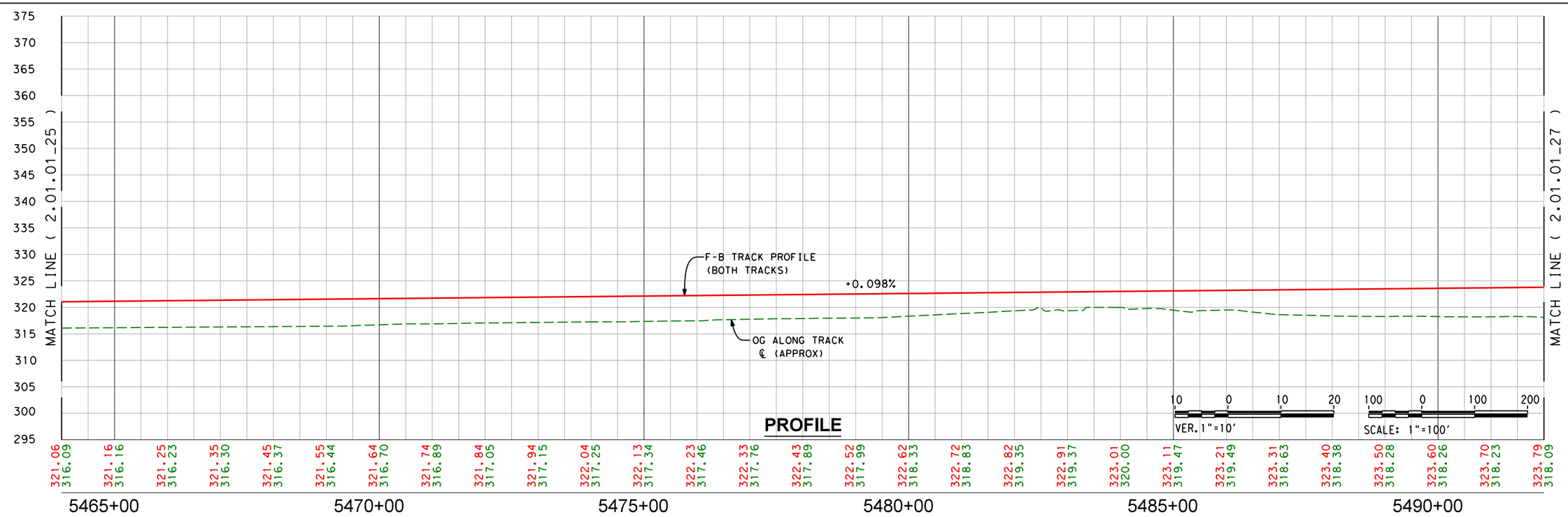
CALIFORNIA RAIL BUILDERS

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
THROUGH WASCO SUBSECTION
ALIGNMENT WS1
STA. 5436+00 TO 5464+00
PLAN AND PROFILE

CONTRACT NO.
DRAWING NO. 2.01.01_25
SCALE AS SHOWN
SHEET NO. 25 OF 40



PLAN



PROFILE

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
DRAWN BY
CHECKED BY
IN CHARGE
DATE

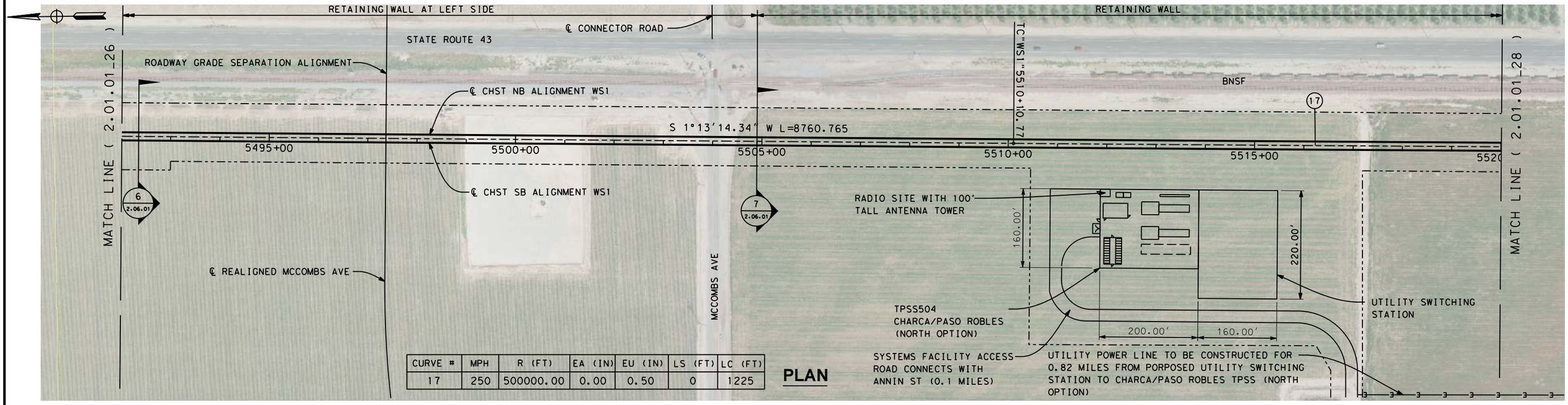
ONLY FOR BIDDING PURPOSES - NOT FOR CONSTRUCTION

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA RAIL BUILDERS

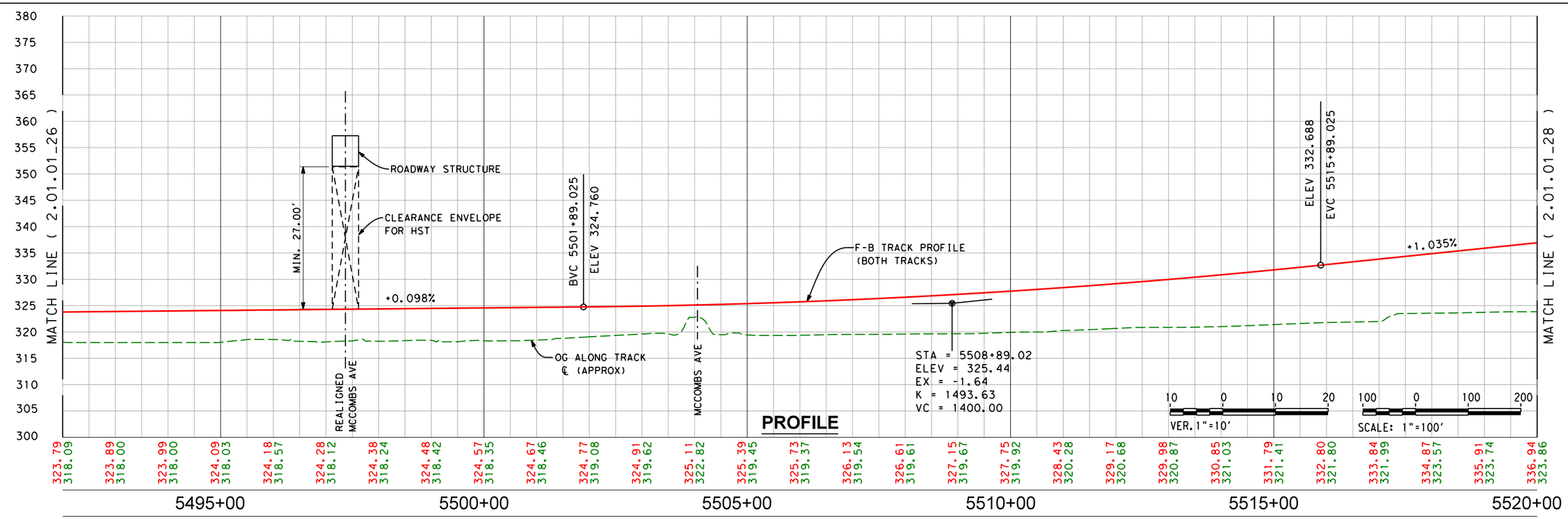
CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
THROUGH WASCO SUBSECTION
ALIGNMENT WS1
STA. 5464+00 TO 5492+00
PLAN AND PROFILE

CONTRACT NO.
DRAWING NO. 2.01.01_26
SCALE AS SHOWN
SHEET NO. 26 OF 40



CURVE #	MPH	R (FT)	EA (IN)	EU (IN)	LS (FT)	LC (FT)
17	250	500000.00	0.00	0.50	0	1225

PLAN



PROFILE

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
DRAWN BY
CHECKED BY
IN CHARGE
DATE

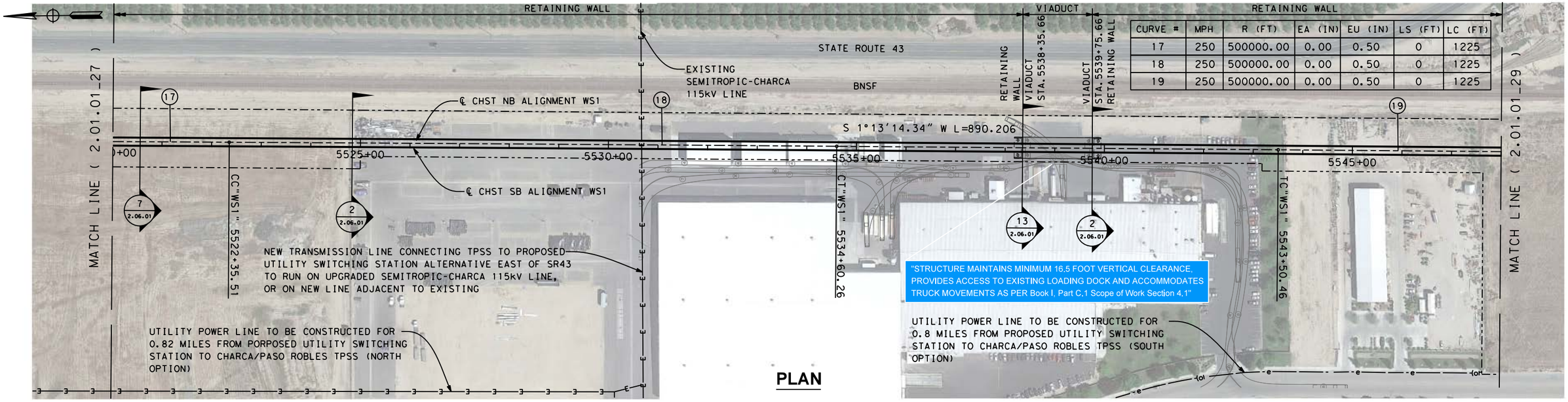
ONLY FOR BIDDING PURPOSES - NOT FOR CONSTRUCTION

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA RAIL BUILDERS

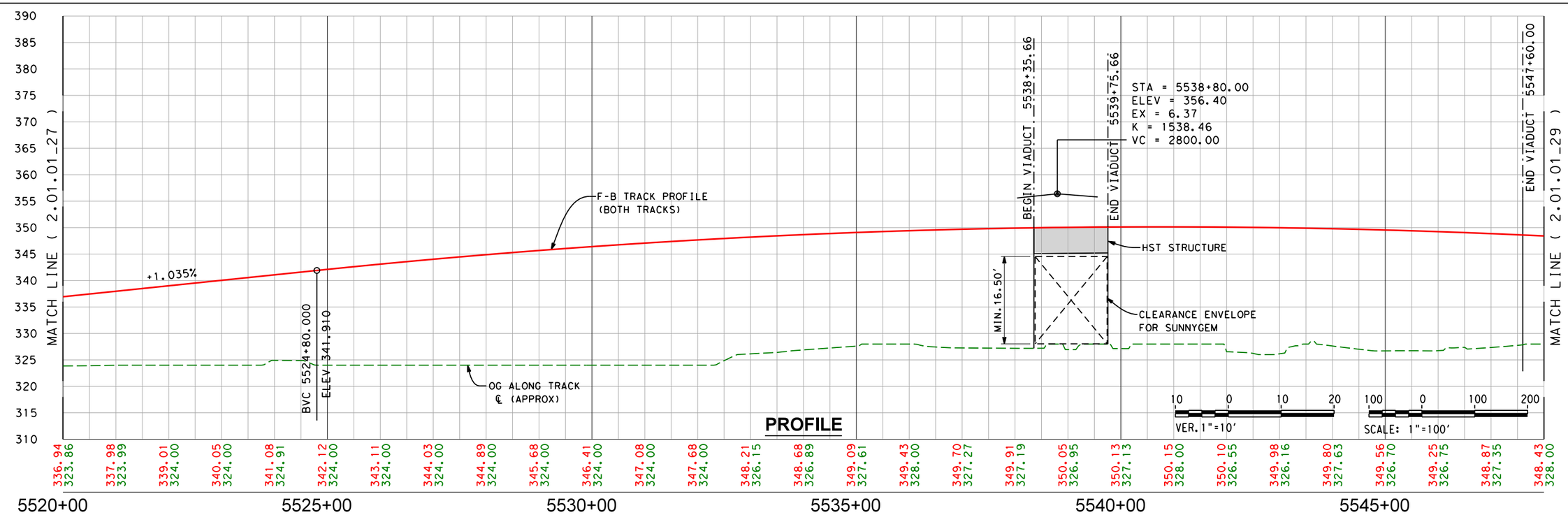
CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
THROUGH WASCO SUBSECTION
ALIGNMENT WS1
STA. 5492+00 TO 5520+00
PLAN AND PROFILE

CONTRACT NO.
DRAWING NO. 2.01.01_27
SCALE AS SHOWN
SHEET NO. 27 OF 40



CURVE #	MPH	R (FT)	EA (IN)	EU (IN)	LS (FT)	LC (FT)
17	250	500000.00	0.00	0.50	0	1225
18	250	500000.00	0.00	0.50	0	1225
19	250	500000.00	0.00	0.50	0	1225

PLAN



PROFILE

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
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IN CHARGE
DATE

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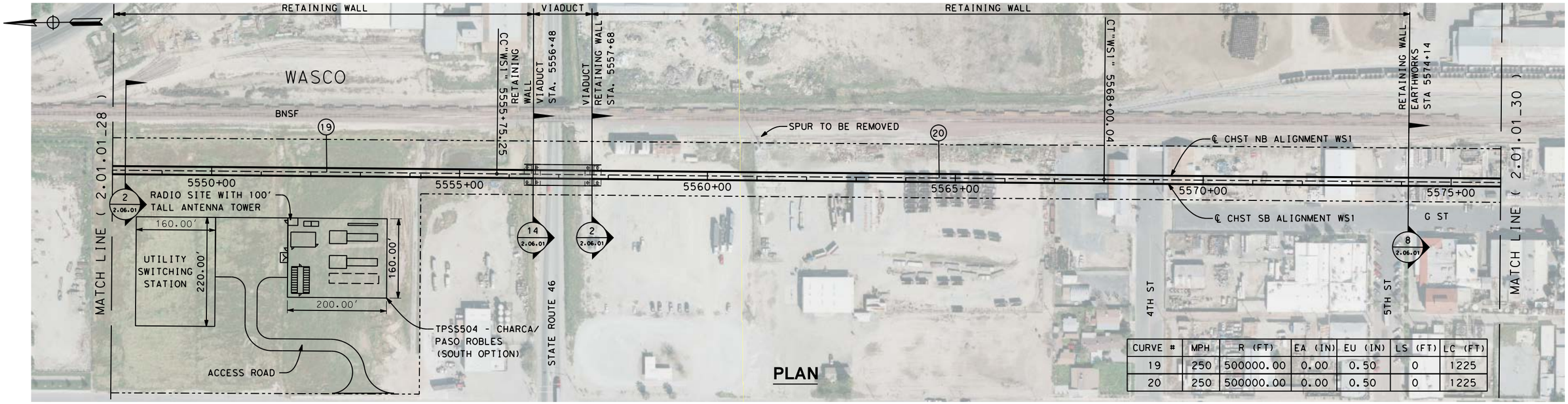
CALIFORNIA HIGH-SPEED RAIL AUTHORITY

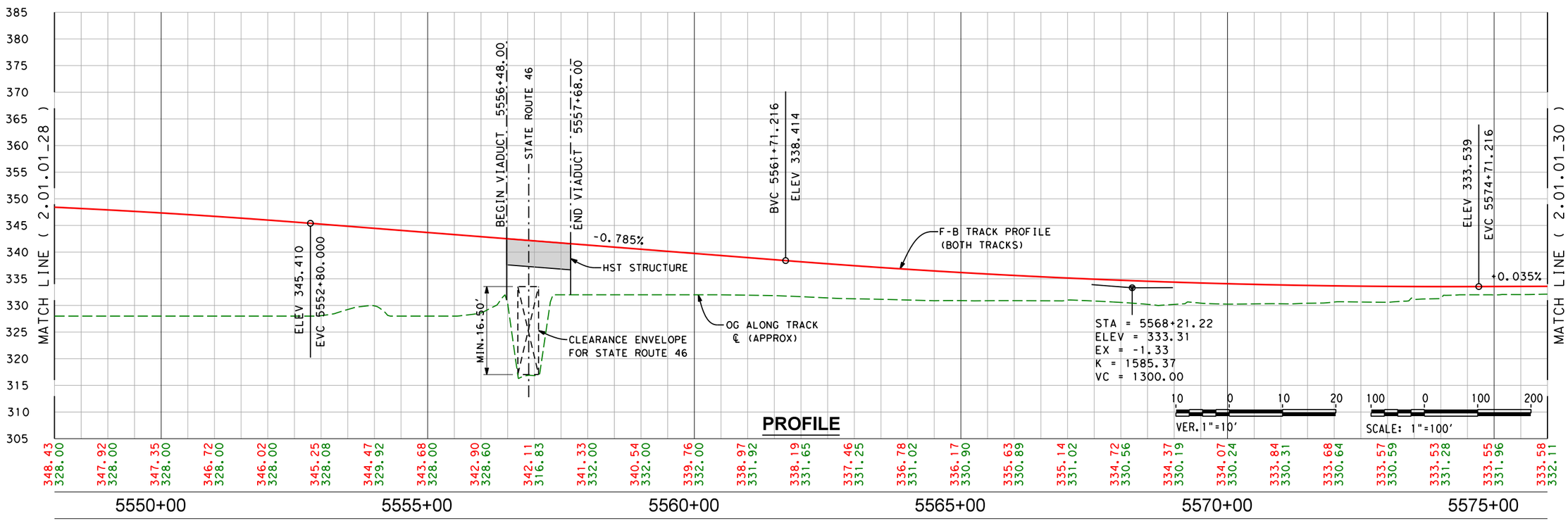
CALIFORNIA RAIL BUILDERS

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
THROUGH WASCO SUBSECTION
ALIGNMENT WS1
STA. 5520+00 TO 5548+00
PLAN AND PROFILE

CONTRACT NO.
DRAWING NO. 2.01.01_28
SCALE AS SHOWN
SHEET NO. 28 OF 40



CURVE #	MPH	R (FT)	EA (IN)	EU (IN)	LS (FT)	LC (FT)
19	250	500000.00	0.00	0.50	0	1225
20	250	500000.00	0.00	0.50	0	1225



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
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DATE

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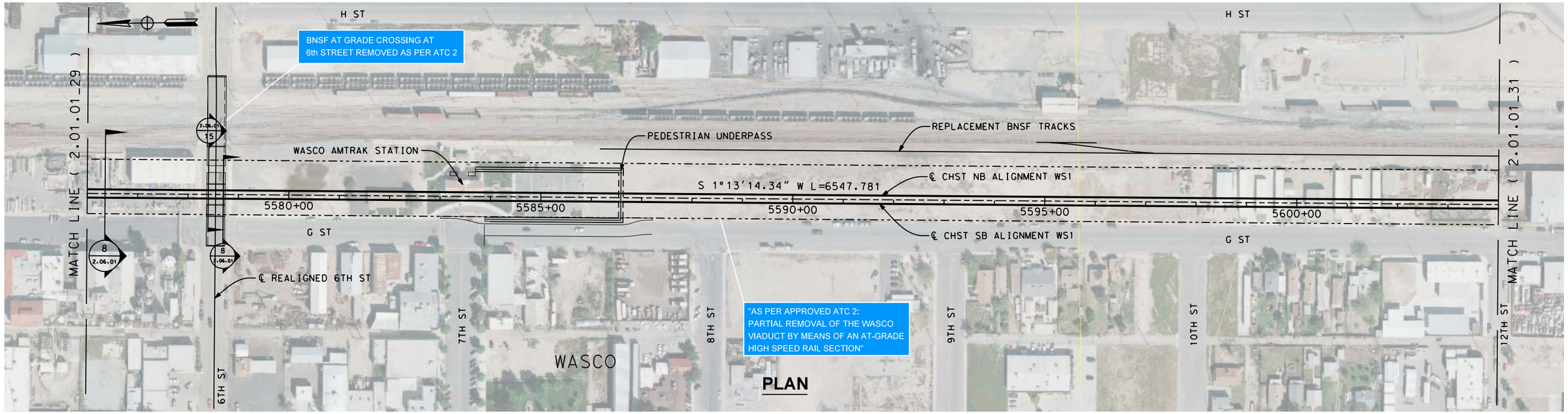
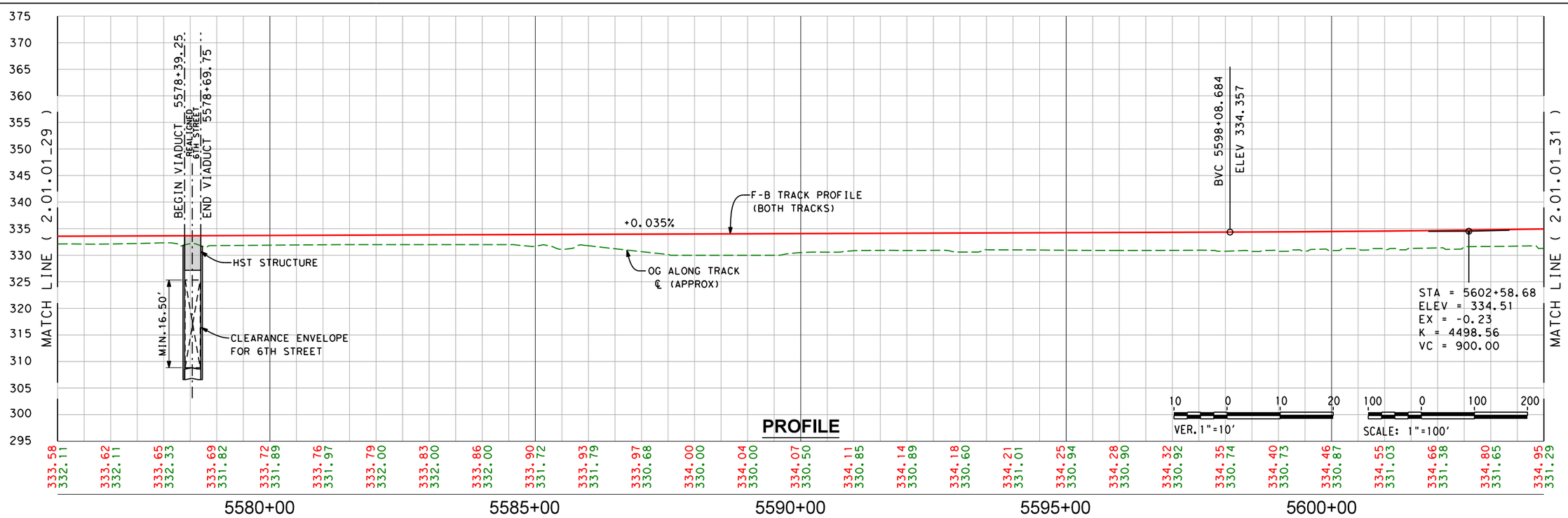
CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA RAIL BUILDERS

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
THROUGH WASCO SUBSECTION
ALIGNMENT WS1
STA. 5548+00 TO 5576+00
PLAN AND PROFILE

CONTRACT NO.
DRAWING NO. 2.01.01_29
SCALE AS SHOWN
SHEET NO. 29 OF 40





REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
DRAWN BY
CHECKED BY
IN CHARGE
DATE

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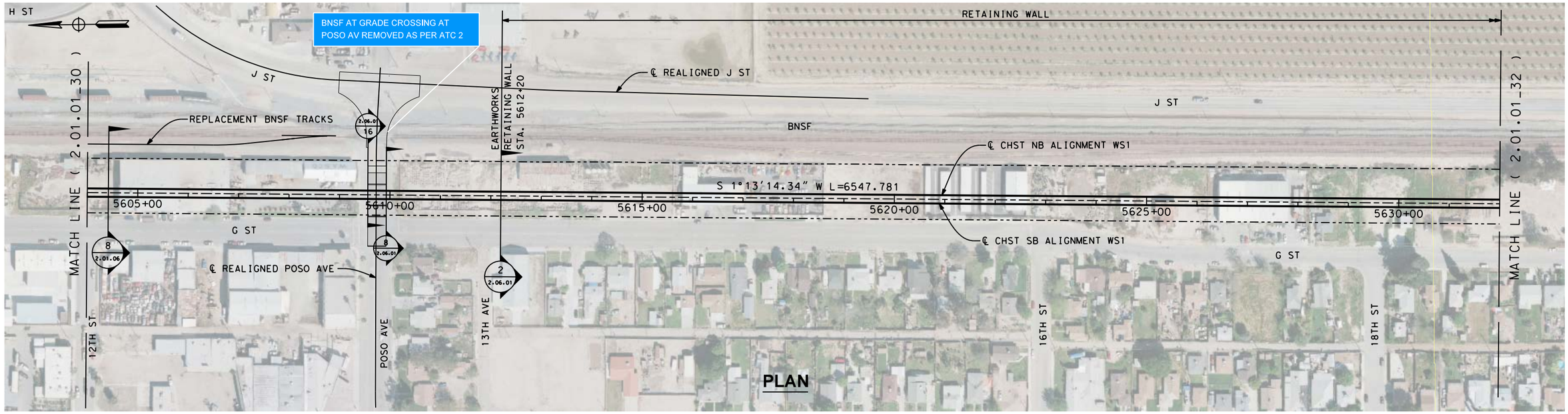
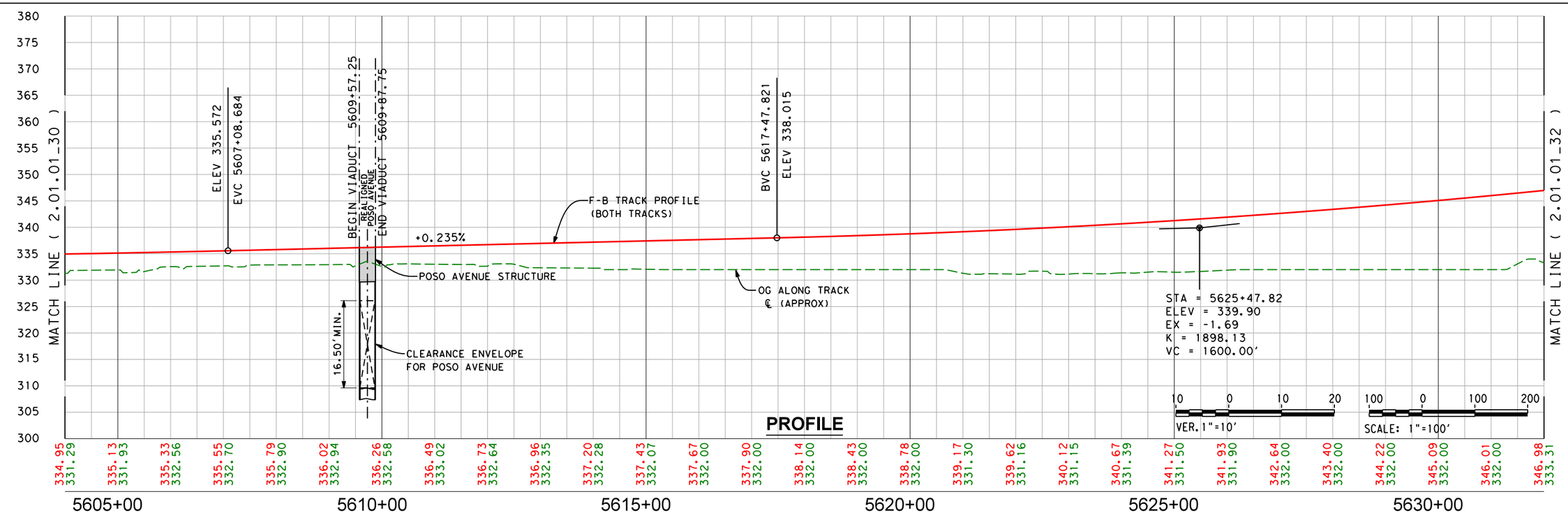
CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA RAIL BUILDERS

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
THROUGH WASCO SUBSECTION
ALIGNMENT WS1
STA. 5576+00 TO 5604+00
PLAN AND PROFILE

CONTRACT NO.
DRAWING NO. 2.01.01_30
SCALE AS SHOWN
SHEET NO. 30 OF 40





REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
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CHECKED BY
IN CHARGE
DATE

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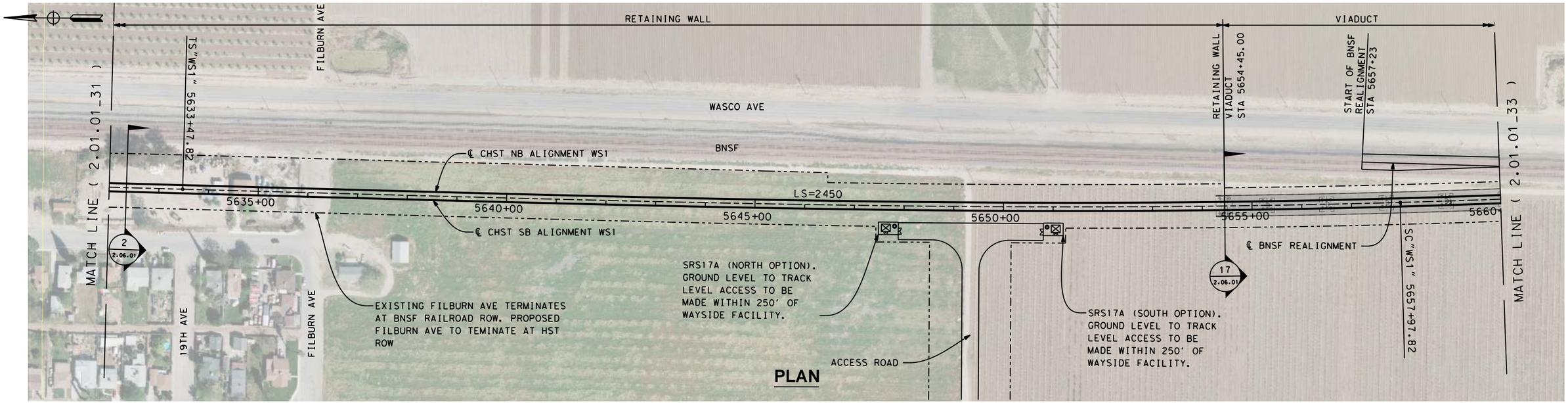
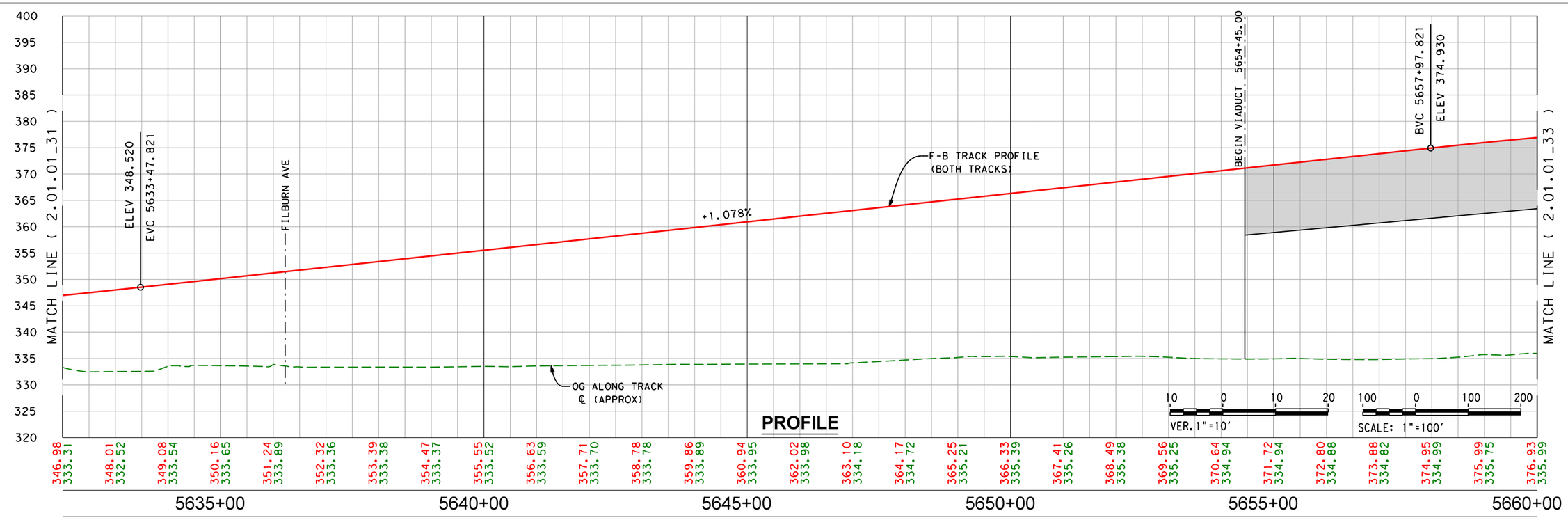
CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA RAIL BUILDERS

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
THROUGH WASCO SUBSECTION
ALIGNMENT WS1
STA. 5604+00 TO 5632+00
PLAN AND PROFILE

CONTRACT NO.
DRAWING NO. 2.01.01_31
SCALE AS SHOWN
SHEET NO. 31 OF 40





REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
DRAWN BY
CHECKED BY
IN CHARGE
DATE

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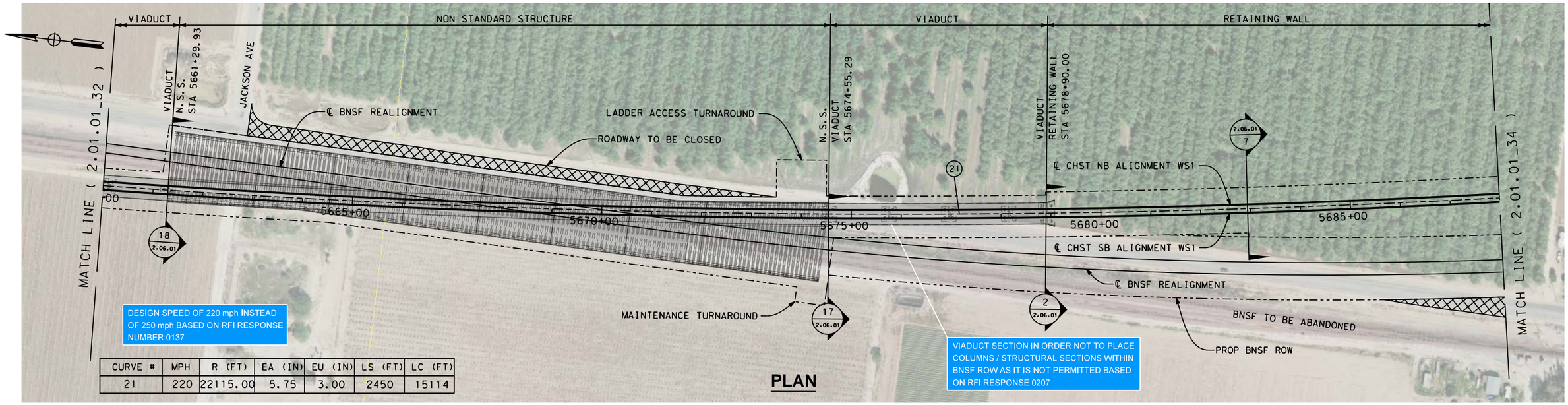
CALIFORNIA HIGH-SPEED RAIL AUTHORITY

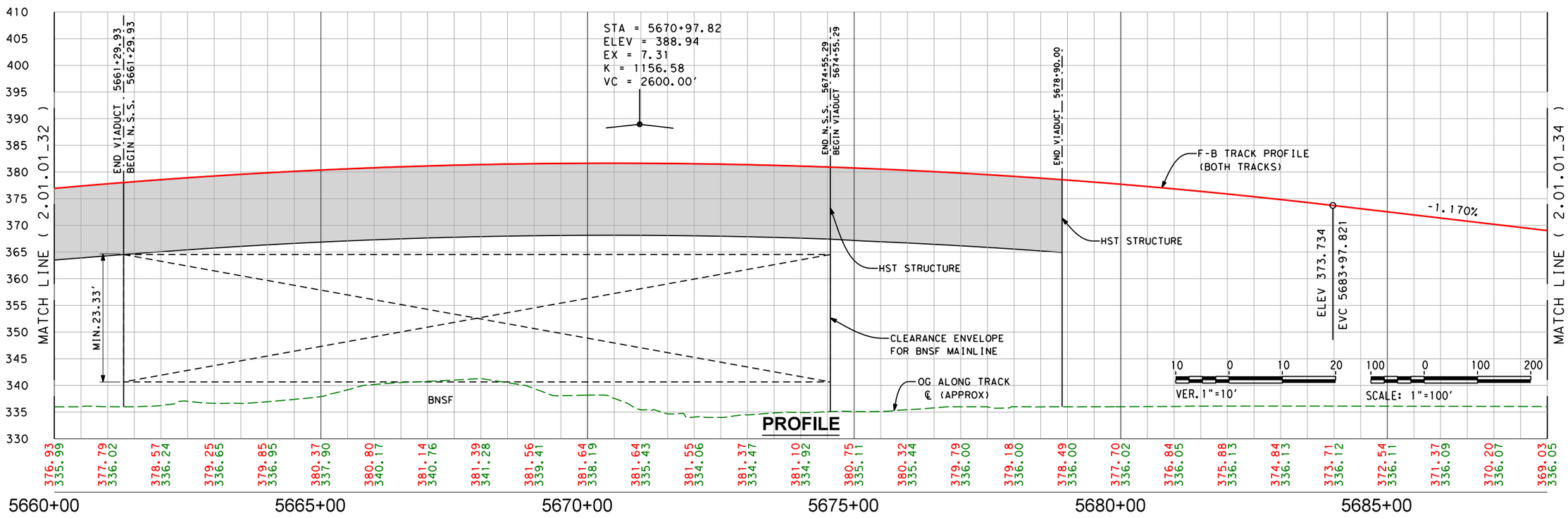
CALIFORNIA RAIL BUILDERS

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
THROUGH WASCO SUBSECTION
ALIGNMENT WS1
STA. 5632+00 TO 5660+00
PLAN AND PROFILE

CONTRACT NO.
DRAWING NO. 2.01.01_32
SCALE AS SHOWN
SHEET NO. 32 OF 40



CURVE #	MPH	R (FT)	EA (IN)	EU (IN)	LS (FT)	LC (FT)
21	220	22115.00	5.75	3.00	2450	15114



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
DRAWN BY
CHECKED BY
IN CHARGE
DATE

ONLY FOR BIDDING PURPOSES - NOT FOR CONSTRUCTION

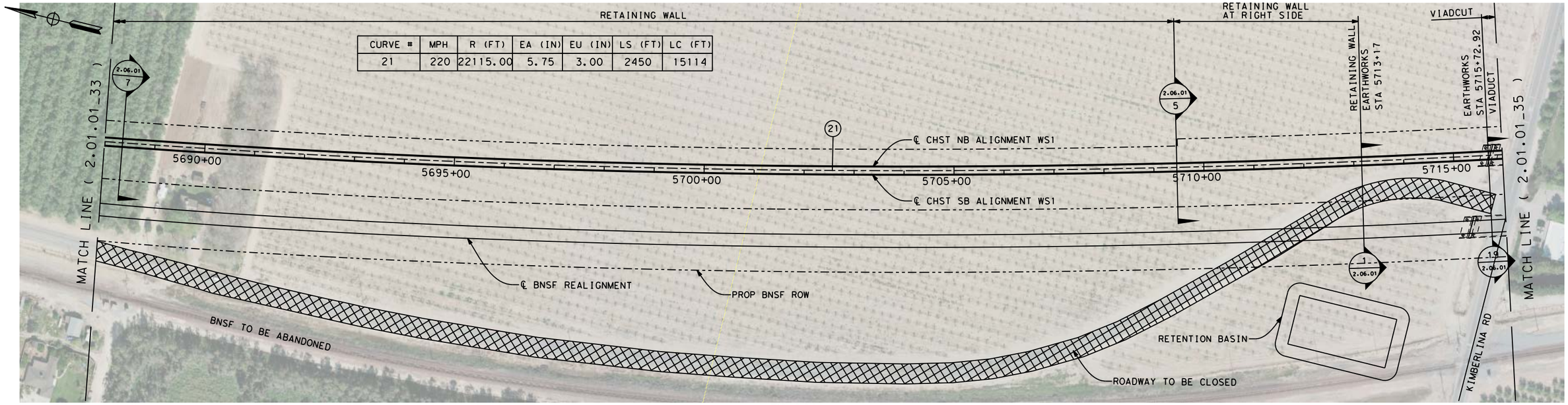
CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA RAIL BUILDERS

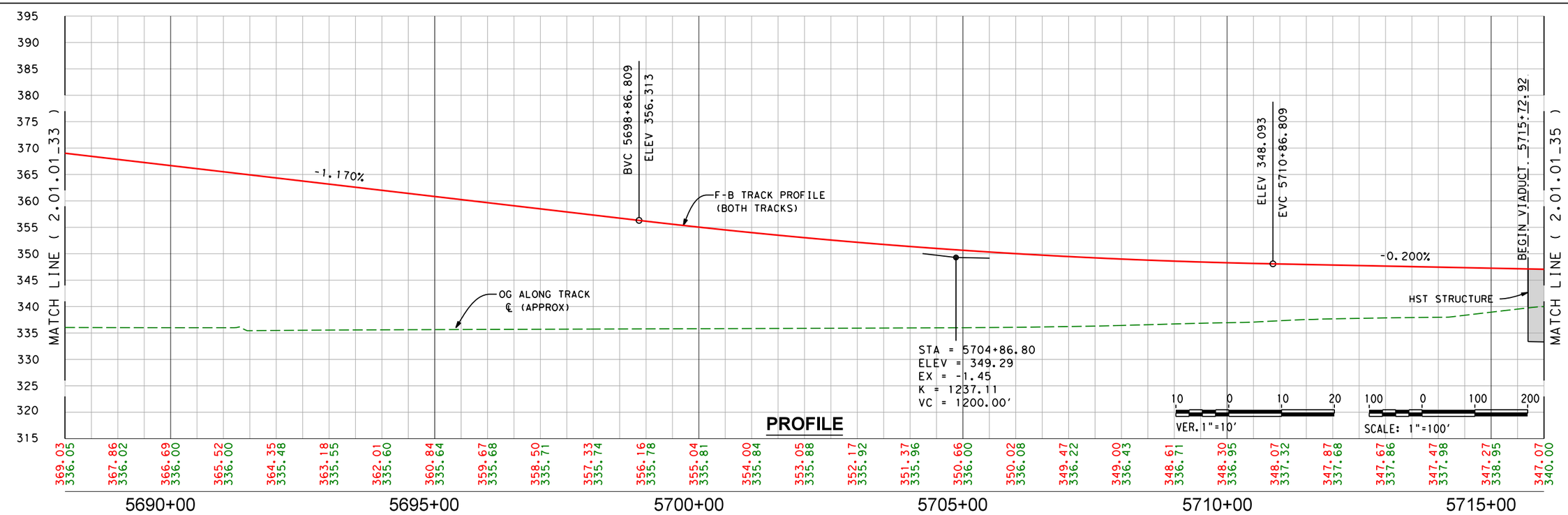
CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
THROUGH WASCO SUBSECTION
ALIGNMENT WS1
STA. 5660+00 TO 5688+00
PLAN AND PROFILE

CONTRACT NO.
DRAWING NO. 2.01.01_33
SCALE AS SHOWN
SHEET NO. 33 OF 40

CURVE #	MPH	R (FT)	EA (IN)	EU (IN)	LS (FT)	LC (FT)
21	220	22115.00	5.75	3.00	2450	15114



PLAN



PROFILE

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
DRAWN BY
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IN CHARGE
DATE

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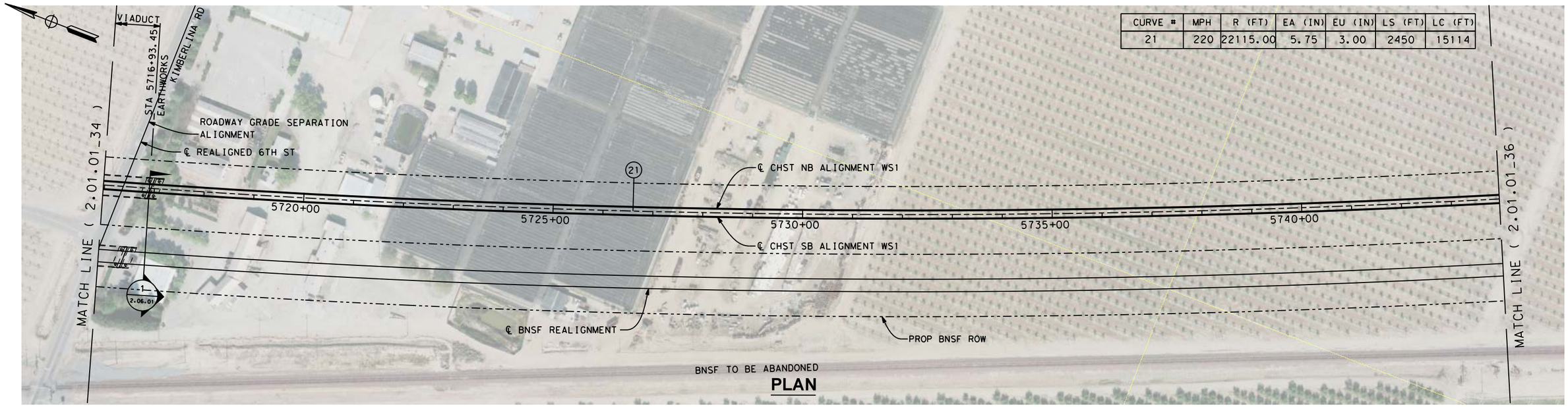
CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA RAIL BUILDERS

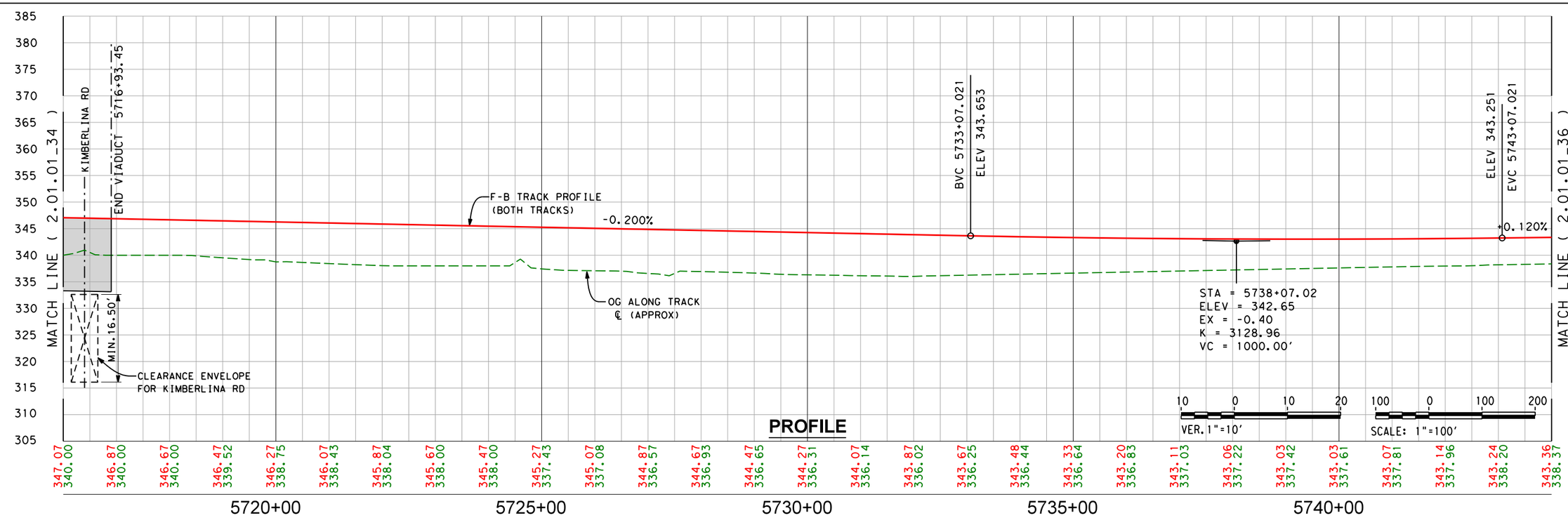
CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
THROUGH WASCO SUBSECTION
ALIGNMENT WS1
STA. 5688+00 TO 5716+00
PLAN AND PROFILE

CONTRACT NO.
DRAWING NO. 2.01.01_34
SCALE AS SHOWN
SHEET NO. 34 OF 40

CURVE #	MPH	R (FT)	EA (IN)	EU (IN)	LS (FT)	LC (FT)
21	220	22115.00	5.75	3.00	2450	15114



PLAN



PROFILE

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
DRAWN BY
CHECKED BY
IN CHARGE
DATE

ONLY FOR BIDDING PURPOSES - NOT FOR CONSTRUCTION

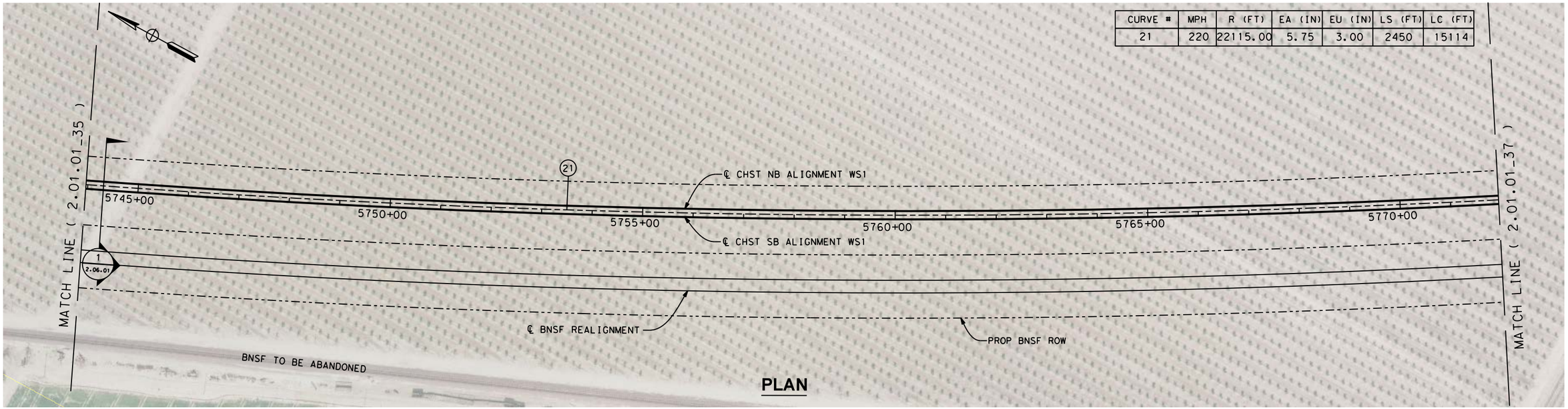
CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA RAIL BUILDERS

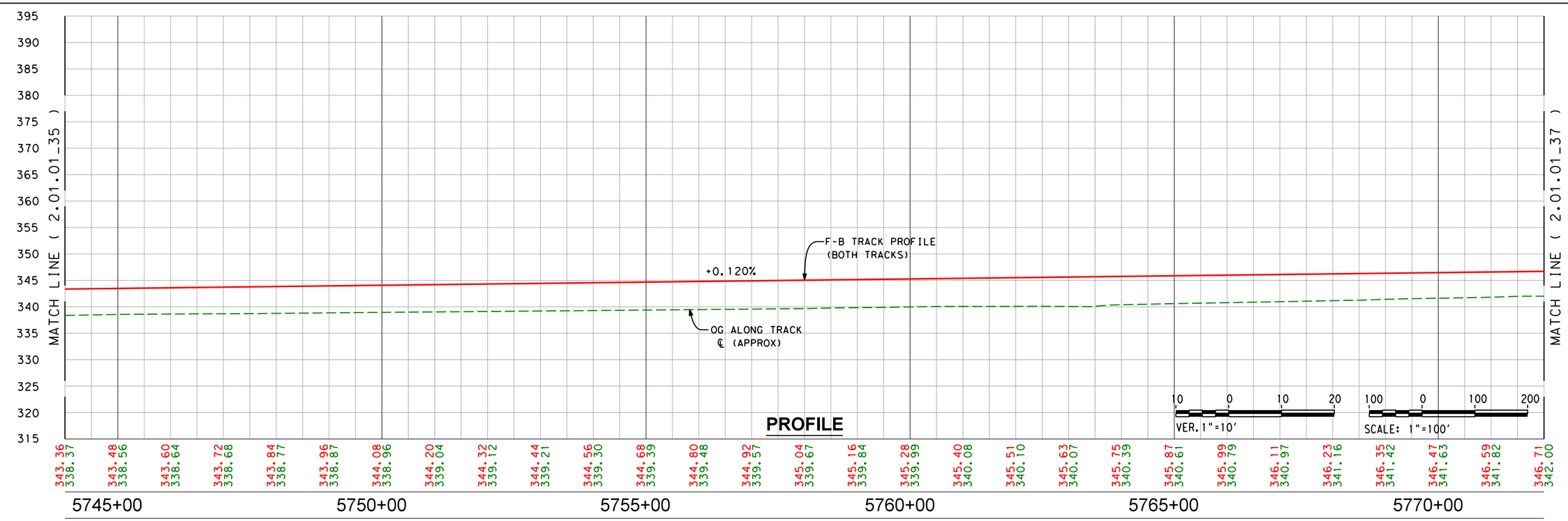
CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
THROUGH WASCO SUBSECTION
ALIGNMENT WS1
STA. 5716+00 TO 5744+00
PLAN AND PROFILE

CONTRACT NO.
DRAWING NO. 2.01.01_35
SCALE AS SHOWN
SHEET NO. 35 OF 40

CURVE #	MPH	R (FT)	EA (IN)	EU (IN)	LS (FT)	LC (FT)
21	220	22115.00	5.75	3.00	2450	15114



PLAN



PROFILE

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
DRAWN BY
CHECKED BY
IN CHARGE
DATE

ONLY FOR BIDDING PURPOSES - NOT FOR CONSTRUCTION

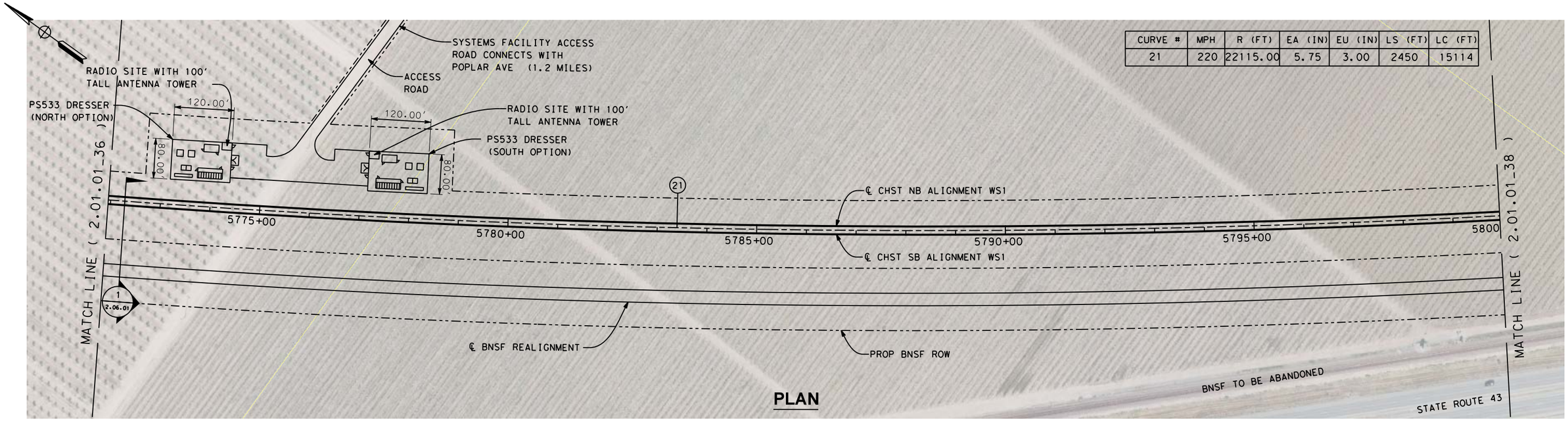
CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA RAIL BUILDERS

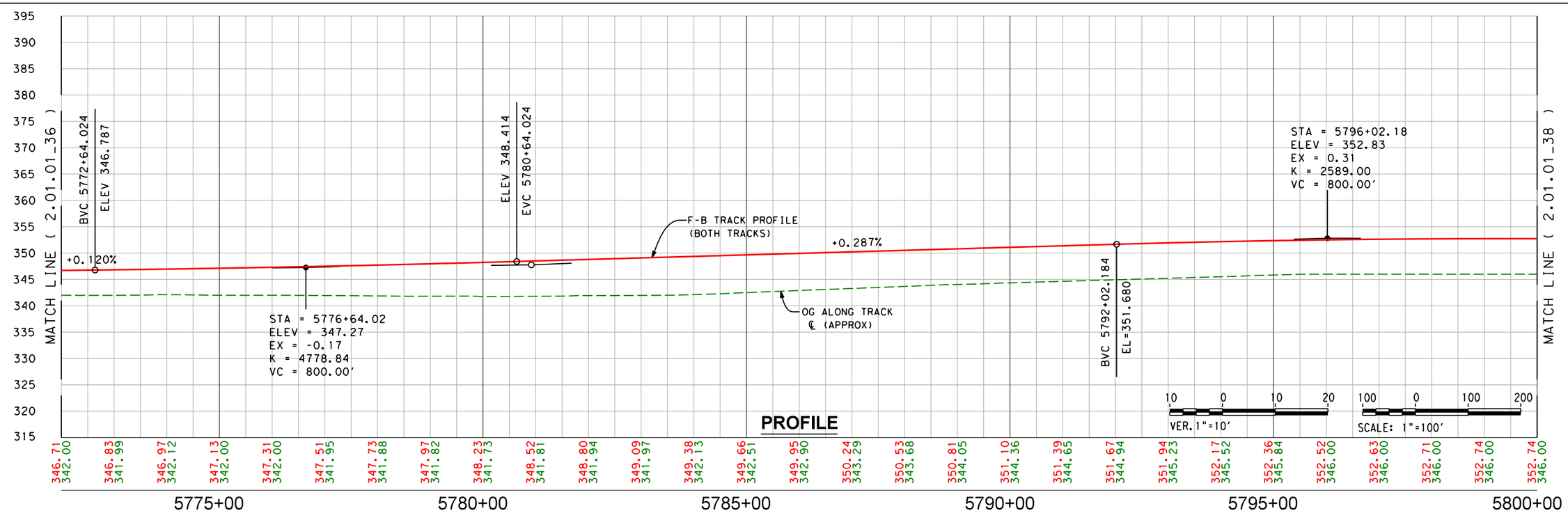
CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
THROUGH WASCO SUBSECTION
ALIGNMENT WS1
STA. 5744+00 TO 5772+00
PLAN AND PROFILE

CONTRACT NO.
DRAWING NO. 2.01.01_36
SCALE AS SHOWN
SHEET NO. 36 OF 40

CURVE #	MPH	R (FT)	EA (IN)	EU (IN)	LS (FT)	LC (FT)
21	220	22115.00	5.75	3.00	2450	15114



PLAN



PROFILE

REV	DATE	BY	CHK	APP	DESCRIPTION

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DRAWN BY
CHECKED BY
IN CHARGE
DATE

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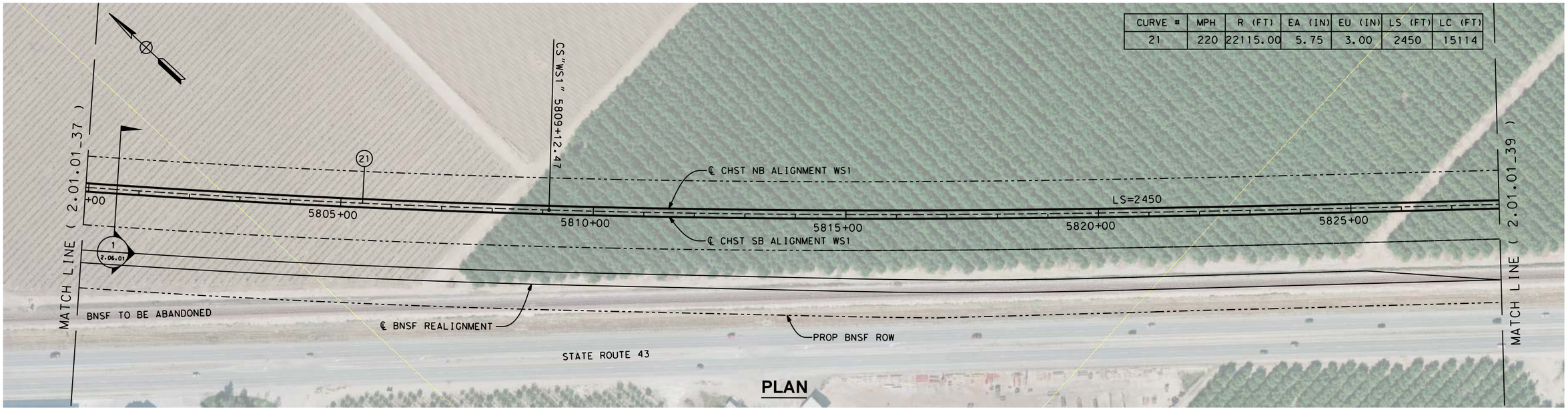
CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA RAIL BUILDERS

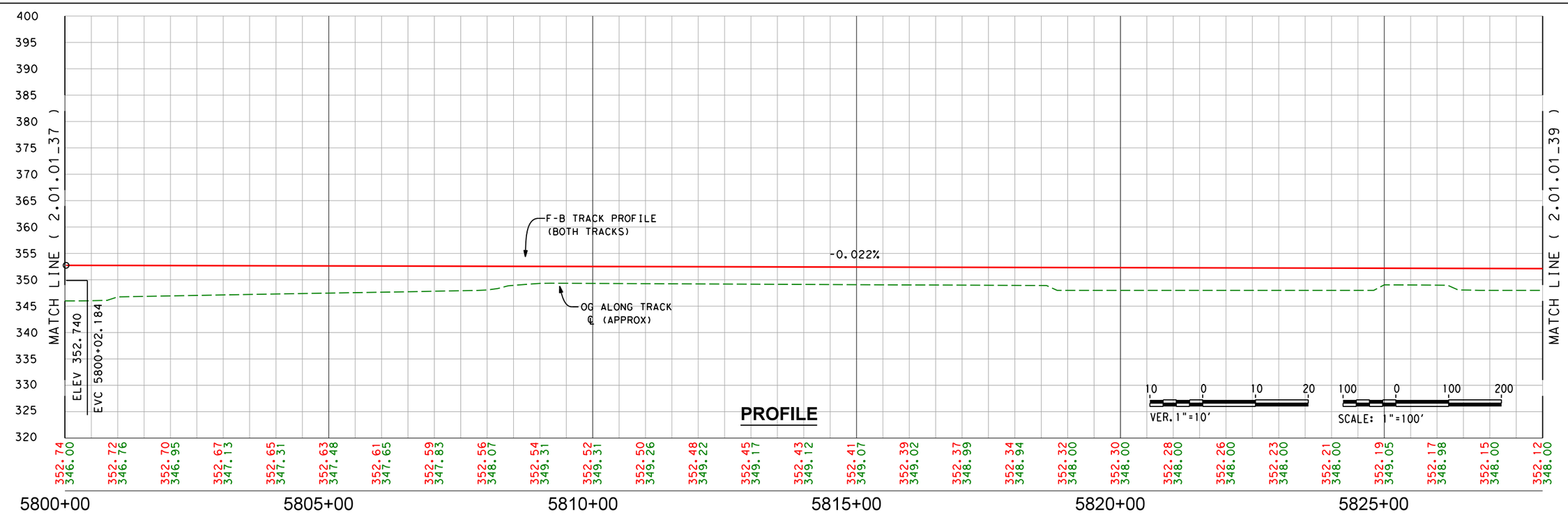
CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
THROUGH WASCO SUBSECTION
ALIGNMENT WS1
STA. 5772+00 TO 5800+00
PLAN AND PROFILE

CONTRACT NO.
DRAWING NO. 2.01.01_37
SCALE AS SHOWN
SHEET NO. 37 OF 40

CURVE #	MPH	R (FT)	EA (IN)	EU (IN)	LS (FT)	LC (FT)
21	220	22115.00	5.75	3.00	2450	15114



PLAN



PROFILE

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
DRAWN BY
CHECKED BY
IN CHARGE
DATE

ONLY FOR BIDDING PURPOSES - NOT FOR CONSTRUCTION

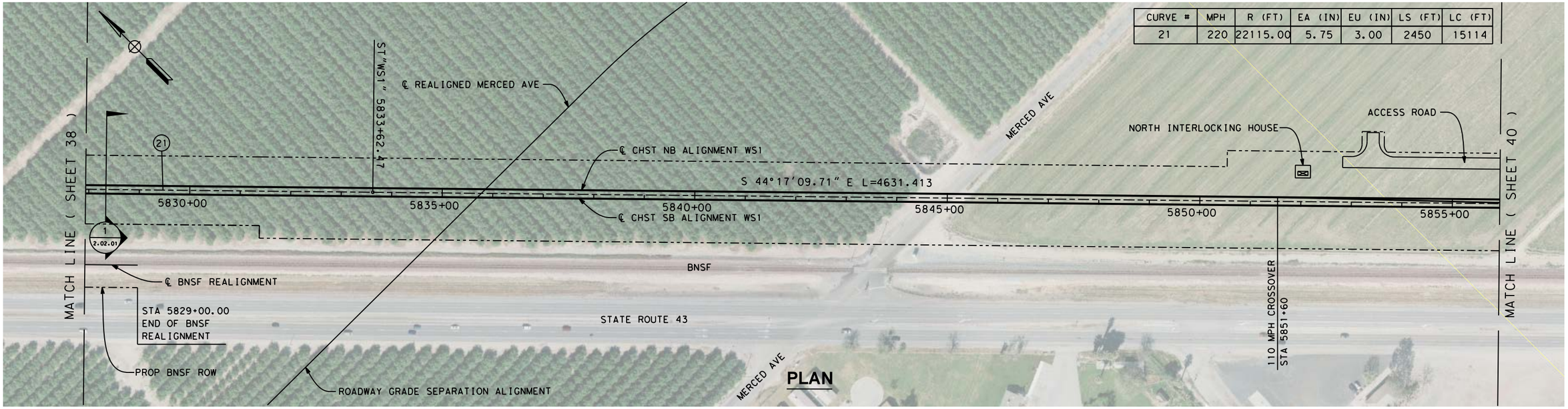
CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA RAIL BUILDERS

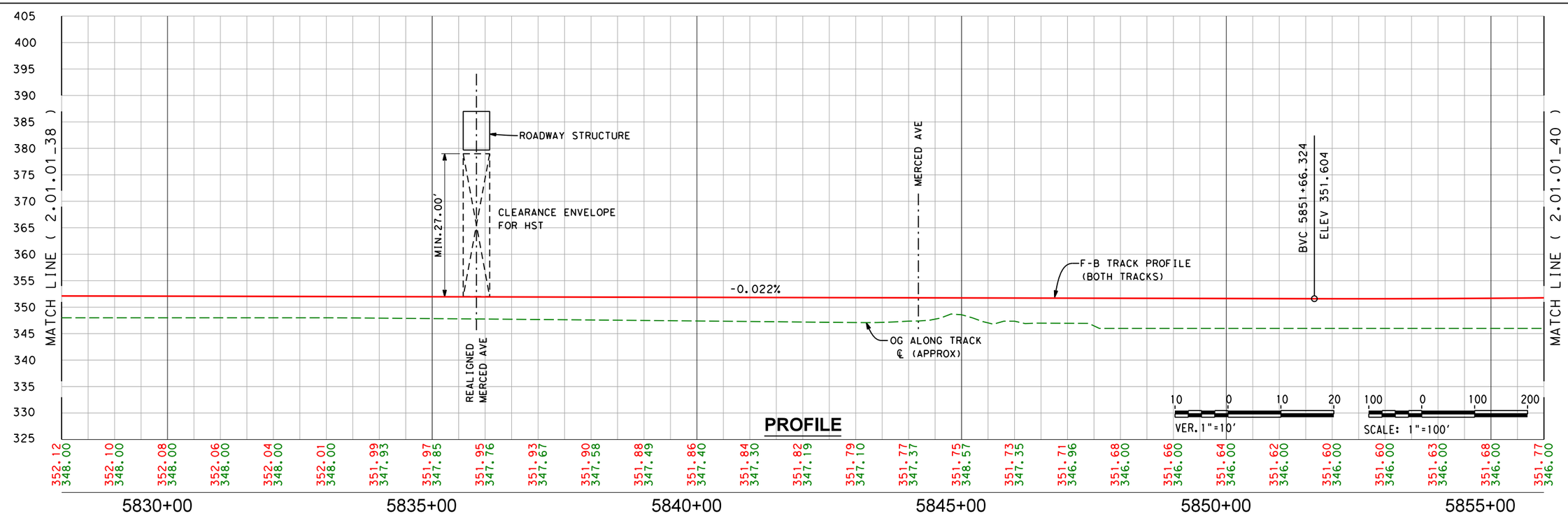
CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
THROUGH WASCO SUBSECTION
ALIGNMENT WS1
STA. 5800+00 TO 5828+00
PLAN AND PROFILE

CONTRACT NO.
DRAWING NO. 2.01.01_38
SCALE AS SHOWN
SHEET NO. 38 OF 40

CURVE #	MPH	R (FT)	EA (IN)	EU (IN)	LS (FT)	LC (FT)
21	220	22115.00	5.75	3.00	2450	15114



PLAN



PROFILE

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
DRAWN BY
CHECKED BY
IN CHARGE
DATE

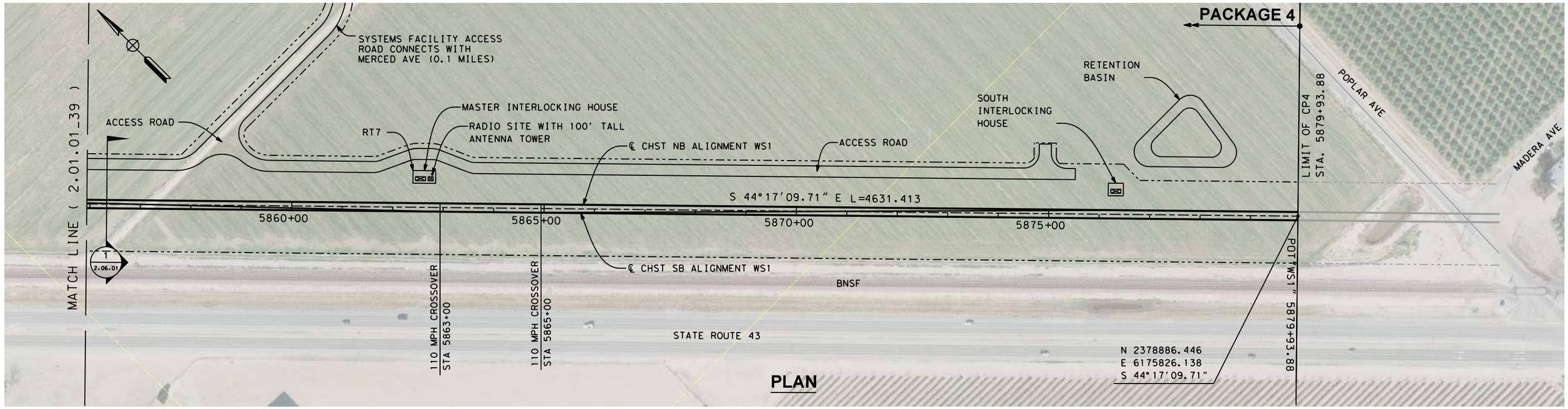
ONLY FOR BIDDING PURPOSES - NOT FOR CONSTRUCTION

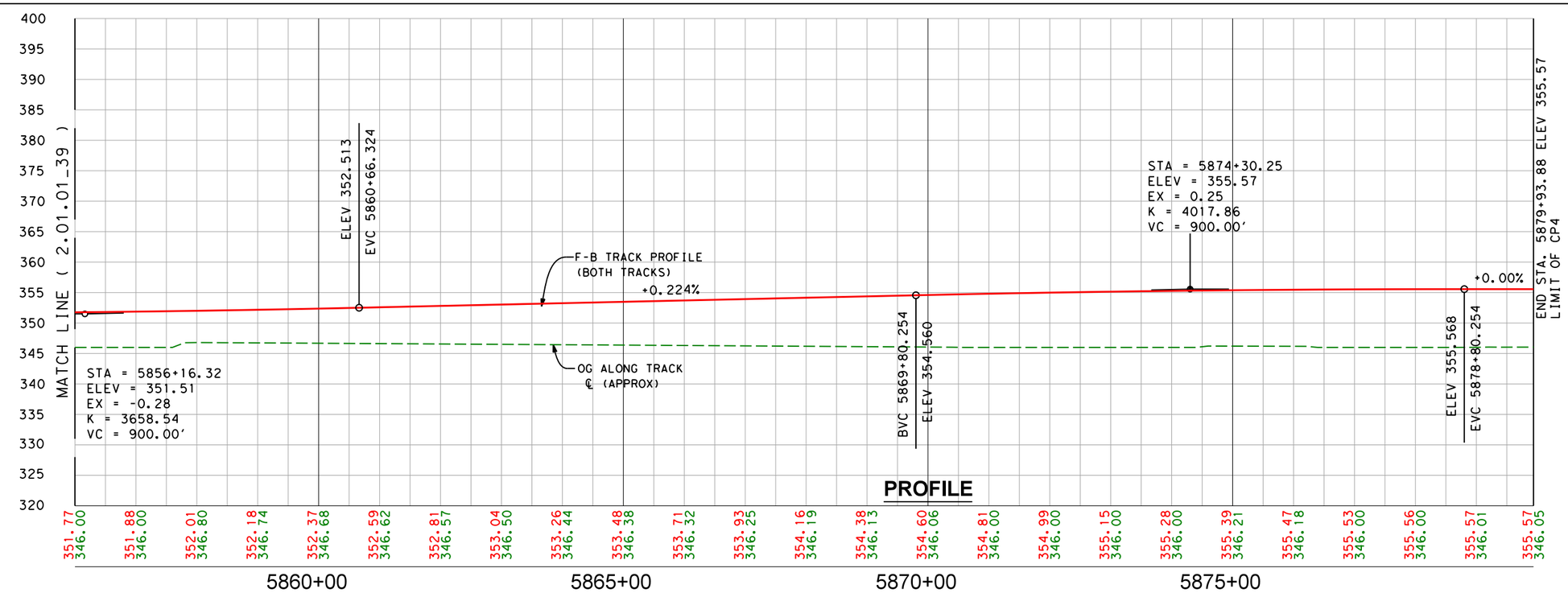
CALIFORNIA HIGH-SPEED RAIL AUTHORITY

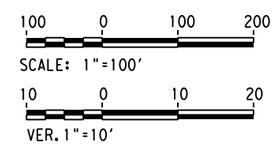
CALIFORNIA RAIL BUILDERS

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
THROUGH WASCO SUBSECTION
ALIGNMENT WS1
STA. 5828+00 TO 5856+00
PLAN AND PROFILE

CONTRACT NO.
DRAWING NO. 2.01.01_39
SCALE AS SHOWN
SHEET NO. 39 OF 40







REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
DRAWN BY
CHECKED BY
IN CHARGE
DATE

ONLY FOR BIDDING PURPOSES - NOT FOR CONSTRUCTION

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA RAIL BUILDERS

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
THROUGH WASCO SUBSECTION
ALIGNMENT WS1
STA. 5856+00 TO 5879+93.88
PLAN AND PROFILE

CONTRACT NO.
DRAWING NO. 2.01.01_40
SCALE AS SHOWN
SHEET NO. 40 OF 40

PLAN AND PROFILE
ROADWAYS

CALIFORNIA
HIGH-SPEED RAIL PROJECT

Design-Build Contract for
CONSTRUCTION PACKAGE 4

Proposal | RFP Number: HSR 14-32

CALIFORNIA RAIL BUILDERS

CURVE DATA

NO.	R	Δ	T	L
1	700.00′	15°07′26″	92.93′	184.77′
2	38000.00′	04°27′05″	1964.86′	3926.71′

LINE DATA

No.	BEARING	DISTANCE
1	S01°13′15.28″W	216.07′
2	S13°54′10.80″E	927.03′

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
DRAWN BY
CHECKED BY
IN CHARGE
DATE

ONLY FOR BIDDING PURPOSES - NOT FOR CONSTRUCTION

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA RAIL BUILDERS

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
ALLENSWORTH BYPASS SUBSECTION
ALIGNMENT A1
GRADE SEPARATION LAYOUT
SCOFIELD AVE

CONTRACT NO.
DRAWING NO. 2.01.02_01
SCALE AS SHOWN
SHEET NO. 1 OF 28

CURVE DATA

NO.	R	Δ	T	L
2	38000.00′	04°27′05″	1964.86′	3926.71′
3	25000.00′	01°19′38″	579.17′	289.60′
4	3100.00′	09°22′29″	507.23′	254.18′

LINE DATA

No.	BEARING	DISTANCE
3	S19°40′54.57″E	402.07

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
DRAWN BY
CHECKED BY
IN CHARGE
DATE

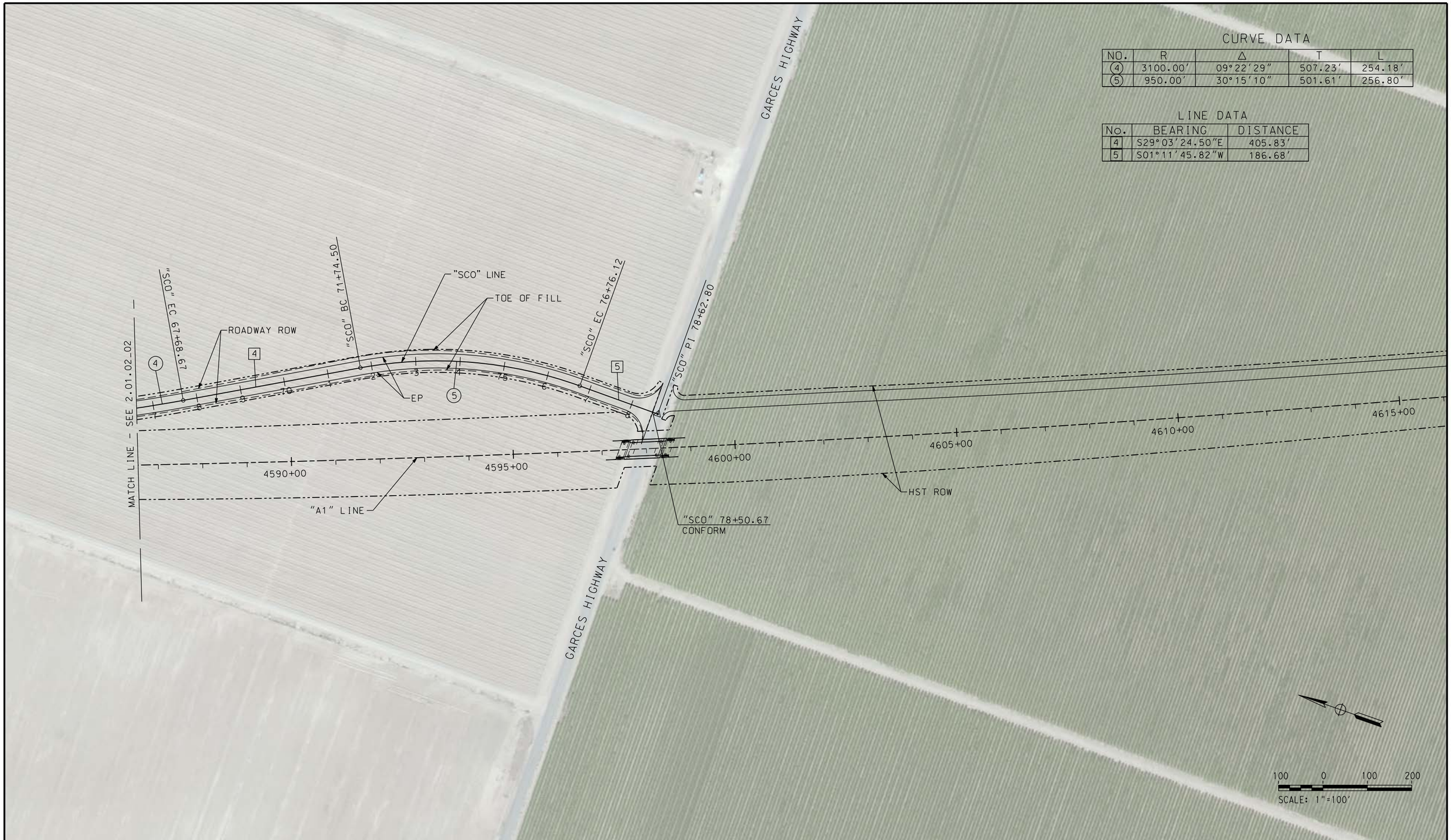
ONLY FOR BIDDING PURPOSES - NOT FOR CONSTRUCTION

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA RAIL BUILDERS

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
ALLENSWORTH BYPASS SUBSECTION
ALIGNMENT A1
GRADE SEPARATION LAYOUT
SCOFIELD AVE

CONTRACT NO.
DRAWING NO. 2.01.02_02
SCALE AS SHOWN
SHEET NO. 2 OF 28



CURVE DATA

NO.	R	Δ	T	L
4	3100.00'	09°22'29"	507.23'	254.18'
5	950.00'	30°15'10"	501.61'	256.80'

LINE DATA

No.	BEARING	DISTANCE
4	S29°03'24.50"E	405.83'
5	S01°11'45.82"W	186.68'

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
DRAWN BY
CHECKED BY
IN CHARGE
DATE

ONLY FOR BIDDING PURPOSES - NOT FOR CONSTRUCTION

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA RAIL BUILDERS

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
ALLENSWORTH BYPASS SUBSECTION
ALIGNMENT A1
GRADE SEPARATION LAYOUT
SCOFIELD AVE

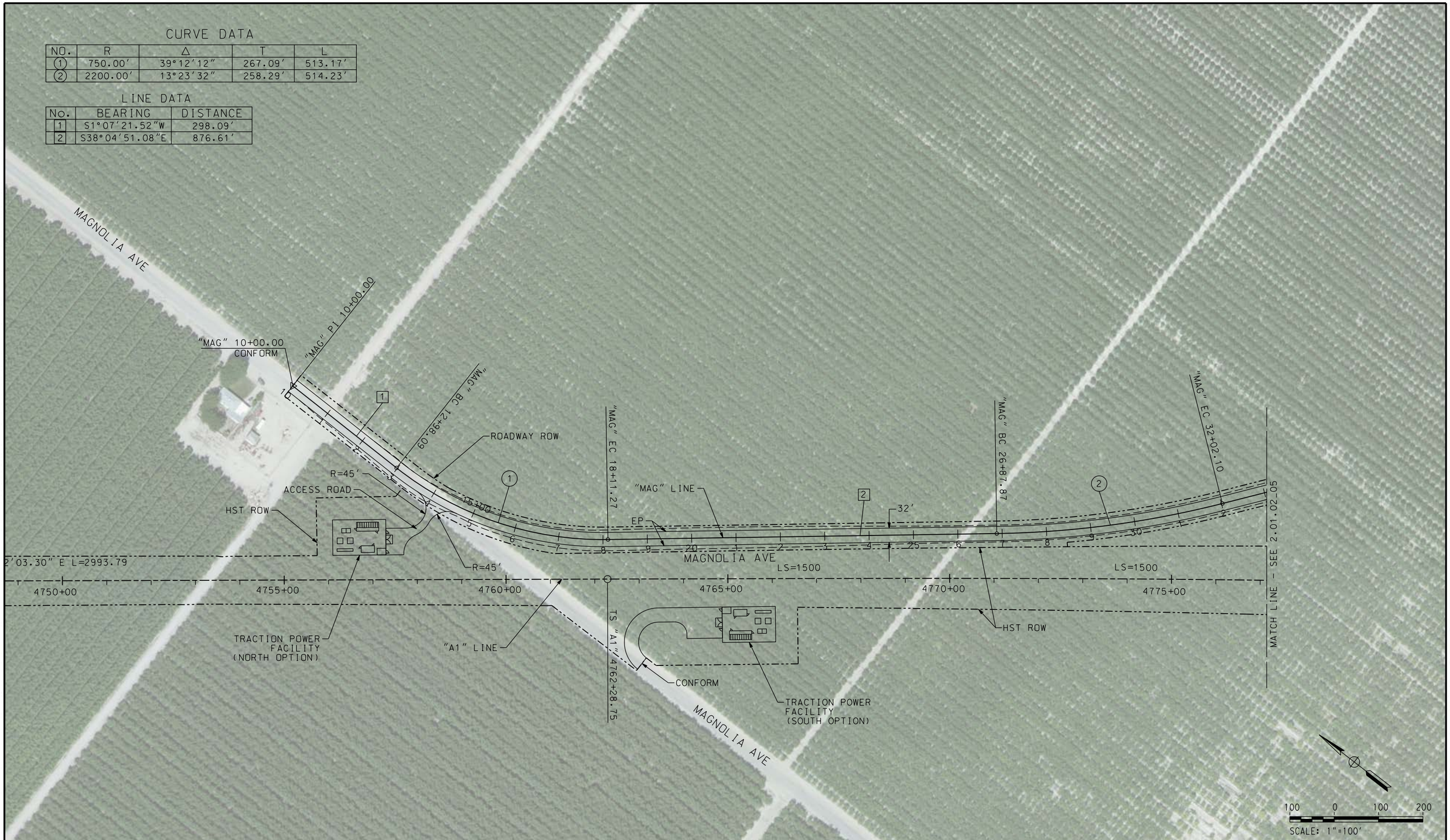
CONTRACT NO.
DRAWING NO. 2.01.02_03
SCALE AS SHOWN
SHEET NO. 3 OF 18

CURVE DATA

NO.	R	Δ	T	L
1	750.00'	39°12'12"	267.09'	513.17'
2	2200.00'	13°23'32"	258.29'	514.23'

LINE DATA

No.	BEARING	DISTANCE
1	S1°07'21.52"W	298.09'
2	S38°04'51.08"E	876.61'



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
DRAWN BY
CHECKED BY
IN CHARGE
DATE

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CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA RAIL BUILDERS

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
ALLENSWORTH BYPASS SUBSECTION
ALIGNMENT A1
GRADE SEPARATION LAYOUT
MAGNOLIA AVE

CONTRACT NO.
DRAWING NO. 2.01.02_04
SCALE AS SHOWN
SHEET NO. 4 OF 28

CURVE DATA

NO.	R	Δ	T	L
3	700.00'	52°02'47"	341.76'	635.87'

LINE DATA

No.	BEARING	DISTANCE
3	S51°28'23.74"E	392.14'
4	S00°34'23.85"W	150.32'

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
DRAWN BY
CHECKED BY
IN CHARGE
DATE

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CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA RAIL BUILDERS

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
ALLENSWORTH BYPASS SUBSECTION
ALIGNMENT A1
GRADE SEPARATION LAYOUT
MAGNOLIA AVE

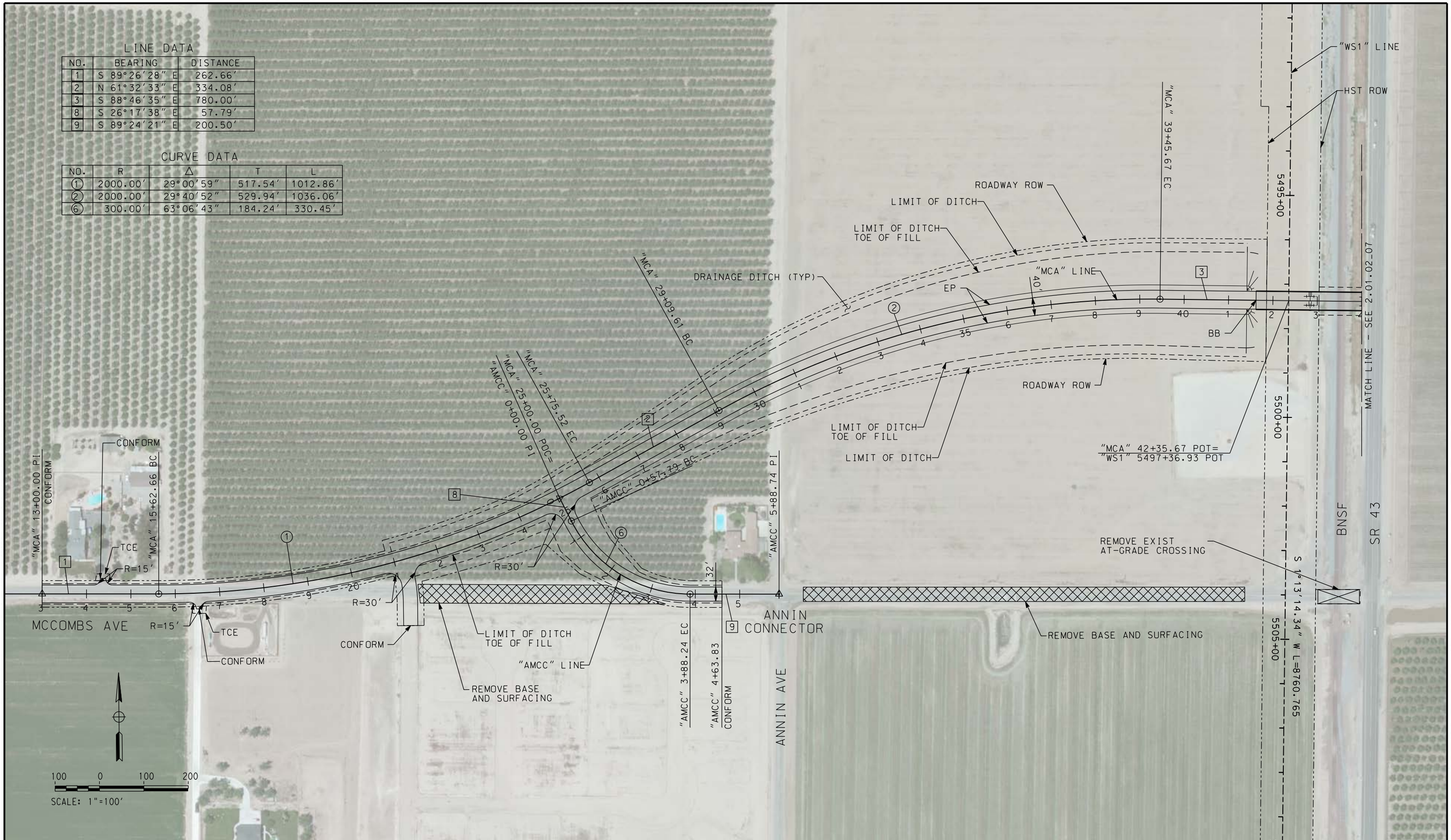
CONTRACT NO.
DRAWING NO. 2.01.02_05
SCALE AS SHOWN
SHEET NO. 5 OF 28

LINE DATA

NO.	BEARING	DISTANCE
1	S 89°26′28″ E	262.66′
2	N 61°32′33″ E	334.08′
3	S 88°46′35″ E	780.00′
8	S 26°17′38″ E	57.79′
9	S 89°24′21″ E	200.50′

CURVE DATA

NO.	R	Δ	T	L
1	2000.00′	29°00′59″	517.54′	1012.86′
2	2000.00′	29°40′52″	529.94′	1036.06′
6	300.00′	63°06′43″	184.24′	330.45′



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
DRAWN BY
CHECKED BY
IN CHARGE
DATE

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CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA RAIL BUILDERS

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
THROUGH WASCO SUBSECTION
ALIGNMENT WS1
GRADE SEPARATION LAYOUT
MCCOMBS AVE

CONTRACT NO.
DRAWING NO. 2.01.02_06
SCALE AS SHOWN
SHEET NO. 6 OF 28

LINE DATA

NO.	BEARING	DISTANCE
3	S 88°46'35" E	780.00'
4	S 61°49'38" E	430.30'
5	S 89°26'28" E	439.42'
6	N 28°10'22" E	78.00'
7	S 89°26'28" E	1274.22'

CURVE DATA

NO.	R	Δ	T	L
3	2000.00'	26°56'57"	479.22'	940.71'
4	2000.00'	27°36'50"	491.50'	963.91'
5	300.00'	62°23'10"	181.64'	326.65'

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
DRAWN BY
CHECKED BY
IN CHARGE
DATE

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CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA RAIL BUILDERS

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
THROUGH WASCO SUBSECTION
ALIGNMENT WS1
GRADE SEPARATION LAYOUT
MCCOMBS AVE

CONTRACT NO.
DRAWING NO. 2.01.02_07
SCALE AS SHOWN
SHEET NO. 7 OF 28

CURVE DATA

NO.	R	Δ	T	L
1	20000.00'	00°09'29"	27.63'	55.25'
2	2000.00'	01°56'36"	33.92'	67.84'
3	2000.00'	01°53'28"	33.01'	66.02'
4	2000.00'	02°07'52"	37.20'	74.39'
5	2000.00'	02°08'31"	37.39'	74.77'

LINE DATA

No.	BEARING	DISTANCE
1	S88°54'15.62"E	659.61'
2	S88°44'45.80"E	695.59'
3	S88°47'53.53"E	396.69'
4	S88°48'32.56"E	270.14'

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
DRAWN BY
CHECKED BY
IN CHARGE
DATE

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CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA RAIL BUILDERS

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
THROUGH WASCO SUBSECTION
ALIGNMENT WS1
GRADE SEPARATION LAYOUT
6TH STREET

CONTRACT NO.
DRAWING NO. 2.01.02_08
SCALE AS SHOWN
SHEET NO. 8 OF 28

CURVE DATA

NO.	R	Δ	T	L
1	1000.00'	05°45'33"	50.30'	100.52'
2	1000.00'	04°52'17"	42.54'	85.02'
3	2000.00'	03°09'47"	55.22'	110.42'
4	2000.00'	01°14'02"	21.54'	43.08'
5	570.00'	76°30'25"	449.41'	761.12'
6	607.00'	38°30'52"	212.06'	408.03'

LINE DATA

No.	BEARING	DISTANCE
1	S88°09'00.49"E	666.53'
2	S89°02'16.34"E	450.30'
3	S85°52'28.82"E	80.94'
4	N02°16'46.85"E	601.12'
5	N03°30'49.50"E	413.64'

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
DRAWN BY
CHECKED BY
IN CHARGE
DATE

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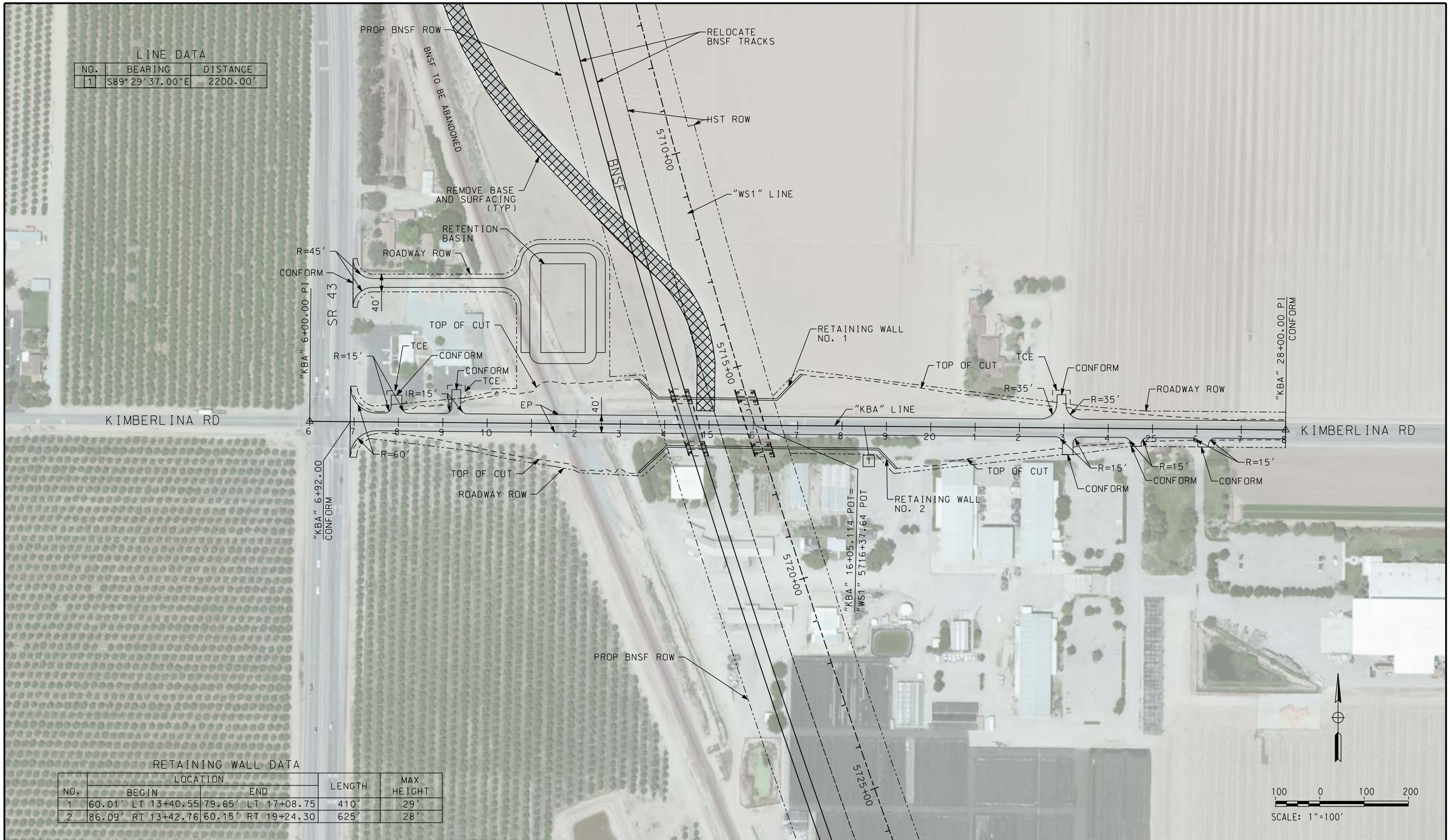
CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA RAIL BUILDERS

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
THROUGH WASCO SUBSECTION
ALIGNMENT WS1
GRADE SEPARATION LAYOUT
POSO AVE

CONTRACT NO.
DRAWING NO. 2.01.02_09
SCALE AS SHOWN
SHEET NO. 9 OF 28



LINE DATA

NO.	BEARING	DISTANCE
1	S89°29'37.00"E	2200.00'

RETAINING WALL DATA

NO.	LOCATION BEGIN	LOCATION END	LENGTH	MAX HEIGHT
1	60.01' LT 13+40.55	79.65' LT 17+08.75	410'	29'
2	86.09' RT 13+42.76	60.15' RT 19+24.30	625'	28'

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
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IN CHARGE
DATE

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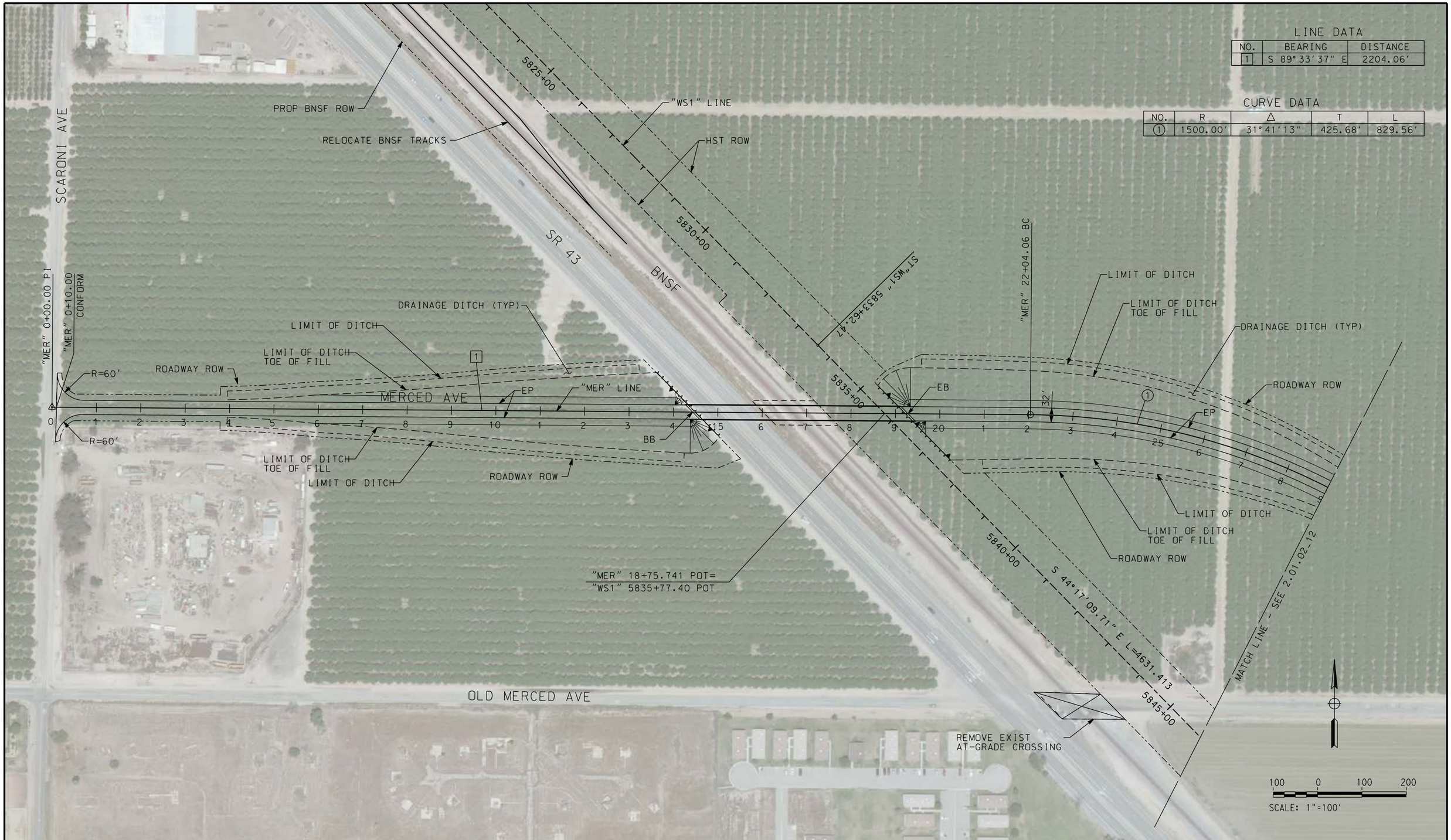
CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA RAIL BUILDERS

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
THROUGH WASCO SUBSECTION
ALIGNMENT WS1
GRADE SEPARATION LAYOUT
KIMBERLINA RD

CONTRACT NO.
DRAWING NO. 2.01.02_10
SCALE AS SHOWN
SHEET NO. 10 OF 28



REV	DATE	BY	CHK	APP	DESCRIPTION

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DATE

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CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA RAIL BUILDERS

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
THROUGH WASCO SUBSECTION
ALIGNMENT WS1
GRADE SEPARATION LAYOUT
MERCED AVE

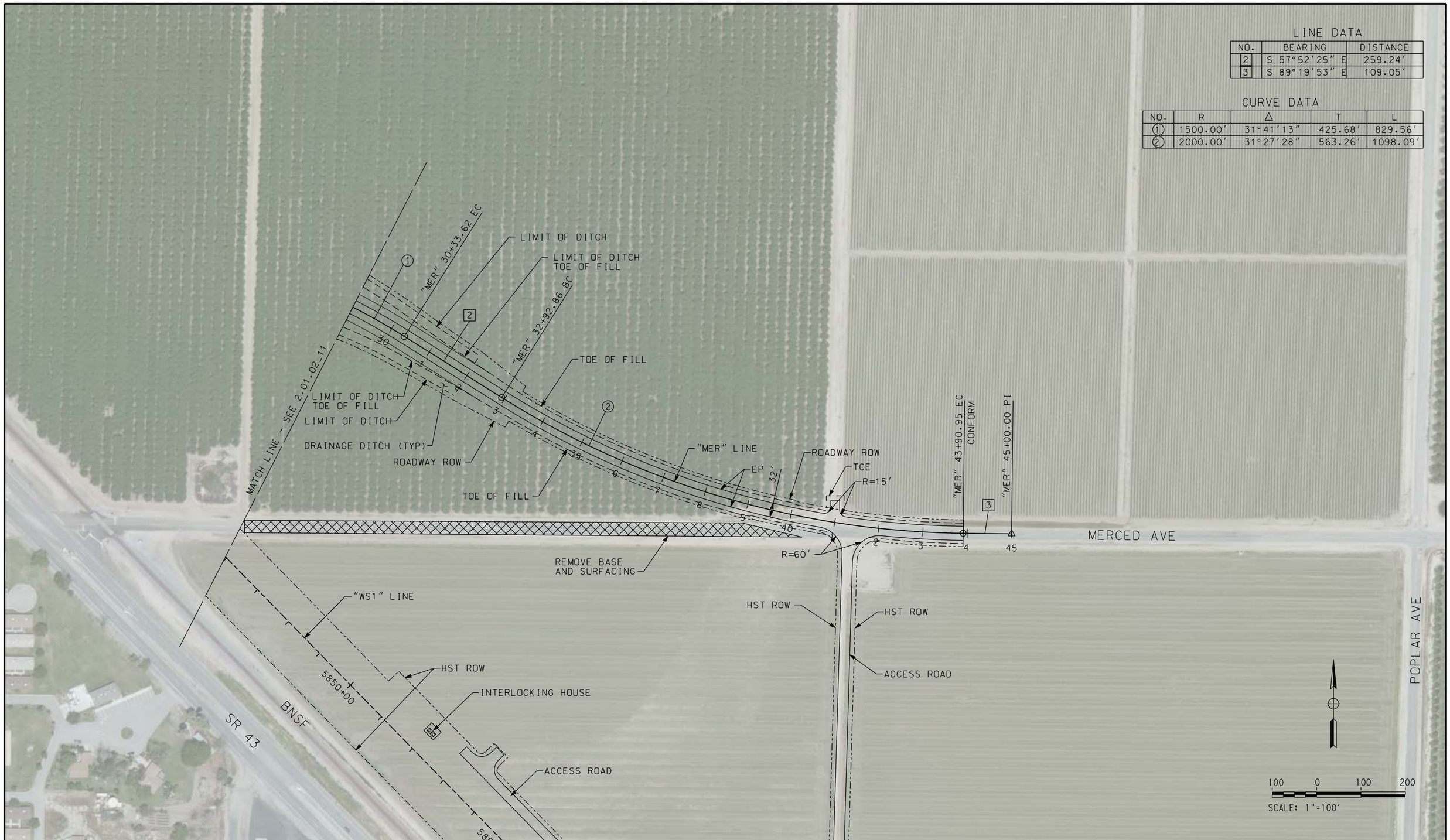
CONTRACT NO.
DRAWING NO. 2.01.02_11
SCALE AS SHOWN
SHEET NO. 11 OF 23

LINE DATA

NO.	BEARING	DISTANCE
2	S 57°52′25″ E	259.24′
3	S 89°19′53″ E	109.05′

CURVE DATA

NO.	R	Δ	T	L
1	1500.00′	31°41′13″	425.68′	829.56′
2	2000.00′	31°27′28″	563.26′	1098.09′



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
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IN CHARGE
DATE

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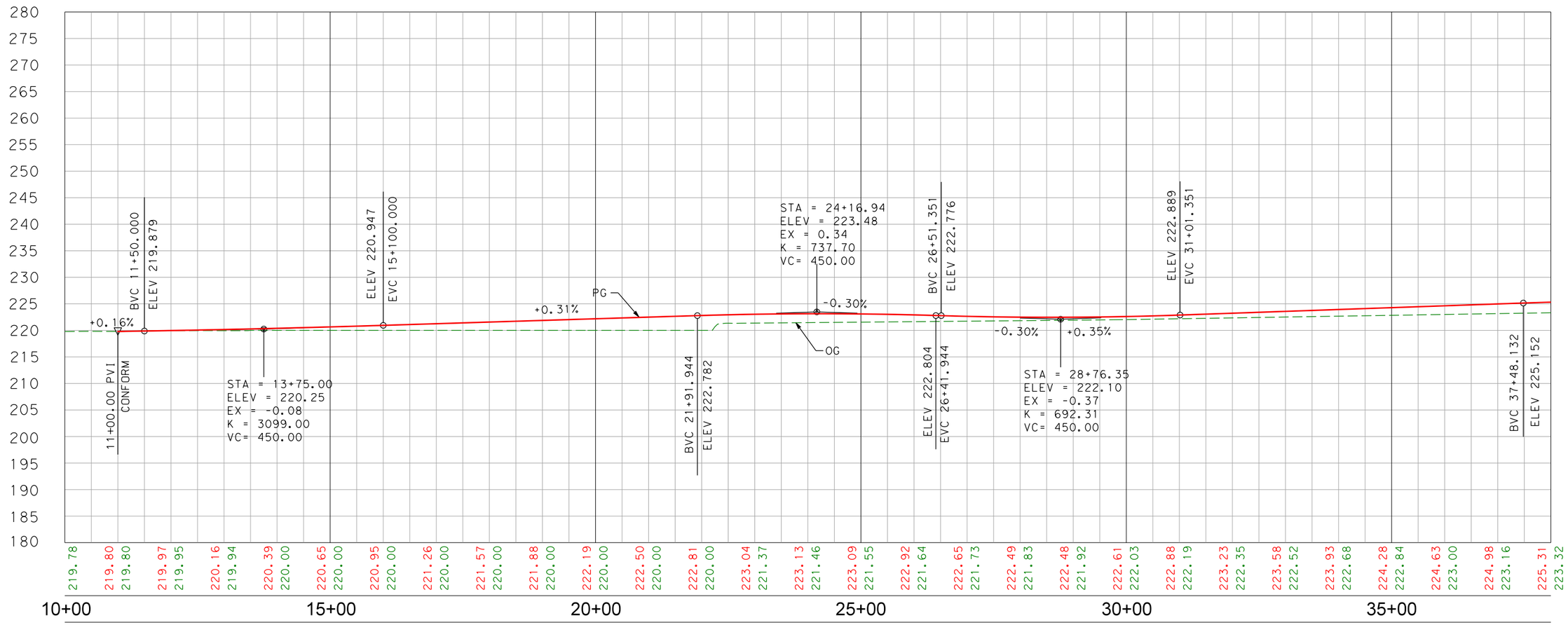
CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA RAIL BUILDERS

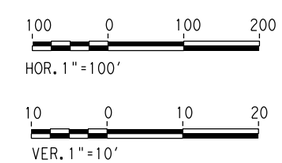
CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
THROUGH WASCO SUBSECTION
ALIGNMENT WS1
GRADE SEPARATION LAYOUT
MERCED AVE

CONTRACT NO.
DRAWING NO. 2.01.02_12
SCALE AS SHOWN
SHEET NO. 12 OF 28



PROFILE

"SCO" LINE



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
DRAWN BY
CHECKED BY
IN CHARGE
DATE

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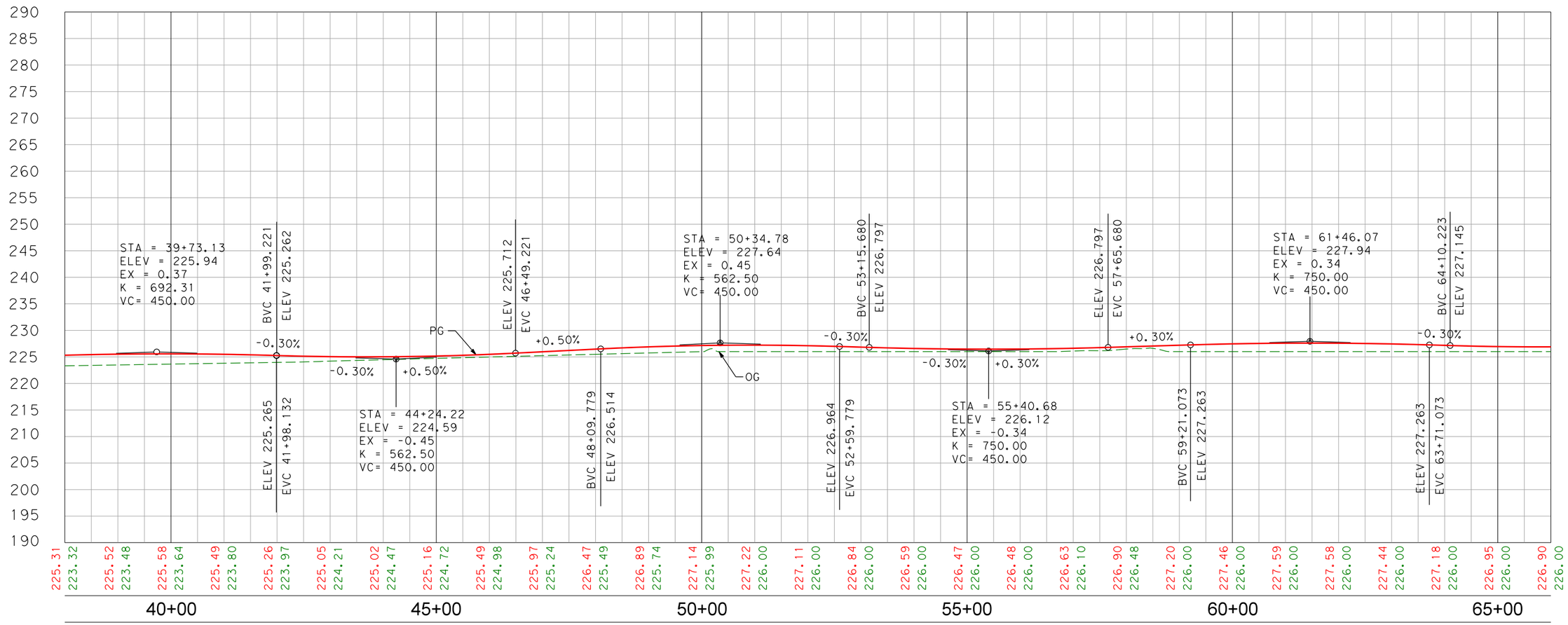
CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA RAIL BUILDERS

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
ALLENSWORTH BYPASS SUBSECTION
ALIGNMENT A1
GRADE SEPERATION PROFILE
SCOFIELD AVE

CONTRACT NO.
DRAWING NO. 2.01.02_13
SCALE AS SHOWN
SHEET NO. 13 OF 28



PROFILE

"SCO" LINE

100 0 100 200
HOR. 1"=100'

10 0 10 20
VER. 1"=10'

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
DRAWN BY
CHECKED BY
IN CHARGE
DATE

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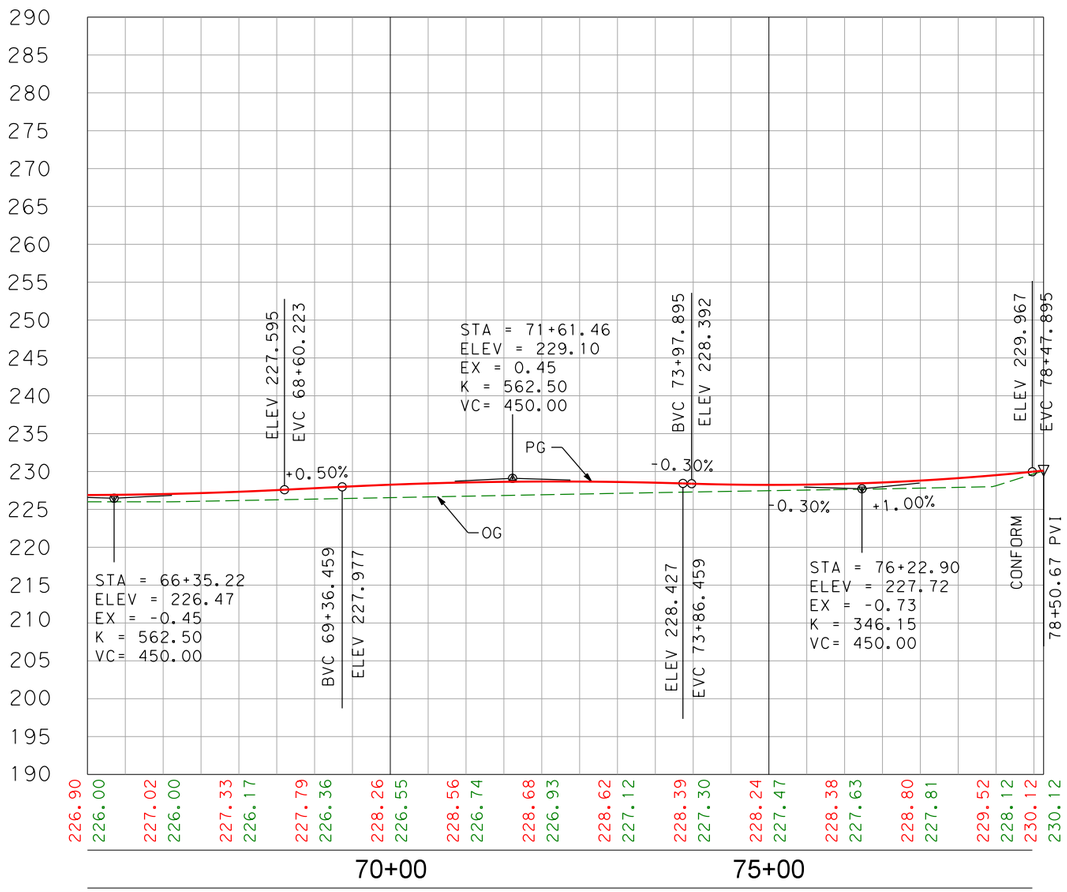
CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA RAIL BUILDERS

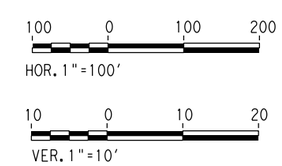
CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
ALLENSWORTH BYPASS SUBSECTION
ALIGNMENT A1
GRADE SEPERATION PROFILE
SCOFIELD AVE

CONTRACT NO.
DRAWING NO. 2.01.02_14
SCALE AS SHOWN
SHEET NO. 14 OF 28



PROFILE

"SCO" LINE



REV	DATE	BY	CHK	APP	DESCRIPTION

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DRAWN BY
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DATE

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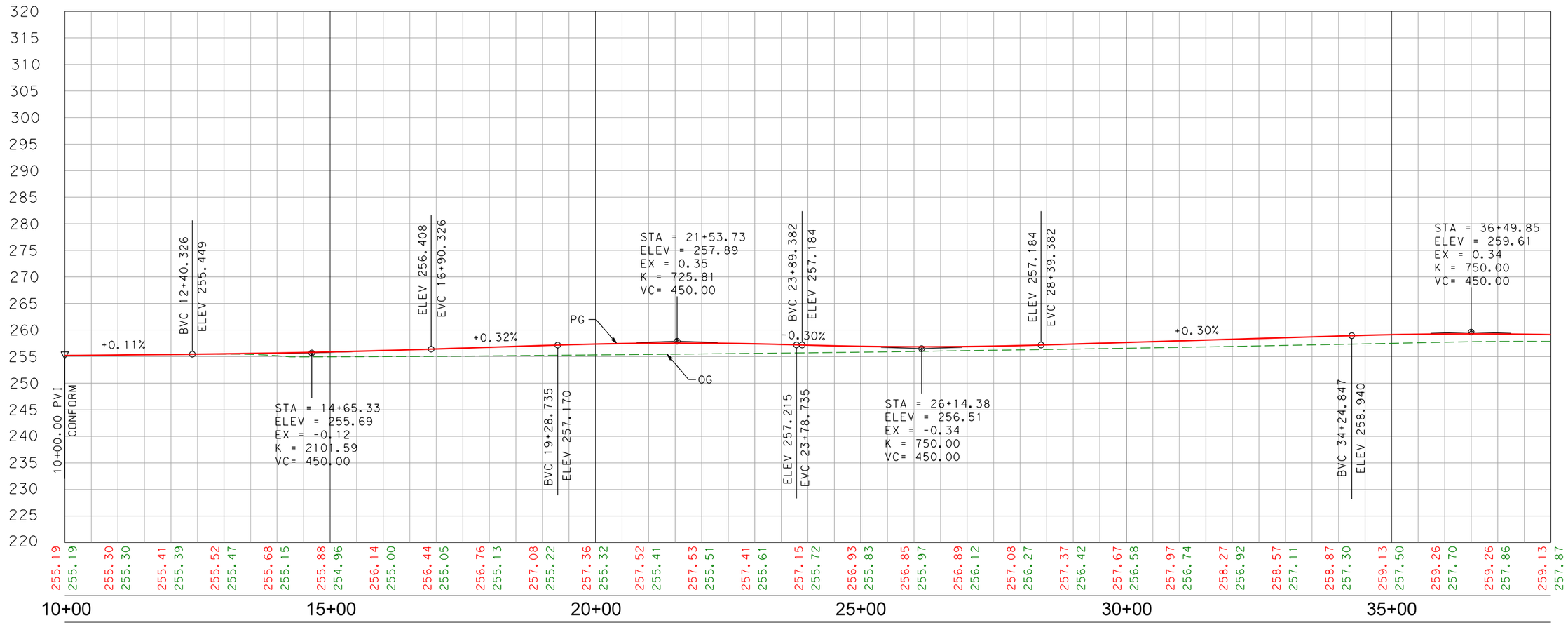
CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA RAIL BUILDERS

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD

ALLENSWORTH BYPASS SUBSECTION
ALIGNMENT A1
GRADE SEPERATION PROFILE
SCOFIELD AVE

CONTRACT NO.
DRAWING NO. 2.01.02_15
SCALE AS SHOWN
SHEET NO. 15 OF 28



PROFILE

"MAG" LINE

100 0 100 200
HOR. 1"=100'

10 0 10 20
VER. 1"=10'

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
DRAWN BY
CHECKED BY
IN CHARGE
DATE

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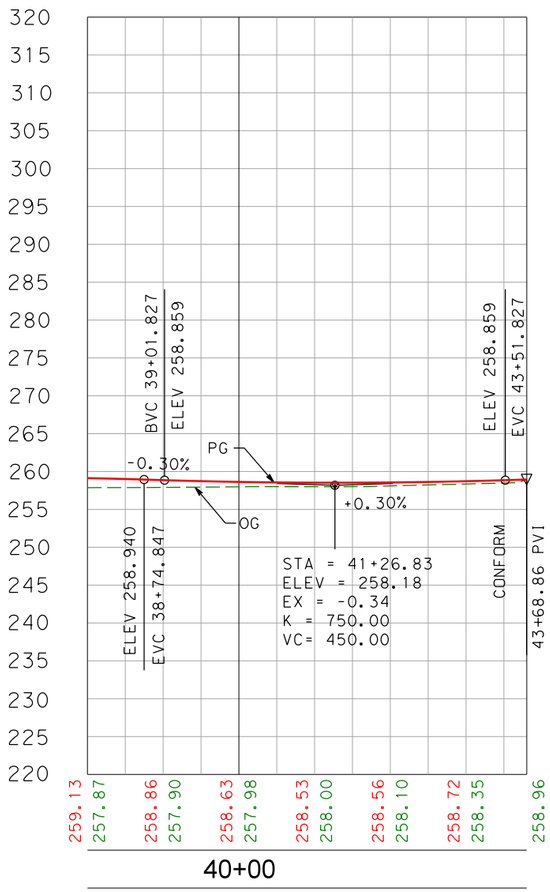
CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA RAIL BUILDERS

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
ALLENSWORTH BYPASS SUBSECTION
ALIGNMENT A1
GRADE SEPERATION PROFILE
MAGNOLIA AVE

CONTRACT NO.
DRAWING NO. 2.01.02_16
SCALE AS SHOWN
SHEET NO. 16 OF 28



PROFILE

"MAG" LINE

100 0 100 200

HOR. 1"=100'

10 0 10 20

VER. 1"=10'

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
DRAWN BY
CHECKED BY
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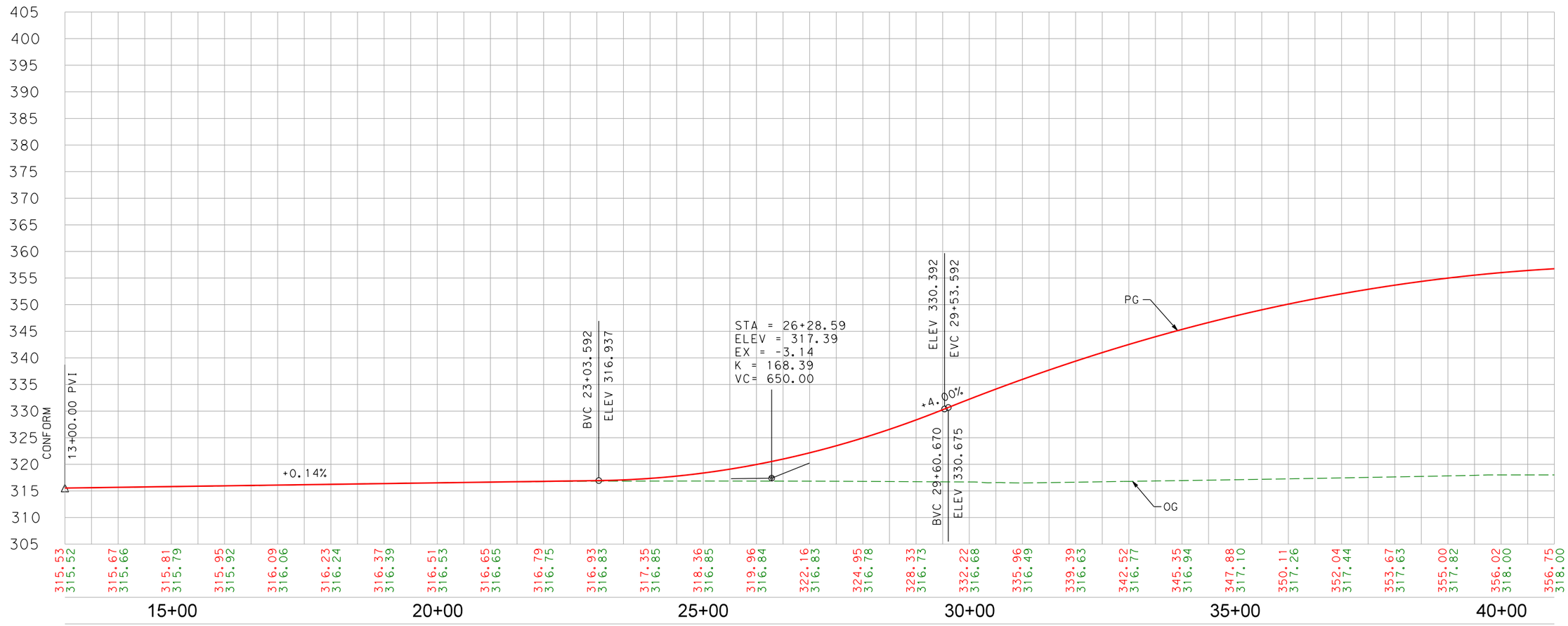
CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA RAIL BUILDERS

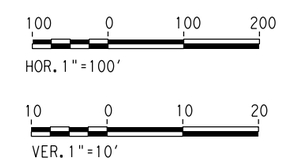
CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
ALLENSWORTH BYPASS SUBSECTION
ALIGNMENT A1
GRADE SEPERATION PROFILE
MAGNOLIA AVE

CONTRACT NO.
DRAWING NO. 2.01.02_17
SCALE AS SHOWN
SHEET NO. 17 OF 28



PROFILE

"MCA" LINE



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
DRAWN BY
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DATE

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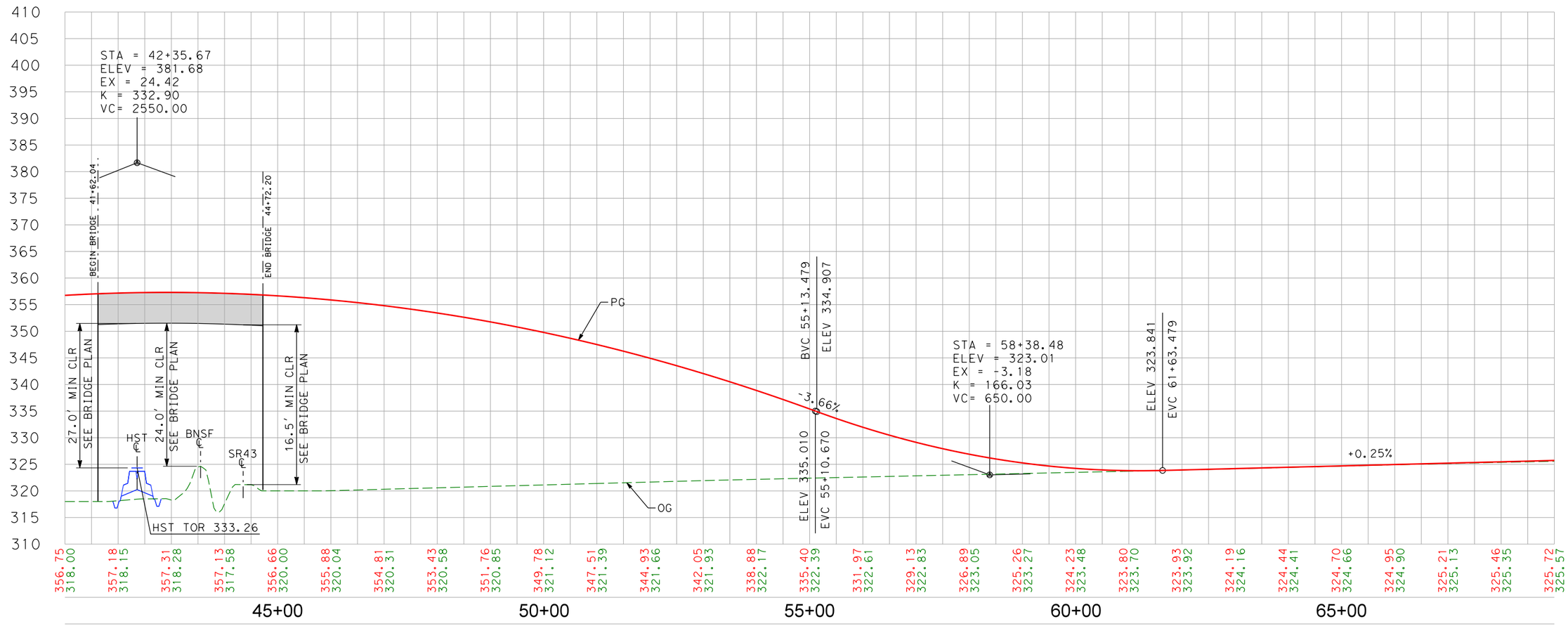
CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA RAIL BUILDERS

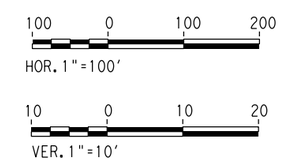
CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
THROUGH WASCO SUBSECTION
ALIGNMENT WS1
GRADE SEPERATION PROFILE
MCCOMBS AVE

CONTRACT NO.
DRAWING NO. 2.01.02_18
SCALE AS SHOWN
SHEET NO. 18 OF 28



PROFILE

"MCA" LINE



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
DRAWN BY
CHECKED BY
IN CHARGE
DATE

ONLY FOR BIDDING PURPOSES - NOT FOR CONSTRUCTION

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA RAIL BUILDERS

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
THROUGH WASCO SUBSECTION
ALIGNMENT WS1
GRADE SEPERATION PROFILE
MCCOMBS AVE

CONTRACT NO.
DRAWING NO. 2.01.02_19
SCALE AS SHOWN
SHEET NO. 19 OF 28

PROFILE

"MCA" LINE

100 0 100 200
HOR. 1"=100'

10 0 10 20
VER. 1"=10'

REV	DATE	BY	CHK	APP	DESCRIPTION

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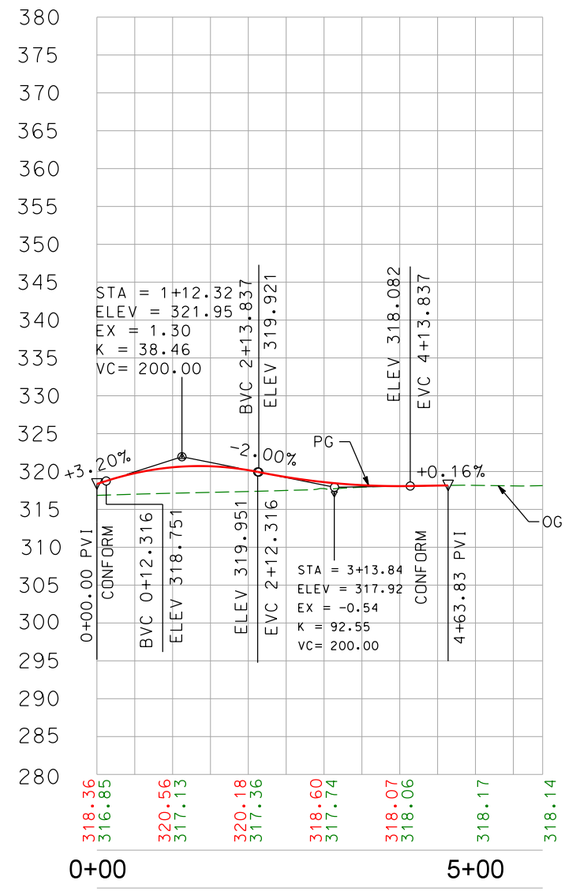
CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA RAIL BUILDERS

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
THROUGH WASCO SUBSECTION
ALIGNMENT WS1
GRADE SEPERATION PROFILE
MCCOMBS AVE

CONTRACT NO.
DRAWING NO. 2.01.02_20
SCALE AS SHOWN
SHEET NO. 20 OF 28



PROFILE

"AMCC" LINE

HOR. 1"=100'

VER. 1"=10'

REV	DATE	BY	CHK	APP	DESCRIPTION

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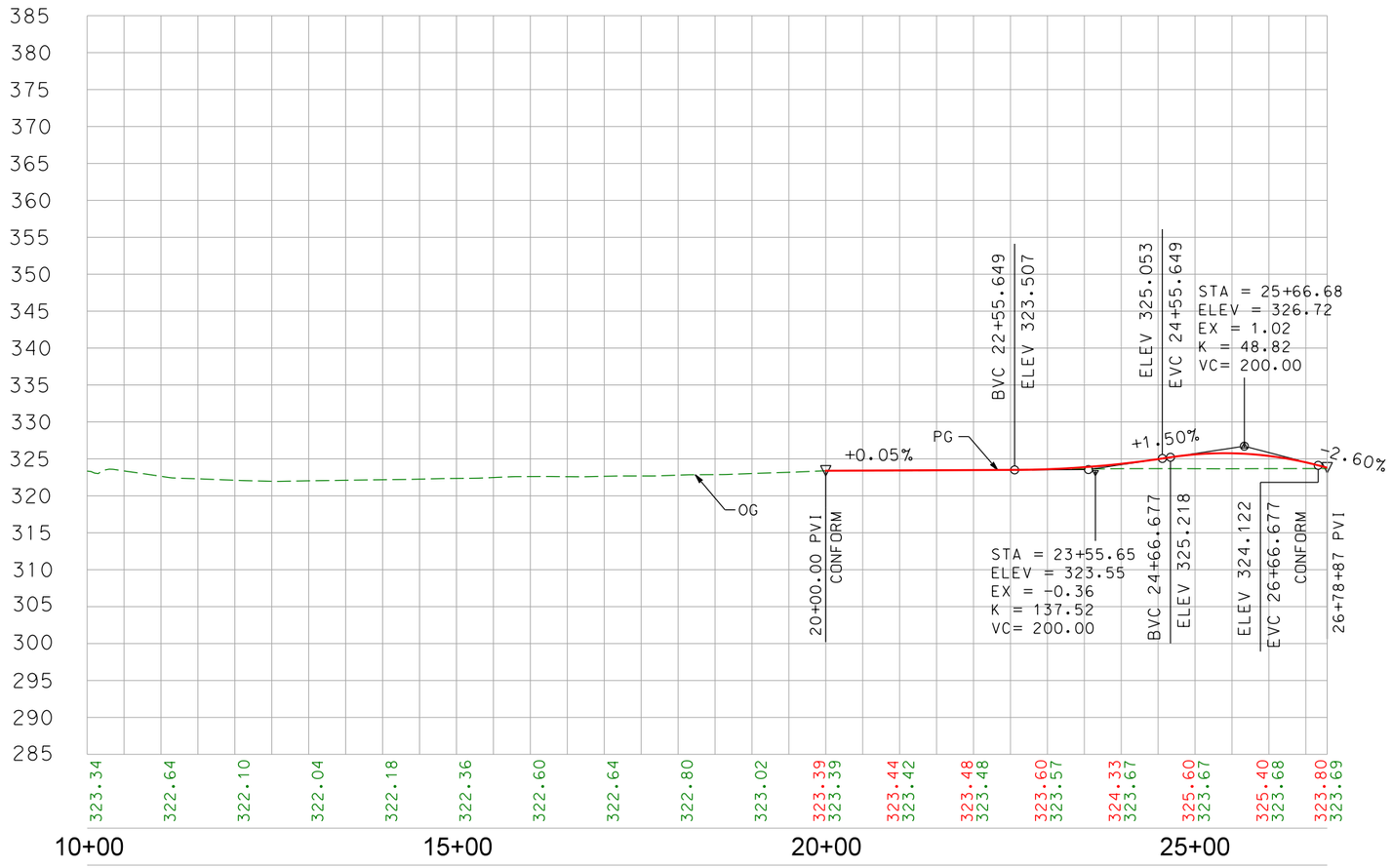
CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA RAIL BUILDERS

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
THROUGH WASCO SUBSECTION
ALIGNMENT WS1
GRADE SEPERATION PROFILE
ANNIN CONNECTOR

CONTRACT NO.
DRAWING NO. 2.01.02_21
SCALE AS SHOWN
SHEET NO. 21 OF 28



PROFILE

"MCAC" LINE

100 0 100 200
HOR. 1"=100'

10 0 10 20
VER. 1"=10'

REV	DATE	BY	CHK	APP	DESCRIPTION

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DATE

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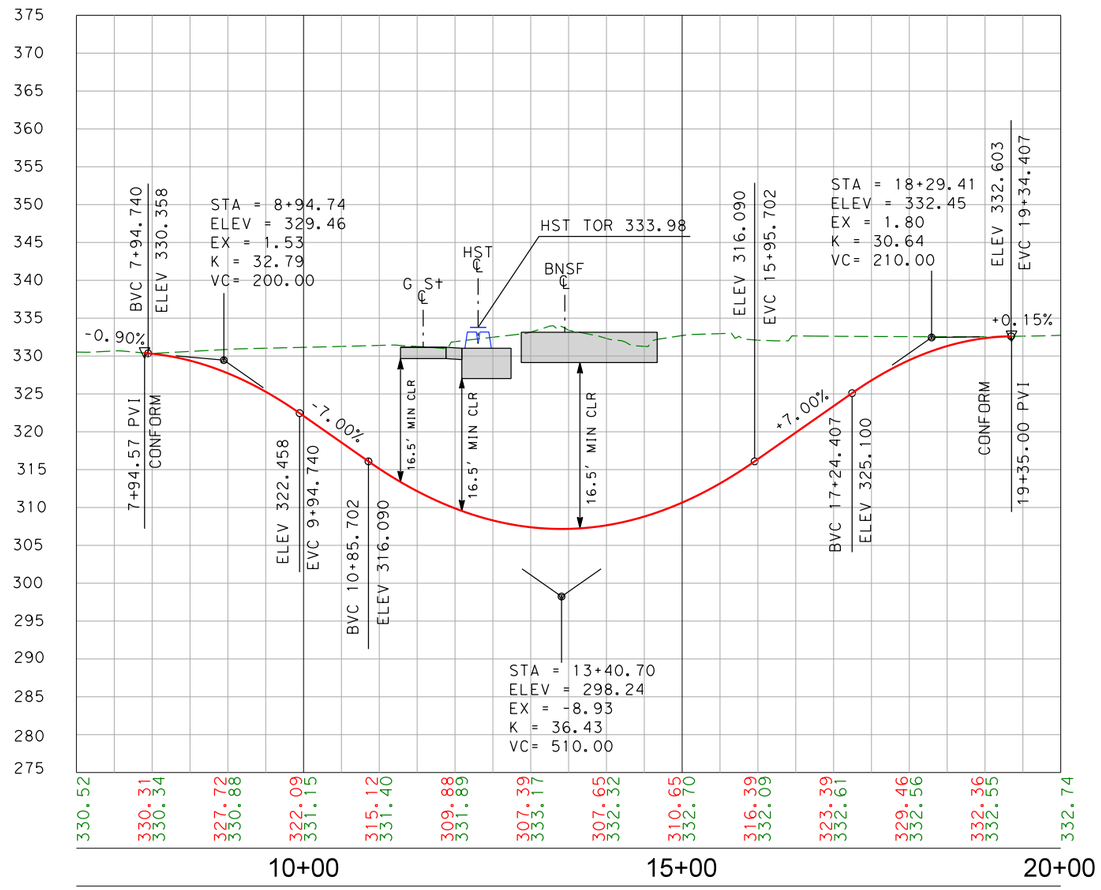
CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA RAIL BUILDERS

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
THROUGH WASCO SUBSECTION
ALIGNMENT WS1
GRADE SEPERATION PROFILE
MCCOMBS CONNECTOR

CONTRACT NO.
DRAWING NO. 2.01.02_22
SCALE AS SHOWN
SHEET NO. 22 OF 28



PROFILE

"6TH" LINE

100 0 100 200
HOR. 1"=100'

10 0 10 20
VER. 1"=10'

REV	DATE	BY	CHK	APP	DESCRIPTION

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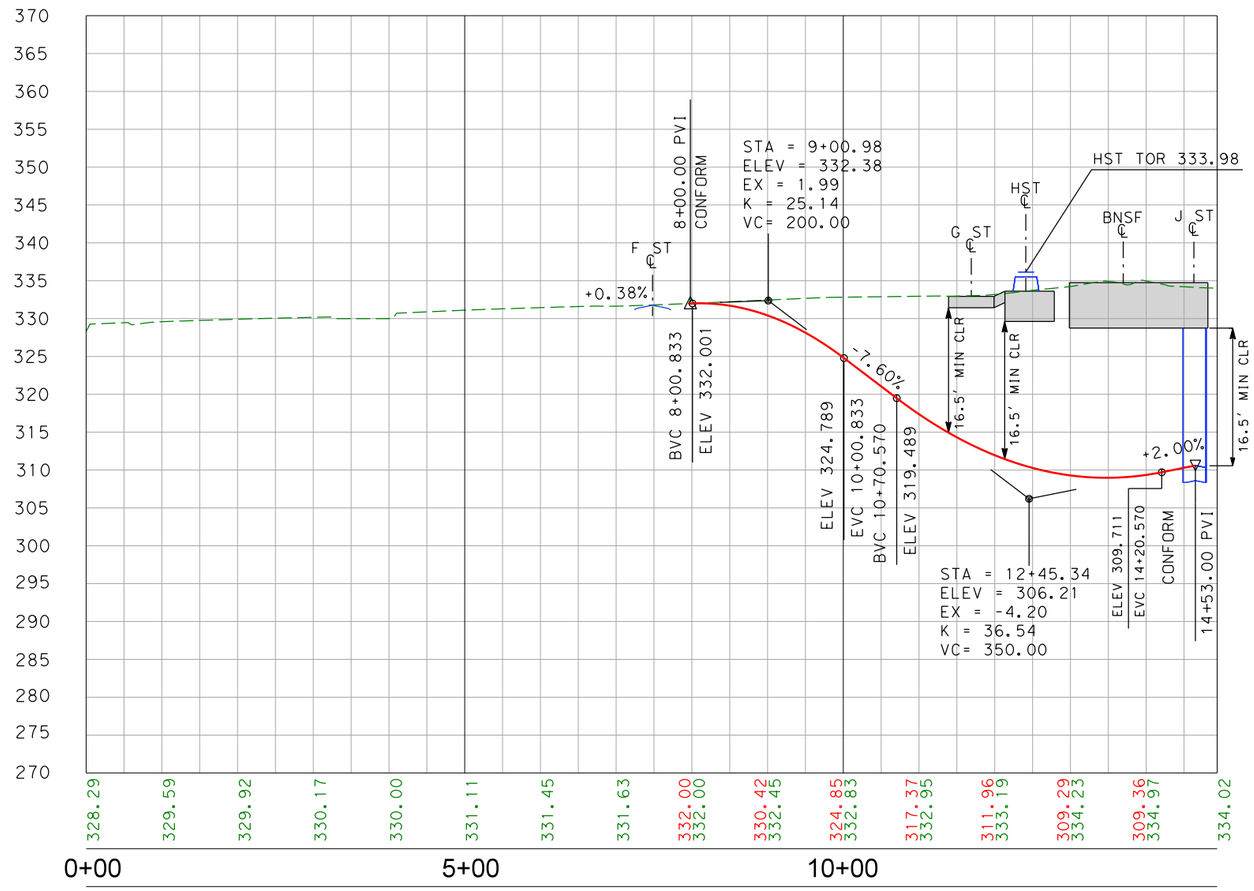
CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA RAIL BUILDERS

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
THROUGH WASCO SUBSECTION
ALIGNMENT WS1
GRADE SEPERATION PROFILE
6TH STREET

CONTRACT NO.
DRAWING NO. 2.01.02_23
SCALE AS SHOWN
SHEET NO. 23 OF 28



PROFILE

"POS" LINE

100 0 100 200
HOR. 1"=100'

10 0 10 20
VER. 1"=10'

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
DRAWN BY
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DATE

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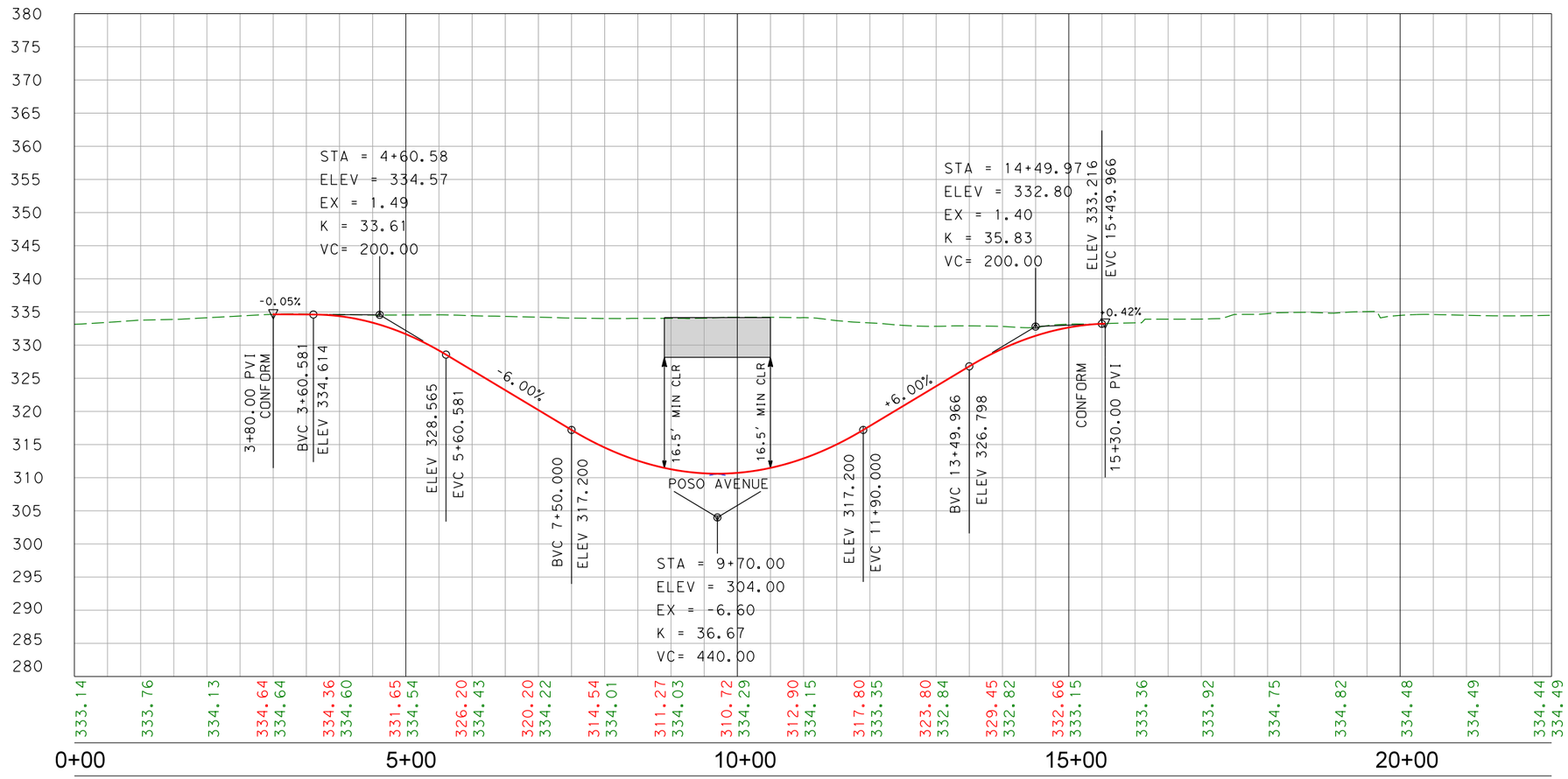
CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA RAIL BUILDERS

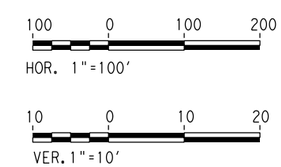
CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
THROUGH WASCO SUBSECTION
ALIGNMENT WS1
GRADE SEPERATION PROFILE
POSO AVENUE

CONTRACT NO.
DRAWING NO. 2.01.02_24
SCALE AS SHOWN
SHEET NO. 24 OF 28



PROFILE

"JST" LINE



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DRAWN BY
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IN CHARGE
DATE

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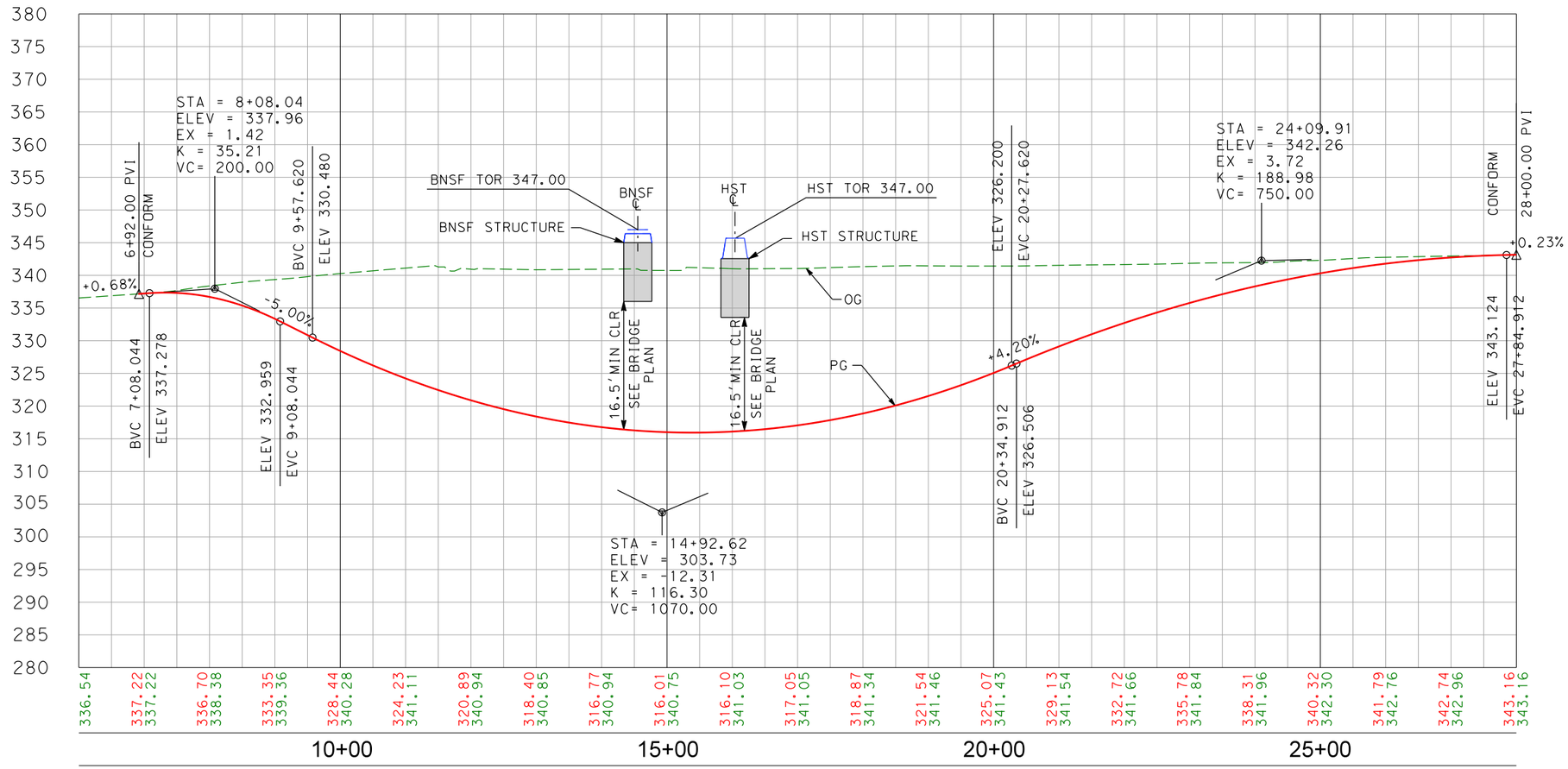
CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA RAIL BUILDERS

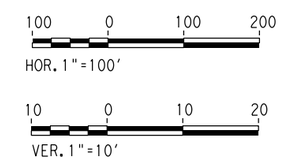
CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
THROUGH WASCO SUBSECTION
ALIGNMENT WS1
GRADE SEPERATION PROFILE
J STREET

CONTRACT NO.
DRAWING NO. 2.01.02_25
SCALE AS SHOWN
SHEET NO. 25 OF 28



PROFILE

"KBA" LINE



REV	DATE	BY	CHK	APP	DESCRIPTION

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DATE

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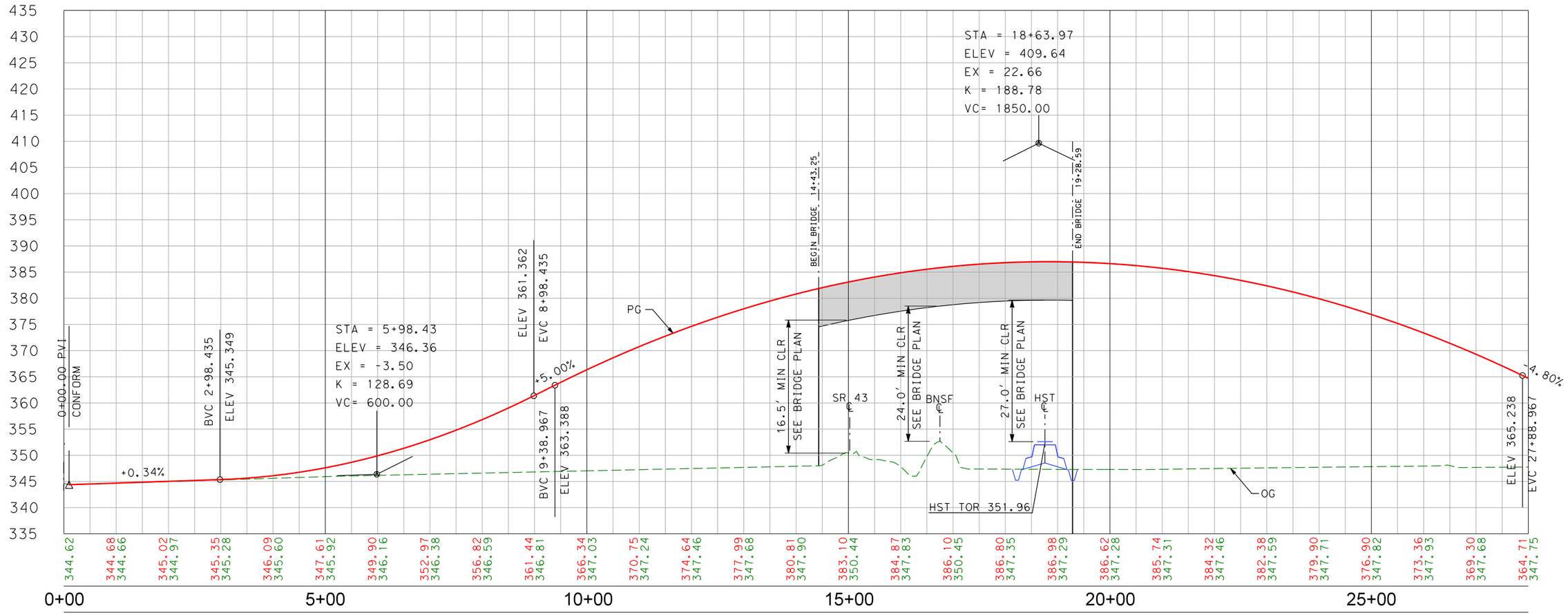
CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA RAIL BUILDERS

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
THROUGH WASCO SUBSECTION
ALIGNMENT WS1
GRADE SEPERATION PROFILE
KIMBERLINA RD

CONTRACT NO.
DRAWING NO. 2.01.02_26
SCALE AS SHOWN
SHEET NO. 26 OF 28



PROFILE

"MER" LINE

100 0 100 200
HOR. 1"=100'

10 0 10 20
VER. 1"=10'

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
DRAWN BY
CHECKED BY
IN CHARGE
DATE

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CALIFORNIA HIGH-SPEED RAIL AUTHORITY

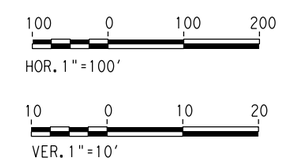
CALIFORNIA RAIL BUILDERS

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
THROUGH WASCO SUBSECTION
ALIGNMENT WS1
GRADE SEPERATION PROFILE
MERCED AVE

CONTRACT NO.
DRAWING NO. 2.01.02_27
SCALE AS SHOWN
SHEET NO. 27 OF 28

PROFILE

"MER" LINE



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
DRAWN BY
CHECKED BY
IN CHARGE
DATE

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CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA RAIL BUILDERS

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
THROUGH WASCO SUBSECTION
ALIGNMENT WS1
GRADE SEPERATION PROFILE
MERCED AVE

CONTRACT NO.
DRAWING NO. 2.01.02_28
SCALE AS SHOWN
SHEET NO. 28 OF 28

PLAN AND PROFILE

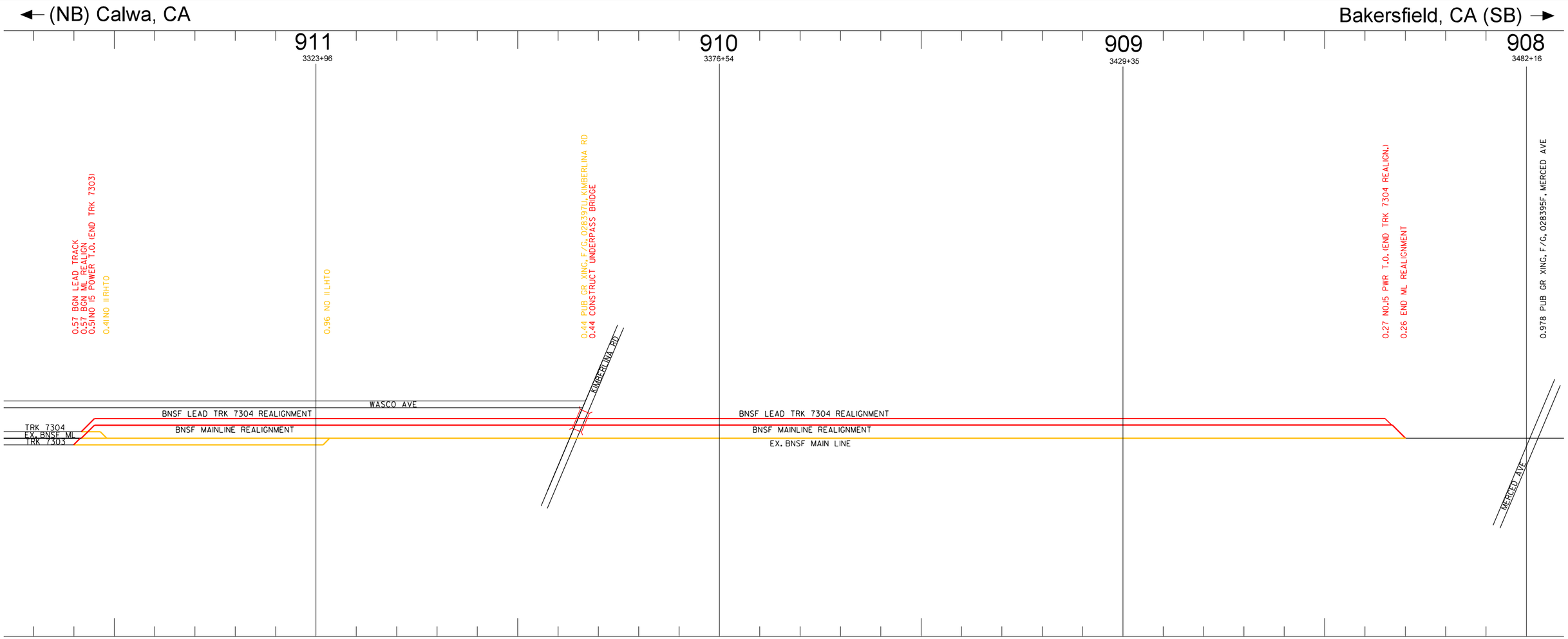
BNSF RAILWAY REALIGNMENT

CALIFORNIA
HIGH-SPEED RAIL PROJECT

Design-Build Contract for
CONSTRUCTION PACKAGE 4

Proposal | RFP Number: HSR 14-32

CALIFORNIA RAIL BUILDERS



LEGEND:
- EXISTING TRACK
- CONSTRUCT
- REMOVE
- RELOCATE FROM
- RELOCATE TO
- NEW ACCESS ROAD

SCOPE OF WORK:
REALIGN MAIN AND LEAD TRACK 7304.
INSTALL 2 NO.15 TURNOUTS
CONSTRUCT 1 BRIDGE UNDERPASS
REMOVE PORTION OF TRACKS 7303, 7304,
2 TURNOUTS

NOTES ON OPERATIONS:
TYPE OF OPERATION IS CTC
SIGNAL FACILITIES TO BE RELOCATED TO
ACCOMODATE TRACK REALIGNMENT
REDUCE CLEAR LENGTH ON TRACKS
7303 STORAGE.

- PRELIMINARY -
SUBJECT TO RAILROAD / STAKEHOLDER REVIEW

BNSF RAILWAY

CALIFORNIA DIVISION
BAKERSFIELD SUBDIVISION
LINE SEGMENT 7200

REV	DATE	BY	CHK	APP	DESCRIPTION
00	10/29/15				CONCEPTUAL DESIGN - BID SUBMITTAL
01	11/04/15				DESIGN REVISIONS

DESIGNED BY
DRAWN BY
CHECKED BY
IN CHARGE
DATE

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CALIFORNIA High-Speed Rail Authority

CALIFORNIA RAIL BUILDERS

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD

KIMBERLINA ROAD BNSF REALIGNMENT
WASCO, CA
MP 907.8 TO 911.8

CONTRACT NO.
DRAWING NO.
SCALE N.T.S.

GENERAL NOTES

1. RIGHT-OF-WAY INFORMATION OBTAINED FROM KERN COUNTY GIS DATA, NO BOUNDARY SURVEY PERFORMED.
2. MAINLINE STATIONING OBTAINED FROM VALUATION MAPS AND TRACK CHARTS.
3. EXISTING TRACK ALIGNMENTS ESTABLISHED FROM AERIAL IMAGERY, NO GROUND SURVEY HAS BEEN PERFORMED.
4. ALL TURNOUTS SHOWN ARE MANUALLY OPERATED UNLESS OTHERWISE NOTED.
5. EXISTING UTILITIES ESTABLISHED FROM BNSF VALUATION MAPS 142805 AND 142806, NO UTILITY LOCATES HAVE BEEN PERFORMED.

LEGEND

- CAHST TRACK
- EXISTING MAINLINE
- EXISTING SIDING TRACK
- PROPOSED MAINLINE REALIGNMENT
- PROPOSED SIDING TRACK
- FUTURE ADDITIONAL BNSF TRACK
- TRACK TO BE DEMOLISHED

- PRELIMINARY -
SUBJECT TO RAILROAD / STAKEHOLDER REVIEW

100 0 100 200
SCALE: 1"=100'

REV	DATE	BY	CHK	APP	DESCRIPTION
00	10/29/15				CONCEPTUAL DESIGN - BID SUBMITTAL
01	11/04/15				DESIGN REVISIONS

DESIGNED BY B. ASH
DRAWN BY B. ASH
CHECKED BY J. MARSHALL
IN CHARGE J. MARSHALL
DATE 11/16/2015

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CALIFORNIA High-Speed Rail Authority

CALIFORNIA RAIL BUILDERS

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD

BNSF REALIGNMENT
KIMBERLINA ROAD - WASCO, CA
TRACK PLAN SHEET 1

CONTRACT NO.
DRAWING NO. CT-108
SCALE AS SHOWN
SHEET NO. 1 OF 7

GENERAL NOTES

1. REFER TO SHEET CT-108 FOR GENERAL NOTES.

LEGEND

- CAHST TRACK
- EXISTING MAINLINE
- EXISTING SIDING TRACK
- PROPOSED MAINLINE REALIGNMENT
- PROPOSED SIDING TRACK
- FUTURE ADDITIONAL BNSF TRACK
- TRACK TO BE DEMOLISHED

- PRELIMINARY -
SUBJECT TO RAILROAD / STAKEHOLDER REVIEW

100 0 100 200
SCALE: 1"=100'

REV	DATE	BY	CHK	APP	DESCRIPTION
00	10/29/15				CONCEPTUAL DESIGN - BID SUBMITTAL
01	11/04/15				DESIGN REVISIONS

DESIGNED BY B. ASH
DRAWN BY B. ASH
CHECKED BY J. MARSHALL
IN CHARGE J. MARSHALL
DATE 11/16/2015

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CALIFORNIA High-Speed Rail Authority

CALIFORNIA RAIL BUILDERS

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD

BNSF REALIGNMENT
KIMBERLINA ROAD - WASCO, CA
TRACK PLAN SHEET 2

CONTRACT NO.
DRAWING NO. CT-109
SCALE AS SHOWN
SHEET NO. 2 OF 7

GENERAL NOTES

1. REFER TO SHEET CT-108 FOR GENERAL NOTES.

LEGEND

- CAHST TRACK
- EXISTING MAINLINE
- EXISTING SIDING TRACK
- PROPOSED MAINLINE REALIGNMENT
- PROPOSED SIDING TRACK
- FUTURE ADDITIONAL BNSF TRACK
- TRACK TO BE DEMOLISHED

- PRELIMINARY -
SUBJECT TO RAILROAD / STAKEHOLDER REVIEW

100 0 100 200
SCALE: 1"=100'

REV	DATE	BY	CHK	APP	DESCRIPTION
00	10/29/15				CONCEPTUAL DESIGN - BID SUBMITTAL
01	11/04/15				DESIGN REVISIONS

DESIGNED BY B. ASH
DRAWN BY B. ASH
CHECKED BY J. MARSHALL
IN CHARGE J. MARSHALL
DATE 11/16/2015

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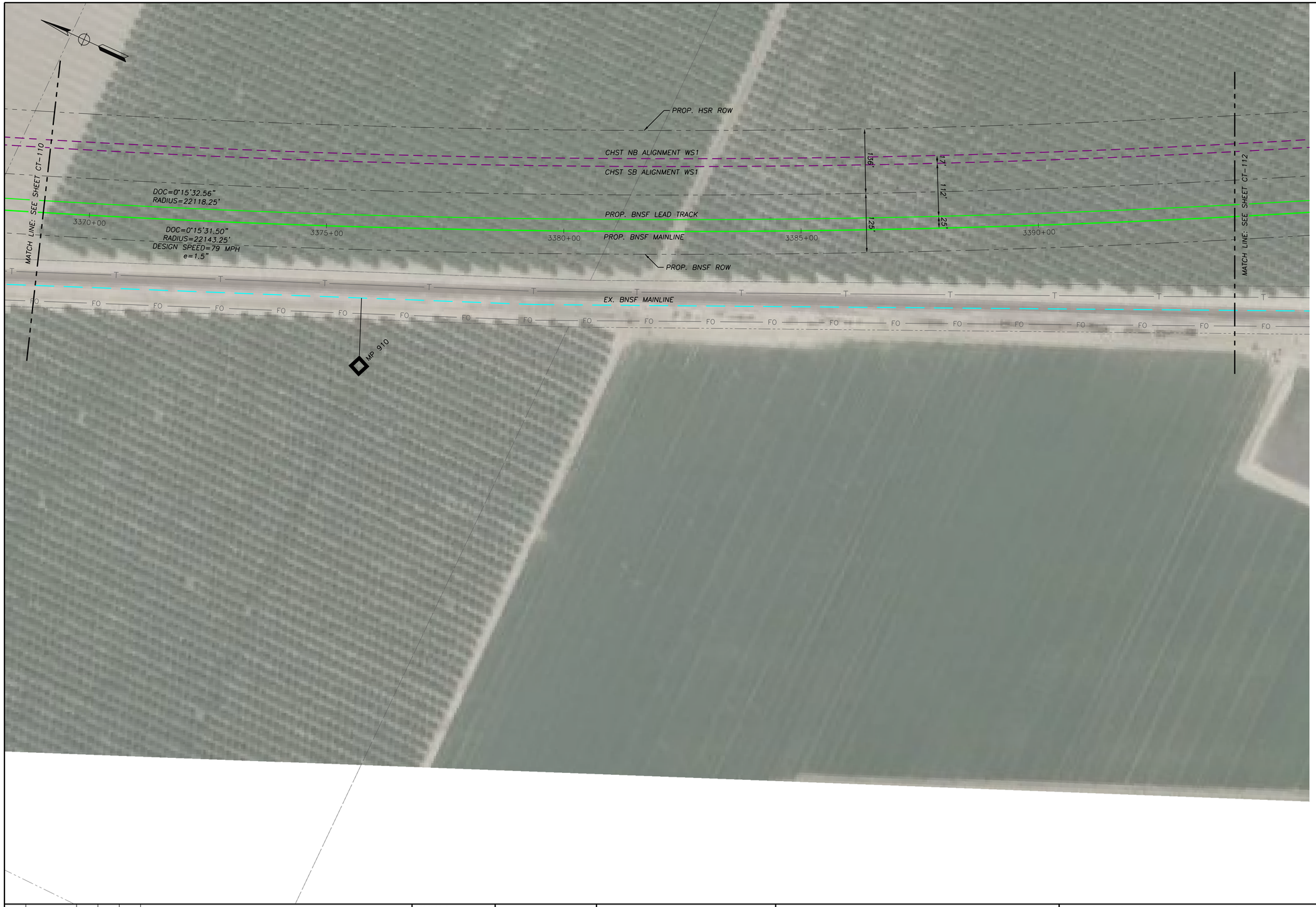
CALIFORNIA High-Speed Rail Authority

CALIFORNIA RAIL BUILDERS

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD

BNSF REALIGNMENT
KIMBERLINA ROAD - WASCO, CA
TRACK PLAN SHEET 3

CONTRACT NO.
DRAWING NO. CT-110
SCALE AS SHOWN
SHEET NO. 3 OF 7



GENERAL NOTES

1. REFER TO SHEET CT-108 FOR GENERAL NOTES.

LEGEND

- CAHST TRACK
- EXISTING MAINLINE
- EXISTING SIDING TRACK
- PROPOSED MAINLINE REALIGNMENT
- PROPOSED SIDING TRACK
- FUTURE ADDITIONAL BNSF TRACK
- TRACK TO BE DEMOLISHED

- PRELIMINARY -
SUBJECT TO RAILROAD / STAKEHOLDER REVIEW

100 0 100 200
SCALE: 1"=100'

REV	DATE	BY	CHK	APP	DESCRIPTION
00	10/29/15				CONCEPTUAL DESIGN - BID SUBMITTAL
01	11/04/15				DESIGN REVISIONS

DESIGNED BY B. ASH
DRAWN BY B. ASH
CHECKED BY J. MARSHALL
IN CHARGE J. MARSHALL
DATE 11/16/2015

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CALIFORNIA High-Speed Rail Authority

CALIFORNIA RAIL BUILDERS

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD

BNSF REALIGNMENT
KIMBERLINA ROAD - WASCO, CA
TRACK PLAN SHEET 4

CONTRACT NO.
DRAWING NO. CT-111
SCALE AS SHOWN
SHEET NO. 4 OF 7

GENERAL NOTES

1. REFER TO SHEET CT-108 FOR GENERAL NOTES.

LEGEND

- CAHST TRACK
- EXISTING MAINLINE
- EXISTING SIDING TRACK
- PROPOSED MAINLINE REALIGNMENT
- PROPOSED SIDING TRACK
- FUTURE ADDITIONAL BNSF TRACK
- TRACK TO BE DEMOLISHED

- PRELIMINARY -
SUBJECT TO RAILROAD / STAKEHOLDER REVIEW

100 0 100 200
SCALE: 1"=100'

REV	DATE	BY	CHK	APP	DESCRIPTION
00	10/29/15				CONCEPTUAL DESIGN - BID SUBMITTAL
01	11/04/15				DESIGN REVISIONS

DESIGNED BY B. ASH
DRAWN BY B. ASH
CHECKED BY J. MARSHALL
IN CHARGE J. MARSHALL
DATE 11/16/2015

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CALIFORNIA High-Speed Rail Authority

CALIFORNIA RAIL BUILDERS

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD

BNSF REALIGNMENT
KIMBERLINA ROAD - WASCO, CA
TRACK PLAN SHEET 5

CONTRACT NO.
DRAWING NO. CT-112
SCALE AS SHOWN
SHEET NO. 5 OF 7

GENERAL NOTES

1. REFER TO SHEET CT-108 FOR GENERAL NOTES.

LEGEND

- CAHST TRACK
- EXISTING MAINLINE
- EXISTING SIDING TRACK
- PROPOSED MAINLINE REALIGNMENT
- PROPOSED SIDING TRACK
- FUTURE ADDITIONAL BNSF TRACK
- TRACK TO BE DEMOLISHED

- PRELIMINARY -
SUBJECT TO RAILROAD / STAKEHOLDER REVIEW

100 0 100 200
SCALE: 1"=100'

REV	DATE	BY	CHK	APP	DESCRIPTION
00	10/29/15				CONCEPTUAL DESIGN - BID SUBMITTAL
01	11/04/15				DESIGN REVISIONS

DESIGNED BY B. ASH
DRAWN BY B. ASH
CHECKED BY J. MARSHALL
IN CHARGE J. MARSHALL
DATE 11/16/2015

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CALIFORNIA High-Speed Rail Authority

CALIFORNIA RAIL BUILDERS

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD

BNSF REALIGNMENT
KIMBERLINA ROAD - WASCO, CA
TRACK PLAN SHEET 6

CONTRACT NO.
DRAWING NO. CT-113
SCALE AS SHOWN
SHEET NO. 6 OF 7

GENERAL NOTES

1. REFER TO SHEET CT-108 FOR GENERAL NOTES.

LEGEND

- CAHST TRACK
- EXISTING MAINLINE
- EXISTING SIDING TRACK
- PROPOSED MAINLINE REALIGNMENT
- PROPOSED SIDING TRACK
- FUTURE ADDITIONAL BNSF TRACK
- TRACK TO BE DEMOLISHED

- PRELIMINARY -
SUBJECT TO RAILROAD / STAKEHOLDER REVIEW

100 0 100 200
SCALE: 1"=100'

REV	DATE	BY	CHK	APP	DESCRIPTION
00	10/29/15				CONCEPTUAL DESIGN - BID SUBMITTAL
01	11/04/15				DESIGN REVISIONS

DESIGNED BY B. ASH
DRAWN BY B. ASH
CHECKED BY J. MARSHALL
IN CHARGE J. MARSHALL
DATE $DATE$

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CALIFORNIA High-Speed Rail Authority

CALIFORNIA RAIL BUILDERS

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD

BNSF REALIGNMENT
KIMBERLINA ROAD - WASCO, CA
TRACK PLAN SHEET 7

CONTRACT NO.
DRAWING NO. CT-114
SCALE AS SHOWN
SHEET NO. 7 OF 7

STRUCTURES

STRUCTURES

CALIFORNIA
HIGH-SPEED RAIL PROJECT

Design-Build Contract for
CONSTRUCTION PACKAGE 4

Proposals | RFP Number: HSR 14-32

CALIFORNIA RAIL BUILDERS

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2.02.01_03		ALLENSWORTH BYPASS SUBSECTION - ALIGNMENT A1 - PETERSON RD - PLAN AND ELEVATION	3 OF 16
2.02.01_04		POSO CREEK SUBSECTION - ALIGNMENT L1 - POSO CREEK BRIDGE - PLAN AND ELEVATION	4 OF 16
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2.02.01_12		THROUGH WASCO SUBSECTION - ALIGNMENT WS1 - WASCO VIADUCT - PLAN AND ELEVATION (II)	12 OF 16
2.02.01_13		THROUGH WASCO SUBSECTION - ALIGNMENT WS1 - WASCO VIADUCT - PLAN AND ELEVATION (III)	13 OF 16
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2.02.02_03		THROUGH WASCO SUBSECTION - ALIGNMENT WS1 - OVERHEAD PLANNING STUDY - MERCED AVE (I)	3 OF 5
2.02.02_04		THROUGH WASCO SUBSECTION - ALIGNMENT WS1 - OVERHEAD PLANNING STUDY - MERCED AVE (II)	4 OF 5
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- PRELIMINARY, SUBJECT TO CHANGE DURING DETAIL DESIGN.

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
DRAWN BY
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IN CHARGE
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ONLY FOR BIDDING PURPOSES - NOT FOR CONSTRUCTION

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA RAIL BUILDERS

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD

INDEX OF DRAWINGS
STRUCTURES

CONTRACT NO.
DRAWING NO. 2.02
SCALE NO SCALE
SHEET NO. 1 OF 1

STRUCTURES

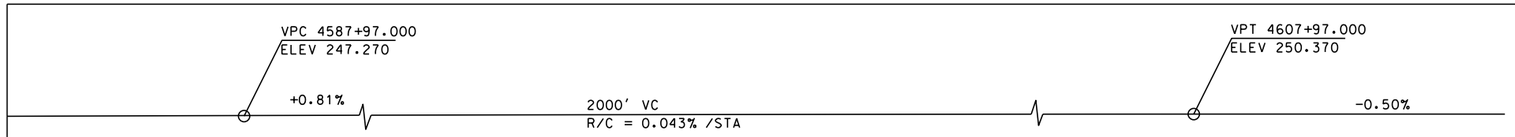
HIGH-SPEED RAIL TRACK

CALIFORNIA
HIGH-SPEED RAIL PROJECT

Design-Build Contract for
CONSTRUCTION PACKAGE 4

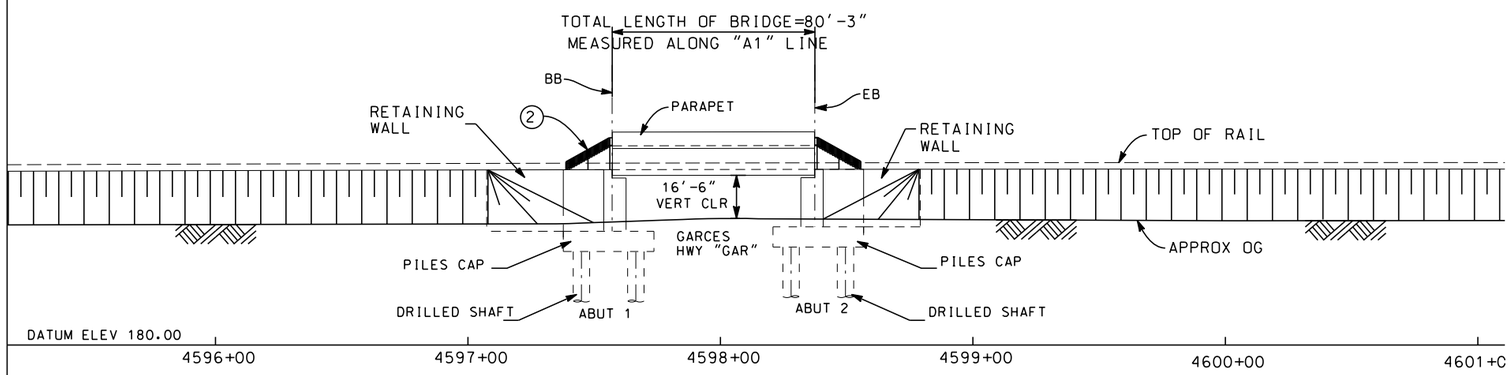
Proposal | RFP Number: HSR 14-32

CALIFORNIA RAIL BUILDERS



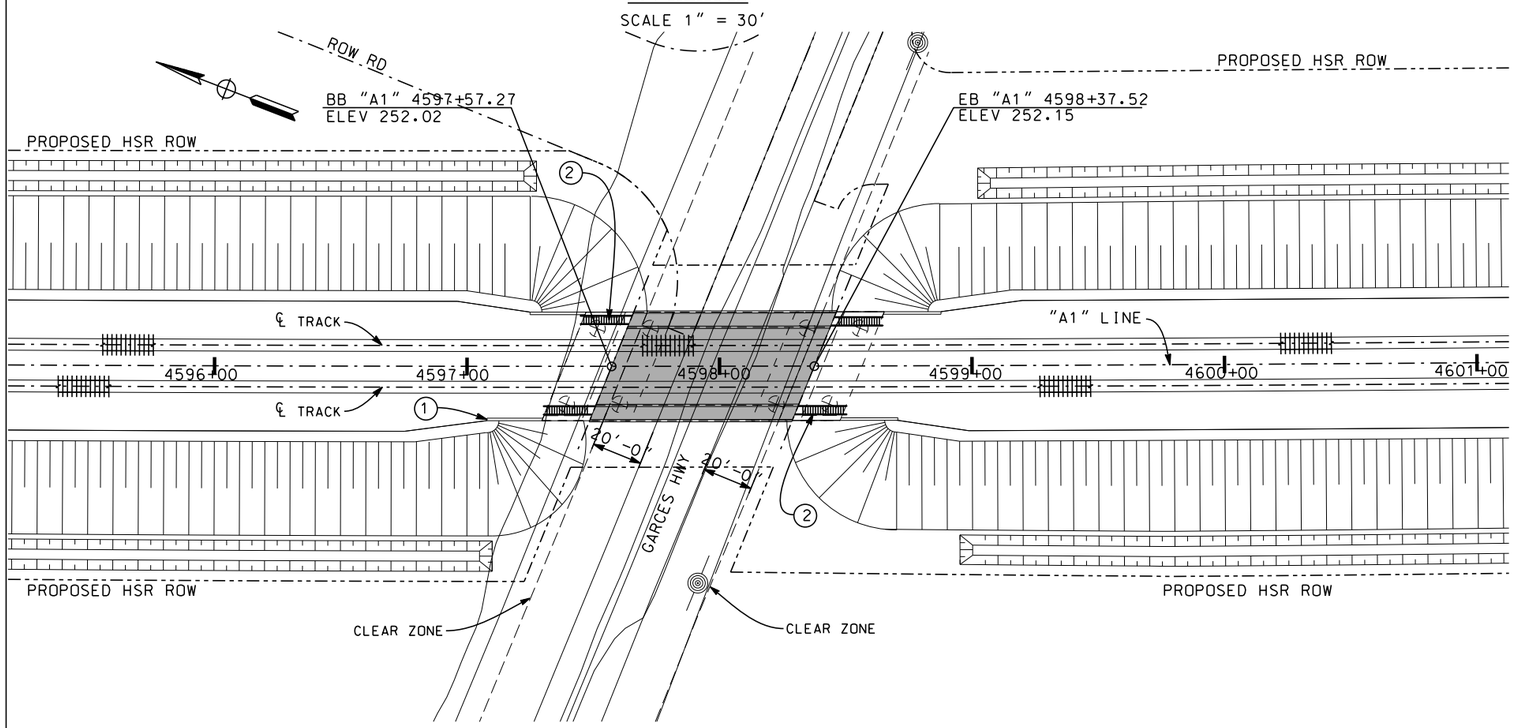
RAIL "A1" LINE PROFILE

NO SCALE



ELEVATION

SCALE 1" = 30'



PLAN GARCES HWY

SCALE 1" = 30'

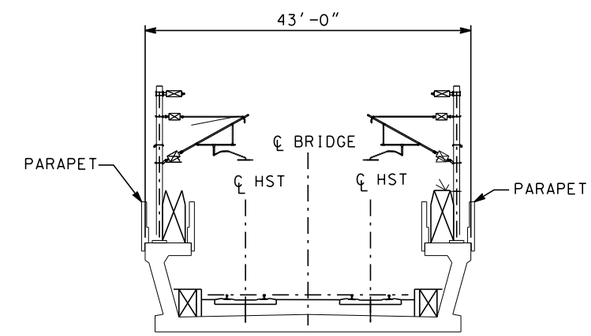
NOTES:

1. PILE LENGTH TO BE DETERMINED.

LEGEND:

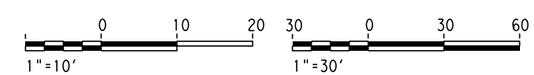
1 RETAINING WALL

2 STAIRS



TYPICAL SECTION

SCALE: 1" = 10'



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CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA RAIL BUILDERS

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD

ALLENSWORTH BYPASS SUBSECTION
ALIGNMENT A1
GARCES HWY
PLAN AND ELEVATION

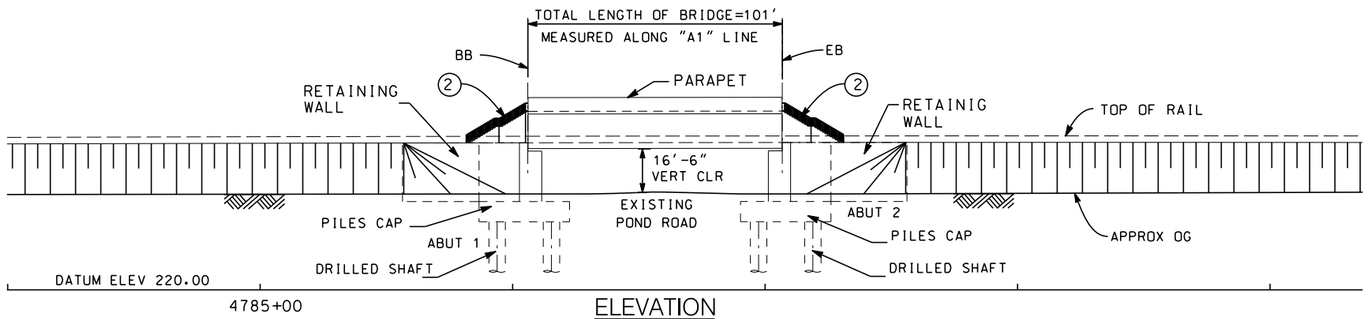
CONTRACT NO.

DRAWING NO. 2.02.01_01

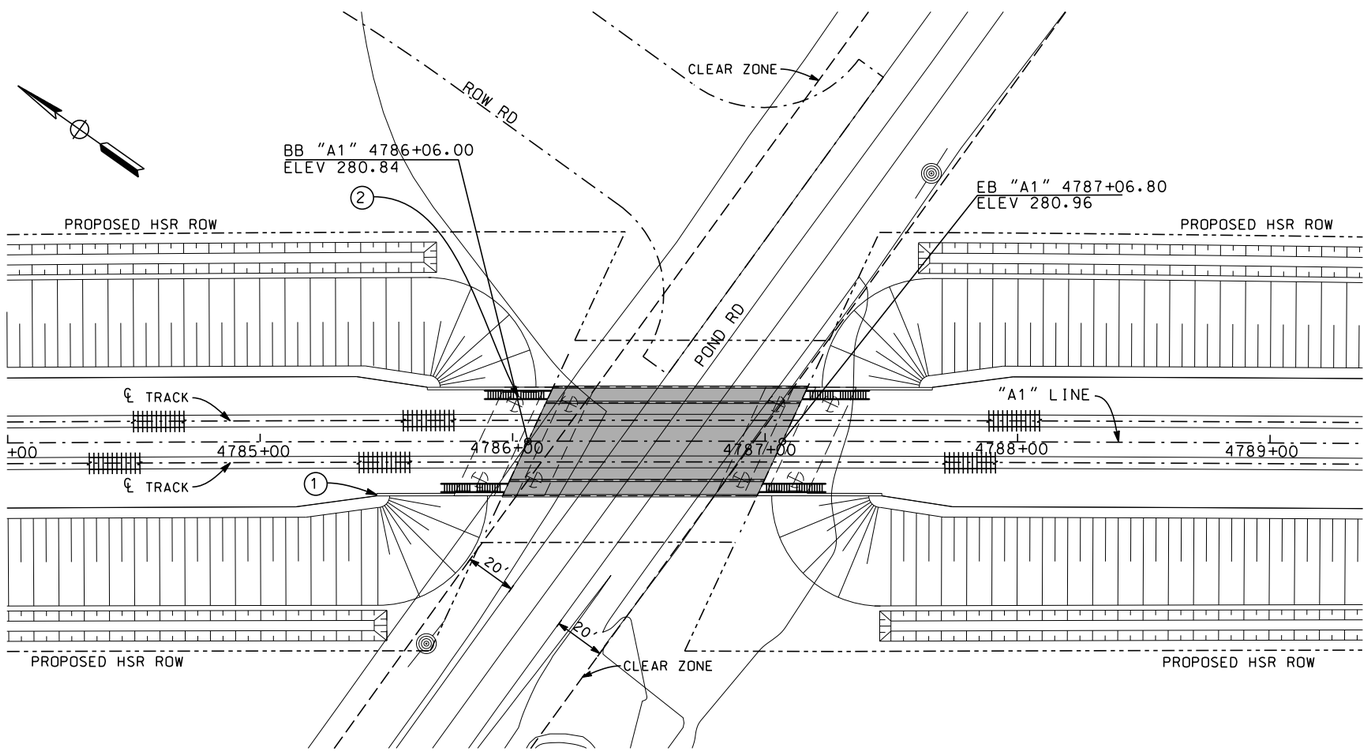
SCALE AS SHOWN

SHEET NO. 1 OF 16

RAIL "A1" LINE PROFILE
NO SCALE



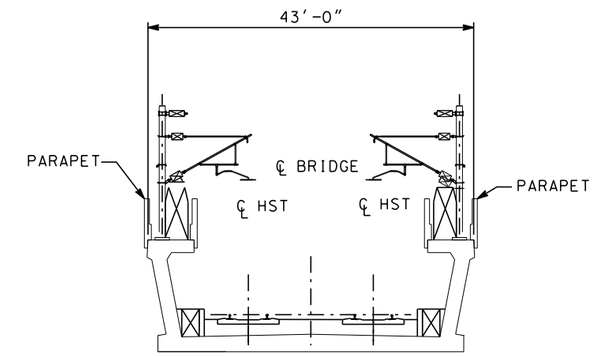
ELEVATION
SCALE 1" = 30'



PLAN POND
SCALE 1" = 30'

LEGEND:

1. RETAINING WALL
2. STAIRS



TYPICAL SECTION
SCALE: 1" = 10'

0 10 20 — 1"=10'
30 0 30 60 — 1"=30'

REV	DATE	BY	CHK	APP	DESCRIPTION

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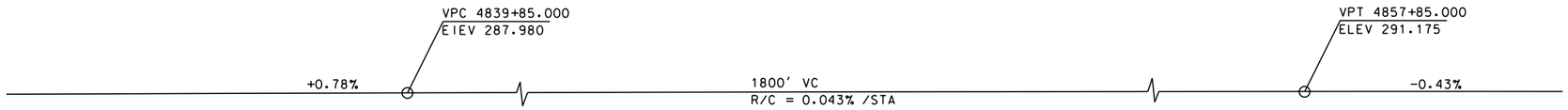
CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA RAIL BUILDERS

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
ALLENSWORTH BYPASS SUBSECTION
ALIGNMENT A1
POND RD
PLAN AND ELEVATION

CONTRACT NO.
DRAWING NO. 2.02.01_02
SCALE AS SHOWN
SHEET NO. 2 OF 16

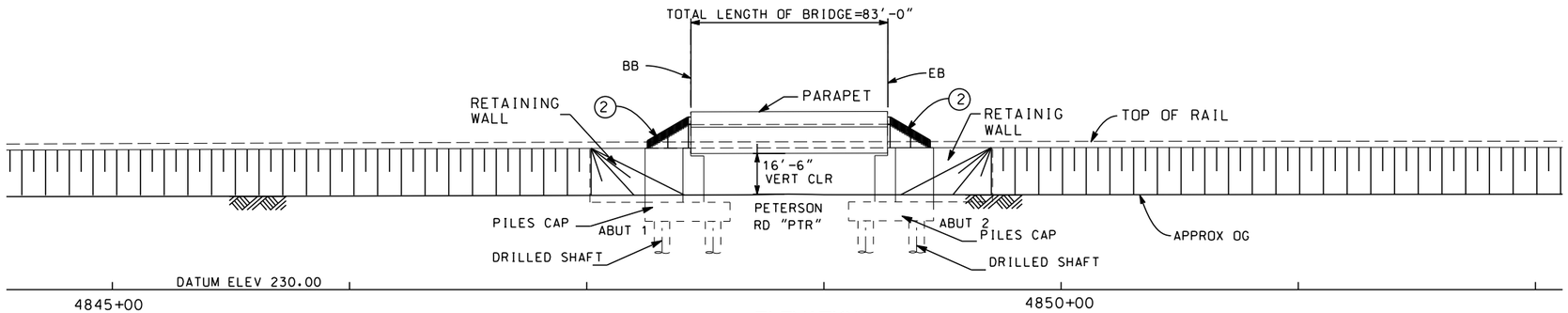


RAIL "A1" LINE PROFILE
NO SCALE

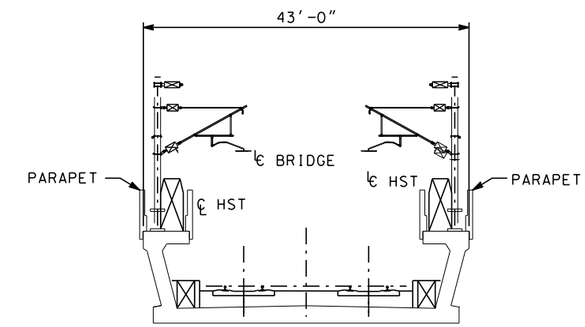
LEGEND:

1 RETAINING WALL

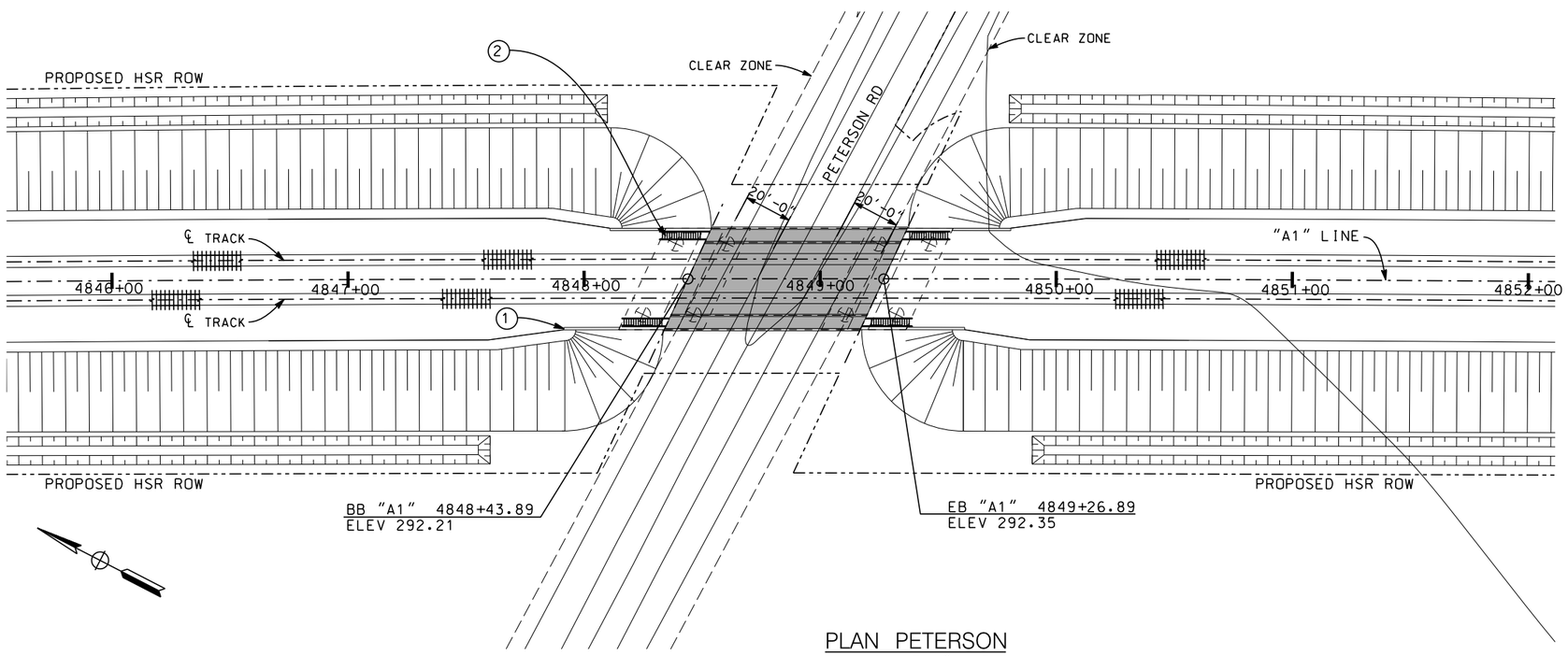
2 STAIRS



ELEVATION
SCALE 1" = 30'



TYPICAL SECTION
SCALE: 1" = 10'



PLAN PETERSON
SCALE 1" = 30'

0 10 20 30 0 30 60
1"=10' 1"=30'

REV	DATE	BY	CHK	APP	DESCRIPTION

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DATE

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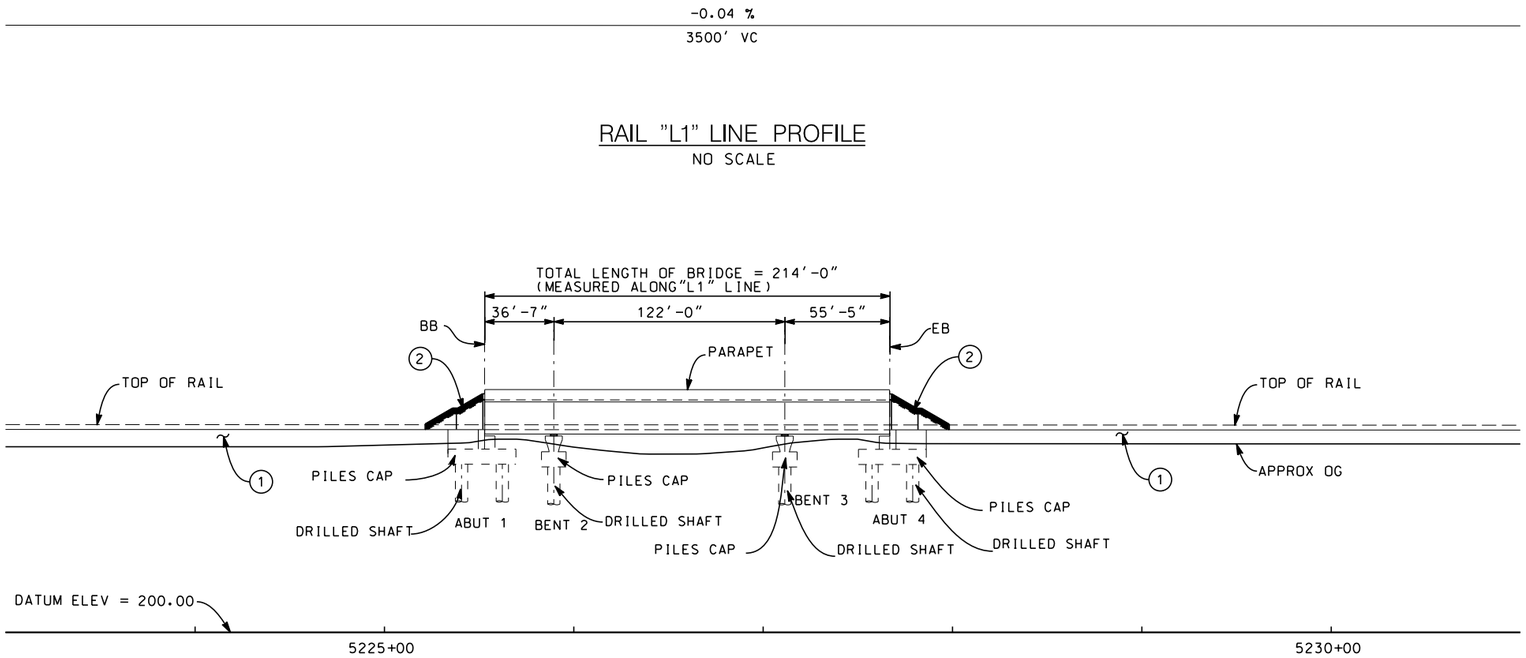
CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA RAILBUILDERS

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
ALLENSWORTH BYPASS SUBSECTION
ALIGNMENT A1
PETERSON RD
PLAN AND ELEVATION

CONTRACT NO.
DRAWING NO. 2.02.01_03
SCALE AS SHOWN
SHEET NO. 3 OF 16



RAIL "L1" LINE PROFILE

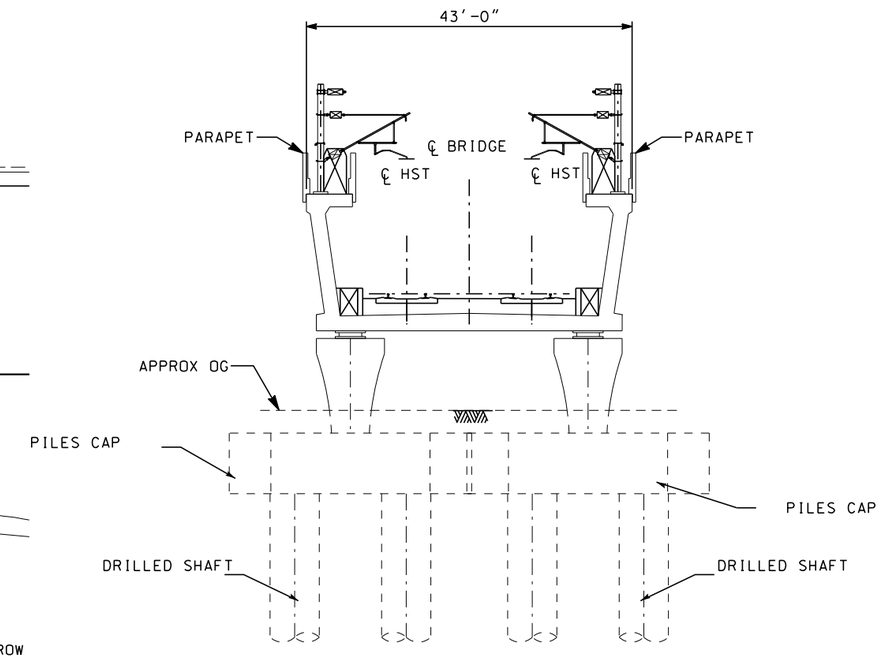
NO SCALE

ELEVATION

SCALE 1" = 40'

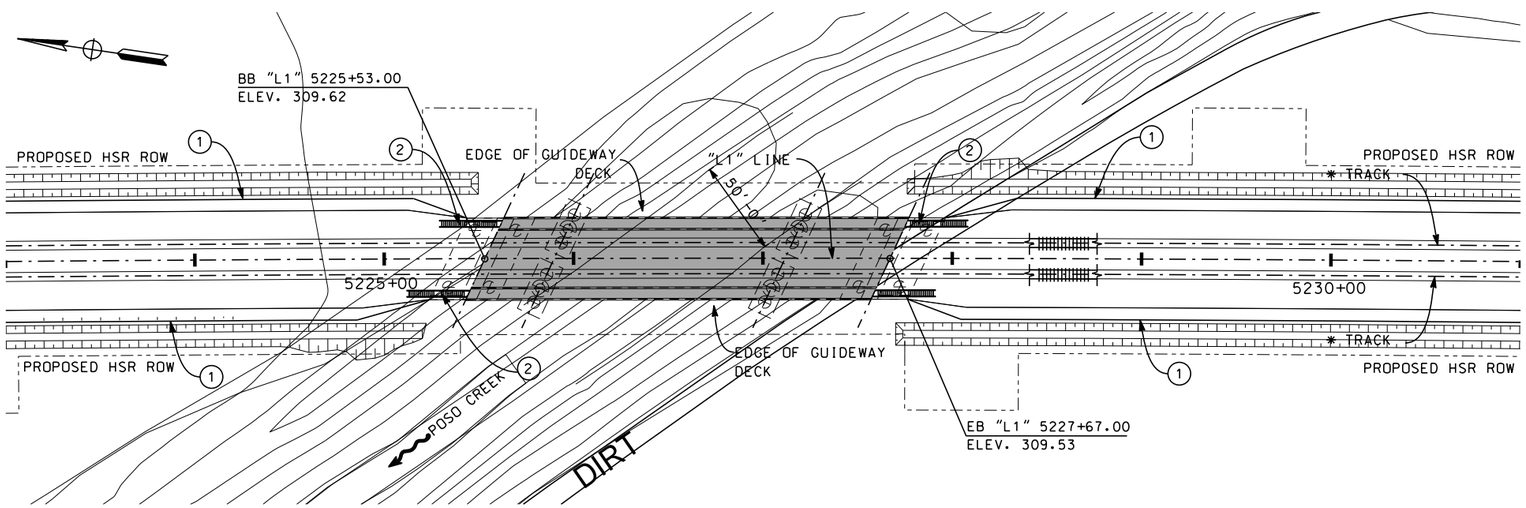
LEGEND:

1. RETAINING WALL
2. STAIRS



TYPICAL SECTION

SCALE 1" = 10'



PLAN

SCALE 1" = 40'

10 0 10 20 — 1"=10'

40 0 40 80 — 1"=40'

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CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA RAIL BUILDERS

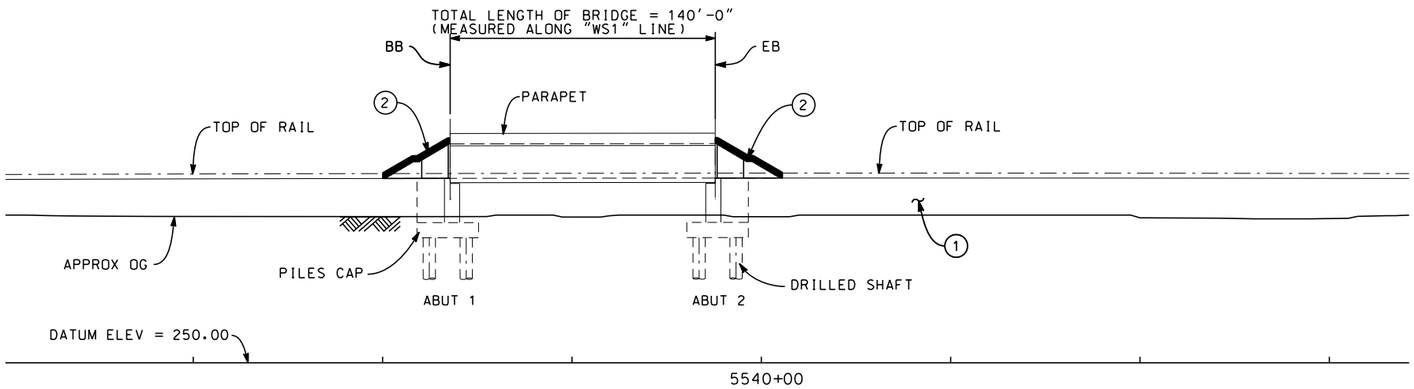
CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
POSO CREEK SUBSECTION
ALIGNMENT L1
POSO CREEK BRIDGE
PLAN AND ELEVATION

CONTRACT NO.
DRAWING NO. 2.02.01_04
SCALE AS SHOWN
SHEET NO. 4 OF 16

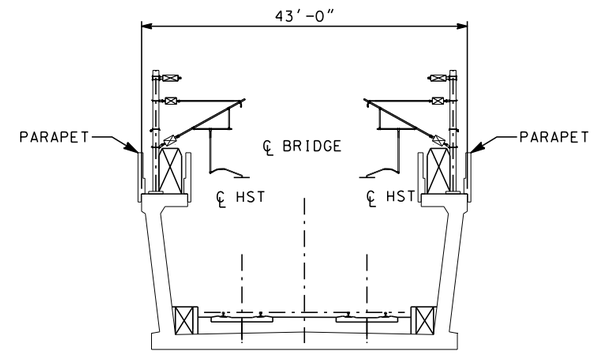
RAIL "WS1" LINE PROFILE
NO SCALE

LEGEND:

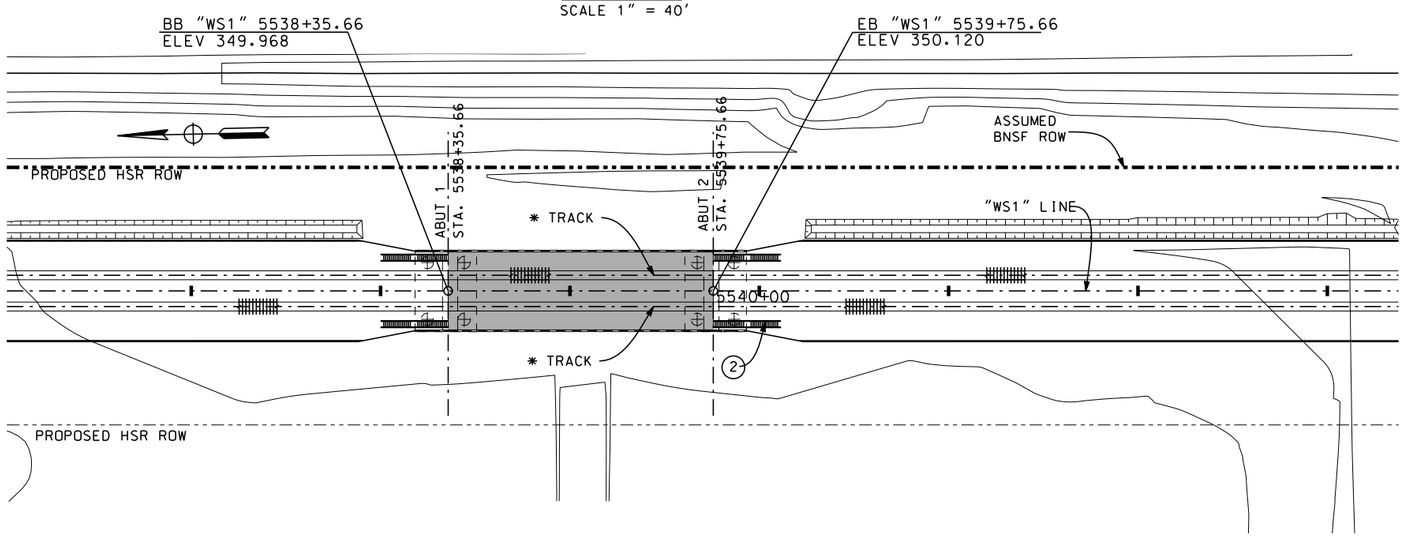
1. RETAINING WALL
2. STAIRS



ELEVATION
SCALE 1" = 40'



TYPICAL SECTION
SCALE 1" = 10'



PLAN
SCALE 1" = 40'

40 0 40 80
1"=40'

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CALIFORNIA HIGH-SPEED RAIL AUTHORITY

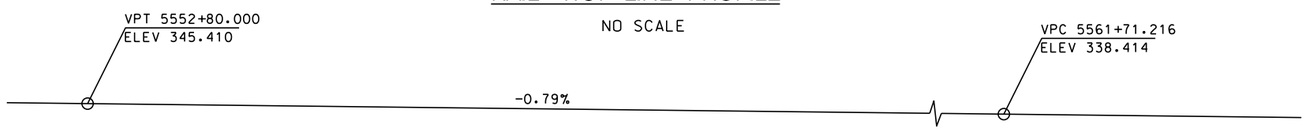
CALIFORNIA RAIL BUILDERS

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
THROUGH WASCO SUBSECTION
ALIGNMENT WS1
SUNNYGEM BRIDGE
PLAN AND ELEVATION

CONTRACT NO.
DRAWING NO. 2.02.01_05
SCALE AS SHOWN
SHEET NO. 5 OF 16

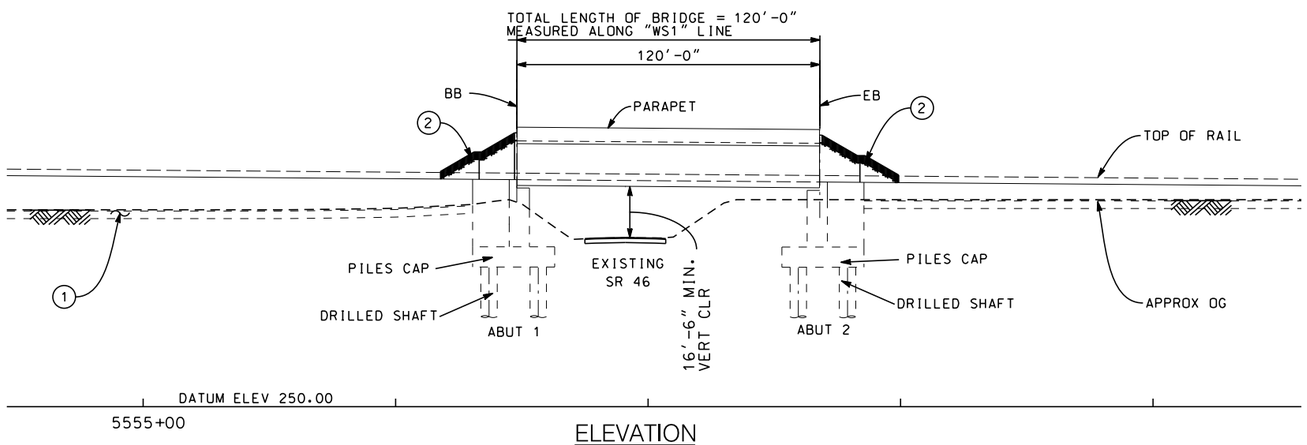
RAIL "WS1" LINE PROFILE

NO SCALE



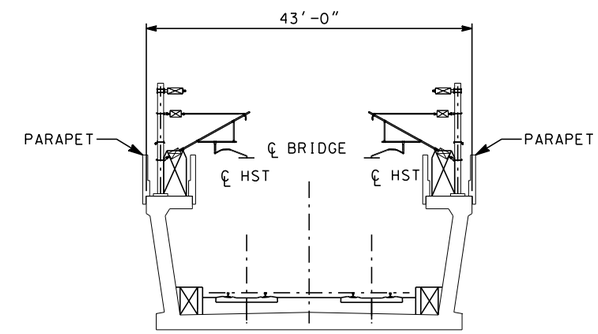
LEGEND:

1. RETAINING WALL
2. STAIRS



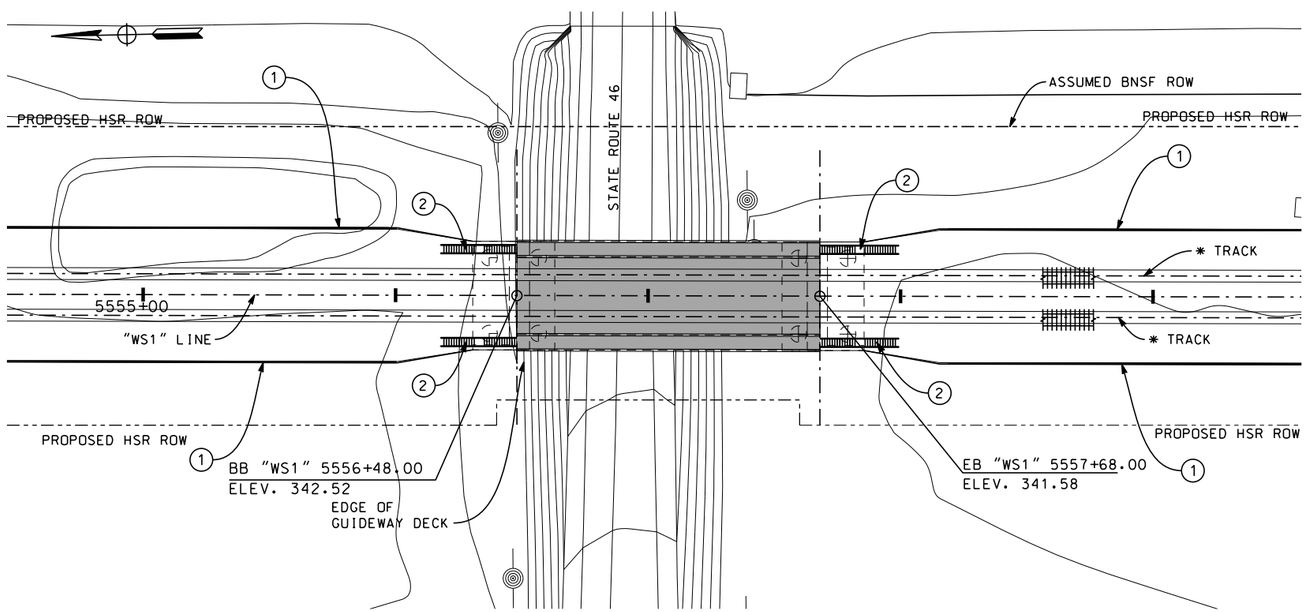
ELEVATION

SCALE 1" = 30'



TYPICAL SECTION

SCALE: 1" = 10'



PLAN

SCALE 1" = 30'

10 0 10 20 — 1"=10'

30 0 30 60 — 1"=30'

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CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA RAIL BUILDERS

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD

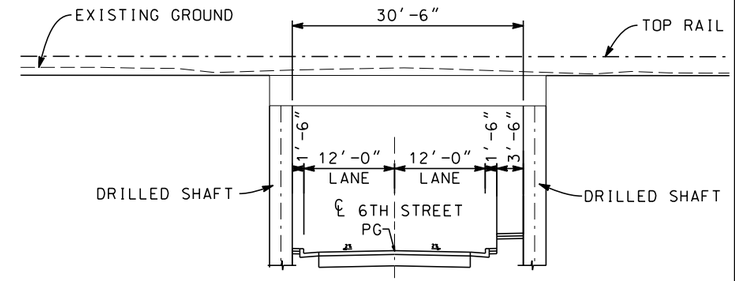
THROUGH WASCO SUBSECTION
ALIGNMENT WS1
STATE ROUTE 46 UNDERPASS
PLAN AND ELEVATION

CONTRACT NO.
DRAWING NO. 2.02.01_06
SCALE AS SHOWN
SHEET NO. 6 OF 16

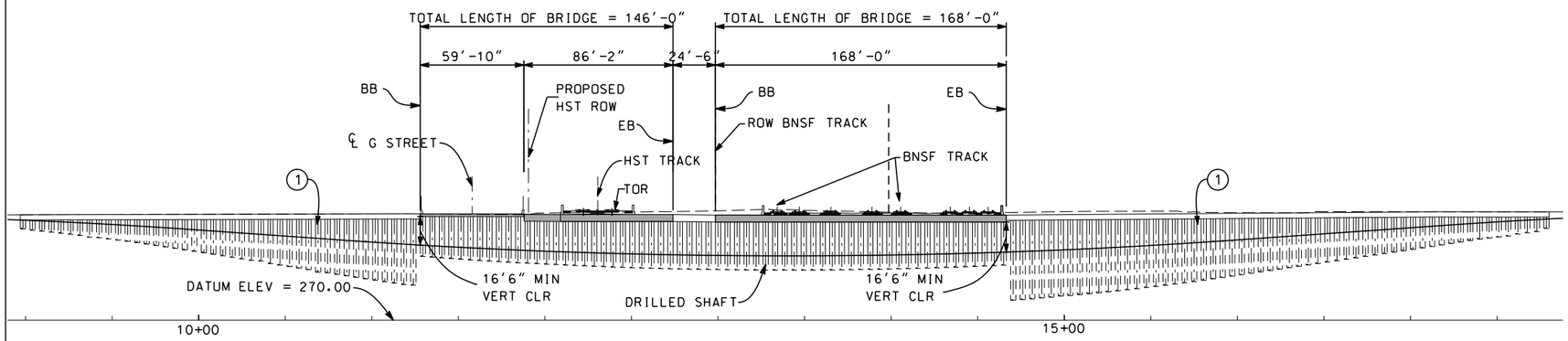
6TH STREET PROFILE
NO SCALE

LEGEND:

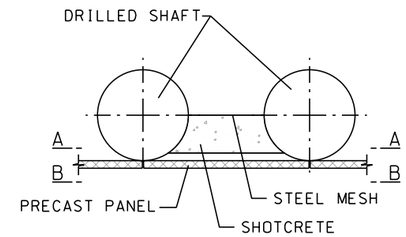
(1) PILES WALL



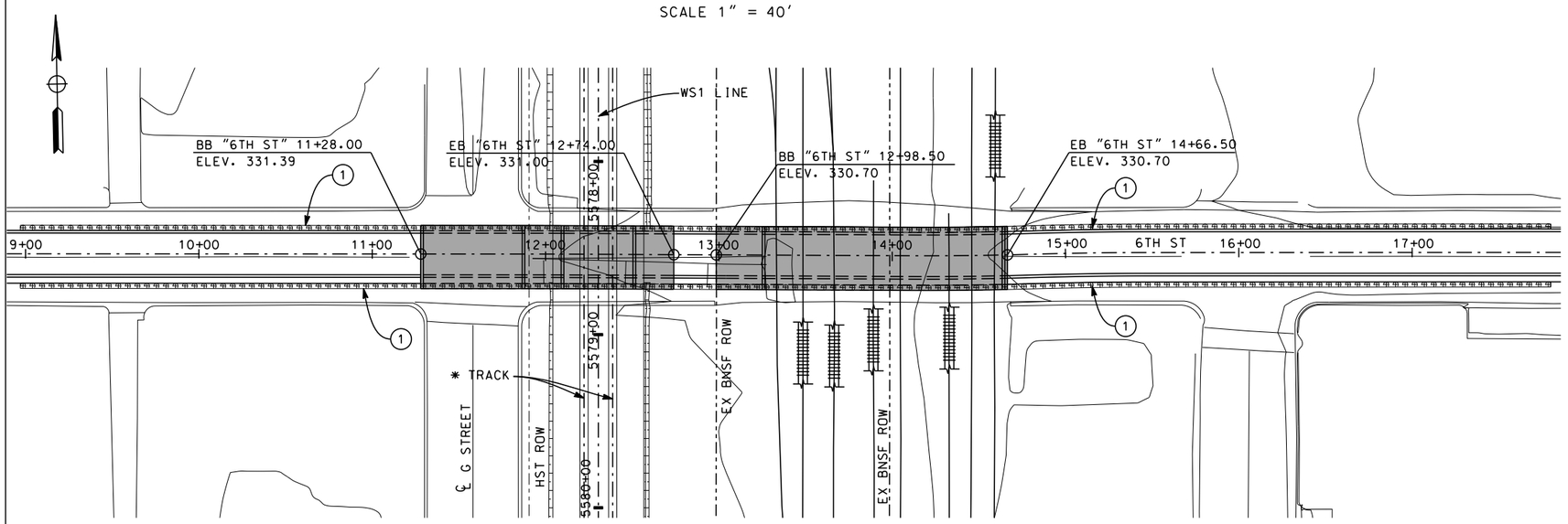
CROSS SECTION
SCALE: 1"=10'



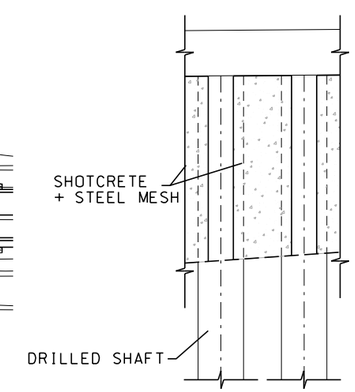
ELEVATION
SCALE 1" = 40'



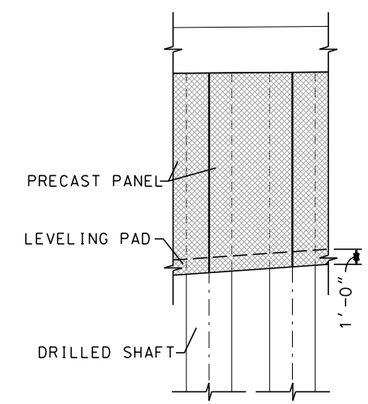
PILES DETAIL
SCALE: 1"=2.5'



PLAN
SCALE 1" = 40'



SECTION A–A
SCALE: 1"=5'



SECTION B–B
SCALE: 1"=5'

10 0 10 20
1"=10'

40 0 40 80
1"=40'

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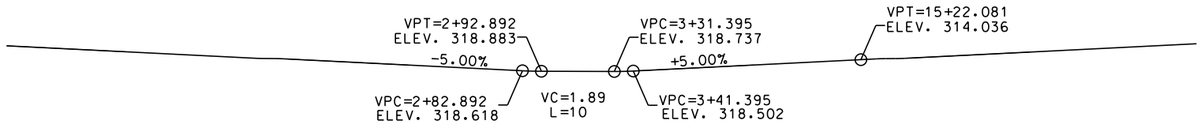
CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA RAIL BUILDERS

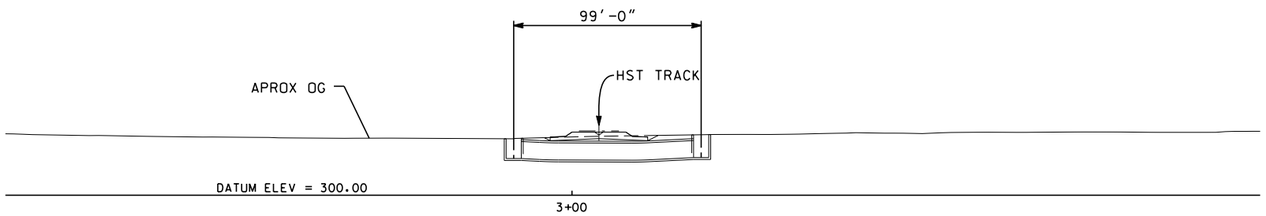
CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
THROUGH WASCO SUBSECTION
ALIGNMENT WS1
6TH STREET UNDERPASS
PLAN AND ELEVATION

CONTRACT NO.
DRAWING NO. 2.02.01_07
SCALE AS SHOWN
SHEET NO. 7 OF 16



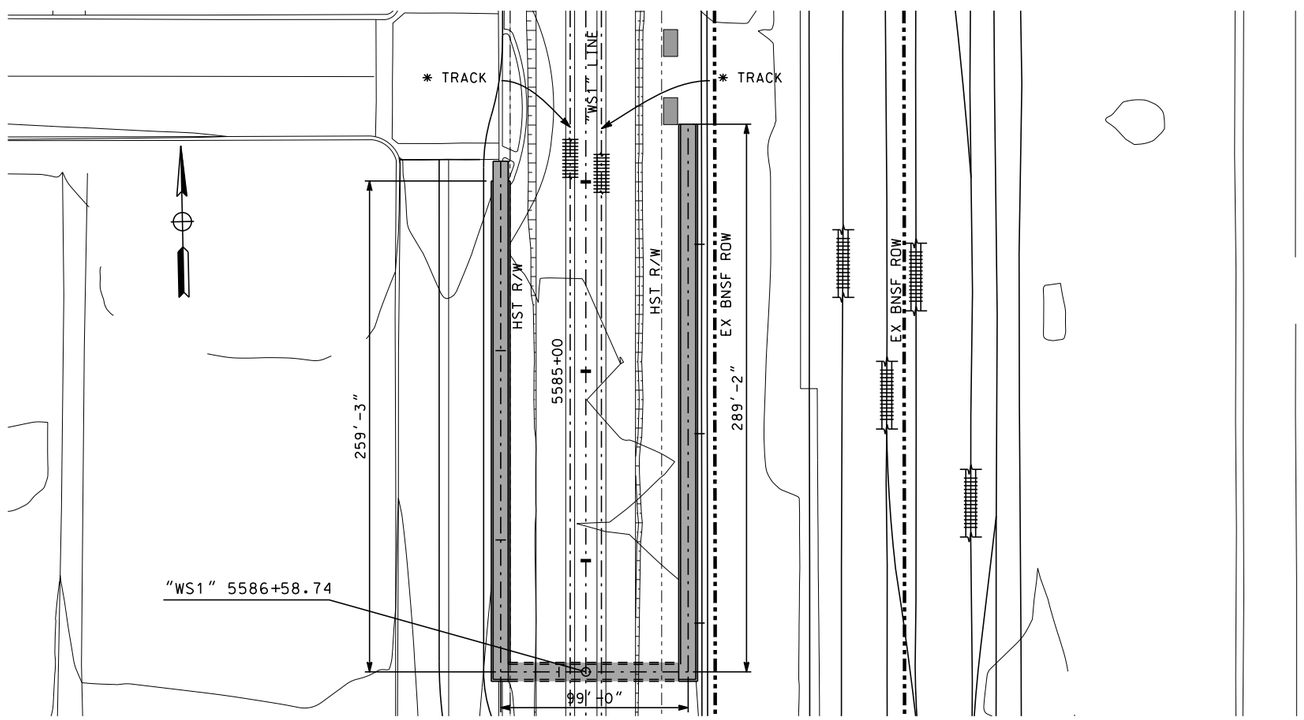
PEDESTRIAN UNDERPASS PROFILE

NO SCALE



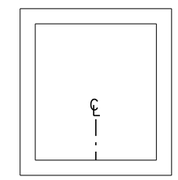
ELEVATION

SCALE 1" = 40'



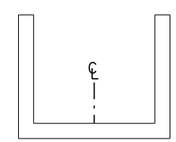
PLAN

SCALE 1" = 40'



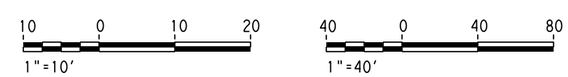
TYPICAL SECTION UNDERPASS

SCALE: 1"=5'



TYPICAL SECTION UNDERPASS

SCALE: 1"=5'



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CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA RAIL BUILDERS

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD

THROUGH WASCO SUBSECTION
ALIGNMENT WS1
PEDESTRIAN UNDERPASS
PLAN AND ELEVATION

CONTRACT NO.

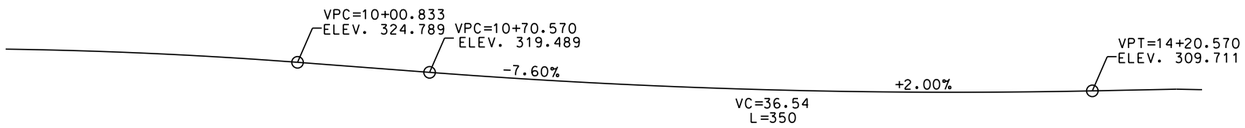
DRAWING NO. 2.02.01_08

SCALE AS SHOWN

SHEET NO. 8 OF 16

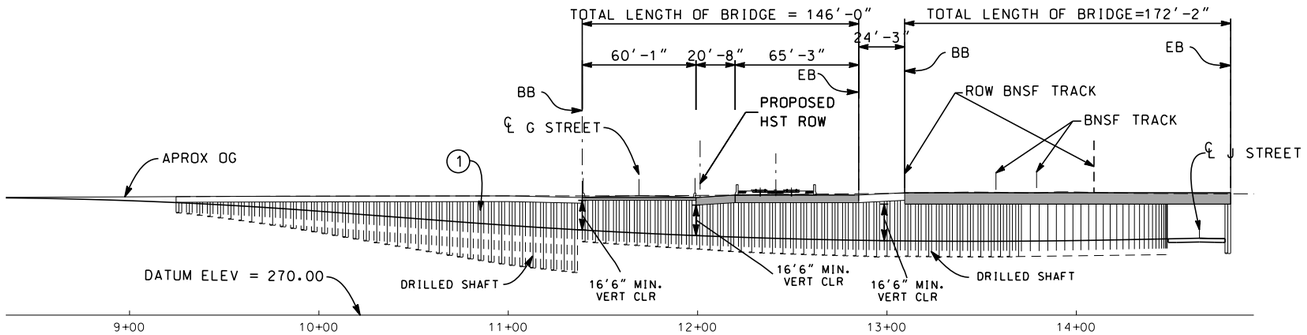
LEGEND:

(1) PILES WALL



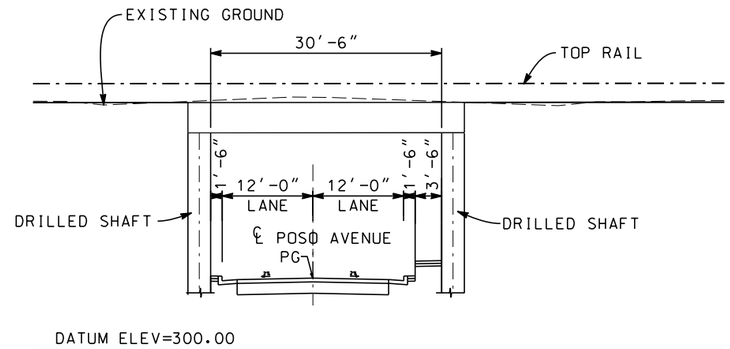
POSO AVENUE UNDERPASS PROFILE

NO SCALE



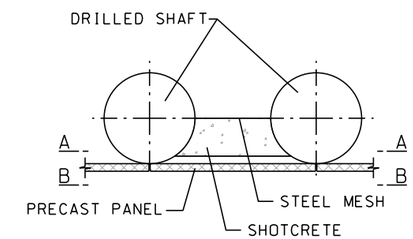
LONGITUDINAL SECTION

SCALE 1" = 40'



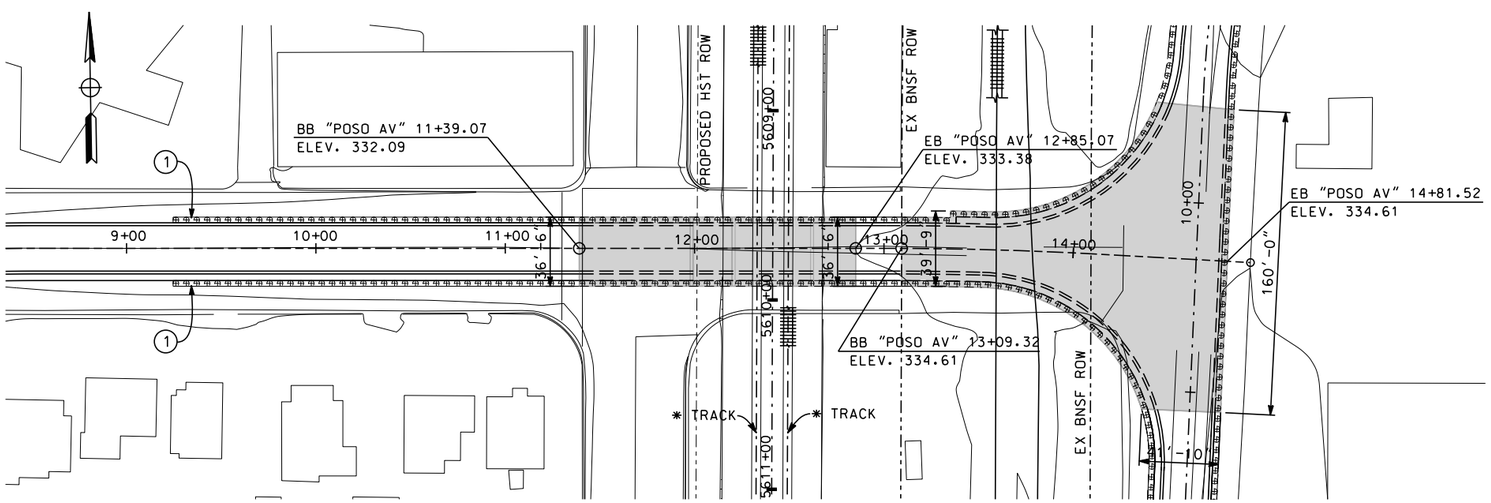
CROSS SECTION

SCALE: 1"=10'



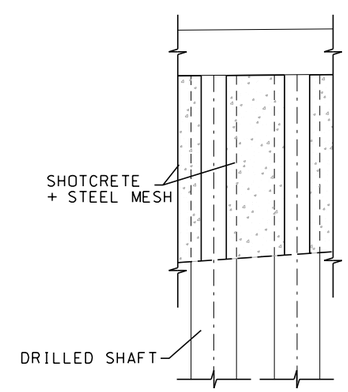
PILES DETAIL

SCALE: 1"=2.5'



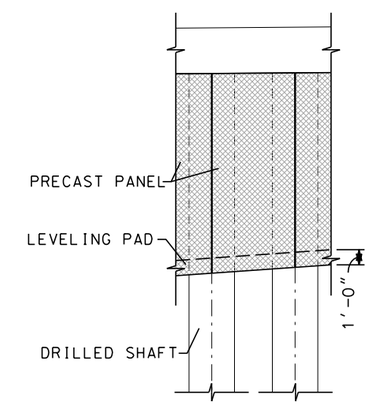
PLAN

SCALE 1" = 40'



SECTION A–A

SCALE: 1"=5'



SECTION B–B

SCALE: 1"=5'

10 0 10 20
1"=10'

40 0 40 80
1"=40'

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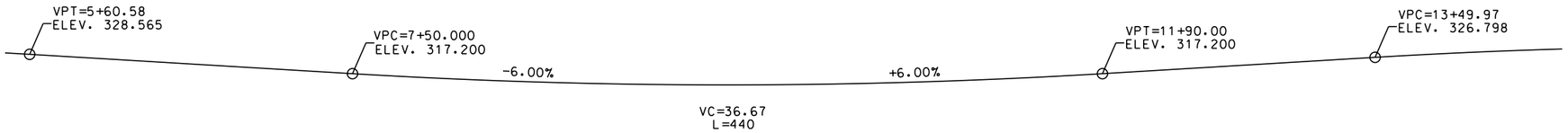
CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA RAIL BUILDERS

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
THROUGH WASCO SUBSECTION
ALIGNMENT WS1
POSO AVENUE UNDERPASS
PLAN AND ELEVATION

CONTRACT NO.
DRAWING NO. 2.02.01_09
SCALE AS SHOWN
SHEET NO. 9 OF 16

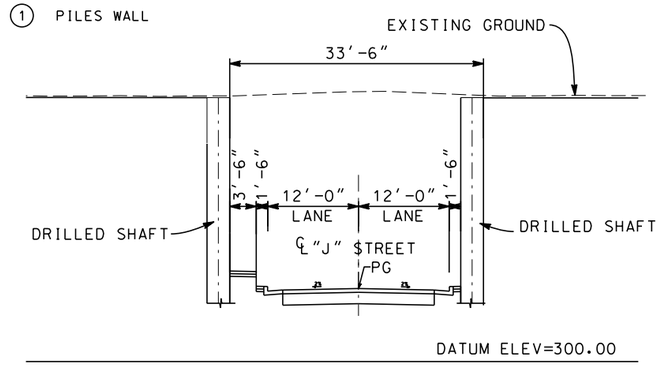


"J" STREET UNDERPASS PROFILE

NO SCALE

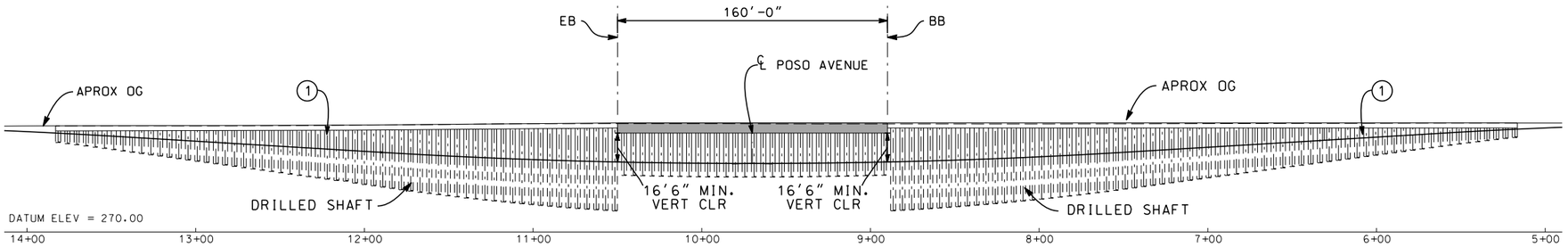
LEGEND:

(1) PILES WALL



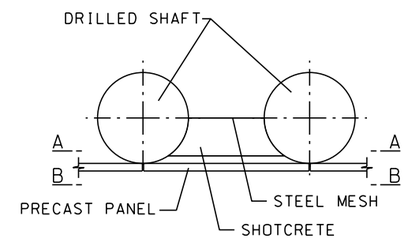
CROSS SECTION

SCALE: 1"=10'



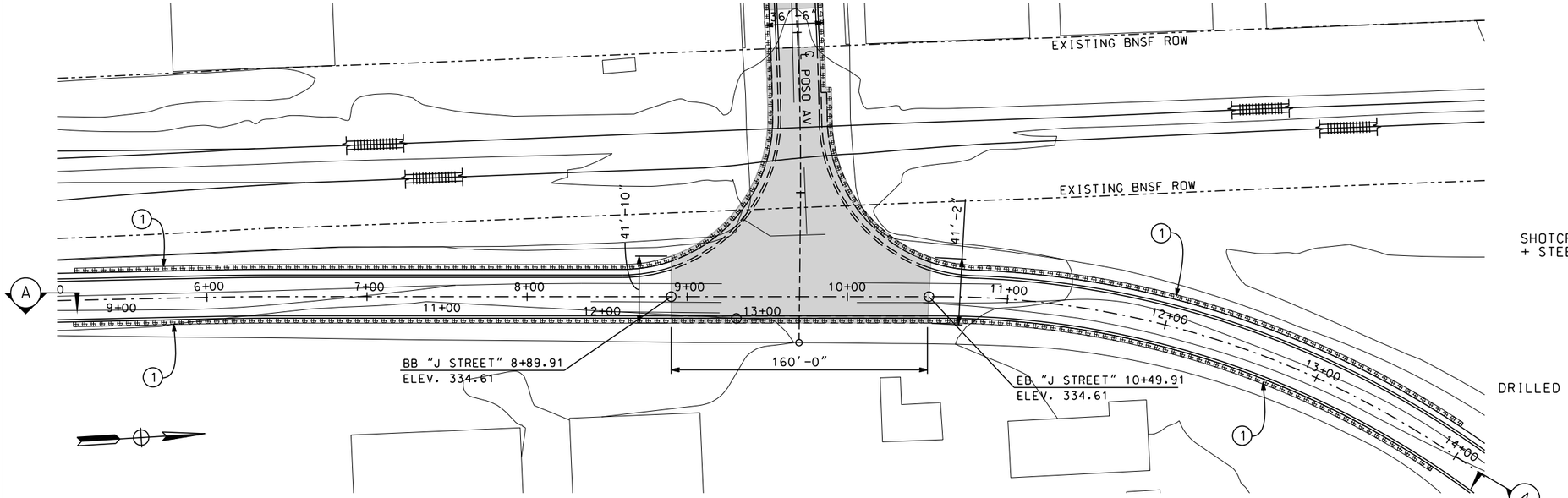
LONGITUDINAL SECTION A

SCALE 1" = 40'



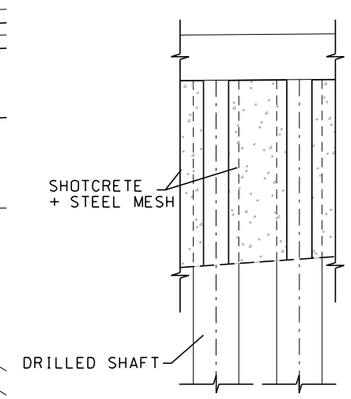
PILES DETAIL

SCALE: 1"=2.5'



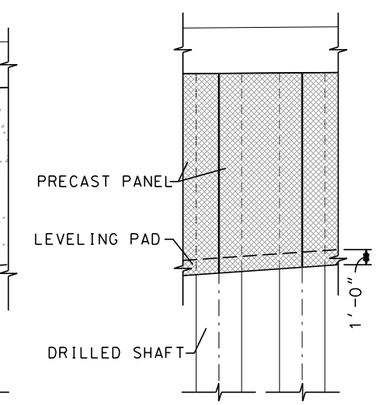
PLAN

SCALE 1" = 40'



SECTION A–A

SCALE: 1"=5'



SECTION B–B

SCALE: 1"=5'

10 0 10 20
1"=10'

40 0 40 80
1"=40'

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
DRAWN BY
CHECKED BY
IN CHARGE
DATE

ONLY FOR BIDDING PURPOSES - NOT FOR CONSTRUCTION

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA RAIL BUILDERS

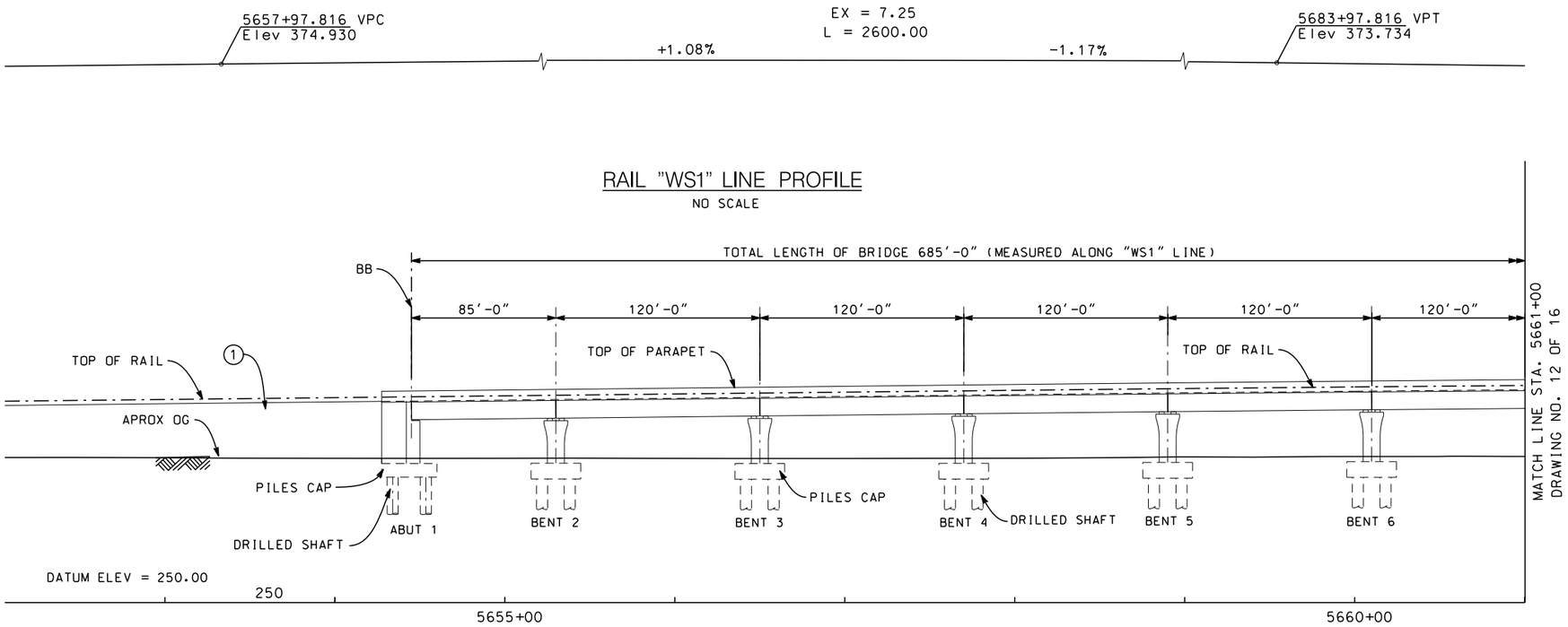
CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD

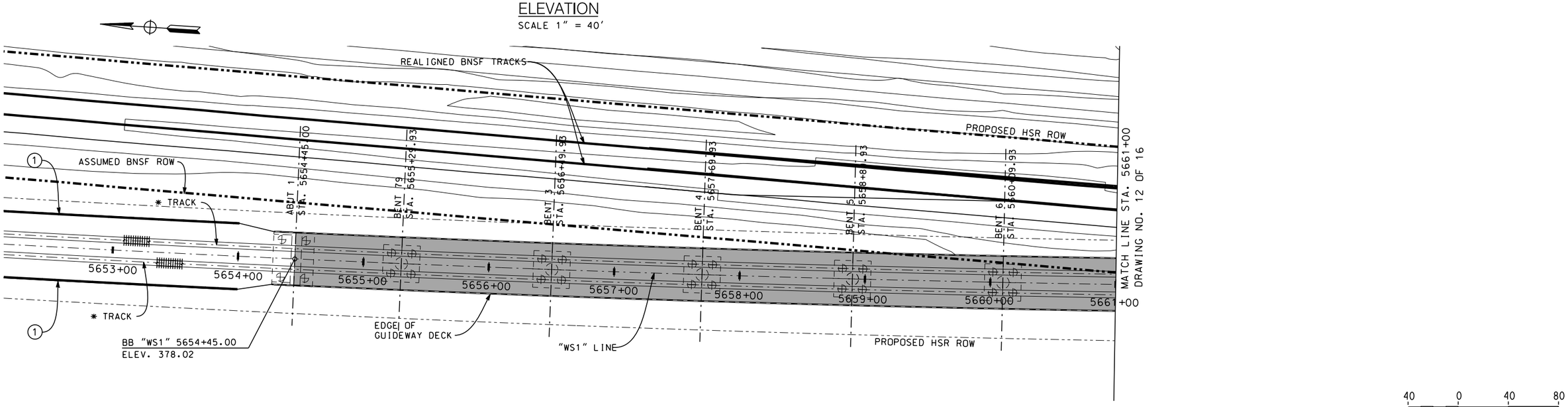
THROUGH WASCO SUBSECTION
ALIGNMENT WS1
J STREET UNDERPASS
PLAN AND ELEVATION

CONTRACT NO.
DRAWING NO. 2.02.01_10
SCALE AS SHOWN
SHEET NO. 10 OF 16

LEGEND:

(1) RETAINING WALL





REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
DRAWN BY
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IN CHARGE
DATE

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CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA RAIL BUILDERS

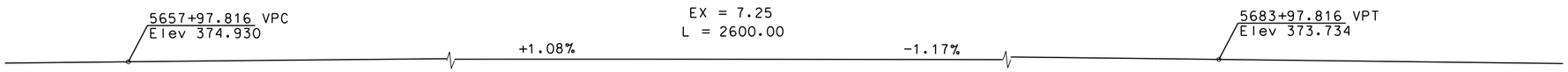
CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD

THROUGH WASCO SUBSECTION
ALIGNMENT WS1
WASCO VIADUCT
PLAN AND ELEVATION (I)

CONTRACT NO.
DRAWING NO. 2.02.01_11
SCALE AS SHOWN
SHEET NO. 11 OF 16

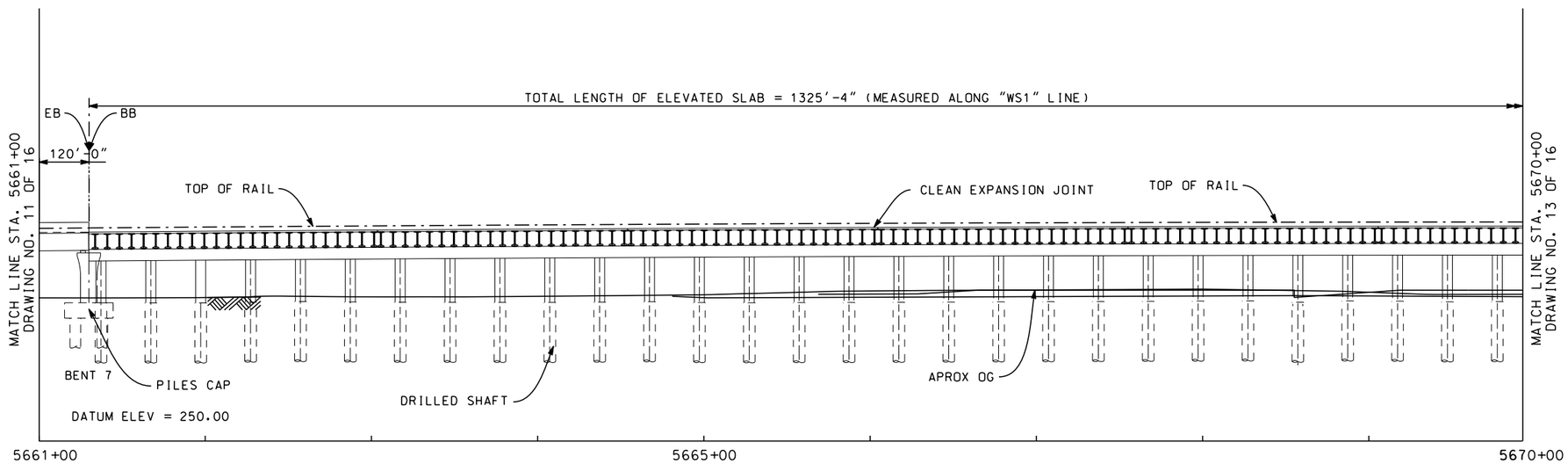
LEGEND:

(1) RETAINING WALL



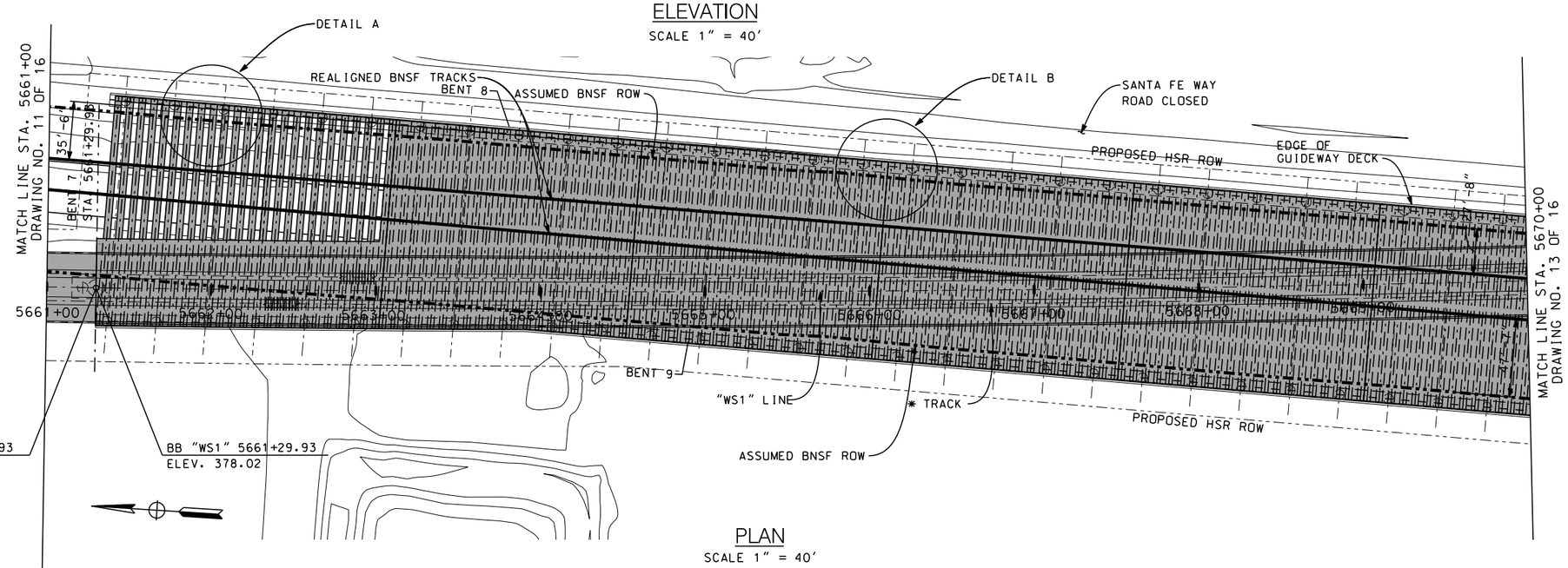
RAIL "WS1" LINE PROFILE

NO SCALE



ELEVATION

SCALE 1" = 40'



PLAN

SCALE 1" = 40'

0 40 80

1"=40'

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
DRAWN BY
CHECKED BY
IN CHARGE
DATE

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CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA RAIL BUILDERS

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD

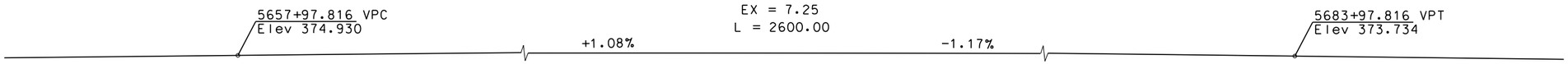
THROUGH WASCO SUBSECTION
ALIGNMENT WS1
WASCO VIADUCT
PLAN AND ELEVATION (II)

CONTRACT NO.

DRAWING NO. 2.02.01_12

SCALE AS SHOWN

SHEET NO. 12 OF 16

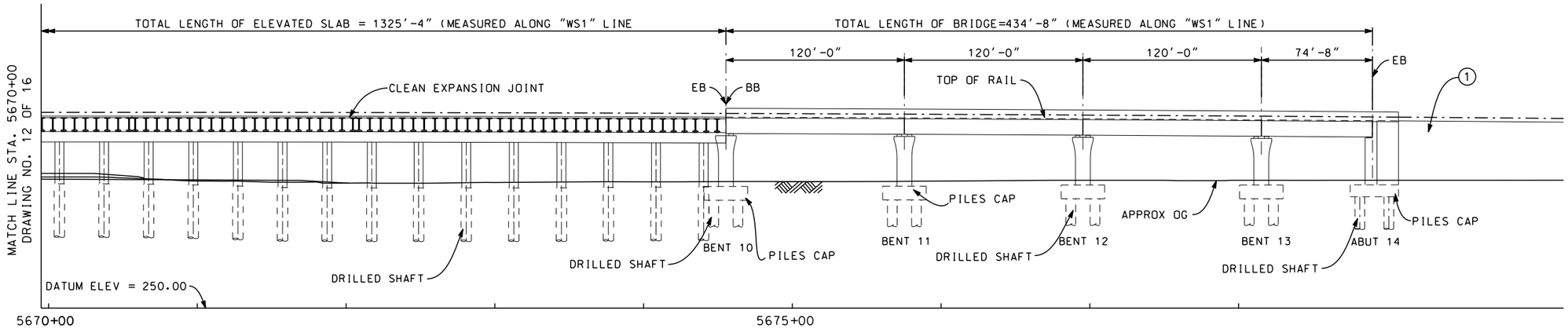


LEGEND:

(1) RETAINING WALL

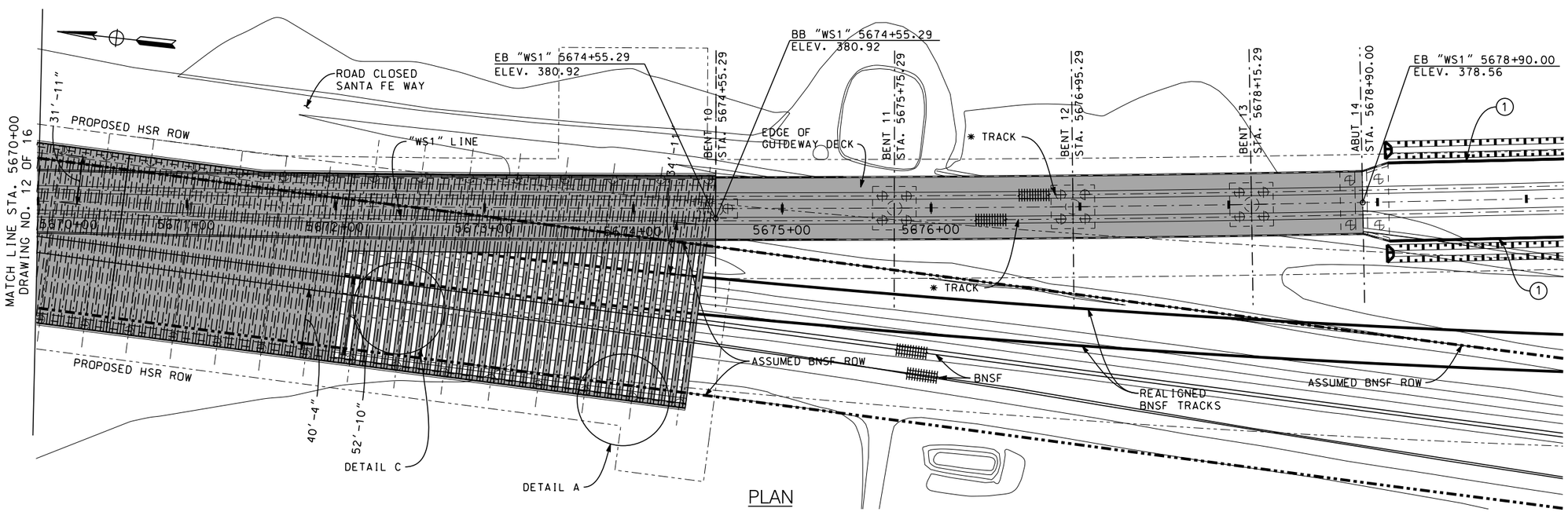
RAIL "WS1" LINE PROFILE

NO SCALE



ELEVATION

SCALE 1" = 40'



PLAN

SCALE 1" = 40'

REV	DATE	BY	CHK	APP	DESCRIPTION

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IN CHARGE
DATE

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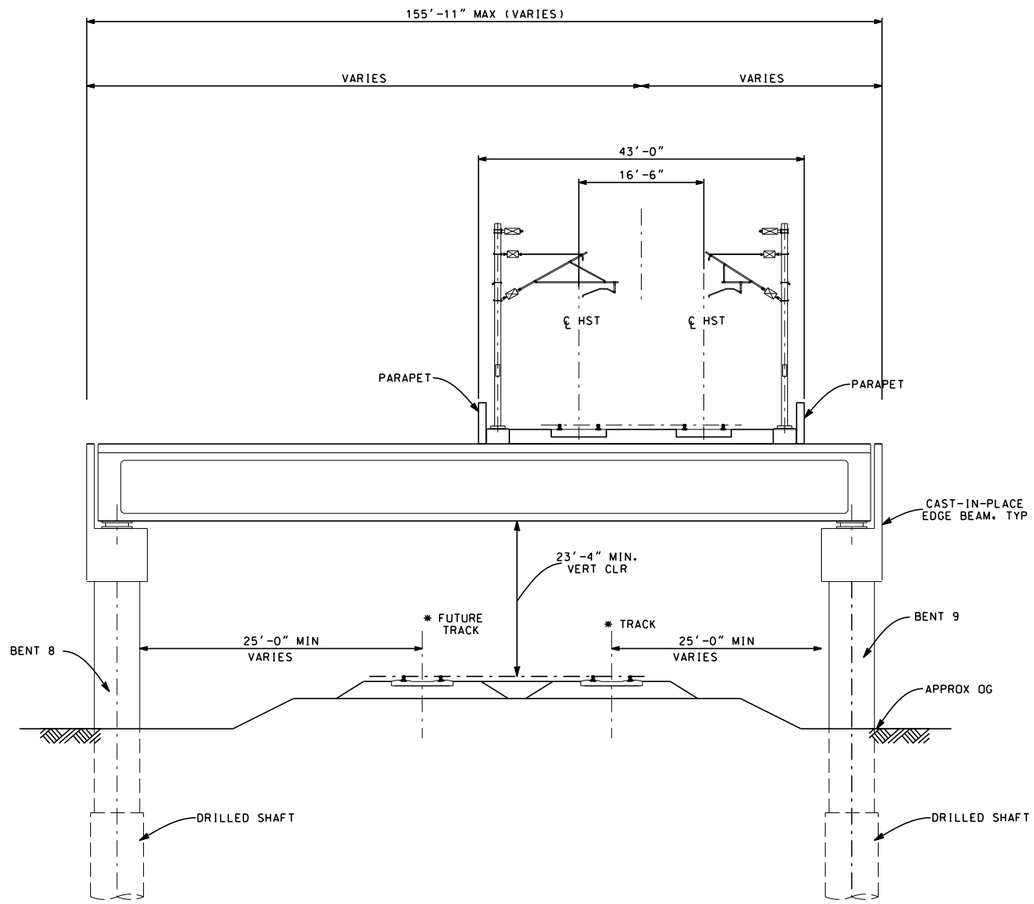
CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA RAIL BUILDERS

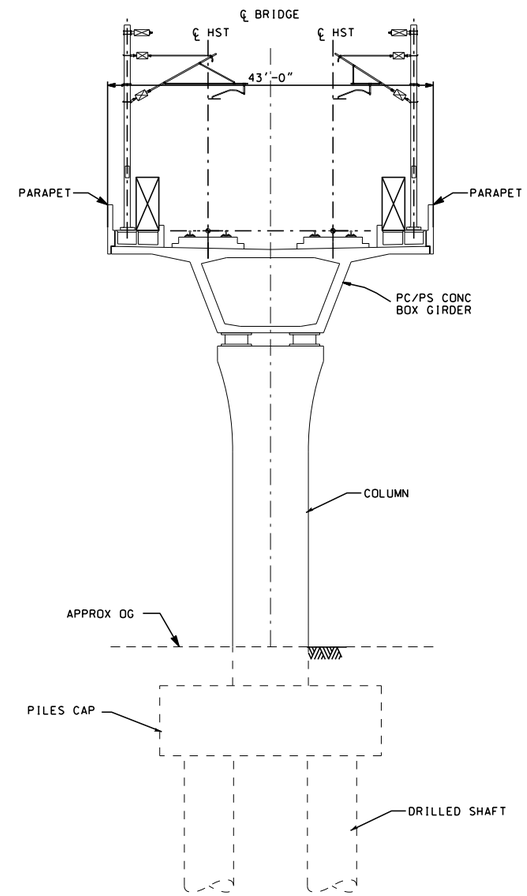
CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD

THROUGH WASCO SUBSECTION
ALIGNMENT WS1
WASCO VIADUCT
PLAN AND ELEVATION (III)

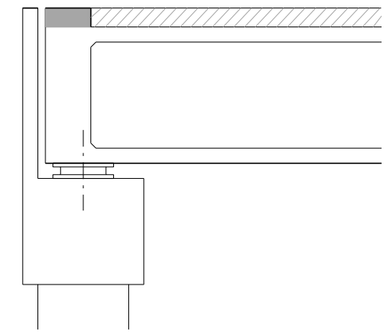
CONTRACT NO.
DRAWING NO. 2.02.01_13
SCALE AS SHOWN
SHEET NO. 13 OF 16



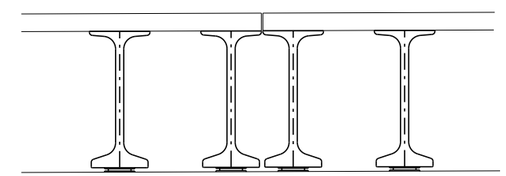
SECTION
SCALE: 1" = 10'



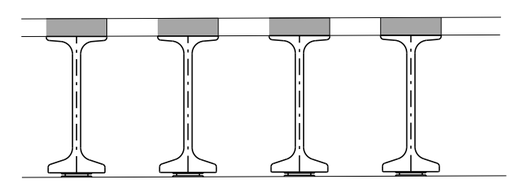
SECTION
SCALE: 1" = 10'



DETAIL A
SCALE: 1" = 5'



DETAIL B
SCALE: 1" = 5'



DETAIL C
SCALE: 1" = 5'

10 0 10 20
1"-10'

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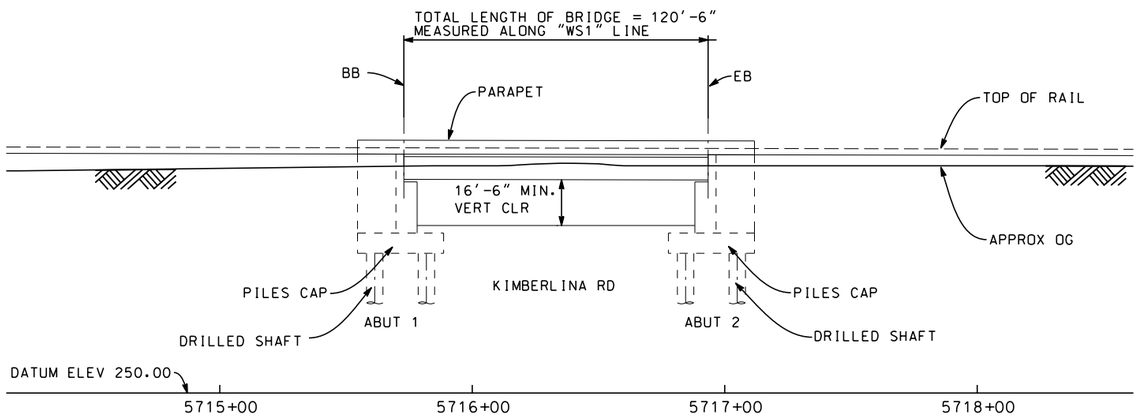
CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA RAIL BUILDERS

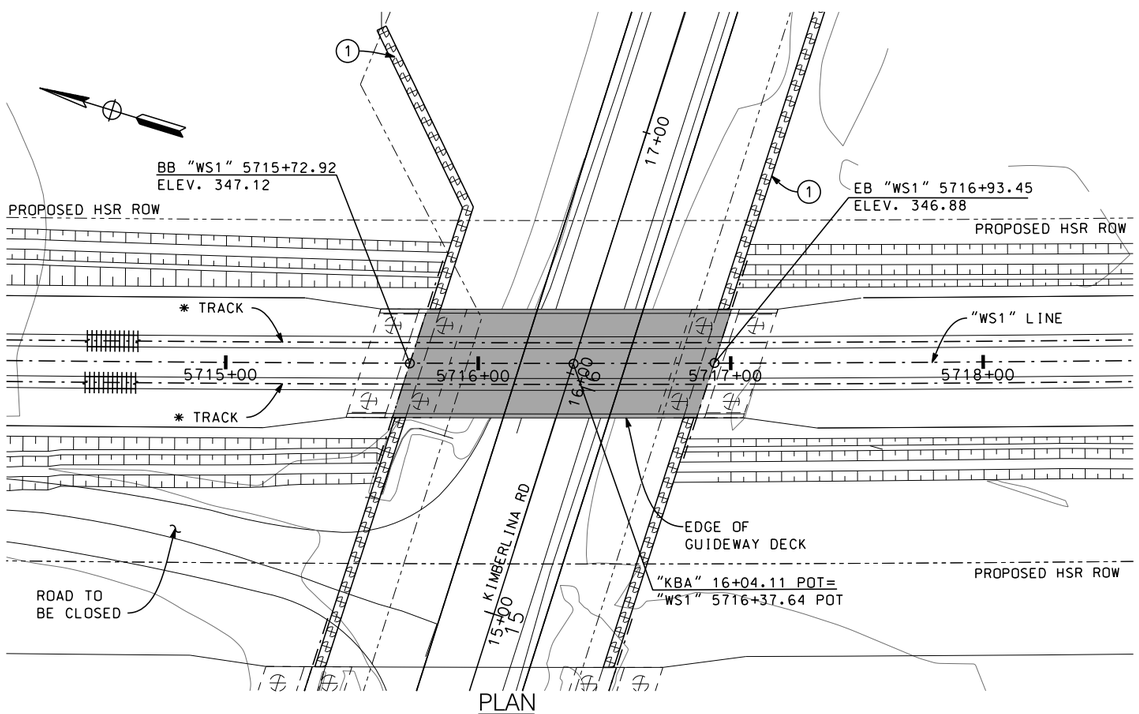
CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
THROUGH WASCO SUBSECTION
ALIGNMENT WS1
WASCO VIADUCT
TYPICAL SECTIONS - DETAILS

CONTRACT NO.
DRAWING NO. 2.02.01_14
SCALE AS SHOWN
SHEET NO. 14 OF 16

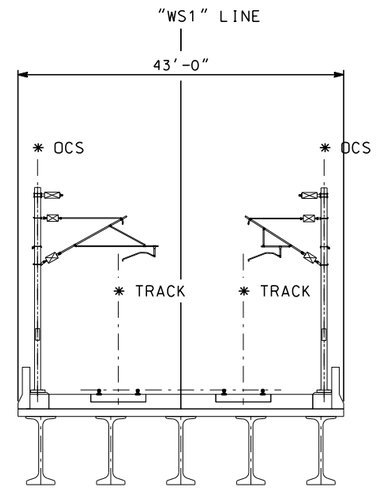
RAIL "WS1" LINE PROFILE
NO SCALE



ELEVATION
SCALE 1" = 30'

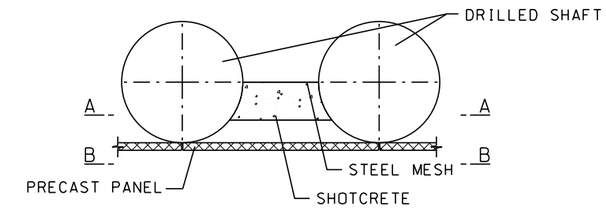


PLAN
SCALE 1" = 30'

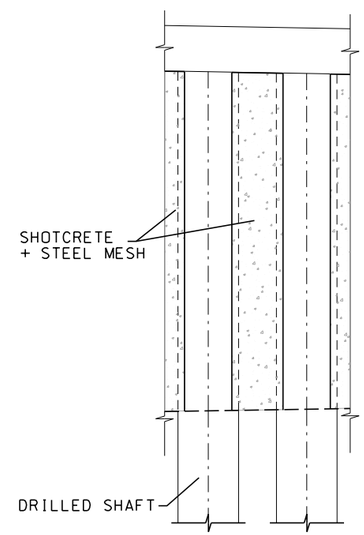


TYPICAL SECTION
SCALE: 1" = 10'

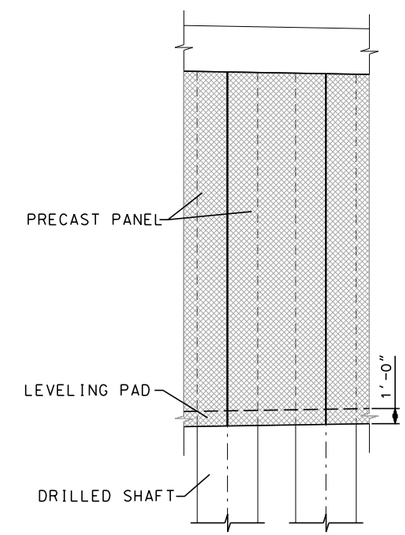
LEGEND:
1 PILES WALL



PILES DETAIL
SCALE: 1"= 2.5'



SECTION A–A
SCALE: 1"= 5'



SECTION B–B
SCALE: 1"= 5'

10 0 10 20 — 1"=10'
30 0 30 60 — 1"=30'

REV	DATE	BY	CHK	APP	DESCRIPTION

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DATE

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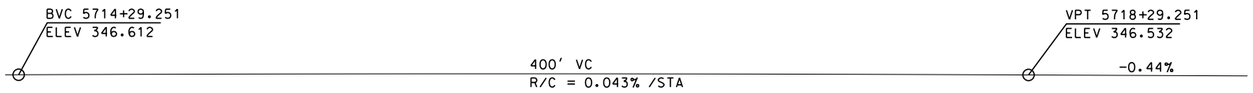
CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA RAIL BUILDERS

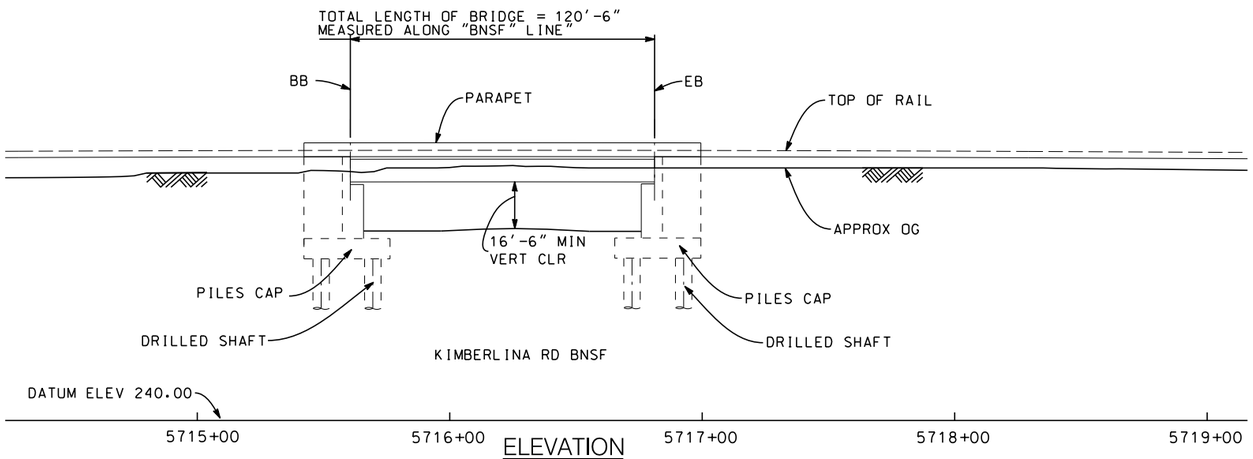
CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
THROUGH WASCO SUBSECTION
ALIGNMENT WS1
KIMBERLINA RD UNDERPASS
PLAN AND ELEVATION

CONTRACT NO.
DRAWING NO. 2.02.01_15
SCALE AS SHOWN
SHEET NO. 15 OF 16



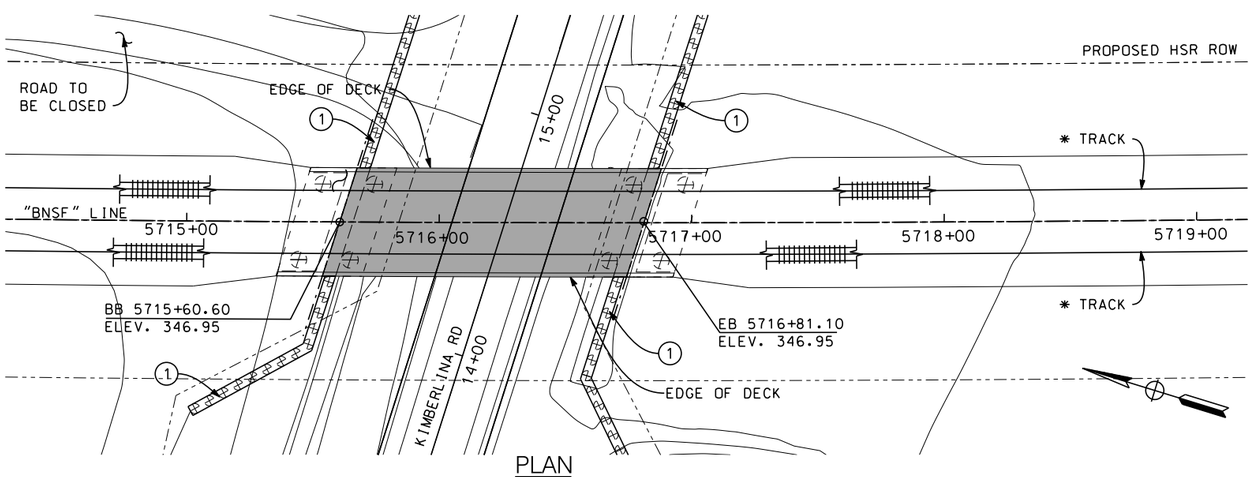
RAIL "BNSF" LINE PROFILE

NO SCALE



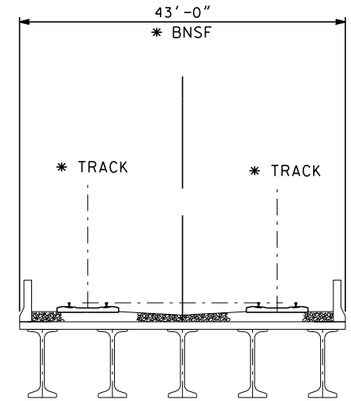
ELEVATION

SCALE 1" = 30'



PLAN

SCALE 1" = 30'

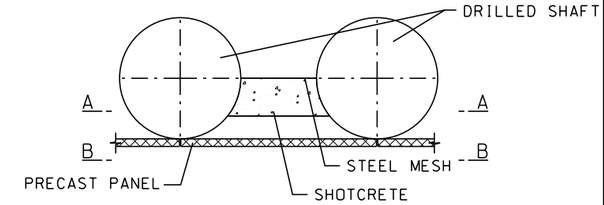


TYPICAL SECTION

SCALE: 1" = 10'

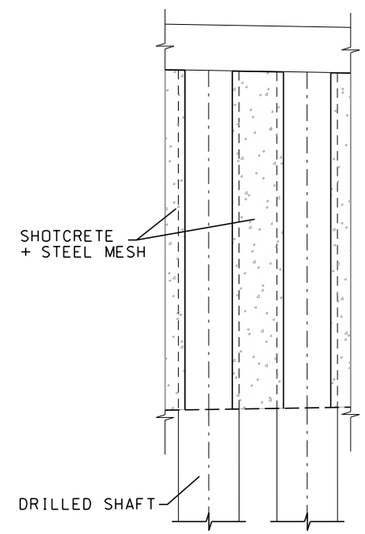
LEGEND:

(1) PILES WALL



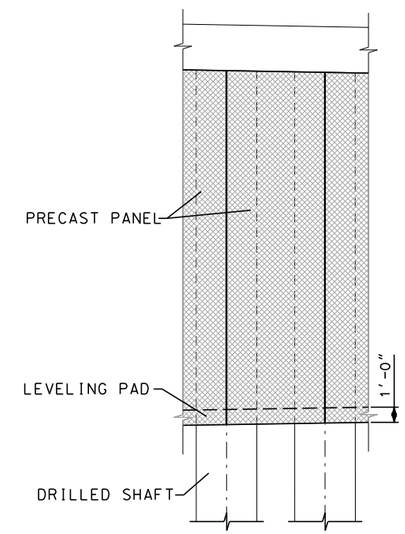
PILES DETAIL

SCALE: 1"= 2.5'



SECTION A–A

SCALE: 1"= 5'



SECTION B–B

SCALE: 1"= 5'

10 0 10 20 — 1"=10'

30 0 30 60 — 1"=30'

REV	DATE	BY	CHK	APP	DESCRIPTION

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CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA RAIL BUILDERS

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD

THROUGH WASCO SUBSECTION
ALIGNMENT WS1
KIMBERLINA RD BNSF UNDERPASS
PLAN AND ELEVATION

CONTRACT NO.
DRAWING NO. 2.02.01_16
SCALE AS SHOWN
SHEET NO. 16 OF 16

STRUCTURES
ROADWAYS

CALIFORNIA
HIGH-SPEED RAIL PROJECT

Design-Build Contract for
CONSTRUCTION PACKAGE 4

Proposal | RFP Number: HSR 14-32

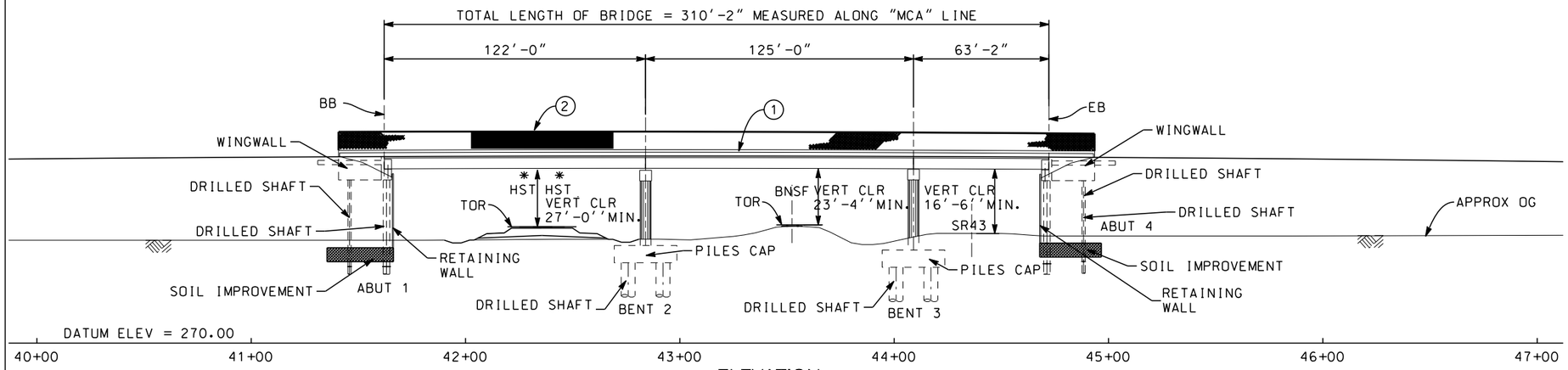
CALIFORNIA RAIL BUILDERS

McCOMBS AVE PROFILE
NO SCALE

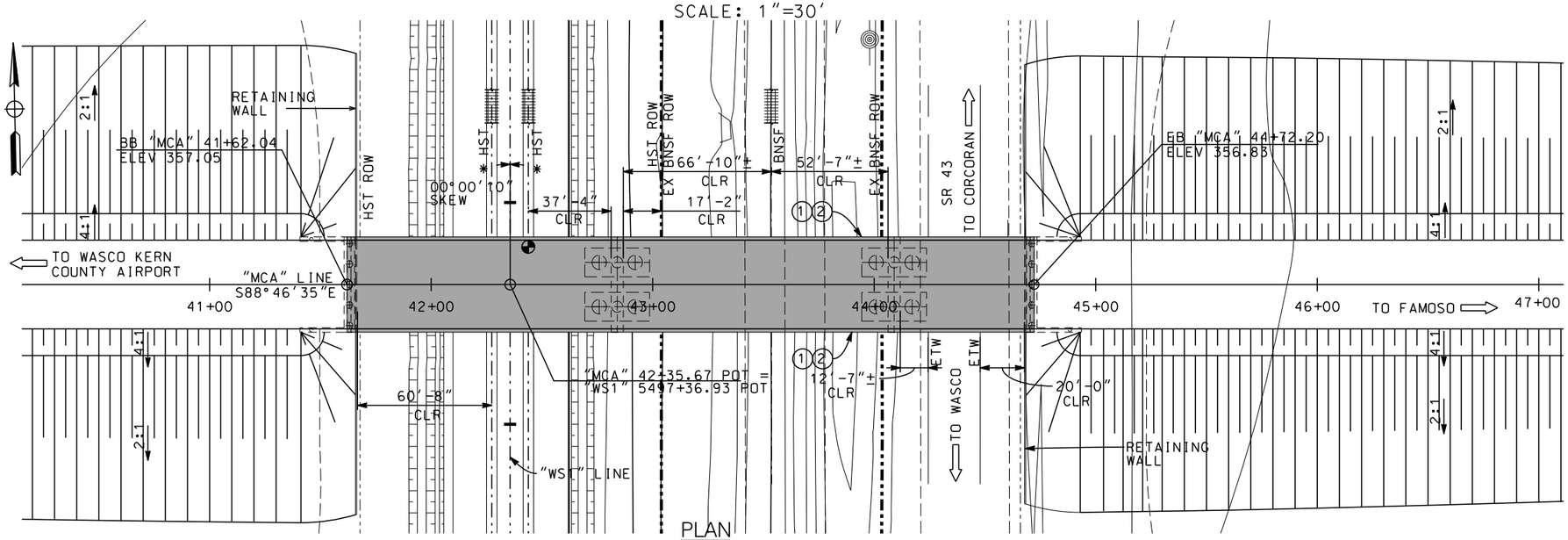
NOTES:
1. ALL PILES NOT SHOWN
2. FOR HORIZONTAL CURVE DATA, AND DETAILS NOT SHOWN, SEE ROADWAY PLANS.

LEGEND:

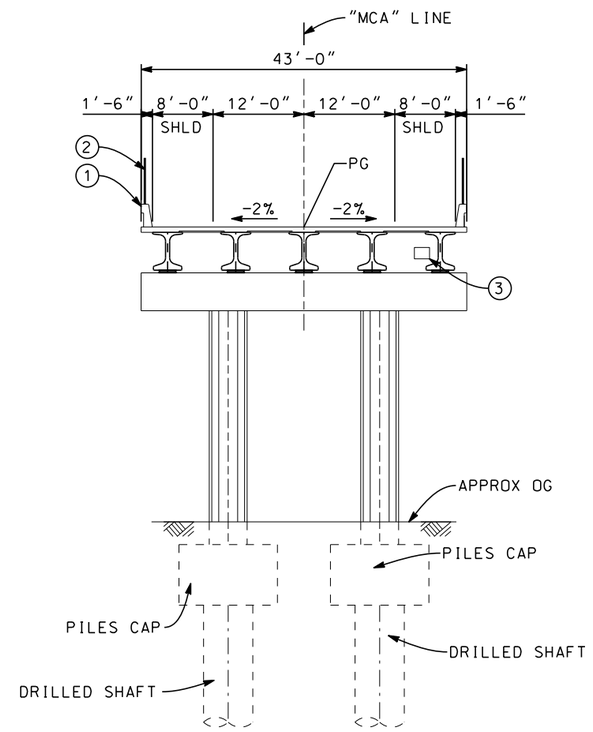
(1) CONCRETE BARRIER WITH AR FENCE
(2) AR FENCE WITH SOLID PLATE OVER HST
(3) FUTURE UTILITY ENCASEMENT OPENING



ELEVATION
SCALE: 1"=30'



PLAN
SCALE: 1"=30'



TYPICAL SECTION
SCALE: 1"=10'

10 0 10 20 — 1"=10'
30 0 30 60 — 1"=30'

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
DRAWN BY
CHECKED BY
IN CHARGE
DATE

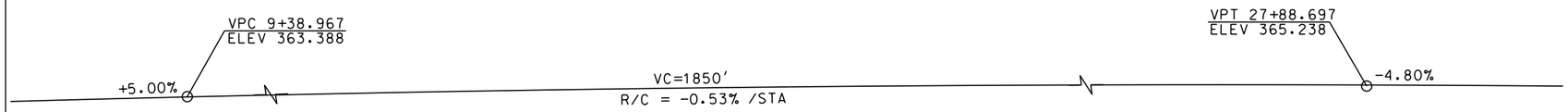
ONLY FOR BIDDING PURPOSES - NOT FOR CONSTRUCTION

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

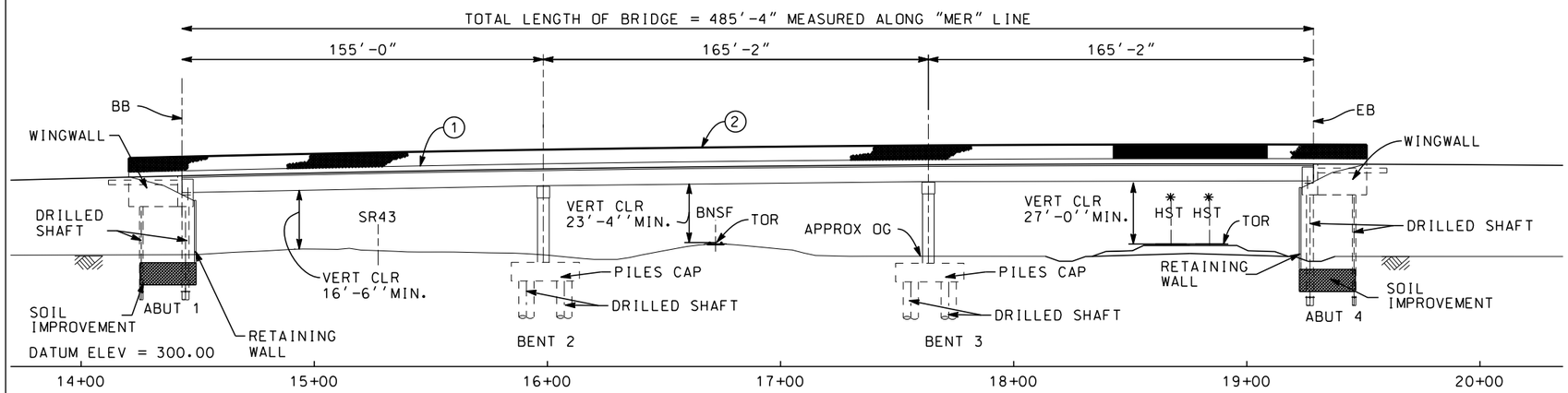
CALIFORNIA RAIL BUILDERS

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
THROUGH WASCO SUBSECTION
ALIGNMENT WS1
OVERHEAD PLANNING STUDY
McCOMBS AVE

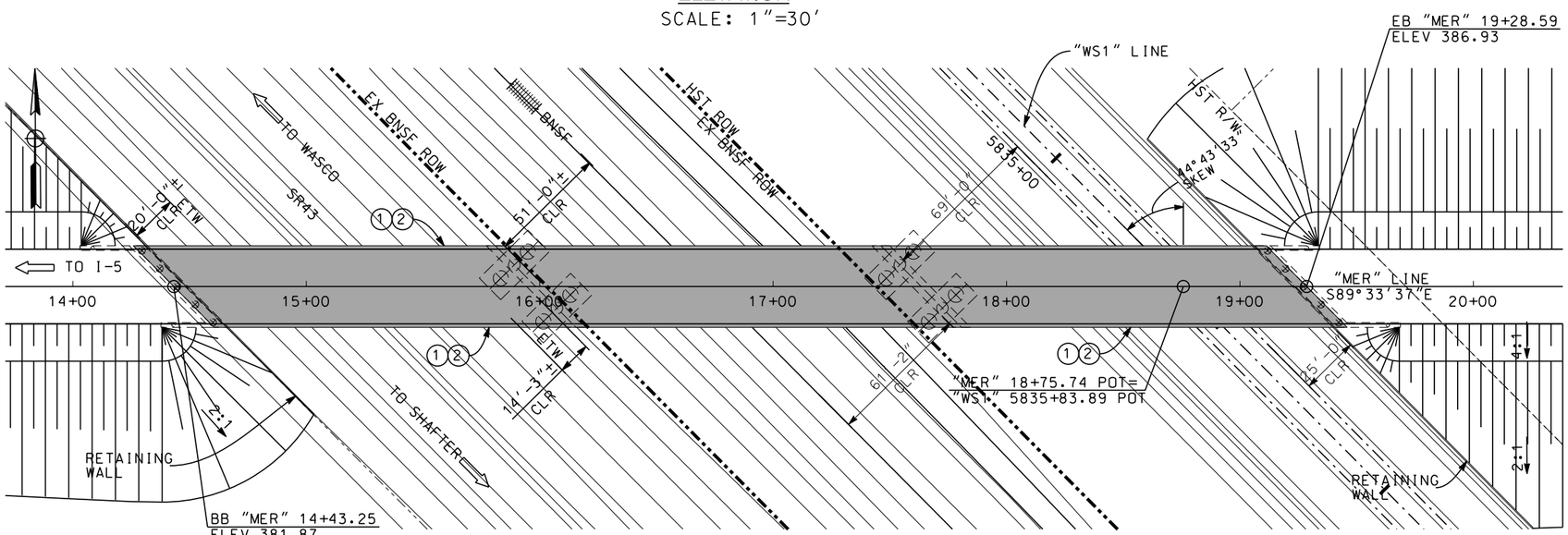
CONTRACT NO.
DRAWING NO. 2.02.02_01
SCALE AS SHOWN
SHEET NO. 1 OF 3



MERCED AVE PROFILE
NO SCALE



ELEVATION
SCALE: 1"=30'



PLAN
SCALE: 1"=30'

30 0 30 60
1"=30'

NOTES:
1. ALL PILES NOT SHOWN
2. FOR HORIZONTAL CURVE DATA, AND DETAILS NOT SHOWN, SEE ROADWAY PLANS.

LEGEND:

1. CONCRETE BARRIER WITH AR FENCE
2. AR FENCE WITH SOLID PLATE OVER HST
3. FUTURE UTILITY ENCASEMENT OPENING

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
DRAWN BY
CHECKED BY
IN CHARGE
DATE

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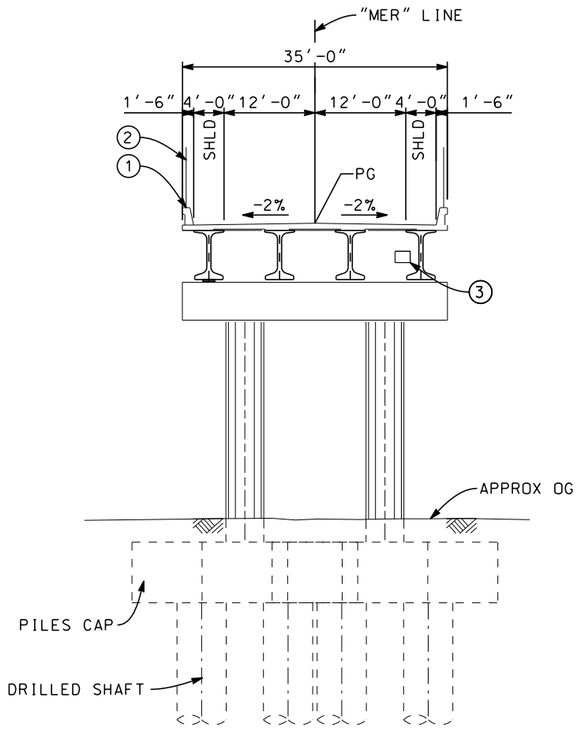
CALIFORNIA HIGH-SPEED RAIL AUTHORITY

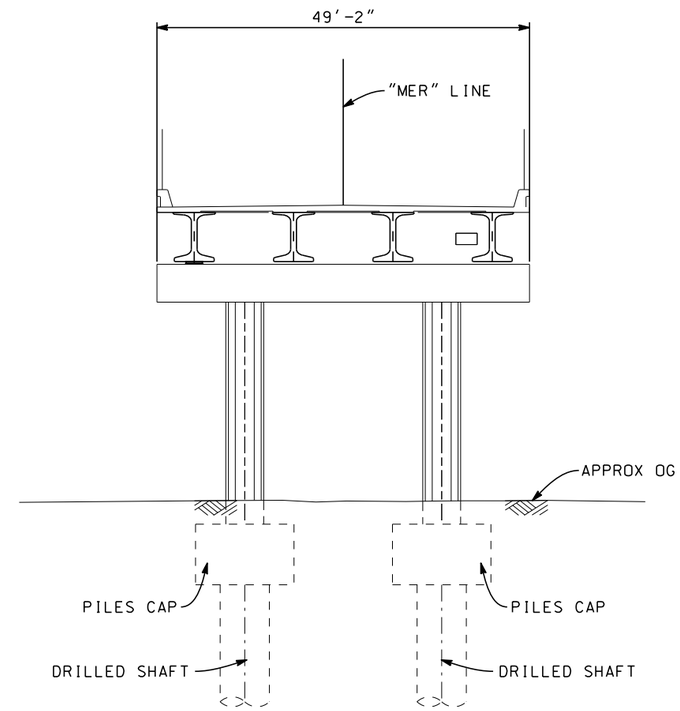
CALIFORNIA RAIL BUILDERS

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
THROUGH WASCO SUBSECTION
ALIGNMENT WS1
OVERHEAD PLANNING STUDY
MERCED AVE (I)

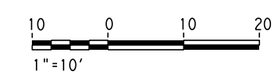
CONTRACT NO.
DRAWING NO. 2.02.02_02
SCALE AS SHOWN
SHEET NO. 2 OF 3



CROSS SECTION
SCALE: 1"=10'



BENT – ELEVATION
SCALE: 1"=10'



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CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA RAIL BUILDERS

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
THROUGH WASCO SUBSECTION
ALIGNMENT WS1
OVERHEAD PLANNING STUDY
MERCED AVE (II)

CONTRACT NO.
DRAWING NO. 2.02.02_03
SCALE AS SHOWN
SHEET NO. 3 OF 3

DRAINAGE

CALIFORNIA
HIGH-SPEED RAIL PROJECT

Design-Build Contract for
CONSTRUCTION PACKAGE 4

Proposals | RFP Number: HSR 14-32

CALIFORNIA RAIL BUILDERS

DRAINAGE

INDEX - DRAINAGE

DRAWING No.	REV No.	DRAWING DESCRIPTION	SHEET No
2.03.01_01		ALLENSWORTH BYPASS SUBSECTION - ALIGNMENT A1 - STA. 4435+50 TO 4463+00 - DRAINAGE	1 OF 40
2.03.01_02		ALLENSWORTH BYPASS SUBSECTION - ALIGNMENT A1 - STA. 4463+00 TO 4491+00 - DRAINAGE	2 OF 40
2.03.01_03		ALLENSWORTH BYPASS SUBSECTION - ALIGNMENT A1 - STA. 4491+00 TO 4519+00 - DRAINAGE	3 OF 40
2.03.01_04		ALLENSWORTH BYPASS SUBSECTION - ALIGNMENT A1 - STA. 4519+00 TO 4547+00 - DRAINAGE	4 OF 40
2.03.01_05		ALLENSWORTH BYPASS SUBSECTION - ALIGNMENT A1 - STA. 4547+00 TO 4575+00 - DRAINAGE	5 OF 40
2.03.01_06		ALLENSWORTH BYPASS SUBSECTION - ALIGNMENT A1 - STA. 4575+00 TO 4603+00 - DRAINAGE	6 OF 40
2.03.01_07		ALLENSWORTH BYPASS SUBSECTION - ALIGNMENT A1 - STA. 4603+00 TO 4631+00 - DRAINAGE	7 OF 40
2.03.01_08		ALLENSWORTH BYPASS SUBSECTION - ALIGNMENT A1 - STA. 4631+00 TO 4659+00 - DRAINAGE	8 OF 40
2.03.01_09		ALLENSWORTH BYPASS SUBSECTION - ALIGNMENT A1 - STA. 4659+00 TO 4687+00 - DRAINAGE	9 OF 40
2.03.01_10		ALLENSWORTH BYPASS SUBSECTION - ALIGNMENT A1 - STA. 4687+00 TO 4715+00 - DRAINAGE	10 OF 40
2.03.01_11		ALLENSWORTH BYPASS SUBSECTION - ALIGNMENT A1 - STA. 4715+00 TO 4743+00 - DRAINAGE	11 OF 40
2.03.01_12		ALLENSWORTH BYPASS SUBSECTION - ALIGNMENT A1 - STA. 4743+00 TO 4771+00 - DRAINAGE	12 OF 40
2.03.01_13		ALLENSWORTH BYPASS SUBSECTION - ALIGNMENT A1 - STA. 4771+00 TO 4799+00 - DRAINAGE	13 OF 40
2.03.01_14		ALLENSWORTH BYPASS SUBSECTION - ALIGNMENT A1 - STA. 4799+00 TO 4827+00 - DRAINAGE	14 OF 40
2.03.01_15		ALLENSWORTH BYPASS SUBSECTION - ALIGNMENT A1 - STA. 4827+00 TO 4855+00 - DRAINAGE	15 OF 40
2.03.01_16		ALLENSWORTH BYPASS SUBSECTION - ALIGNMENT A1 - STA. 4855+00 TO 4883+00 - DRAINAGE	16 OF 40
2.03.01_17		ALLENSWORTH BYPASS SUBSECTION - ALIGNMENT A1 - STA. 4883+00 TO 4911+00 - DRAINAGE	17 OF 40
2.03.01_18		ALLENSWORTH BYPASS SUBSECTION - ALIGNMENT A1 - STA. 4911+00 TO 4925+33.36 POSO CREEK SUBSECTION - ALIGNMENT L1 - STA. 5154+50 TO 5168+00 - DRAINAGE	18 OF 40
2.03.01_19		POSO CREEK SUBSECTION - ALIGNMENT L1 - STA. 5168+00 TO 5196+00 - DRAINAGE	19 OF 40
2.03.01_20		POSO CREEK SUBSECTION - ALIGNMENT L1 - STA. 5196+00 TO 5224+00 - DRAINAGE	20 OF 40
2.03.01_21		POSO CREEK SUBSECTION - ALIGNMENT L1 - STA. 5224+00 TO 5252+00 - DRAINAGE	21 OF 40
2.03.01_22		POSO CREEK SUBSECTION - ALIGNMENT L1 - STA. 5252+00 TO 5280+00 - DRAINAGE	22 OF 40
2.03.01_23		POSO CREEK SUBSECTION - ALIGNMENT L1 - STA. 5280+00 TO 5308+00 - DRAINAGE	23 OF 40
2.03.01_24		POSO CREEK SUBSECTION - ALIGNMENT L1 - STA. 5308+00 TO 5322+33.13 THROUGH WASCO SUBSECTION - ALIGNMENT WS1 - STA. 5422+50 TO 5436+00 - DRAINAGE	24 OF 40
2.03.01_25		THROUGH WASCO SUBSECTION - ALIGNMENT WS1 - STA. 5436+00 TO 5464+00 - DRAINAGE	25 OF 40
2.03.01_26		THROUGH WASCO SUBSECTION - ALIGNMENT WS1 - STA. 5464+00 TO 5492+00 - DRAINAGE	26 OF 40
2.03.01_27		THROUGH WASCO SUBSECTION - ALIGNMENT WS1 - STA. 5492+00 TO 5520+00 - DRAINAGE	27 OF 40
2.03.01_28		THROUGH WASCO SUBSECTION - ALIGNMENT WS1 - STA. 5520+00 TO 5548+00 - DRAINAGE	28 OF 40
2.03.01_29		THROUGH WASCO SUBSECTION - ALIGNMENT WS1 - STA. 5548+00 TO 5576+00 - DRAINAGE	29 OF 40
2.03.01_30		THROUGH WASCO SUBSECTION - ALIGNMENT WS1 - STA. 5576+00 TO 5604+00 - DRAINAGE	30 OF 40

- PRELIMINARY, SUBJECT TO CHANGE DURING DETAIL DESIGN.

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CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA RAIL BUILDERS

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD

INDEX OF DRAWINGS
DRAINAGE

CONTRACT NO.
DRAWING NO. 2.03
SCALE NO SCALE
SHEET NO. 1 OF 2

INDEX - DRAINAGE - HIGH-SPEED RAIL TRACK (CONT.)

DRAWING No.	REV No.	DRAWING DESCRIPTION	SHEET No
2.03.01_31		THROUGH WASCO SUBSECTION - ALIGNMENT WS1 - STA. 5604+00 TO 5632+00 - DRAINAGE	31 OF 40
2.03.01_32		THROUGH WASCO SUBSECTION - ALIGNMENT WS1 - STA. 5632+00 TO 5660+00 - DRAINAGE	32 OF 40
2.03.01_33		THROUGH WASCO SUBSECTION - ALIGNMENT WS1 - STA. 5660+00 TO 5688+00 - DRAINAGE	33 OF 40
2.03.01_34		THROUGH WASCO SUBSECTION - ALIGNMENT WS1 - STA. 5688+00 TO 5716+00 - DRAINAGE	34 OF 40
2.03.01_35		THROUGH WASCO SUBSECTION - ALIGNMENT WS1 - STA. 5716+00 TO 5744+00 - DRAINAGE	35 OF 40
2.03.01_36		THROUGH WASCO SUBSECTION - ALIGNMENT WS1 - STA. 5744+00 TO 5772+00 - DRAINAGE	36 OF 40
2.03.01_37		THROUGH WASCO SUBSECTION - ALIGNMENT WS1 - STA. 5772+00 TO 5800+00 - DRAINAGE	37 OF 40
2.03.01_38		THROUGH WASCO SUBSECTION - ALIGNMENT WS1 - STA. 5800+00 TO 5828+00 - DRAINAGE	38 OF 40
2.03.01_39		THROUGH WASCO SUBSECTION - ALIGNMENT WS1 - STA. 5828+00 TO 5856+00 - DRAINAGE	39 OF 40
2.03.01_40		THROUGH WASCO SUBSECTION - ALIGNMENT WS1 - STA. 5856+00 TO 5879+93.88 - DRAINAGE	40 OF 40

- PRELIMINARY, SUBJECT TO CHANGE DURING DETAIL DESIGN.

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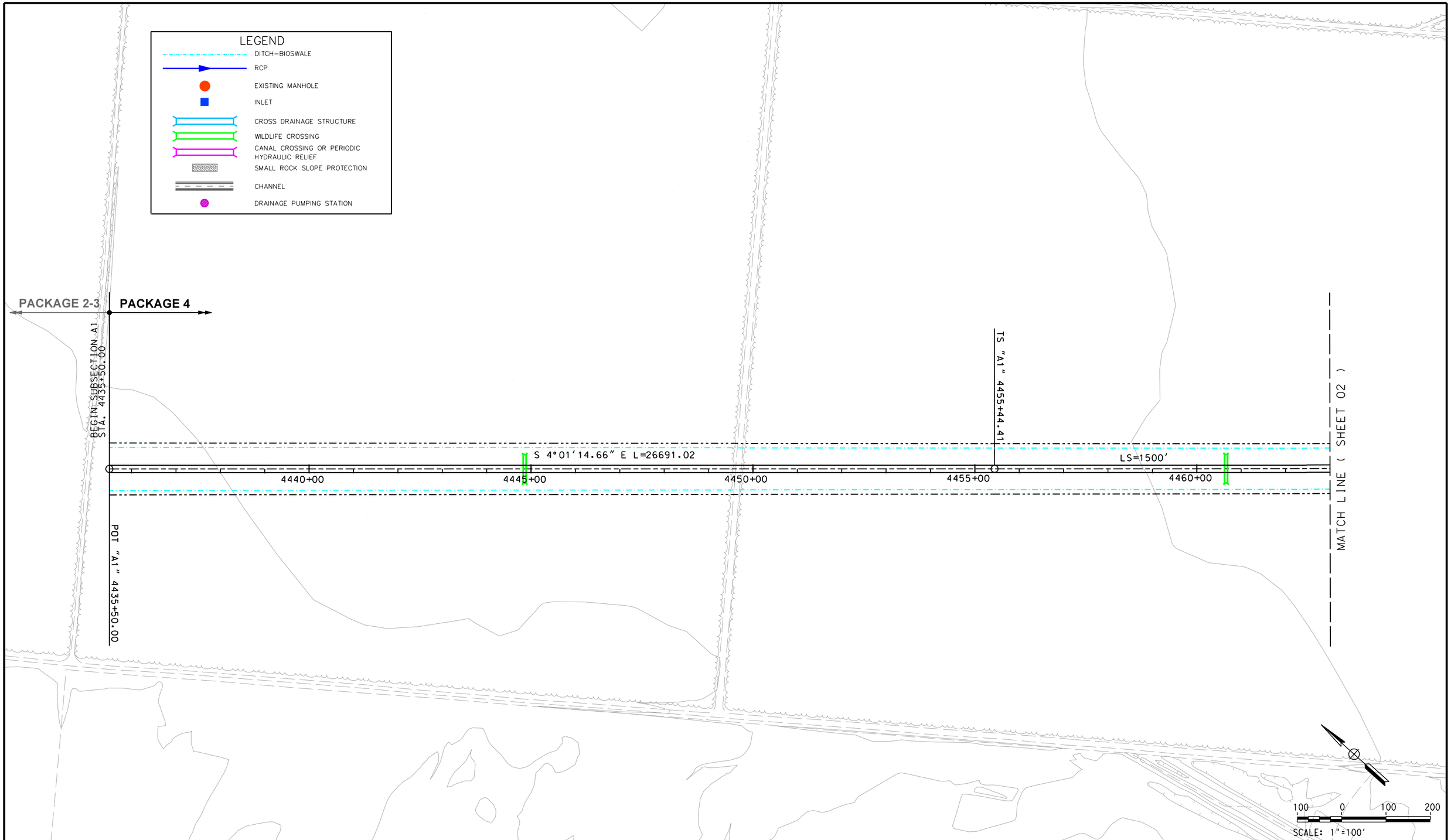
FRESNO TO BAKERSFIELD

INDEX OF DRAWINGS
DRAINAGE

CONTRACT NO.
DRAWING NO. 2.03
SCALE NO SCALE
SHEET NO. 2 OF 2



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FRESNO TO BAKERSFIELD
ALLENSWORTH BYPASS SUBSECTION
ALIGNMENT A1
STA. 4435+50 TO 4463+00
DRAINAGE PLAN

CONTRACT NO.
DRAWING NO. 2.03.01_01
SCALE AS SHOWN
SHEET NO. 1 OF 40

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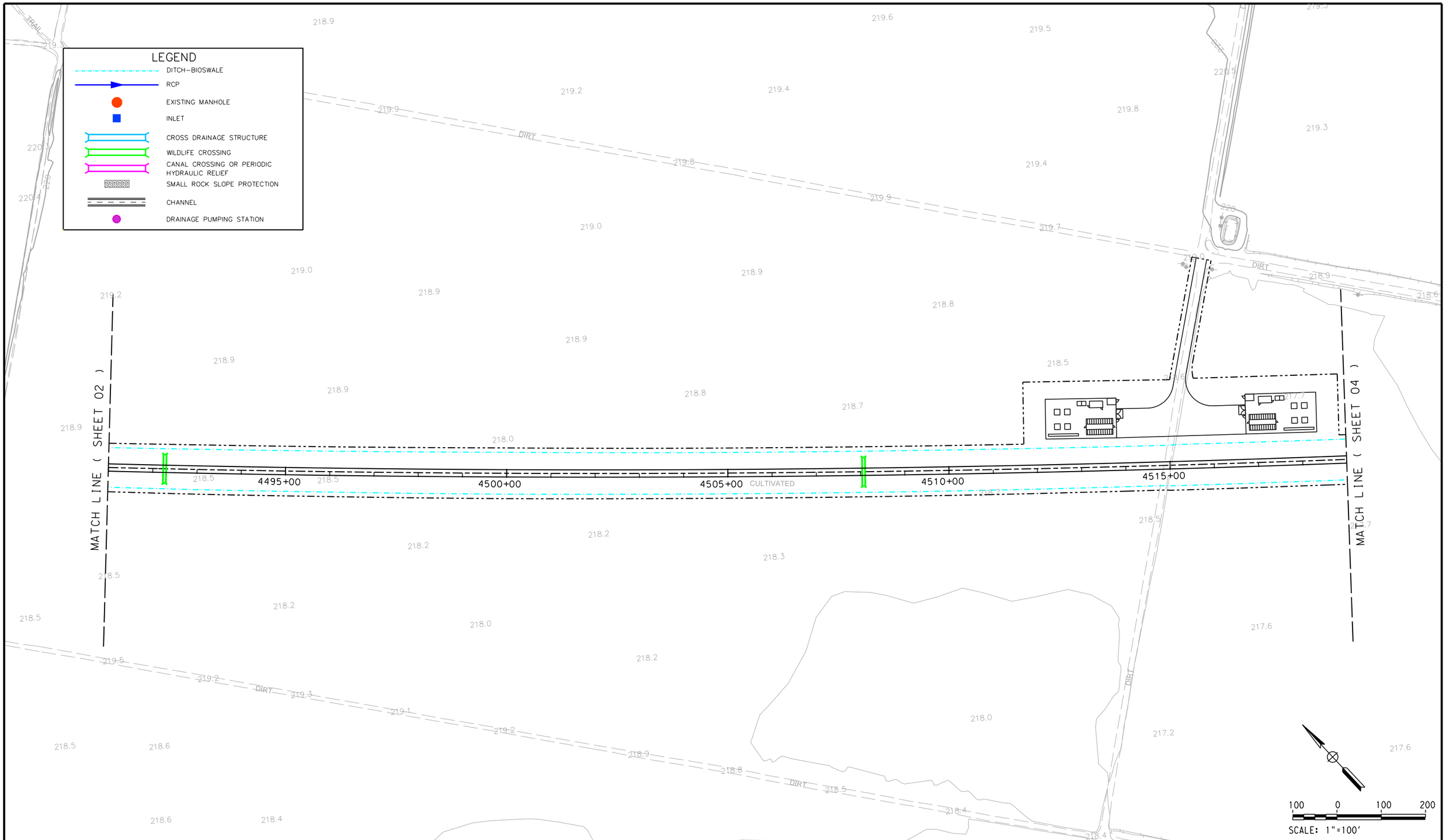
FRESNO TO BAKERSFIELD
ALLENSWORTH BYPASS SUBSECTION
ALIGNMENT A1
STA. 4463+00 TO 4491+00
DRAINAGE PLAN

CONTRACT NO.
DRAWING NO. 2.03.01_02
SCALE AS SHOWN
SHEET NO. 2 OF 40



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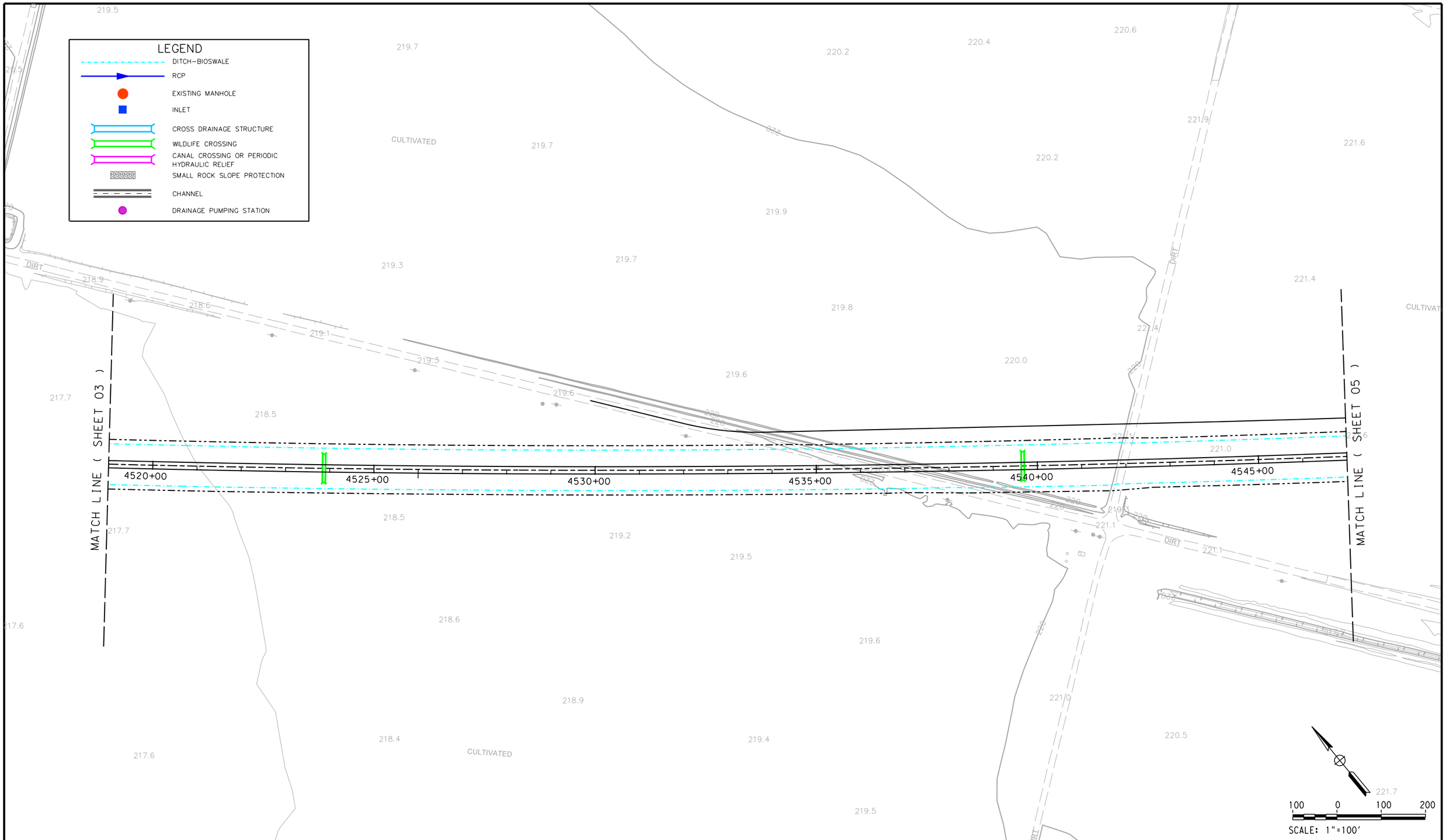
FRESNO TO BAKERSFIELD
ALLENSWORTH BYPASS SUBSECTION
ALIGNMENT A1
STA. 4491+00 TO 4519+00
DRAINAGE PLAN

CONTRACT NO.
DRAWING NO. 2.03.01_03
SCALE AS SHOWN
SHEET NO. 3 OF 40



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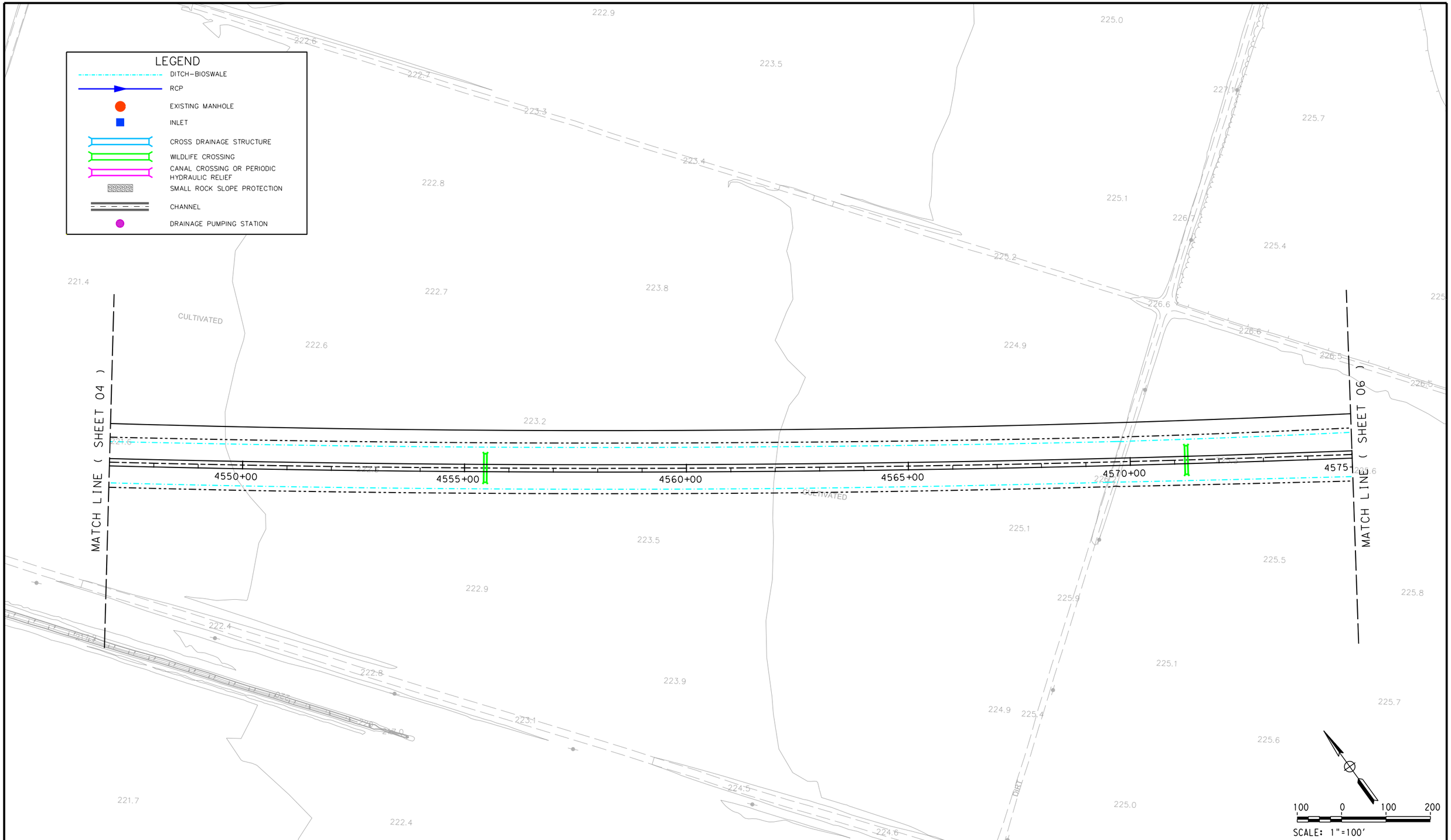
FRESNO TO BAKERSFIELD
ALLENSWORTH BYPASS SUBSECTION
ALIGNMENT A1
STA. 4519+00 TO 4547+00
DRAINAGE PLAN

CONTRACT NO.
DRAWING NO. 2.03.01_04
SCALE AS SHOWN
SHEET NO. 4 OF 40



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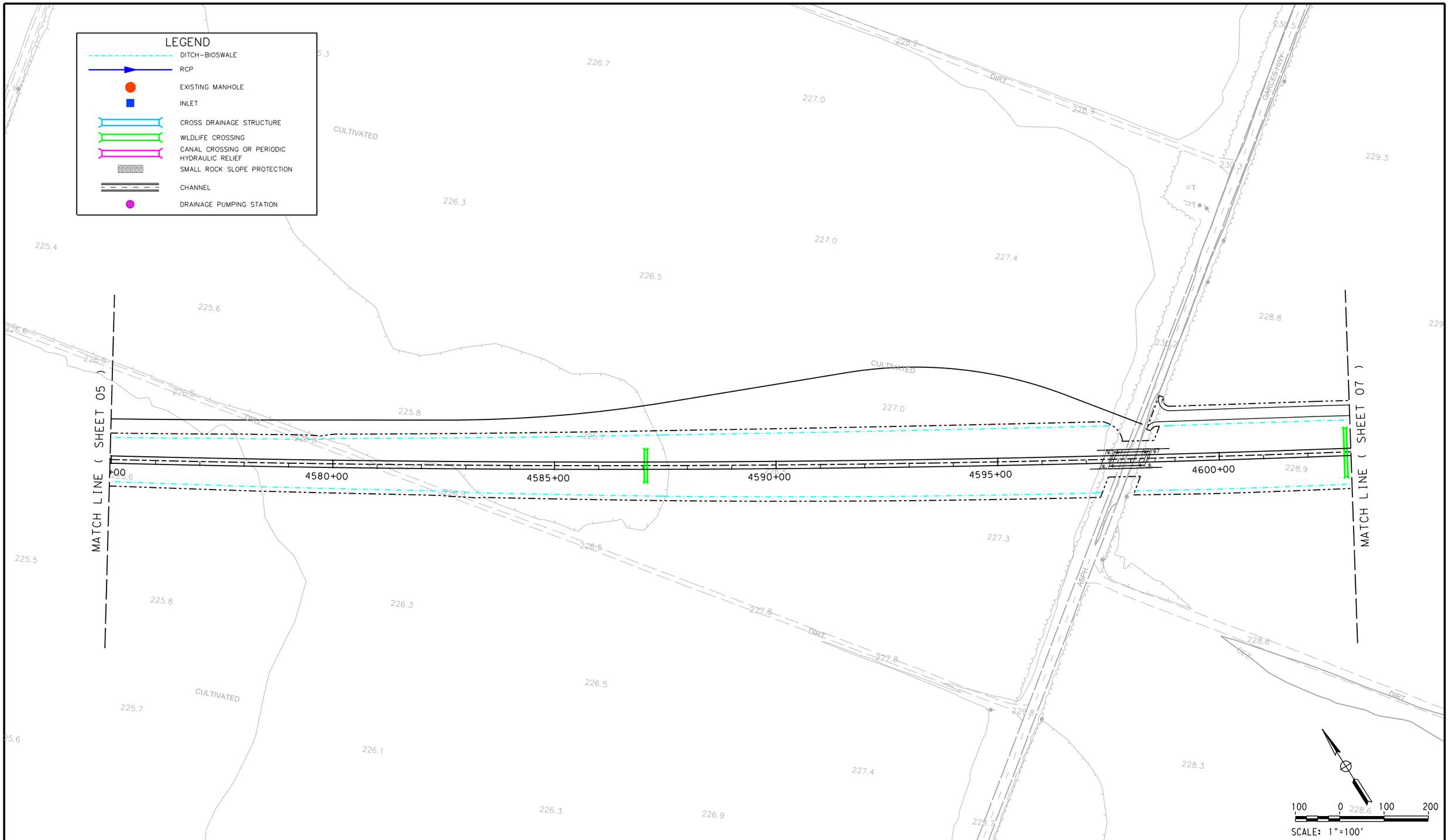
CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
ALLENSWORTH BYPASS SUBSECTION
ALIGNMENT A1
STA. 4547+00 TO 4575+00
DRAINAGE PLAN

CONTRACT NO.
DRAWING NO. 2.03.01_05
SCALE AS SHOWN
SHEET NO. 5 OF 40



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DESIGNED BY K. SEYMOUR
DRAWN BY P. TONKIN
CHECKED BY S. BURGES
IN CHARGE R. COFFIN
DATE 08/08/14

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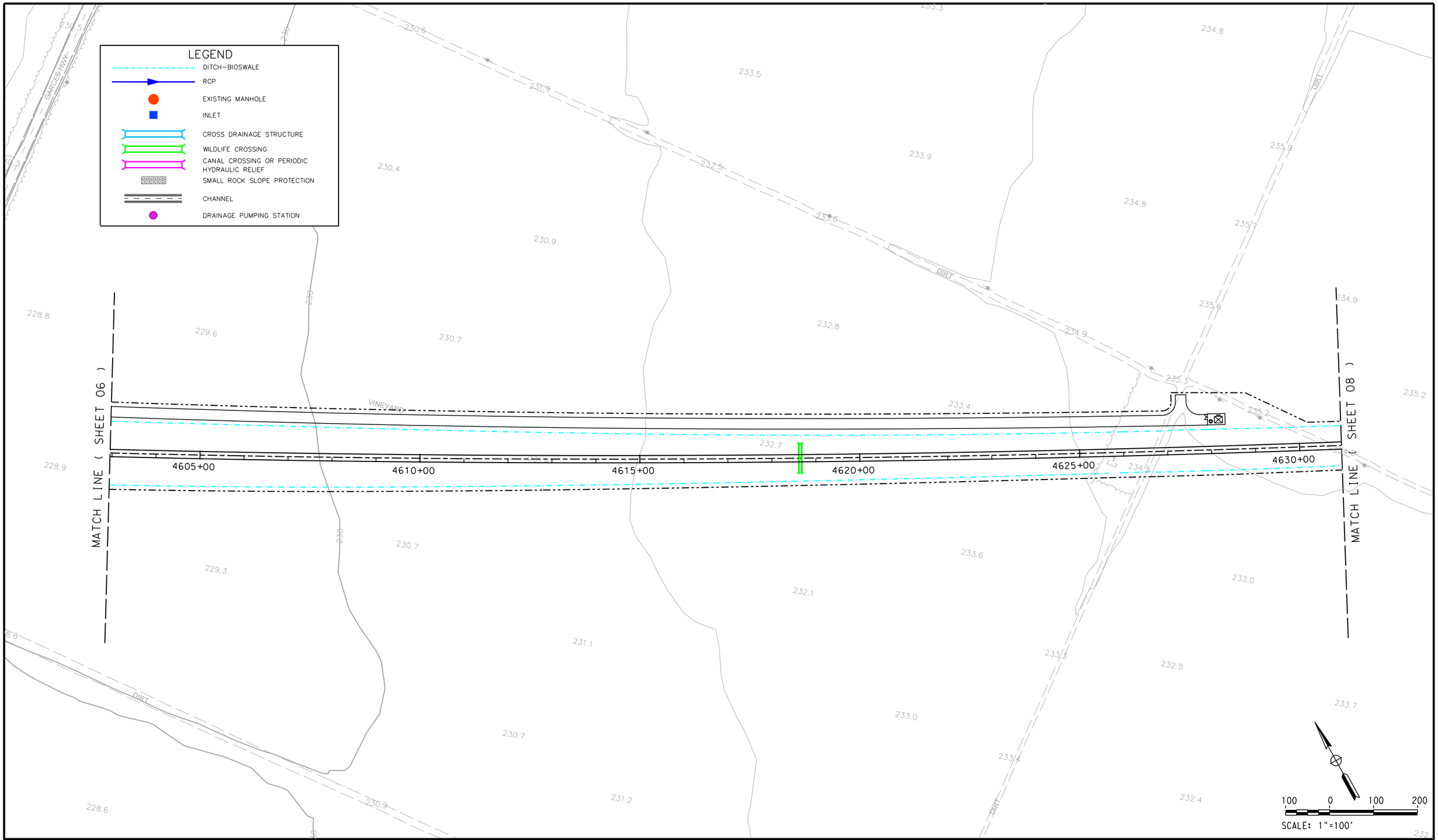
FRESNO TO BAKERSFIELD
ALLENSWORTH BYPASS SUBSECTION
ALIGNMENT A1
STA. 4575+00 TO 4603+00
DRAINAGE PLAN

CONTRACT NO. HSR 06-0003
DRAWING NO. 2.03.01_06
SCALE AS SHOWN
SHEET NO. 6 OF 40



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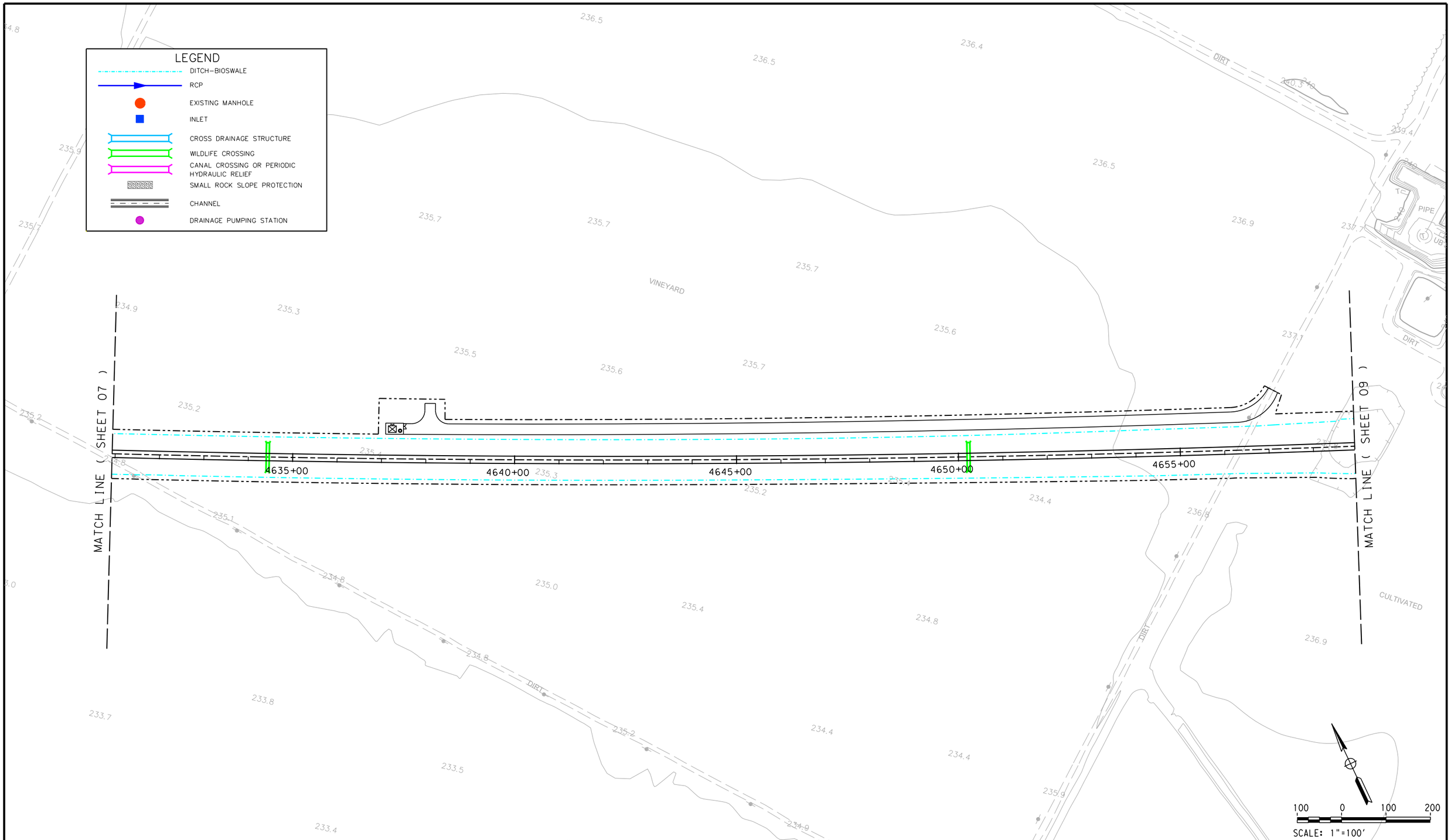
FRESNO TO BAKERSFIELD
ALLENSWORTH BYPASS SUBSECTION
ALIGNMENT A1
STA. 4603+00 TO 4631+00
DRAINAGE PLAN

CONTRACT NO.
DRAWING NO. 2.03.01_07
SCALE AS SHOWN
SHEET NO. 7 OF 40



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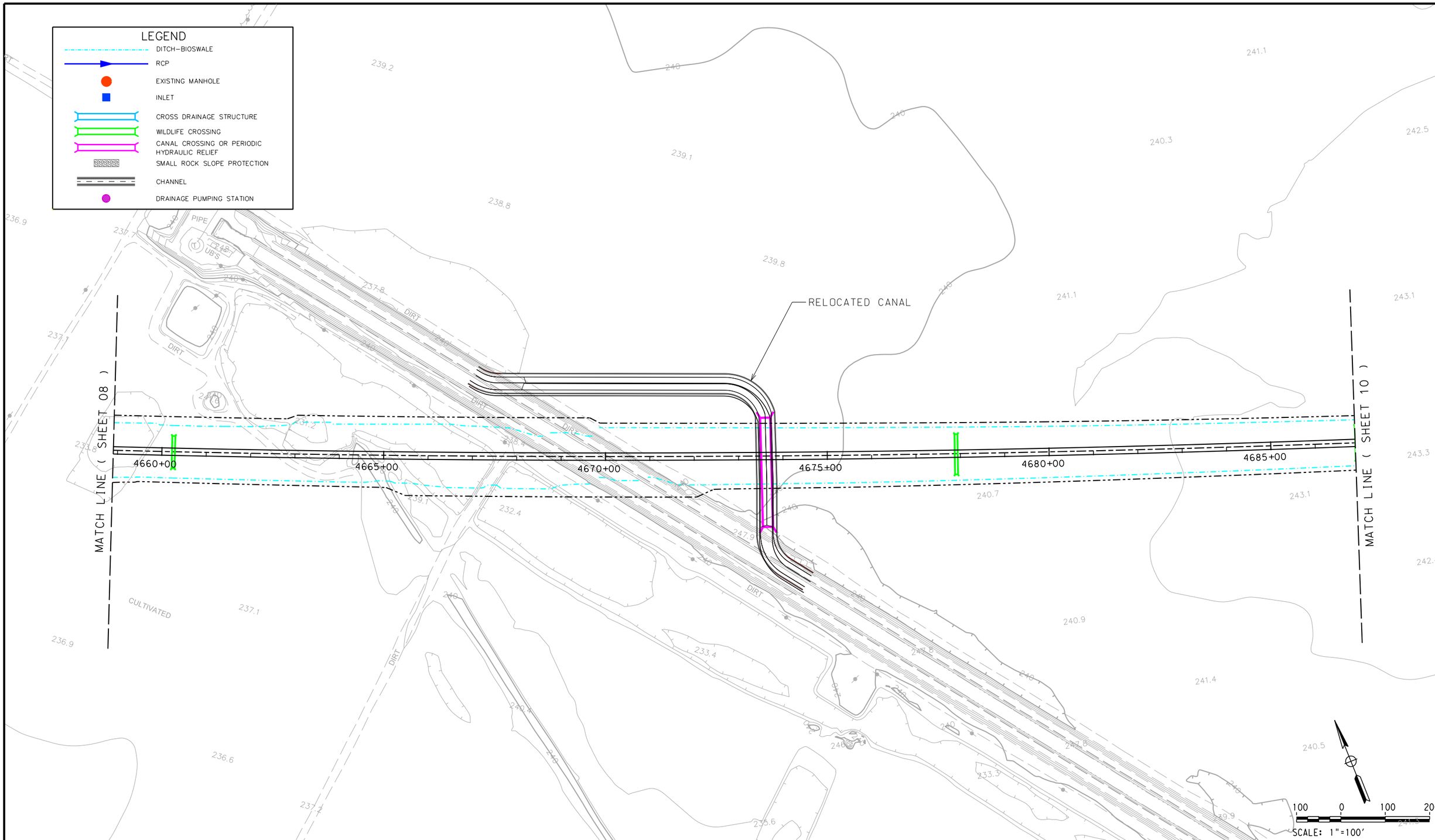
CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
ALLENSWORTH BYPASS SUBSECTION
ALIGNMENT A1
STA. 4631+00 TO 4659+00
DRAINAGE PLAN

CONTRACT NO.
DRAWING NO. 2.03.01_08
SCALE AS SHOWN
SHEET NO. 8 OF 40



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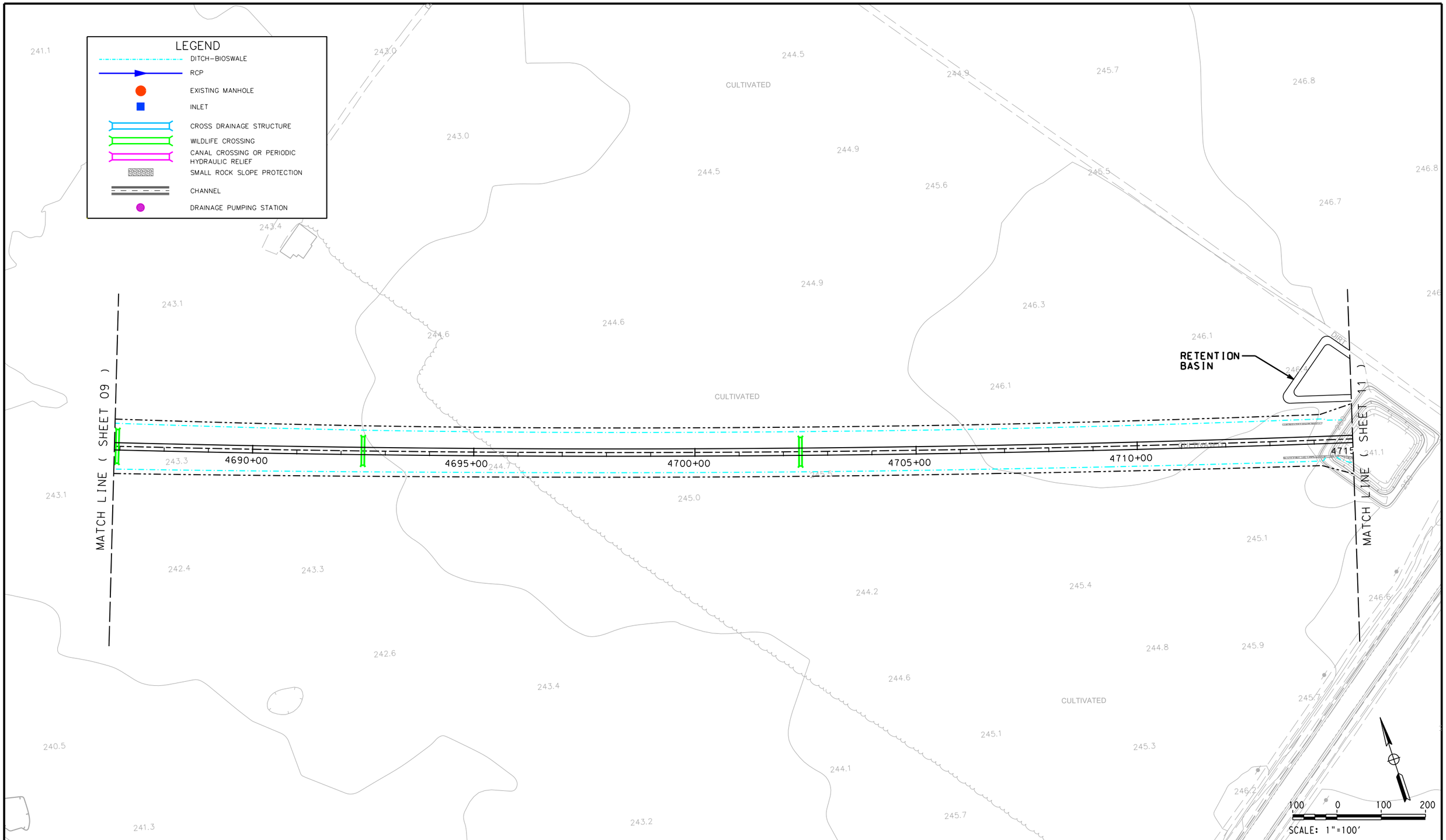
CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
ALLENSWORTH BYPASS SUBSECTION
ALIGNMENT A1
STA. 4659+00 TO 4687+00
DRAINAGE PLAN

CONTRACT NO.
DRAWING NO. 2.03.01_09
SCALE AS SHOWN
SHEET NO. 9 OF 40



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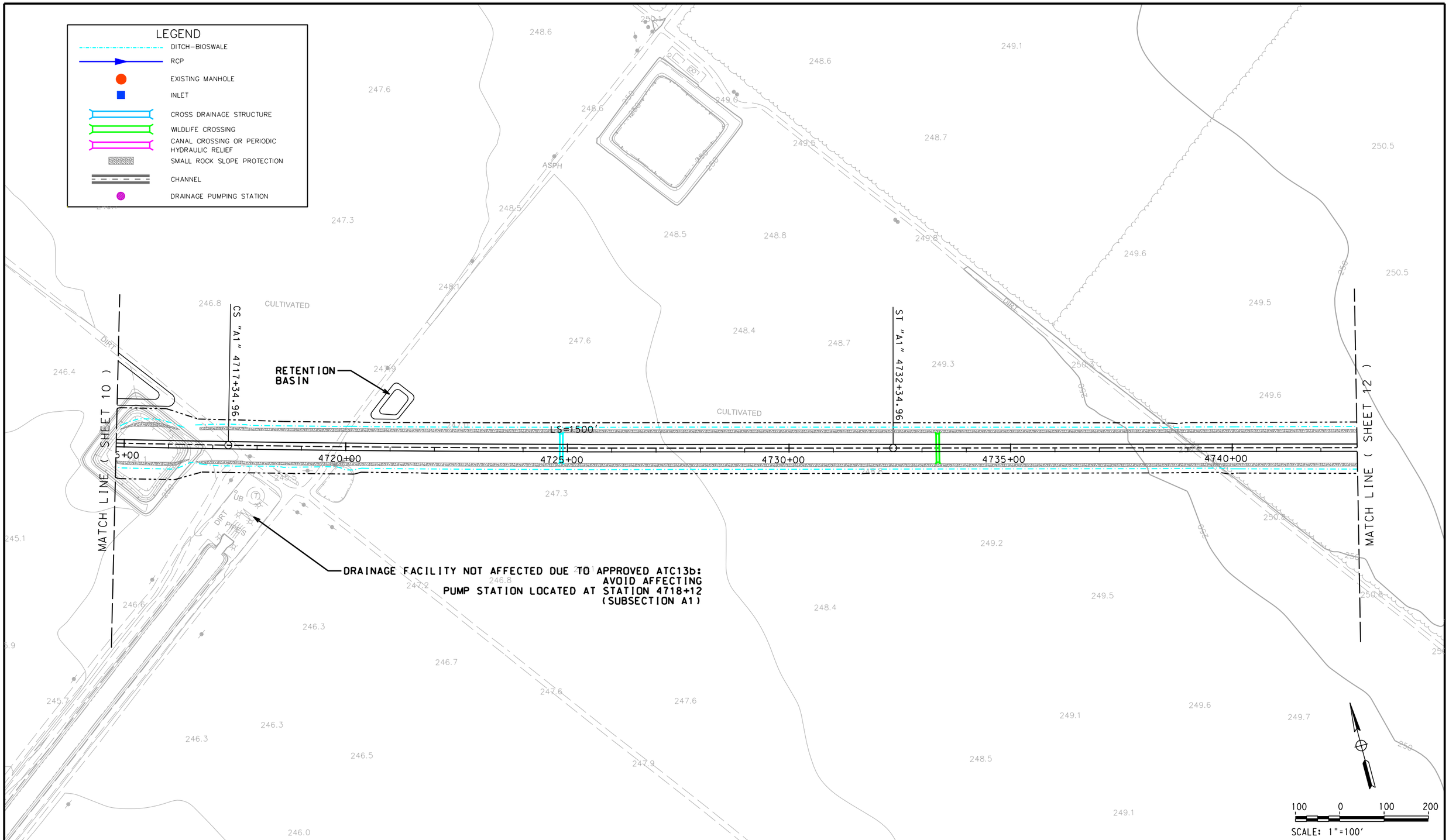
CALIFORNIA RAIL BUILDERS

CALIFORNIA HIGH-SPEED TRAIN PROJECT FRESNO TO BAKERSFIELD

ALLENSWORTH BYPASS SUBSECTION
ALIGNMENT A1
STA. 4687+00 TO 4715+00
DRAINAGE PLAN

CONTRACT NO.
DRAWING NO. 2.03.01_10
SCALE AS SHOWN
SHEET NO. 10 OF 40



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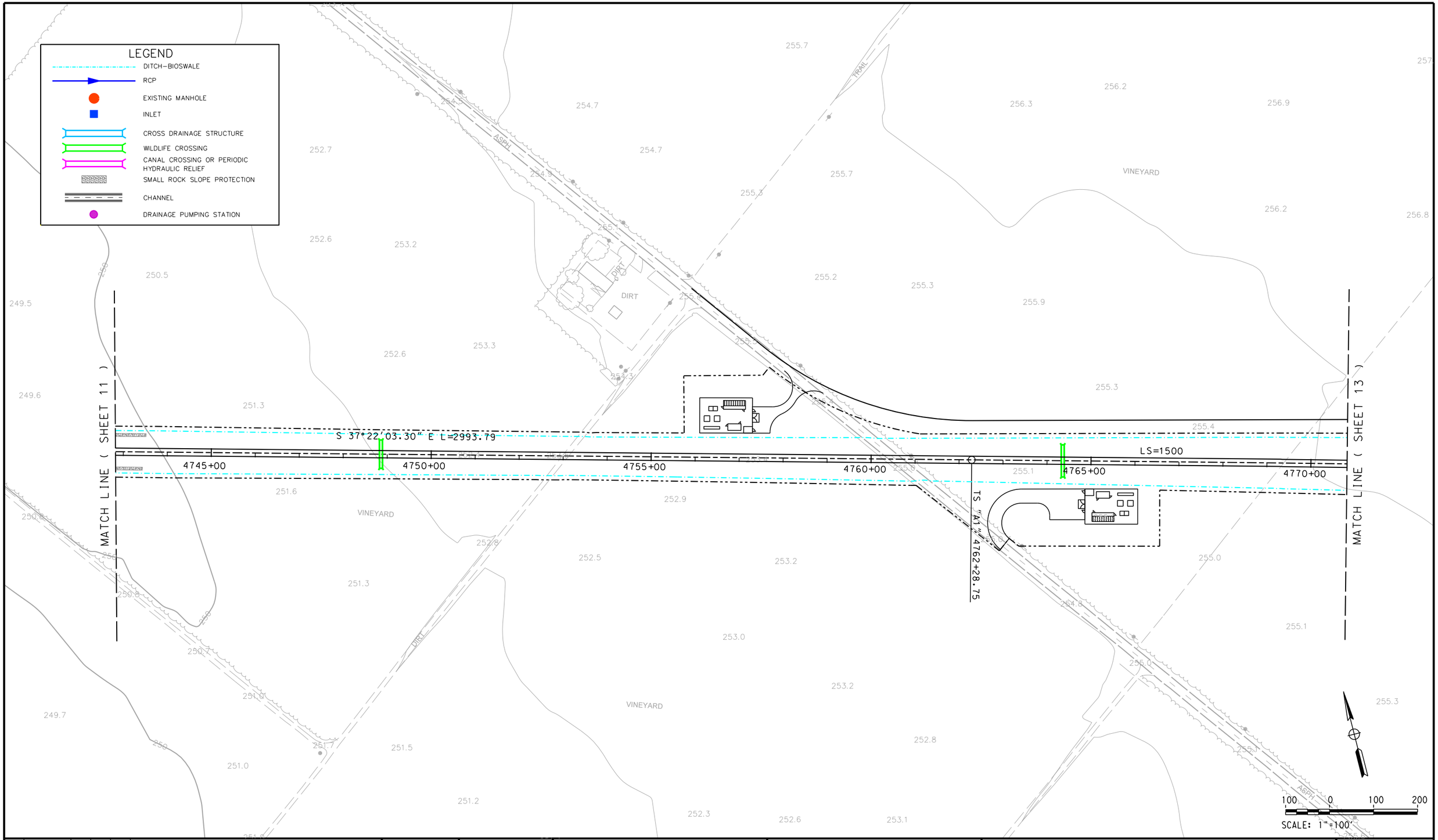
CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
ALLENSWORTH BYPASS SUBSECTION
ALIGNMENT A1
STA. 4715+00 TO 4743+00
DRAINAGE PLAN

CONTRACT NO.
DRAWING NO. 2.03.01_11
SCALE AS SHOWN
SHEET NO. 11 OF 40



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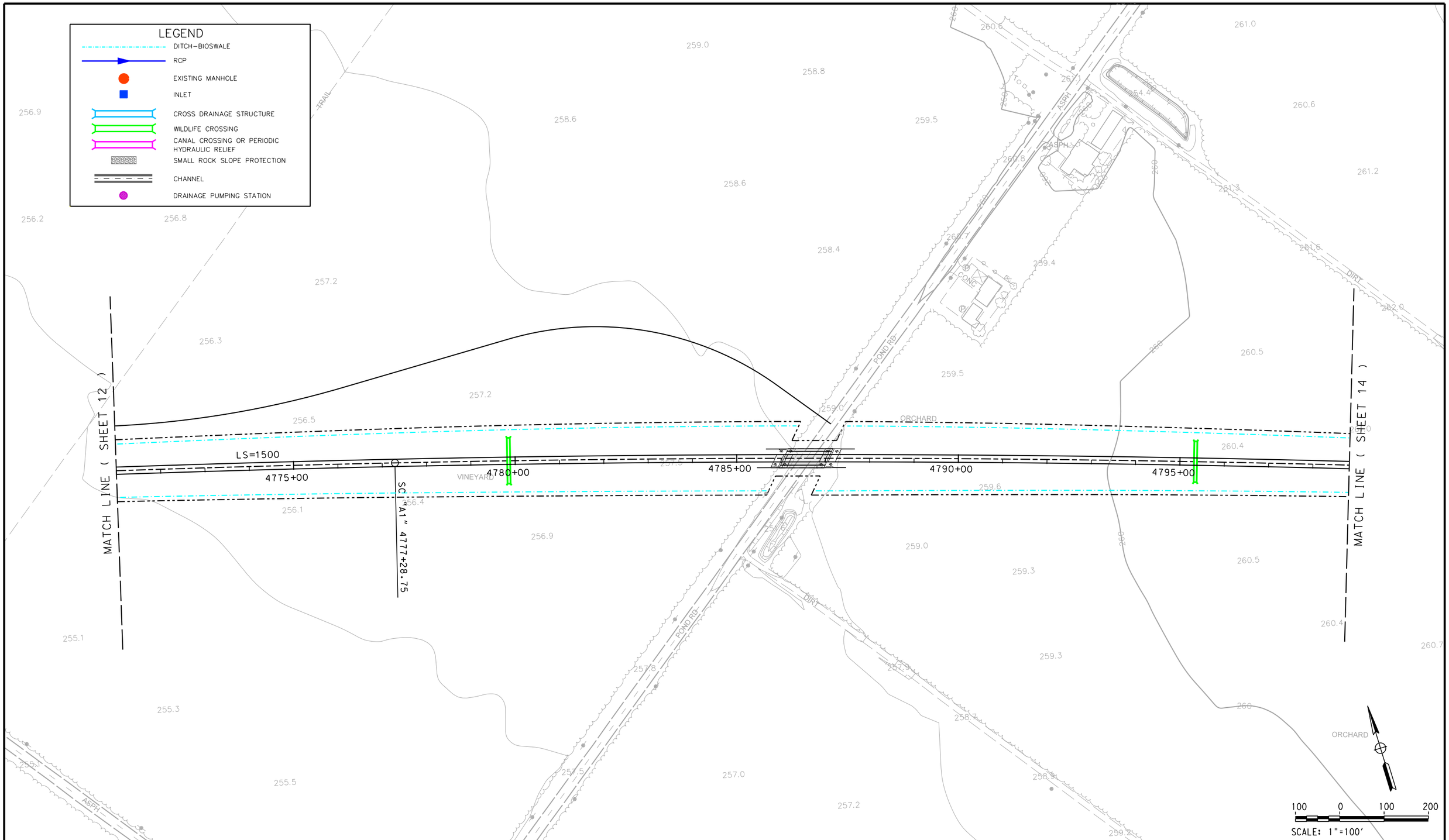
CALIFORNIA RAIL BUILDERS

CALIFORNIA HIGH-SPEED TRAIN PROJECT FRESNO TO BAKERSFIELD

ALLENSWORTH BYPASS SUBSECTION
ALIGNMENT A1
STA. 4743+00 TO 4771+00
DRAINAGE PLAN

CONTRACT NO.
DRAWING NO. 2.03.01_12
SCALE AS SHOWN
SHEET NO. 12 OF 40



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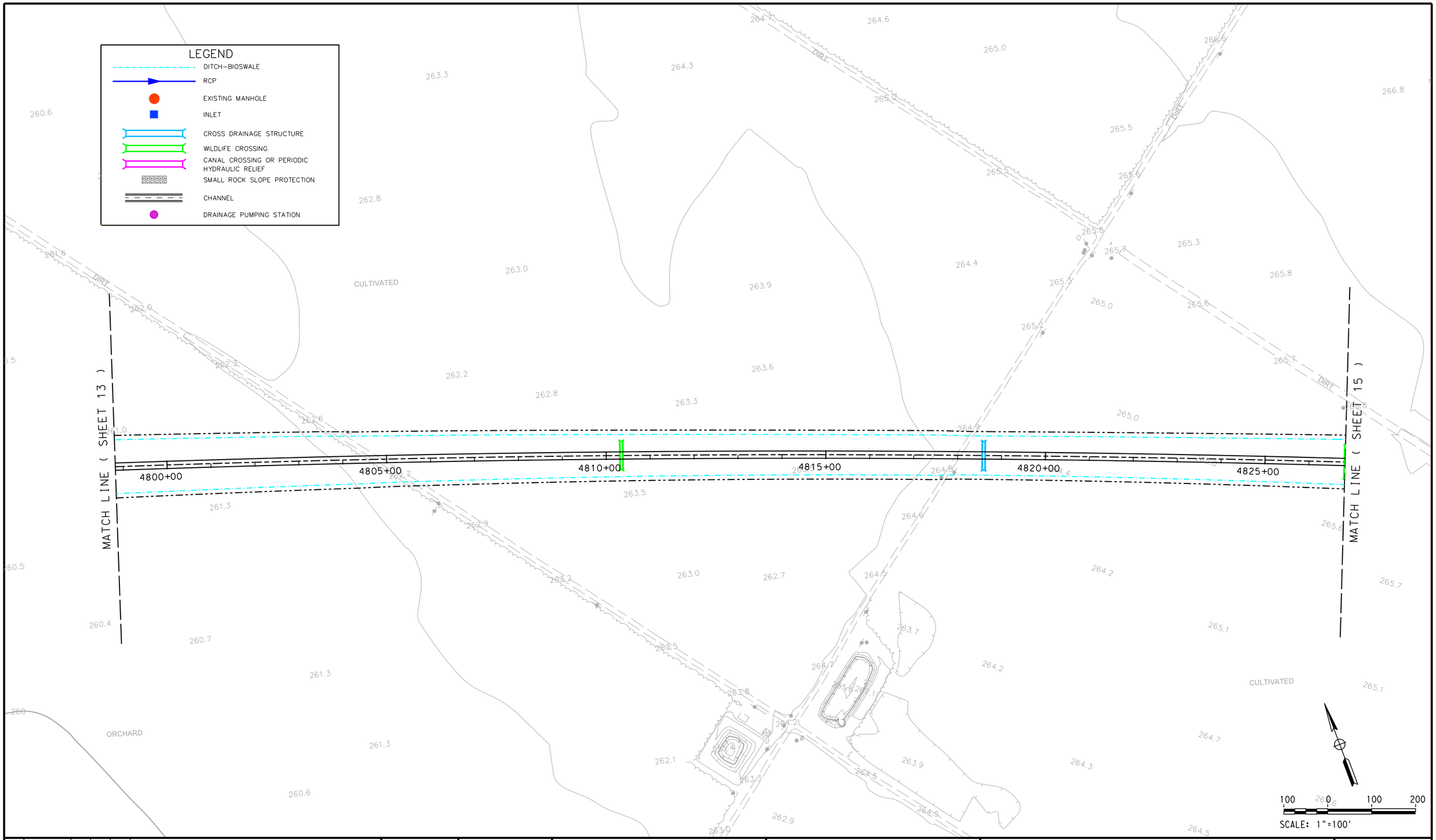
FRESNO TO BAKERSFIELD
ALLENSWORTH BYPASS SUBSECTION
ALIGNMENT A1
STA. 4771+00 TO 4799+00
DRAINAGE PLAN

CONTRACT NO.
DRAWING NO. 2.03.01_13
SCALE AS SHOWN
SHEET NO. 13 OF 40



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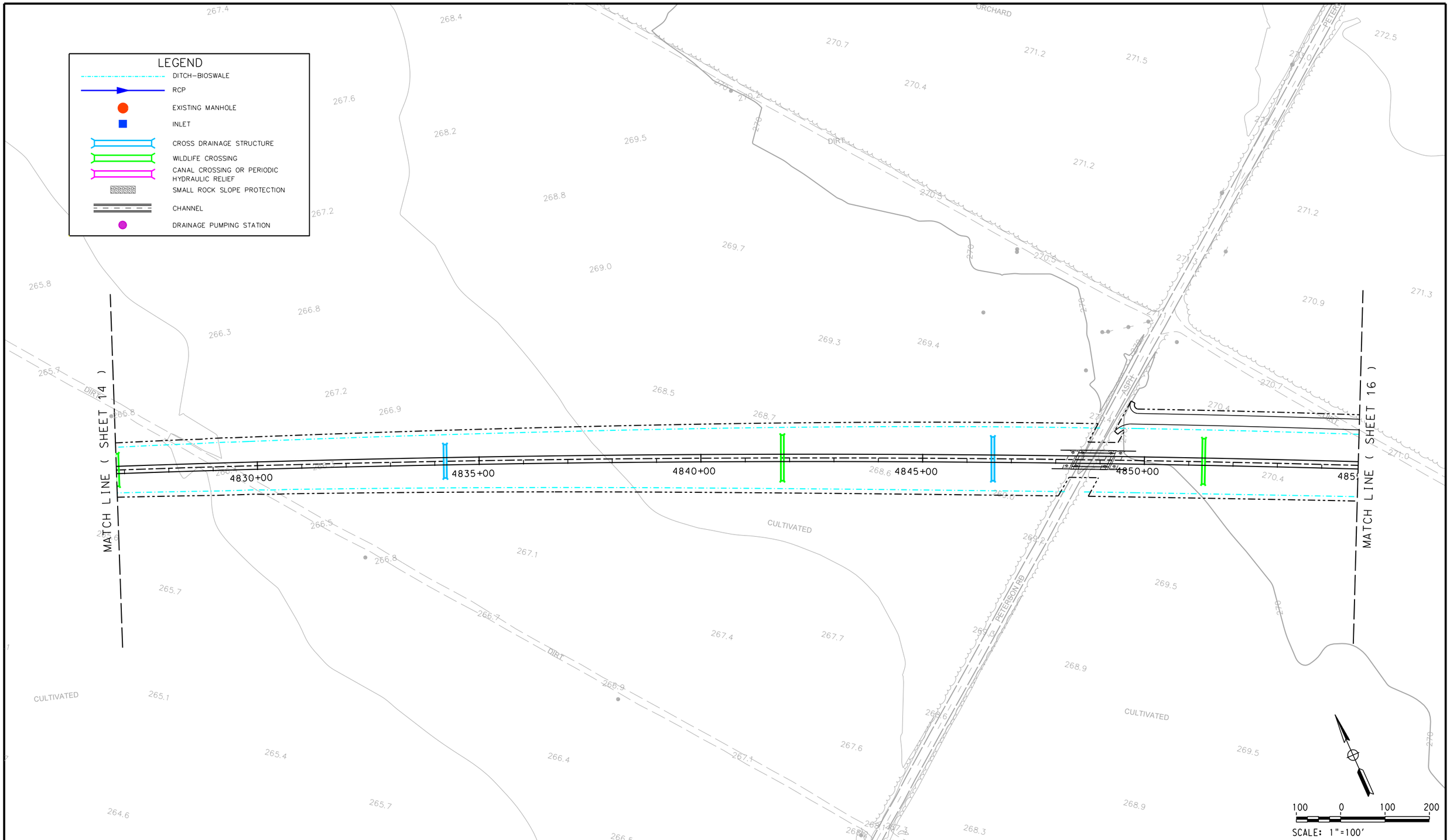
ALLENSWORTH BYPASS SUBSECTION
ALIGNMENT A1
STA. 4799+00 TO 4827+00
DRAINAGE PLAN

CONTRACT NO.
DRAWING NO. 2.03.01_14
SCALE AS SHOWN
SHEET NO. 14 OF 40



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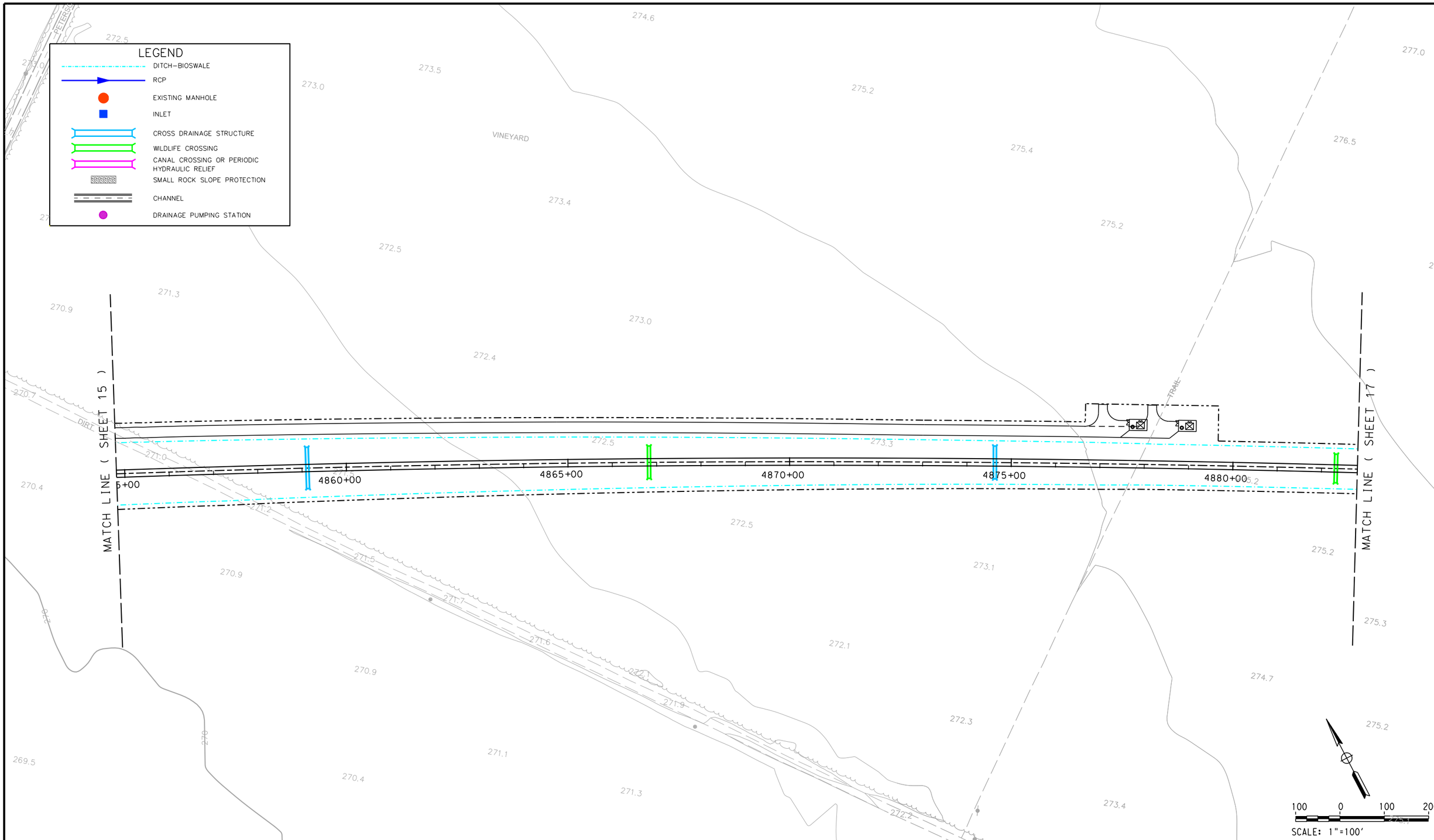
FRESNO TO BAKERSFIELD
ALLENSWORTH BYPASS SUBSECTION
ALIGNMENT A1
STA. 4827+00 TO 4855+00
DRAINAGE PLAN

CONTRACT NO.
DRAWING NO. 2.03.01_15
SCALE AS SHOWN
SHEET NO. 15 OF 40



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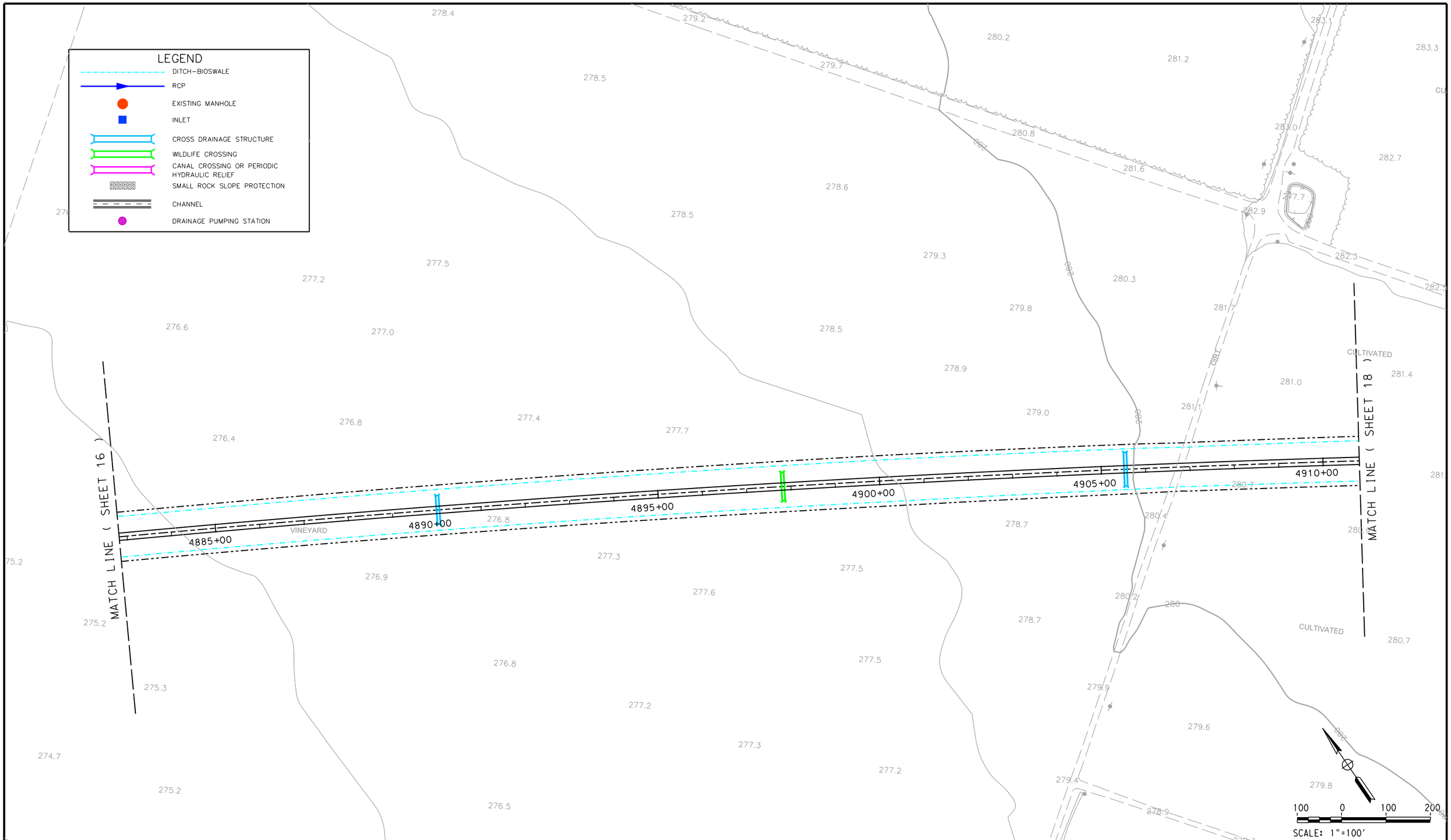
ALLENSWORTH BYPASS SUBSECTION
ALIGNMENT A1
STA. 4855+00 TO 4883+00
DRAINAGE PLAN

CONTRACT NO.
DRAWING NO. 2.03.01_16
SCALE AS SHOWN
SHEET NO. 16 OF 40



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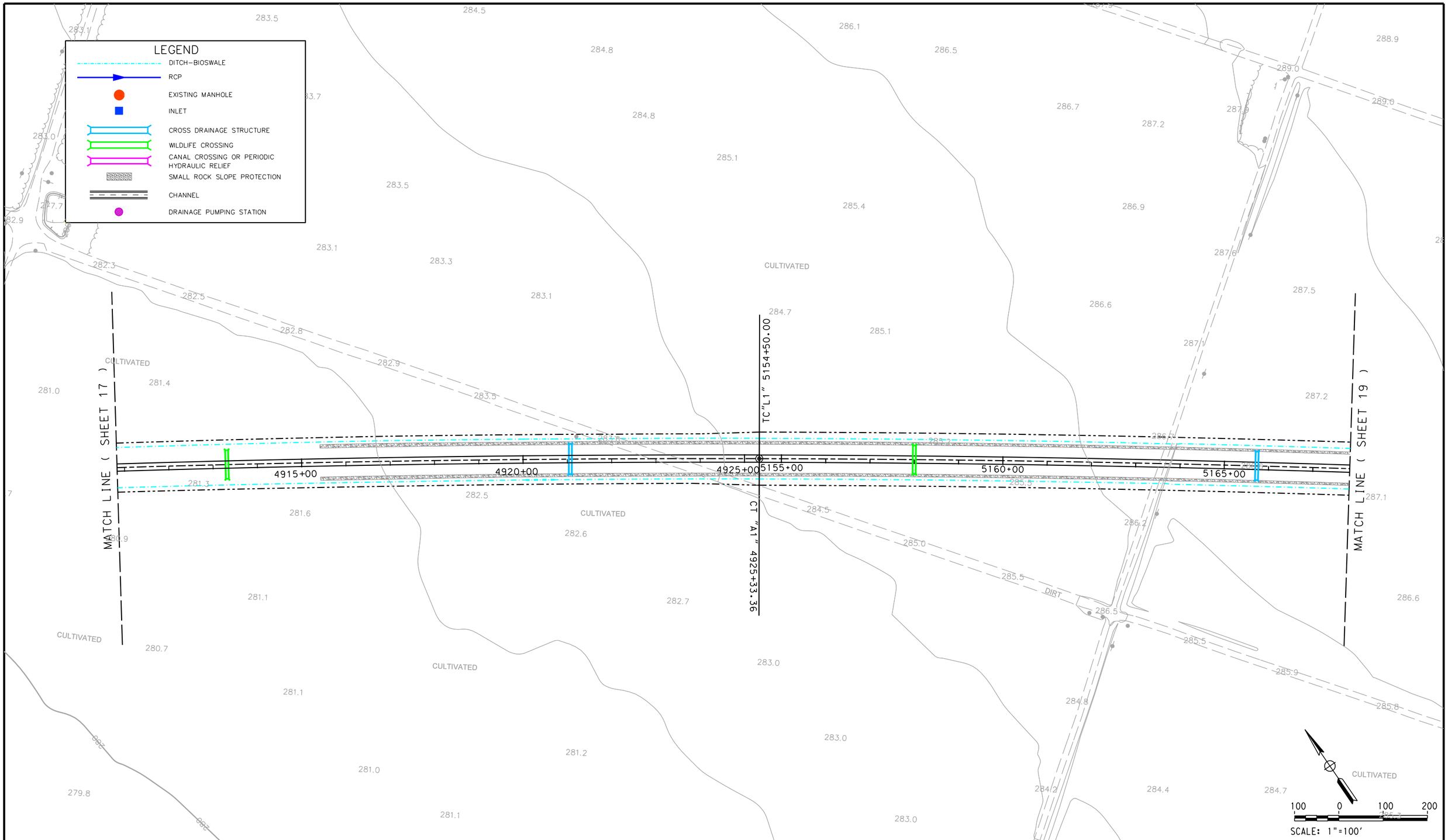
FRESNO TO BAKERSFIELD
ALLENSWORTH BYPASS SUBSECTION
ALIGNMENT A1
STA. 4883+00 TO 4911+00
DRAINAGE PLAN

CONTRACT NO.
DRAWING NO. 2.03.01_17
SCALE AS SHOWN
SHEET NO. 17 OF 40



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DATE

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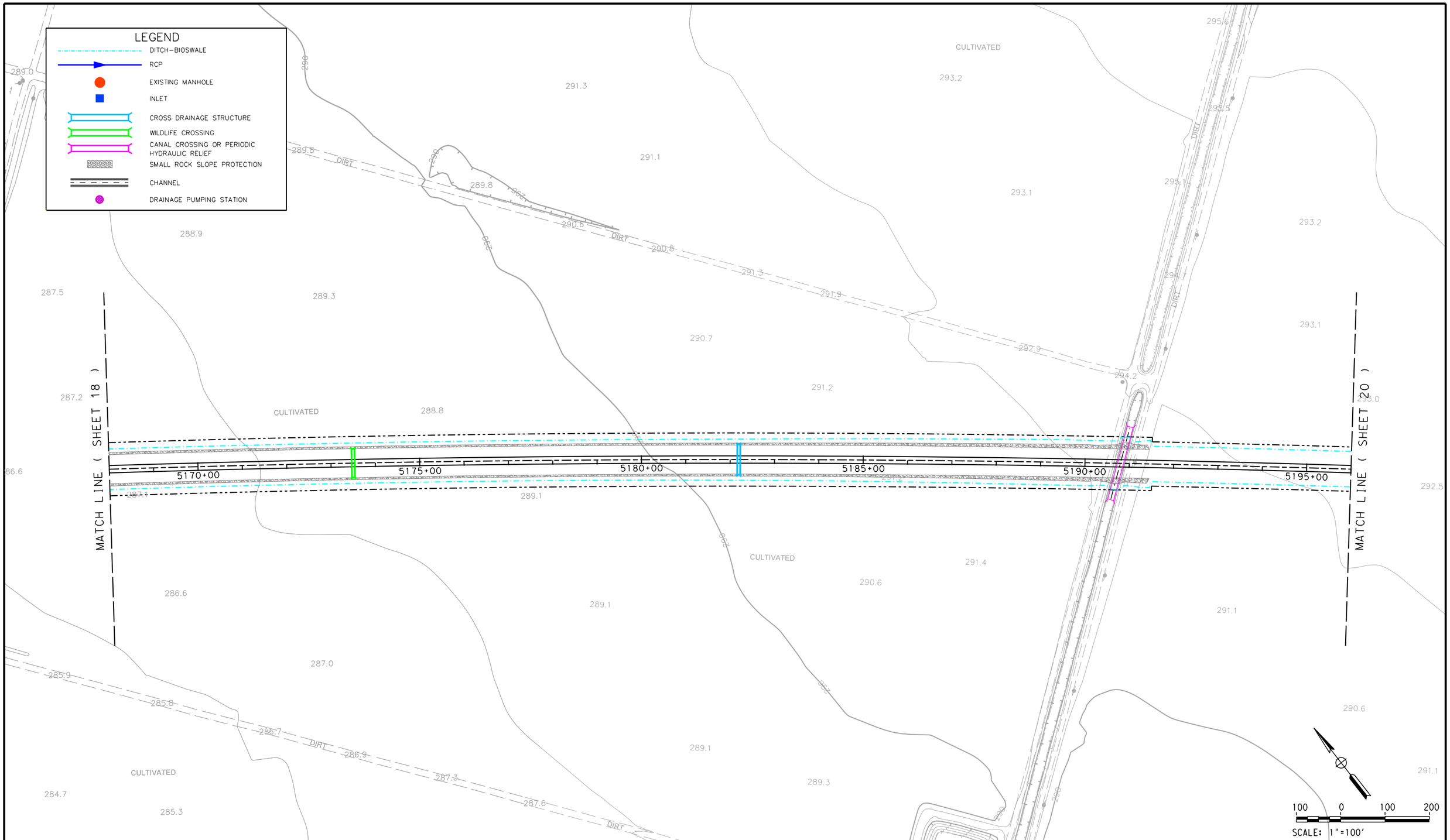
CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA RAIL BUILDERS

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
ALLENSWORTH BYPASS SUBSECTION
ALIGNMENT A1
STA. 4911+00 TO 5168+00
DRAINAGE PLAN

CONTRACT NO.
DRAWING NO. 2.03.01_18
SCALE AS SHOWN
SHEET NO. 18 OF 40



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
DRAWN BY
CHECKED BY
IN CHARGE
DATE

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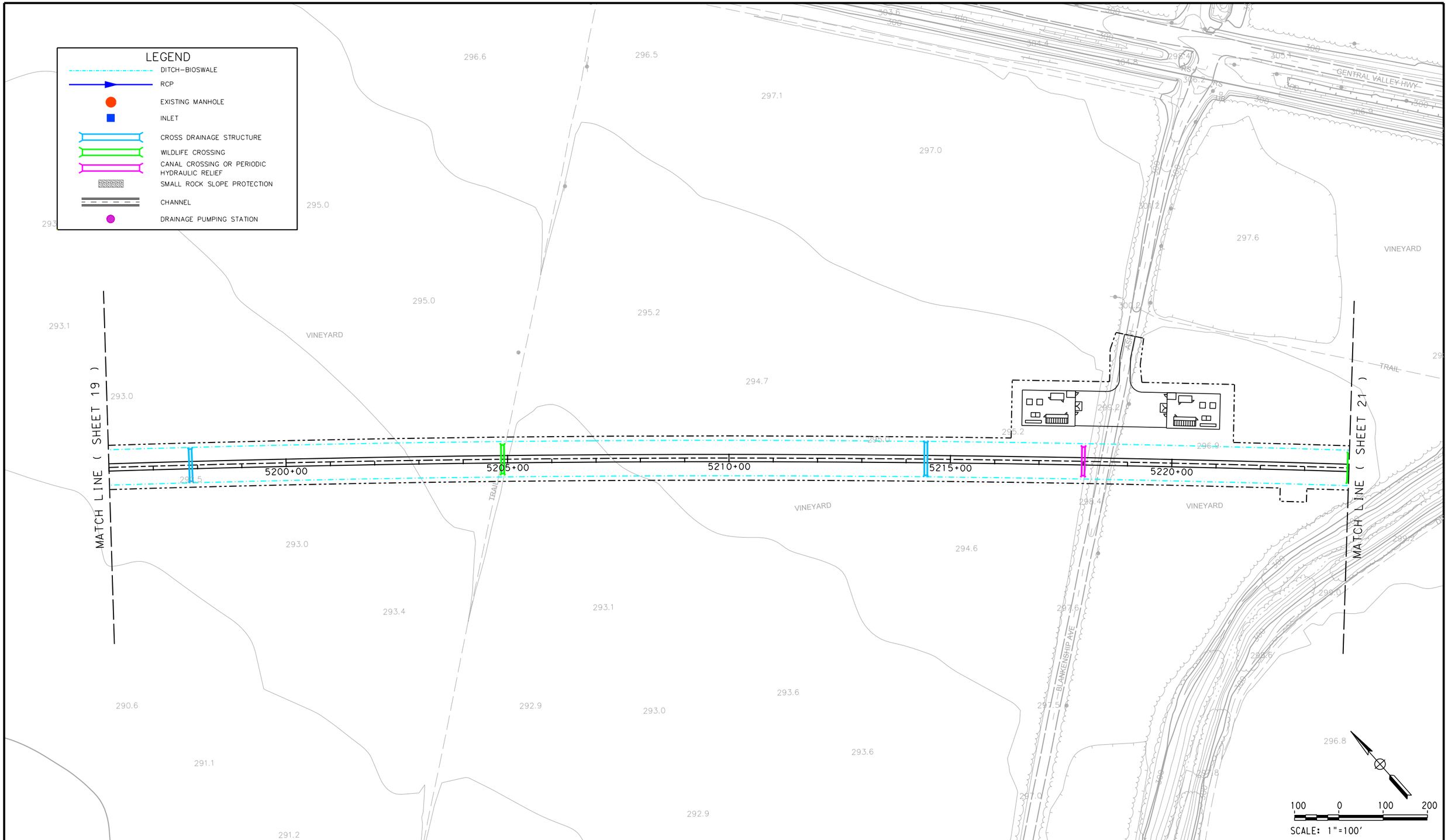
CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA RAIL BUILDERS

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
POSO CREEK SUBSECTION
ALIGNMENT L1
STA. 5168+00 TO 5196+00
DRAINAGE PLAN

CONTRACT NO.
DRAWING NO. 2.03.01_19
SCALE AS SHOWN
SHEET NO. 19 OF 40



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
DRAWN BY
CHECKED BY
IN CHARGE
DATE

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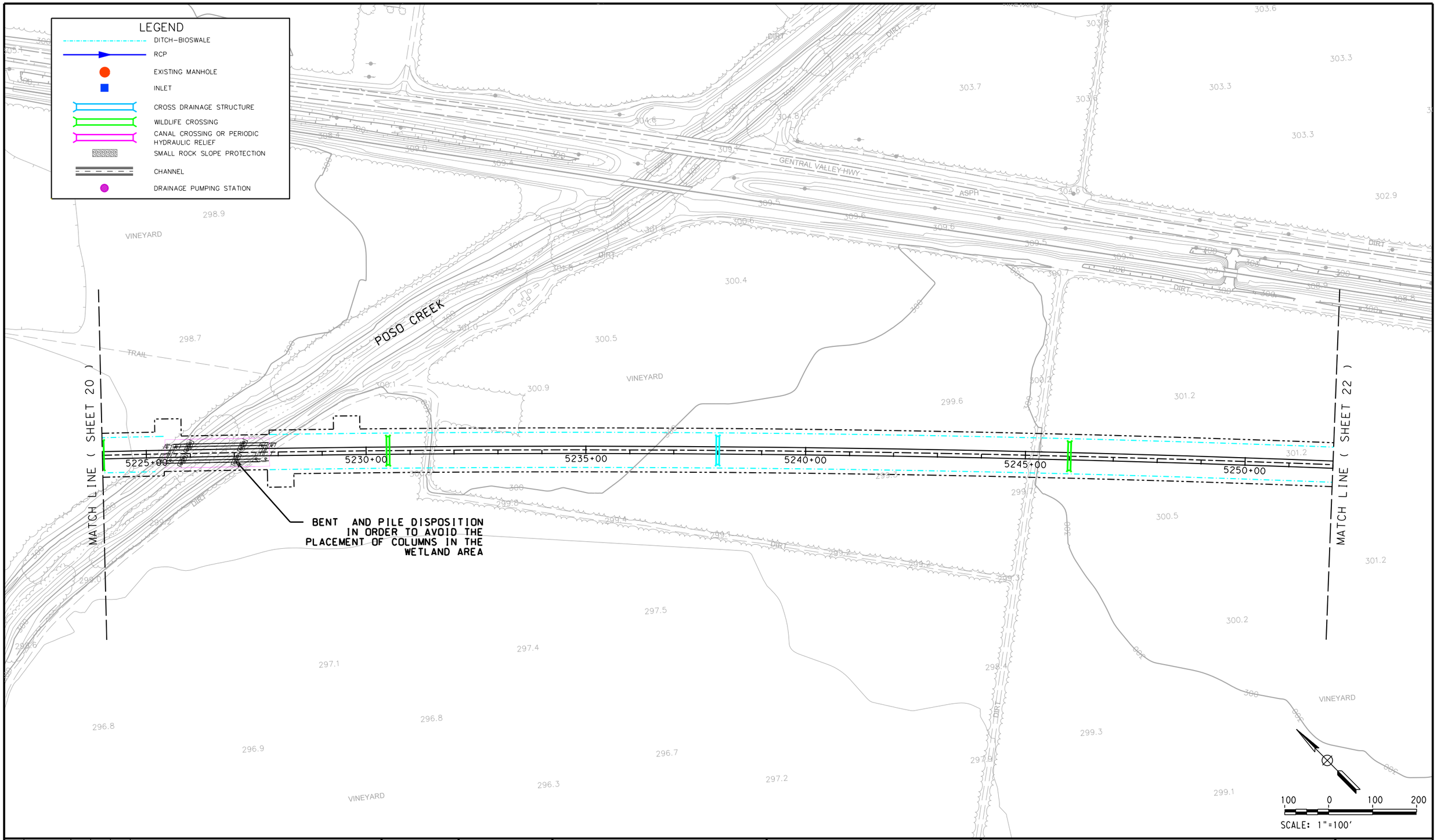
CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA RAIL BUILDERS

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
POSO CREEK SUBSECTION
ALIGNMENT L1
STA. 5196+00 TO 5224+00
DRAINAGE PLAN

CONTRACT NO.
DRAWING NO. 2.03.01_20
SCALE AS SHOWN
SHEET NO. 20 OF 40



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
DRAWN BY
CHECKED BY
IN CHARGE
DATE

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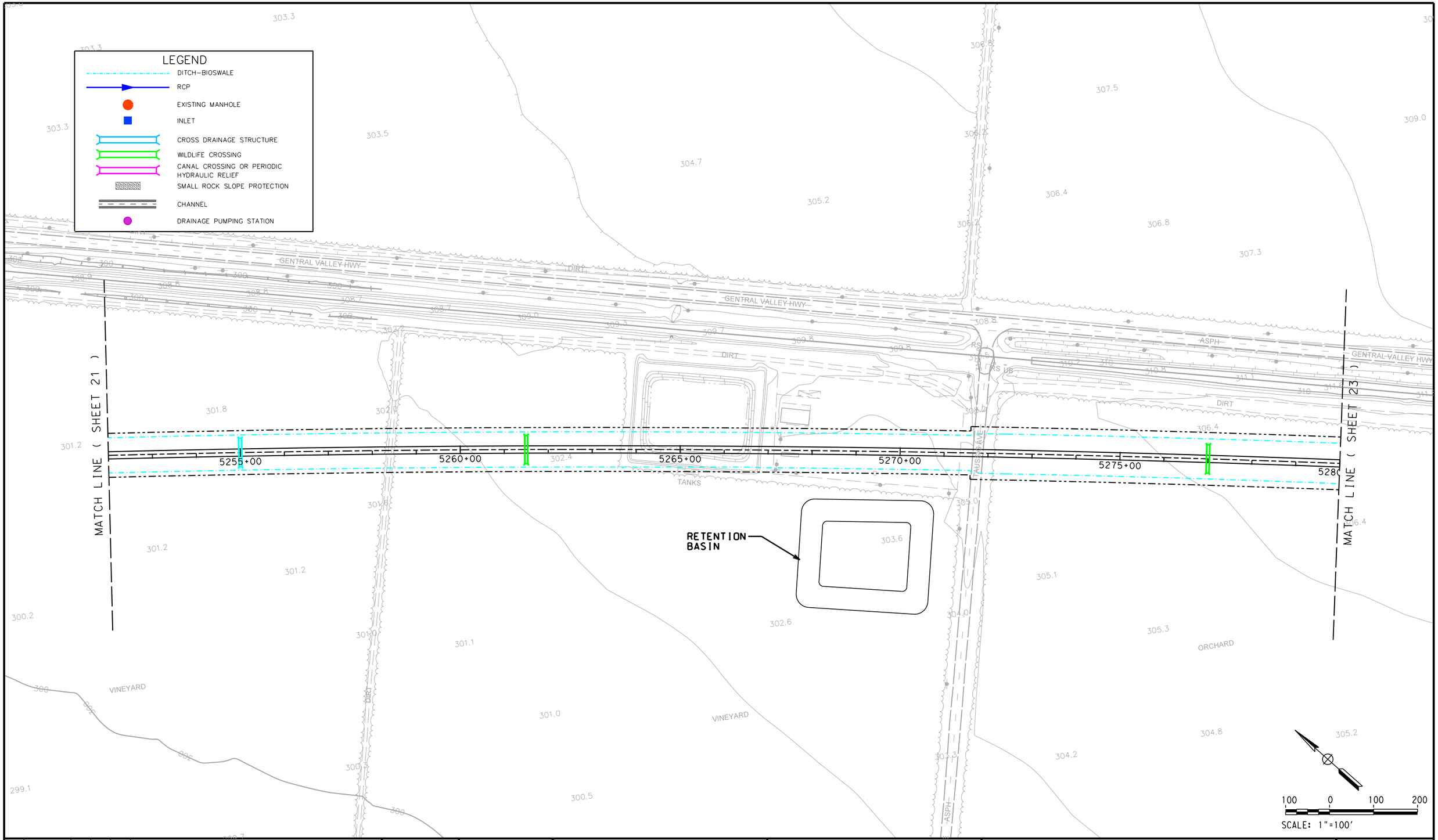
CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA RAIL BUILDERS

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
POSO CREEK SUBSECTION
ALIGNMENT L1
STA. 5224+00 TO 5252+00
DRAINAGE PLAN

CONTRACT NO.
DRAWING NO. 2.03.01_21
SCALE AS SHOWN
SHEET NO. 21 OF 40



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY K. SEYMOUR
DRAWN BY P. TONKIN
CHECKED BY S. BURGES
IN CHARGE R. COFFIN
DATE 08/08/14

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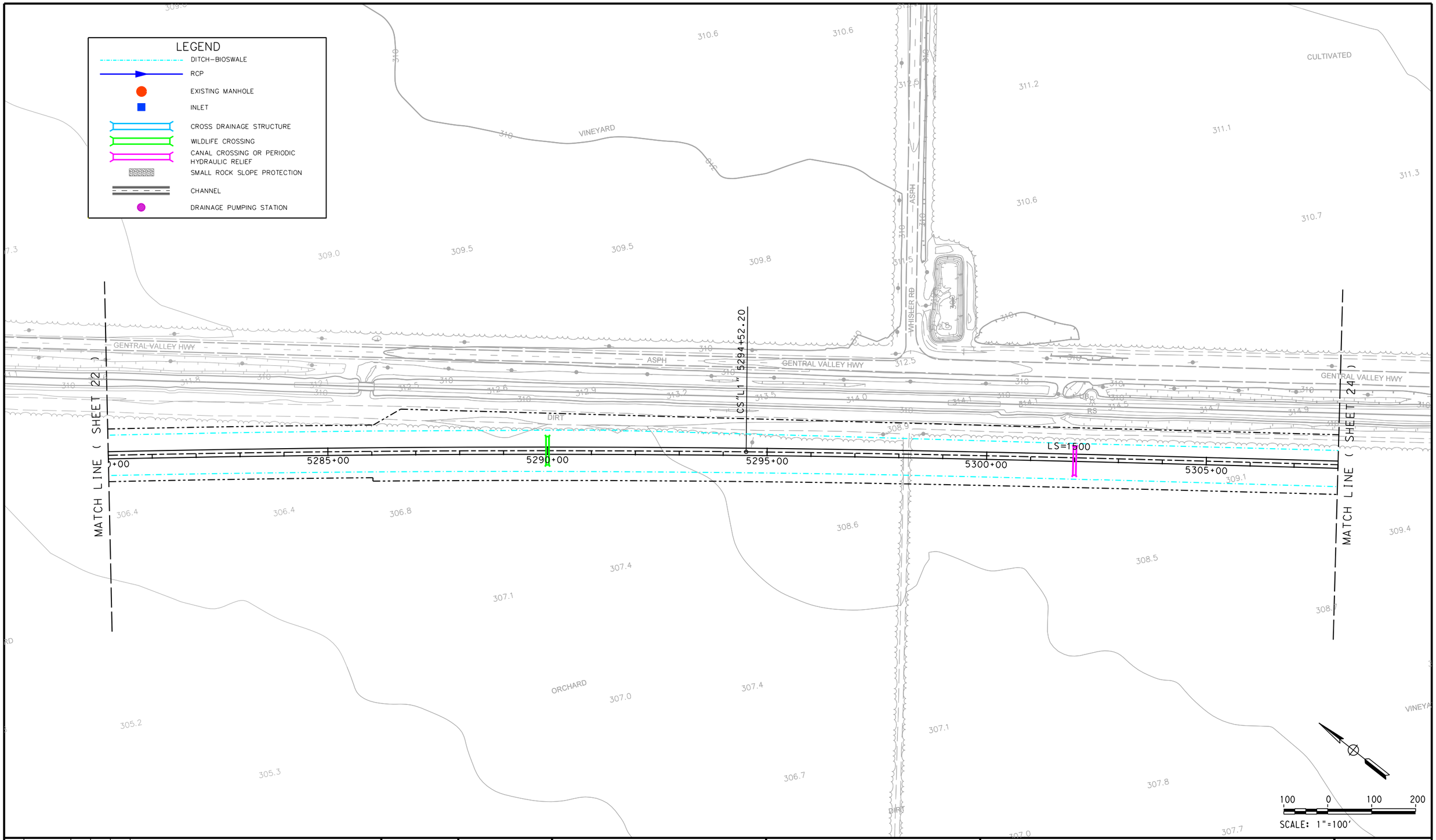
CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA RAIL BUILDERS

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
POSO CREEK SUBSECTION
ALIGNMENT L1
STA. 5252+00 TO 5280+00
DRAINAGE PLAN

CONTRACT NO. HSR 06-0003
DRAWING NO. 2.03.01_22
SCALE AS SHOWN
SHEET NO. 22 OF 40



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
DRAWN BY
CHECKED BY
IN CHARGE
DATE

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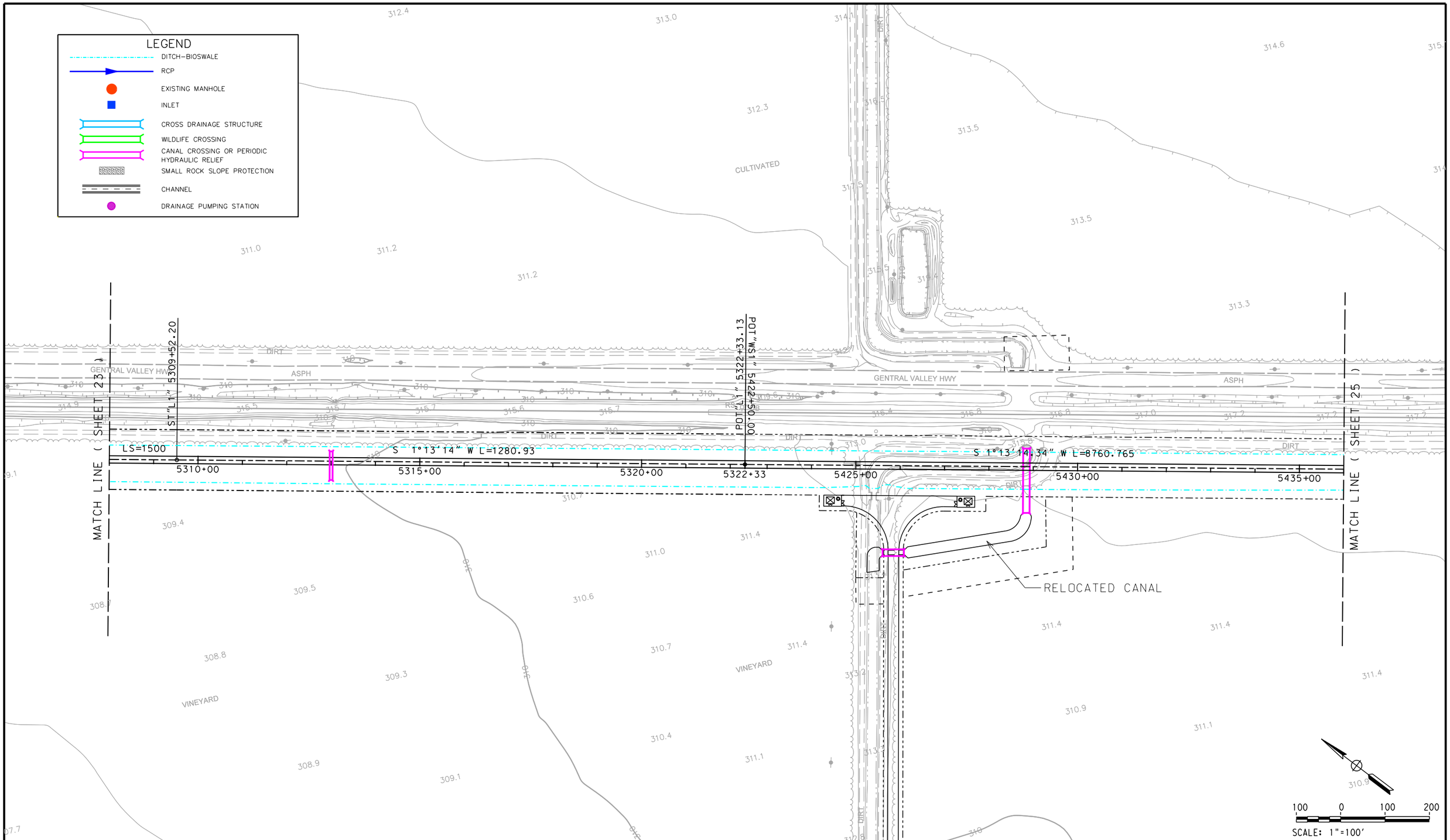
CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA RAIL BUILDERS

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
POSO CREEK SUBSECTION
ALIGNMENT L1
STA. 5280+00 TO 5308+00
DRAINAGE PLAN

CONTRACT NO.
DRAWING NO. 2.03.01_23
SCALE AS SHOWN
SHEET NO. 23 OF 40



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DESIGNED BY
DRAWN BY
CHECKED BY
IN CHARGE
DATE

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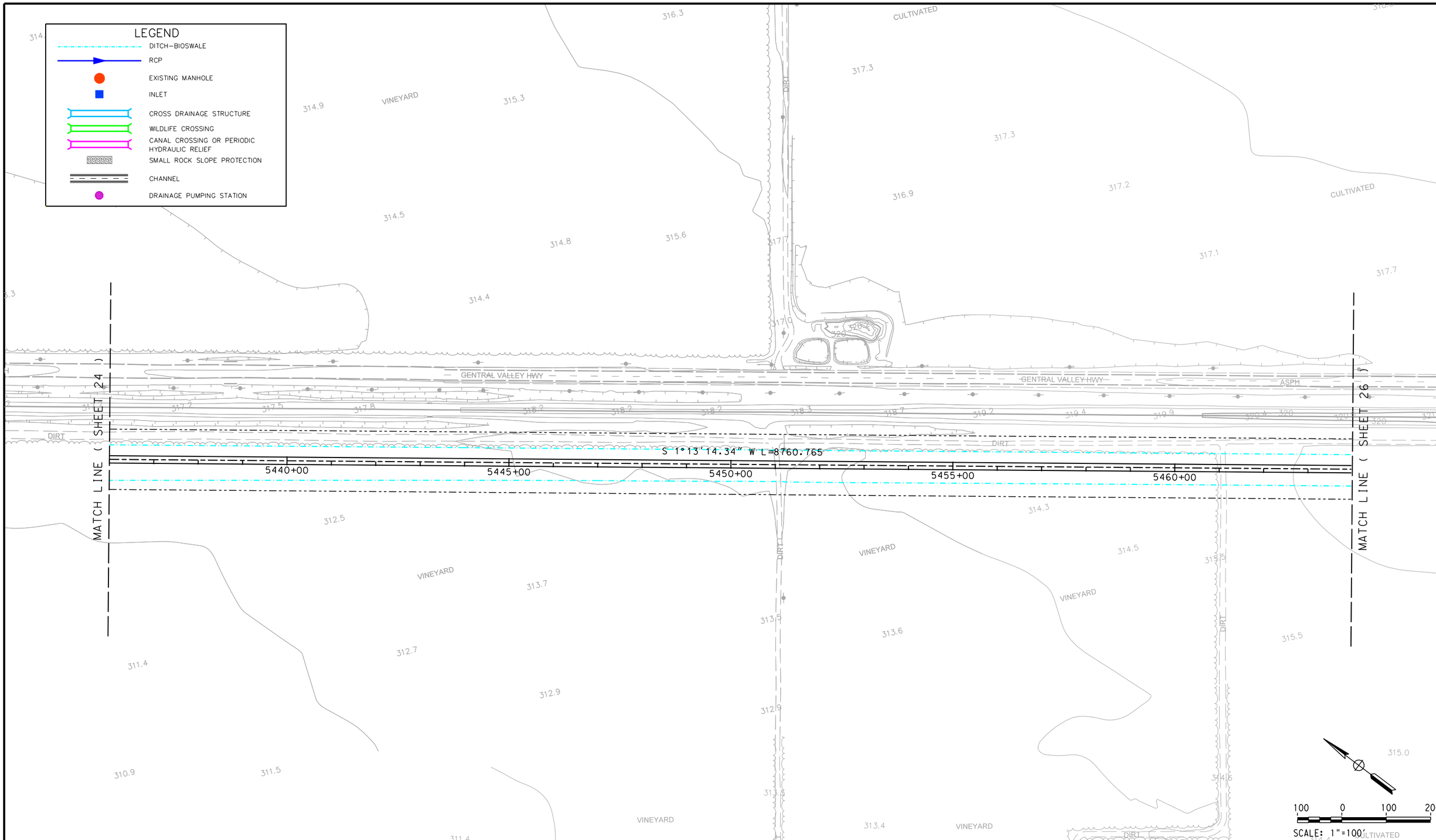
CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA RAIL BUILDERS

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
POSO CREEK SUBSECTION
ALIGNMENT L1
STA. 5308+00 TO 5436+00
DRAINAGE PLAN

CONTRACT NO.
DRAWING NO. 2.03.01_24
SCALE AS SHOWN
SHEET NO. 24 OF 40



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DESIGNED BY
DRAWN BY
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DATE

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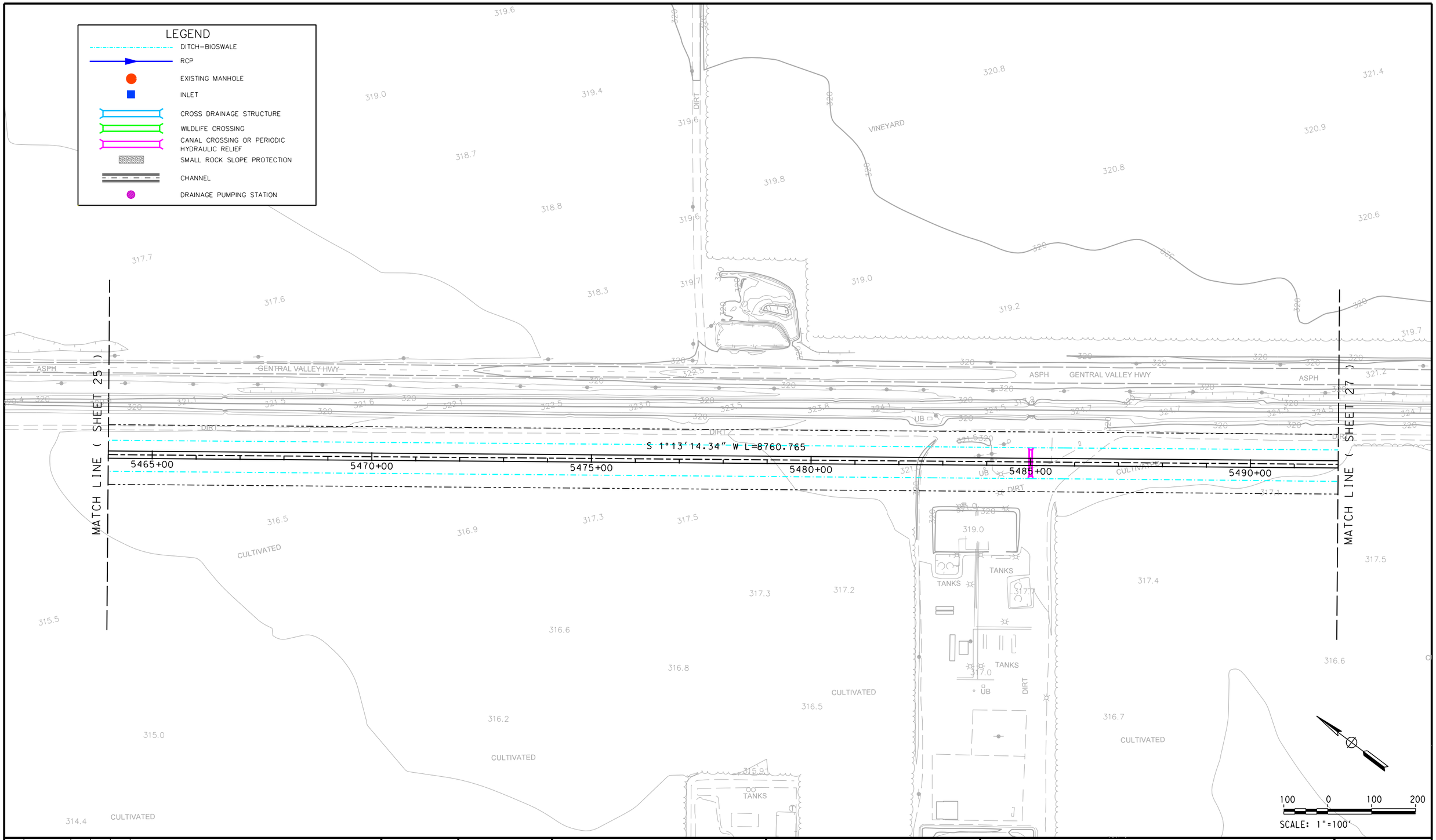
CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA RAIL BUILDERS

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
THROUGH WASCO SUBSECTION
ALIGNMENT WS1
STA. 5436+00 TO 5464+00
DRAINAGE PLAN

CONTRACT NO.
DRAWING NO. 2.03.01_25
SCALE AS SHOWN
SHEET NO. 25 OF 40



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IN CHARGE
DATE

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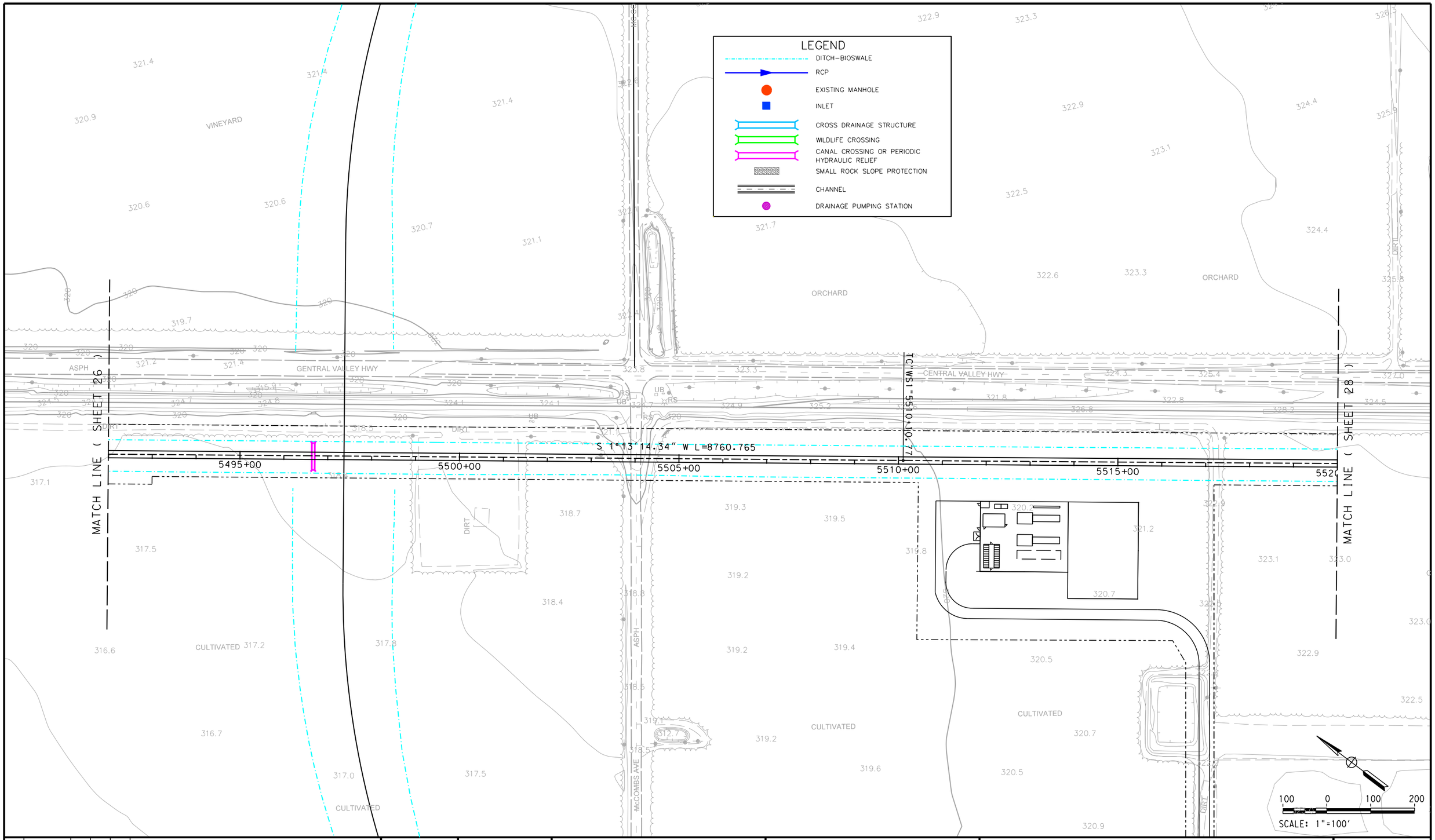
CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA RAIL BUILDERS

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
THROUGH WASCO SUBSECTION
ALIGNMENT WS1
STA. 5464+00 TO 5492+00
DRAINAGE PLAN

CONTRACT NO.
DRAWING NO. 2.03.01_26
SCALE AS SHOWN
SHEET NO. 26 OF 40



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
DRAWN BY
CHECKED BY
IN CHARGE
DATE

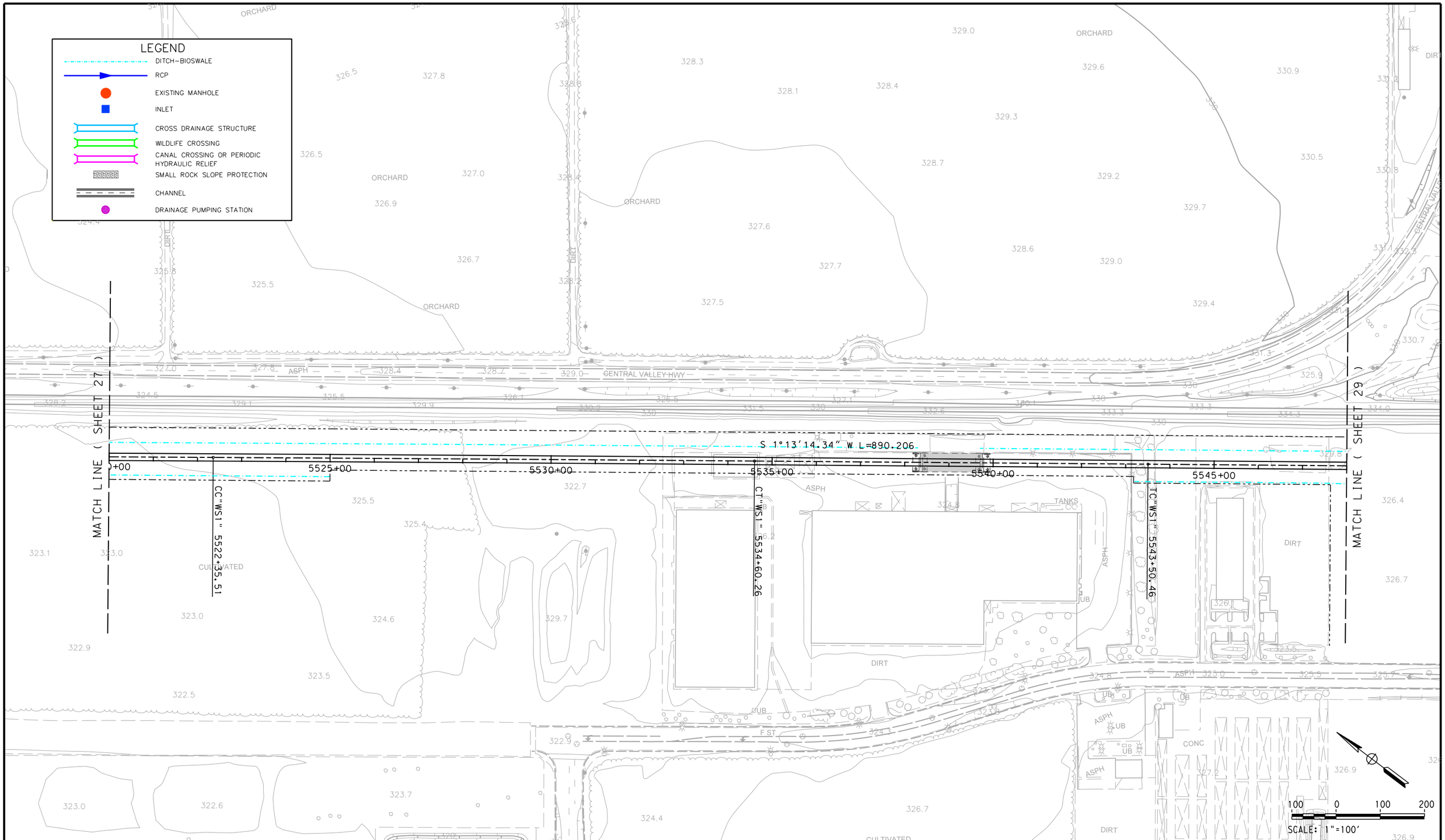
ONLY FOR BIDDING PURPOSES - NOT FOR CONSTRUCTION

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA RAIL BUILDERS

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
THROUGH WASCO SUBSECTION
ALIGNMENT WS1
STA. 5492+00 TO 5520+00
DRAINAGE PLAN

CONTRACT NO.
DRAWING NO. 2.03.01_27
SCALE AS SHOWN
SHEET NO. 27 OF 40



REV	DATE	BY	CHK	APP	DESCRIPTION

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DRAWN BY
CHECKED BY
IN CHARGE
DATE

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CALIFORNIA HIGH-SPEED RAIL AUTHORITY

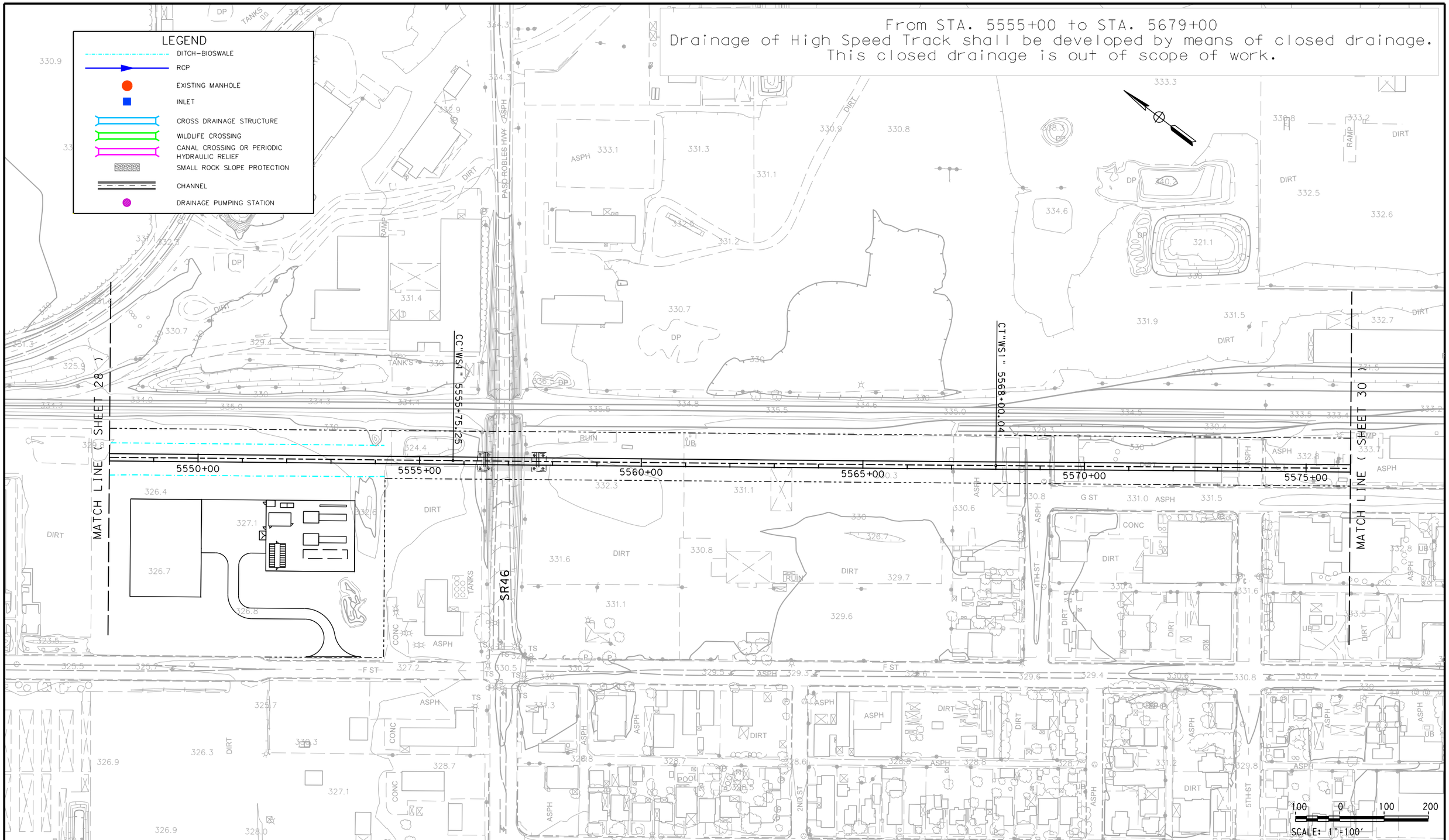
CALIFORNIA RAIL BUILDERS

CALIFORNIA HIGH-SPEED TRAIN PROJECT FRESNO TO BAKERSFIELD

THROUGH WASCO SUBSECTION
ALIGNMENT WS1
STA. 5520+00 TO 5548+00
DRAINAGE PLAN

CONTRACT NO.
DRAWING NO. 2.06.01_28
SCALE AS SHOWN
SHEET NO. 28 OF 40

From STA. 5555+00 to STA. 5679+00
Drainage of High Speed Track shall be developed by means of closed drainage.
This closed drainage is out of scope of work.



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
DRAWN BY
CHECKED BY
IN CHARGE
DATE

ONLY FOR BIDDING PURPOSES - NOT FOR CONSTRUCTION

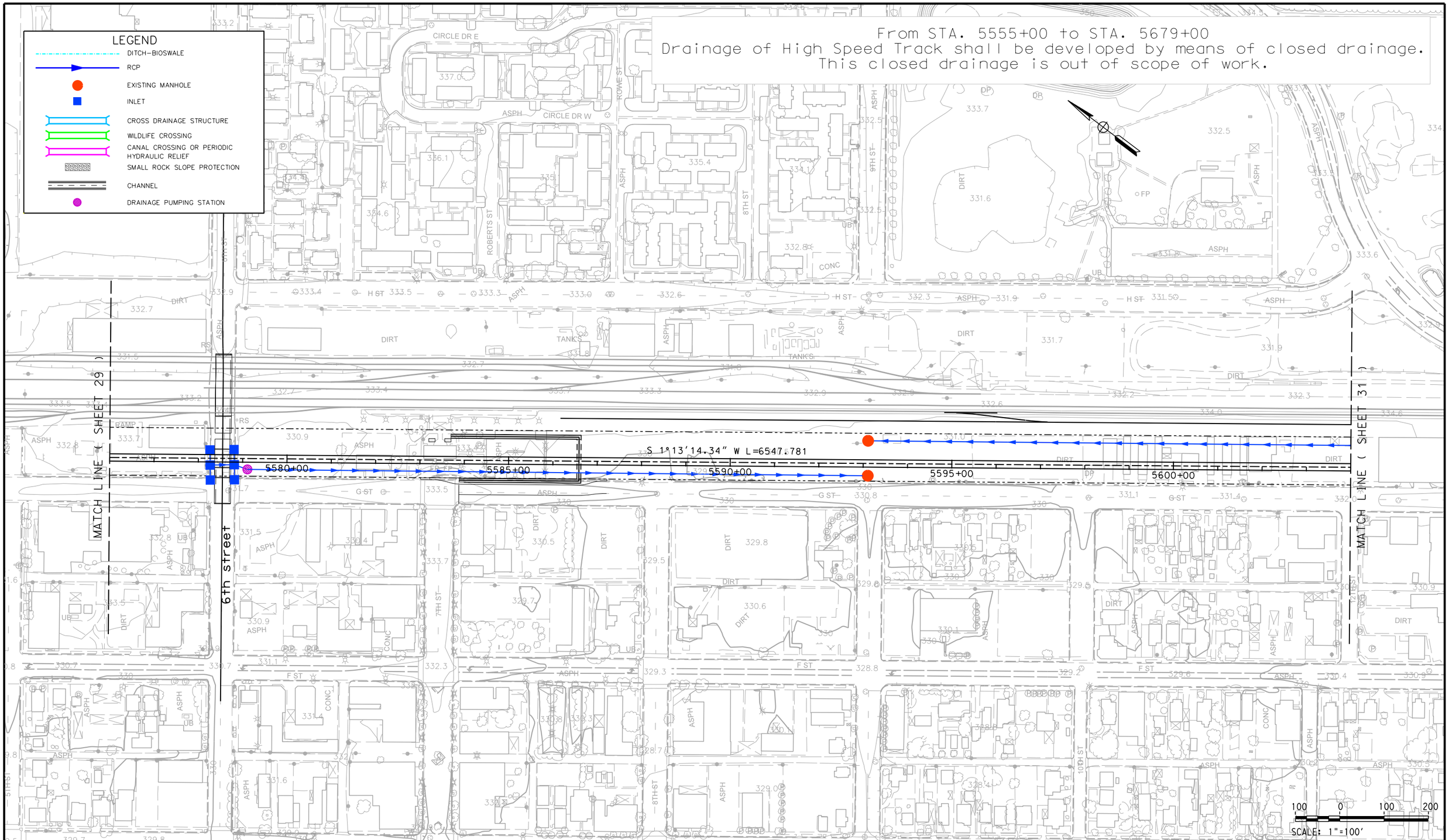
CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA RAIL BUILDERS

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
THROUGH WASCO SUBSECTION
ALIGNMENT WS1
STA. 5548+00 TO 5576+00
DRAINAGE PLAN

CONTRACT NO.
DRAWING NO. 2.03.01_29
SCALE AS SHOWN
SHEET NO. 29 OF 40

From STA. 5555+00 to STA. 5679+00
Drainage of High Speed Track shall be developed by means of closed drainage.
This closed drainage is out of scope of work.



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
DRAWN BY
CHECKED BY
IN CHARGE
DATE

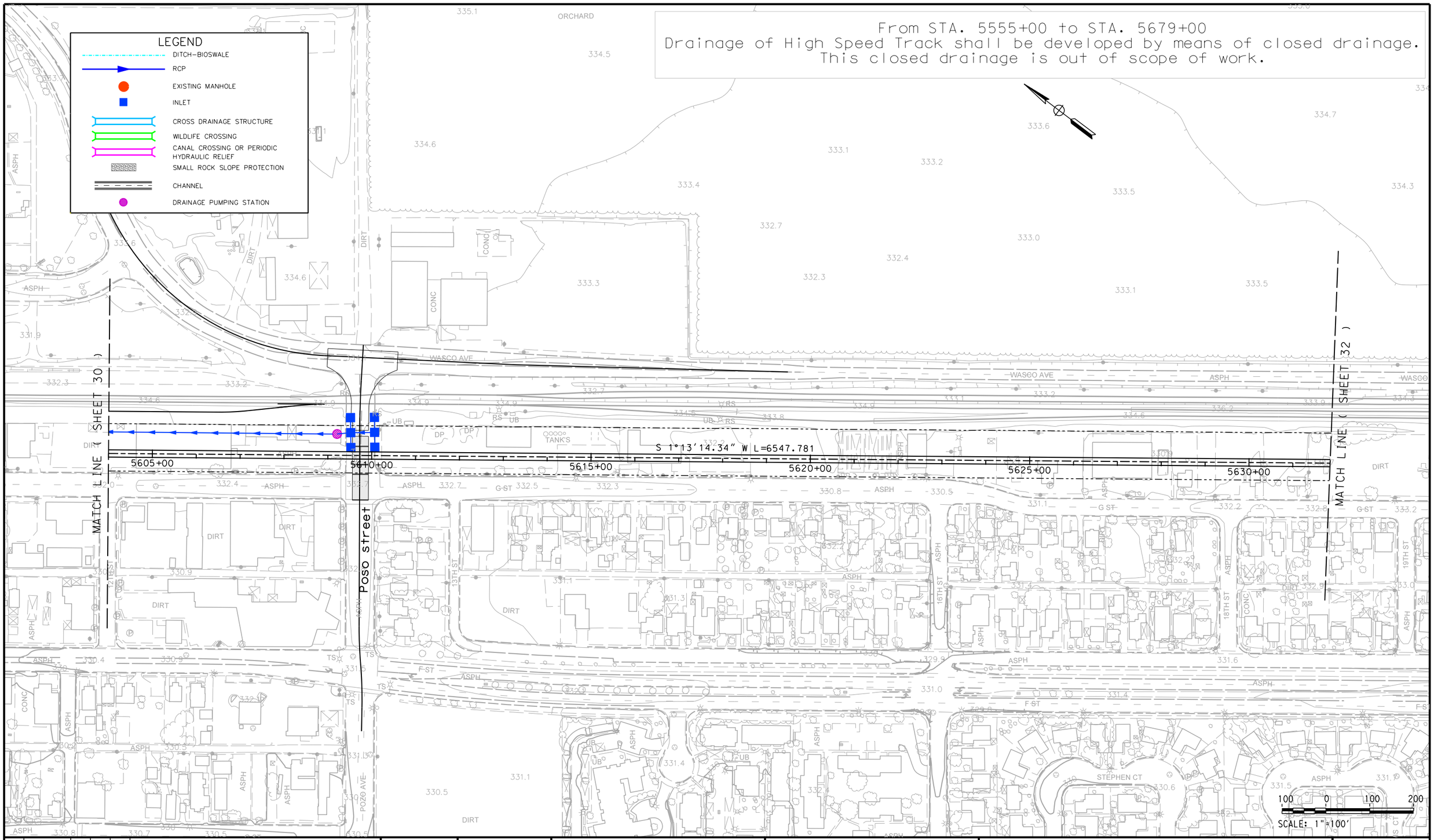
ONLY FOR BIDDING PURPOSES - NOT FOR CONSTRUCTION

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA RAIL BUILDERS

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
THROUGH WASCO SUBSECTION
ALIGNMENT WS1
STA. 5576+00 TO 5604+00
DRAINAGE PLAN

CONTRACT NO.
DRAWING NO. 2.06.01_30
SCALE AS SHOWN
SHEET NO. 30 OF 40



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
DRAWN BY
CHECKED BY
IN CHARGE
DATE

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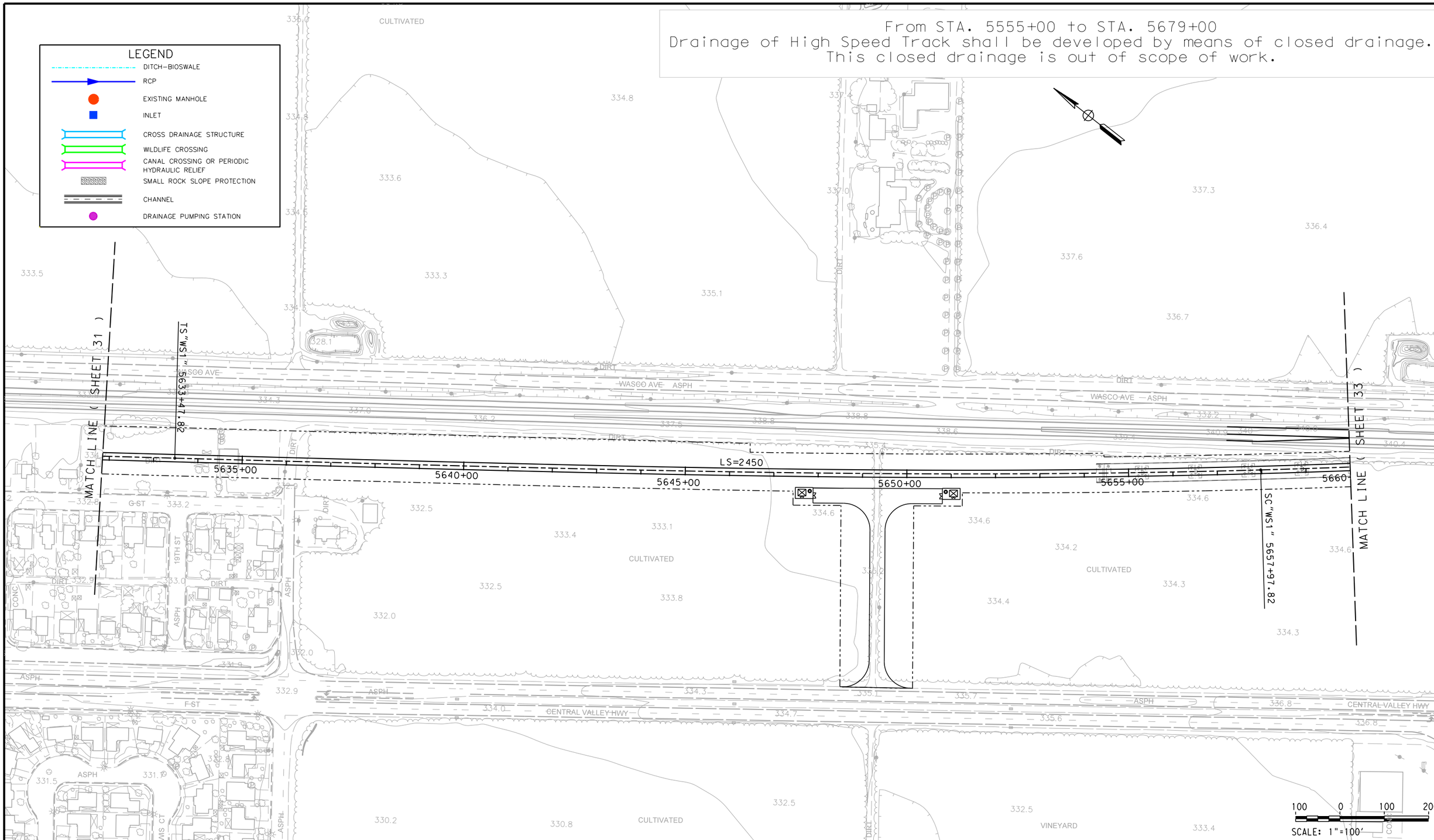
CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA RAIL BUILDERS

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
THROUGH WASCO SUBSECTION
ALIGNMENT WS1
STA. 5604+00 TO 5632+00
DRAINAGE PLAN

CONTRACT NO.
DRAWING NO. 2.06.01_31
SCALE AS SHOWN
SHEET NO. 31 OF 40

From STA. 5555+00 to STA. 5679+00
Drainage of High Speed Track shall be developed by means of closed drainage.
This closed drainage is out of scope of work.



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
DRAWN BY
CHECKED BY
IN CHARGE
DATE

ONLY FOR BIDDING PURPOSES - NOT FOR CONSTRUCTION

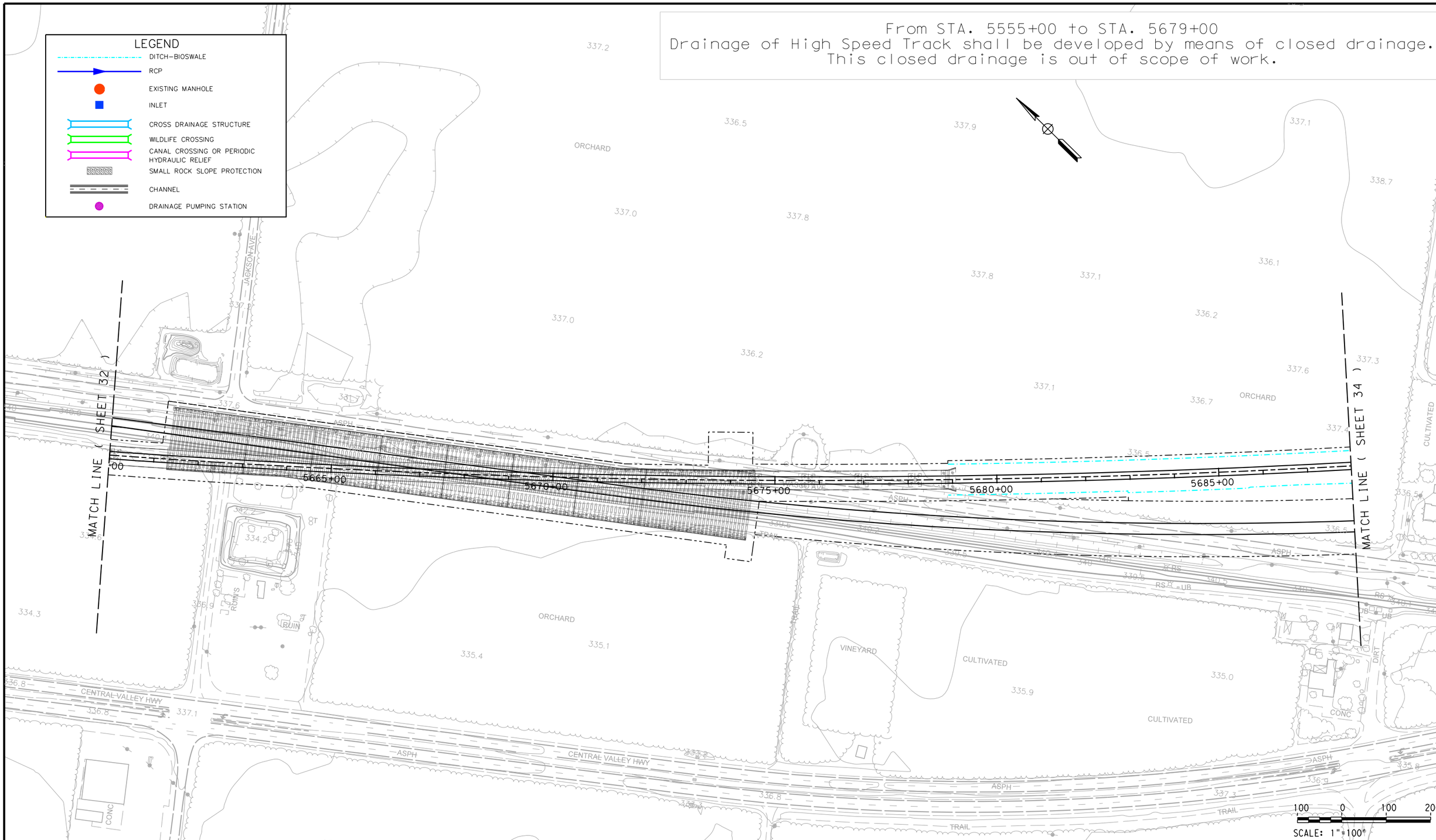
CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA RAIL BUILDERS

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
THROUGH WASCO SUBSECTION
ALIGNMENT WS1
STA. 5632+00 TO 5660+00
DRAINAGE PLAN

CONTRACT NO.
DRAWING NO. 2.06.01_32
SCALE AS SHOWN
SHEET NO. 32 OF 40

From STA. 5555+00 to STA. 5679+00
Drainage of High Speed Track shall be developed by means of closed drainage.
This closed drainage is out of scope of work.



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
DRAWN BY
CHECKED BY
IN CHARGE
DATE

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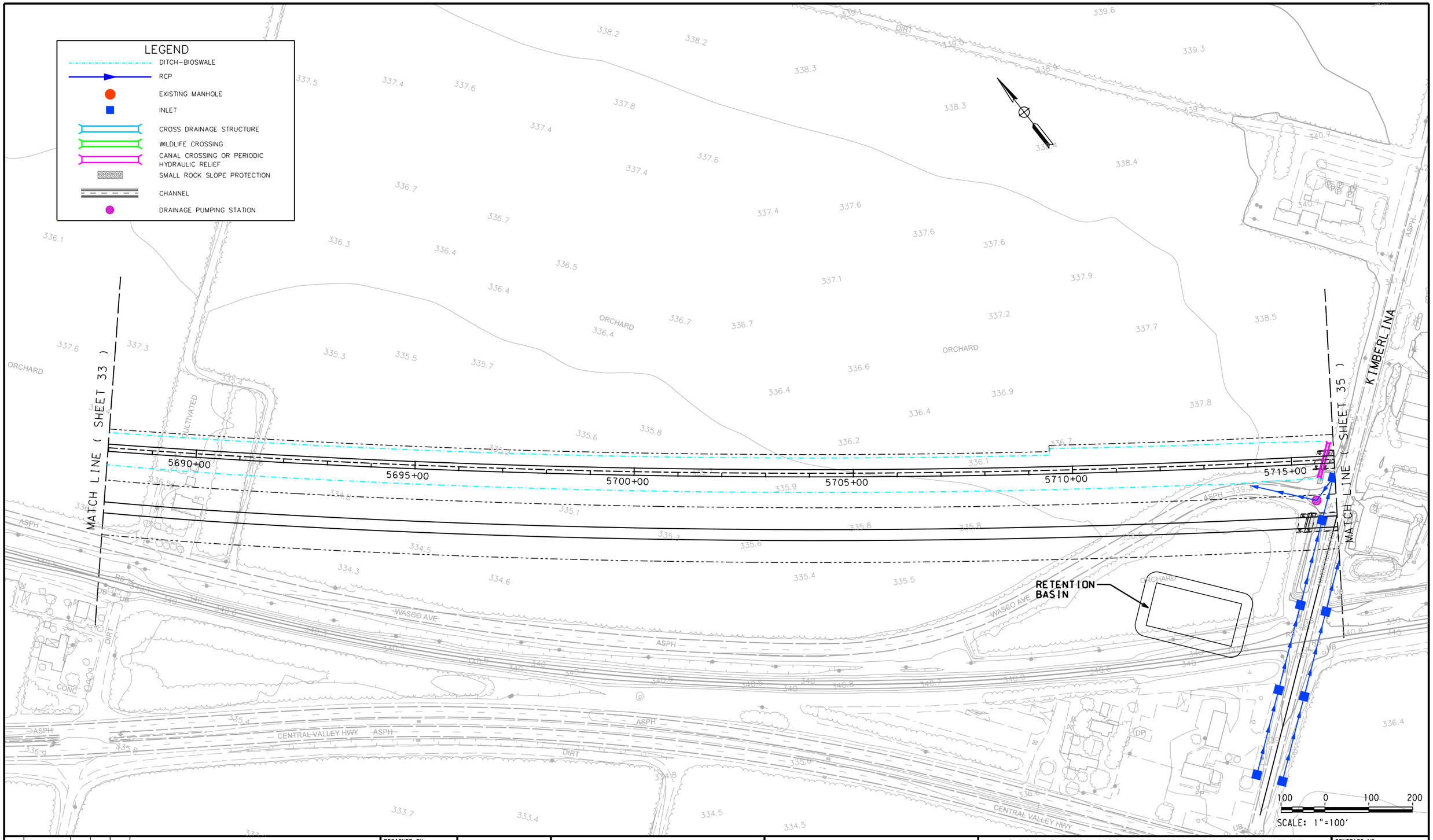
CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA RAIL BUILDERS

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
THROUGH WASCO SUBSECTION
ALIGNMENT WS1
STA. 5660+00 TO 5688+00
DRAINAGE PLAN

CONTRACT NO.
DRAWING NO. 2.03.01_33
SCALE AS SHOWN
SHEET NO. 33 OF 40



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DATE

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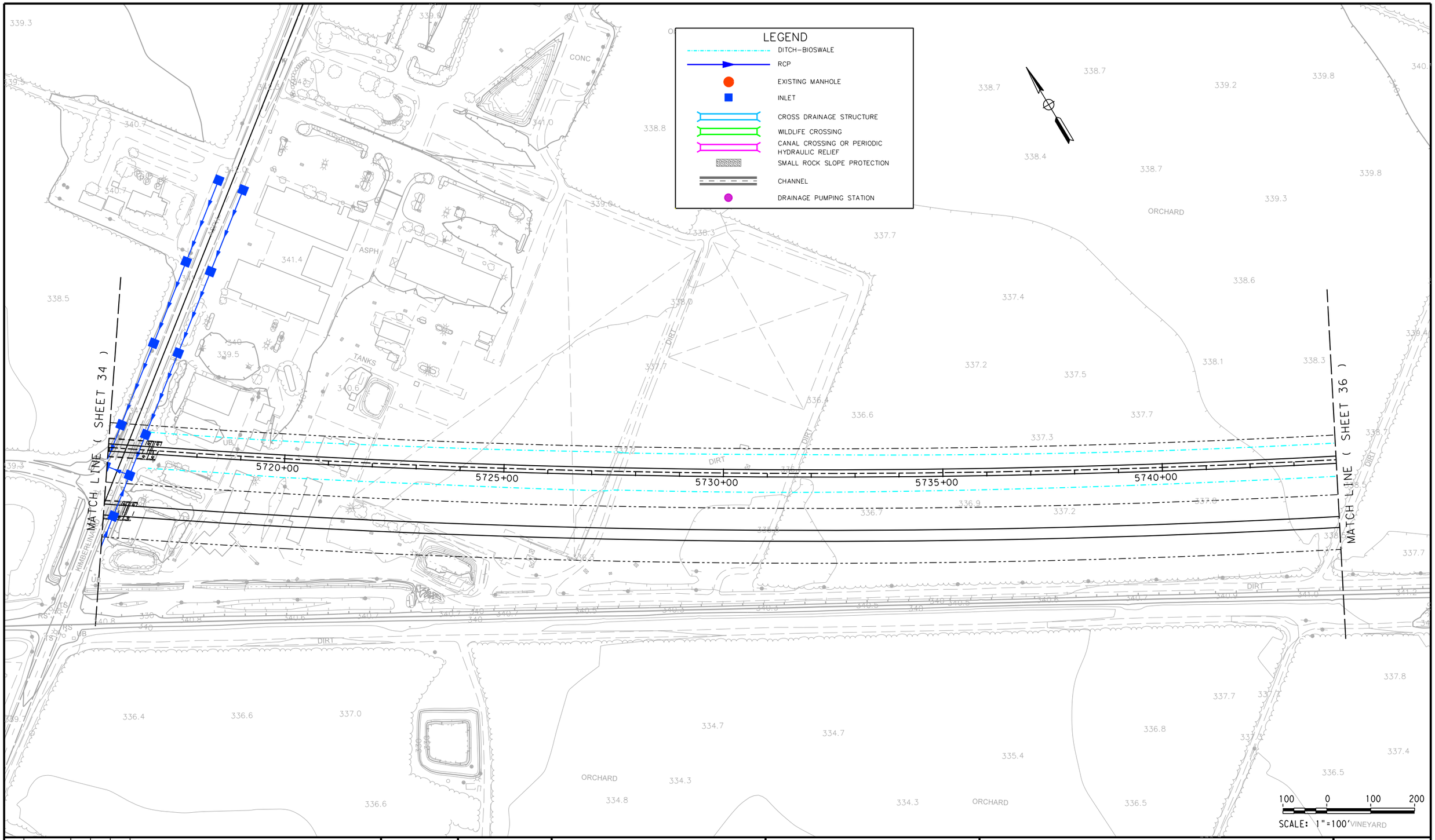
CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA RAIL BUILDERS

CALIFORNIA HIGH-SPEED TRAIN PROJECT FRESNO TO BAKERSFIELD

THROUGH WASCO SUBSECTION
ALIGNMENT WS1
STA. 5688+00 TO 5716+00
DRAINAGE PLAN

CONTRACT NO.
DRAWING NO. 2.03.01_34
SCALE AS SHOWN
SHEET NO. 34 OF 40



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
DRAWN BY
CHECKED BY
IN CHARGE
DATE

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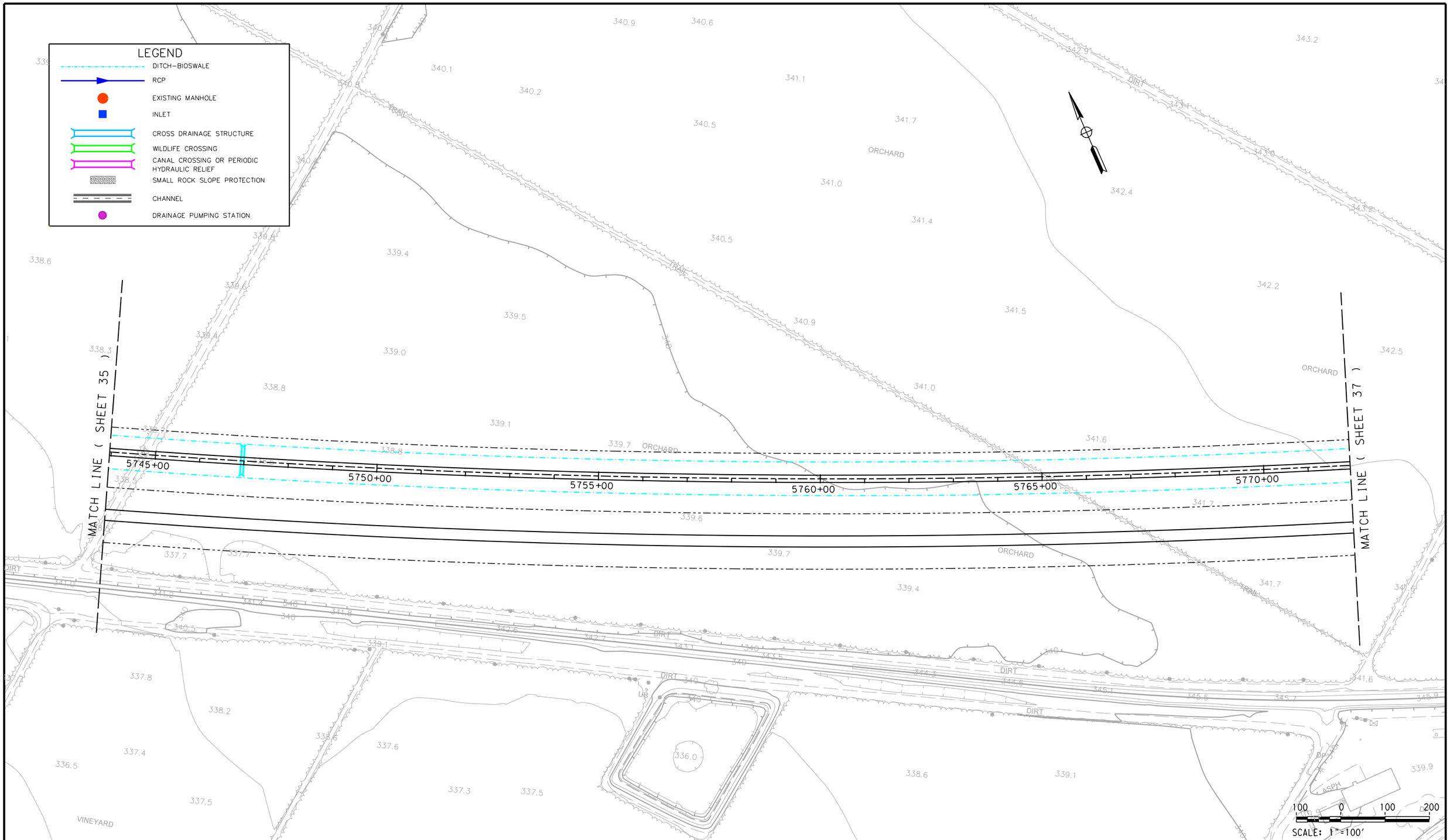
CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA RAIL BUILDERS

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
THROUGH WASCO SUBSECTION
ALIGNMENT WS1
STA. 5716+00 TO 5744+00
DRAINAGE PLAN

CONTRACT NO.
DRAWING NO. 2.03.01_35
SCALE AS SHOWN
SHEET NO. 35 OF 40



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DRAWN BY
CHECKED BY
IN CHARGE
DATE

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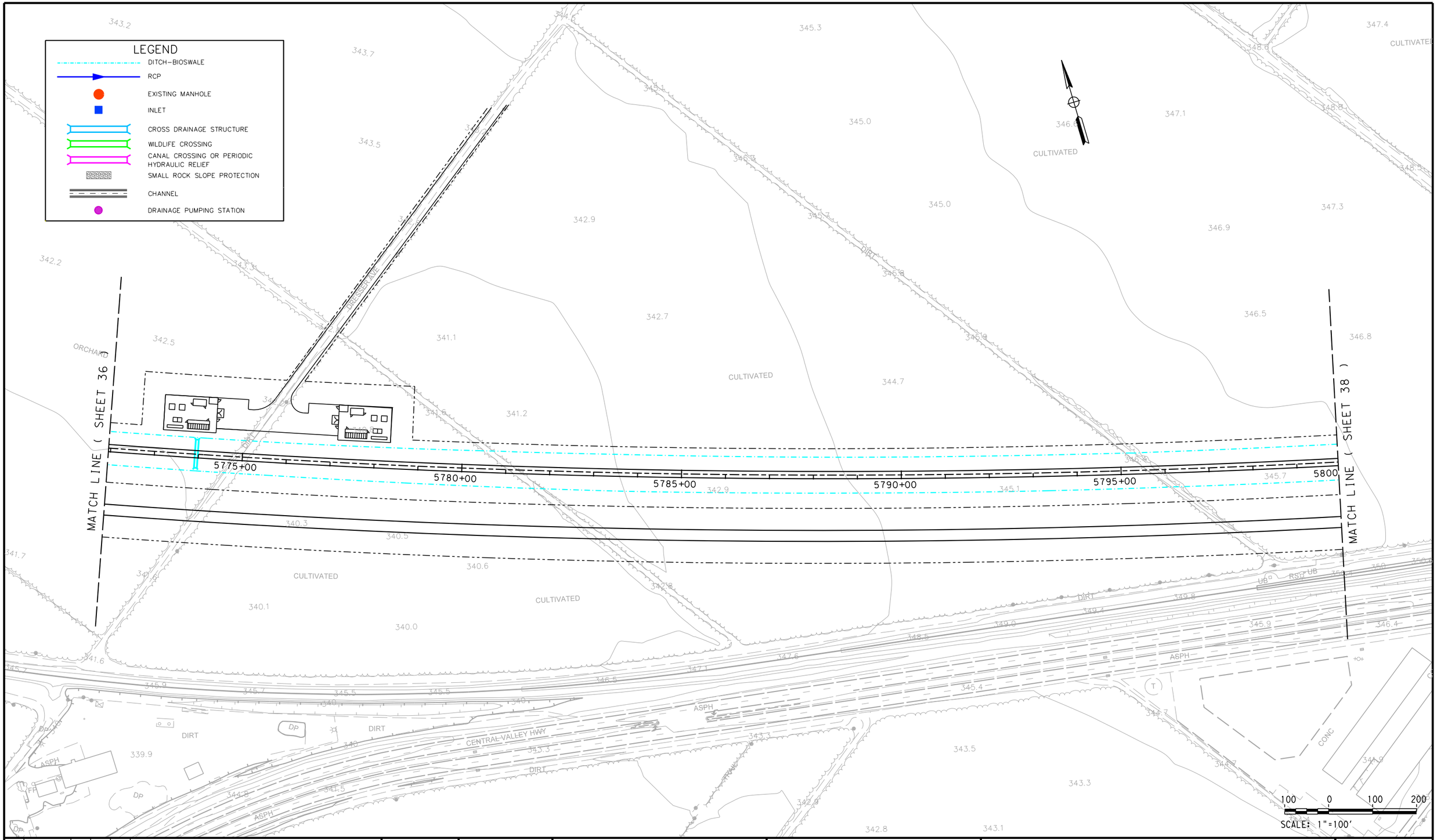
CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA RAIL BUILDERS

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
THROUGH WASCO SUBSECTION
ALIGNMENT WS1
STA. 5744+00 TO 5772+00
DRAINAGE PLAN

CONTRACT NO.
DRAWING NO. 2.03.01_36
SCALE AS SHOWN
SHEET NO. 36 OF 40



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
DRAWN BY
CHECKED BY
IN CHARGE
DATE

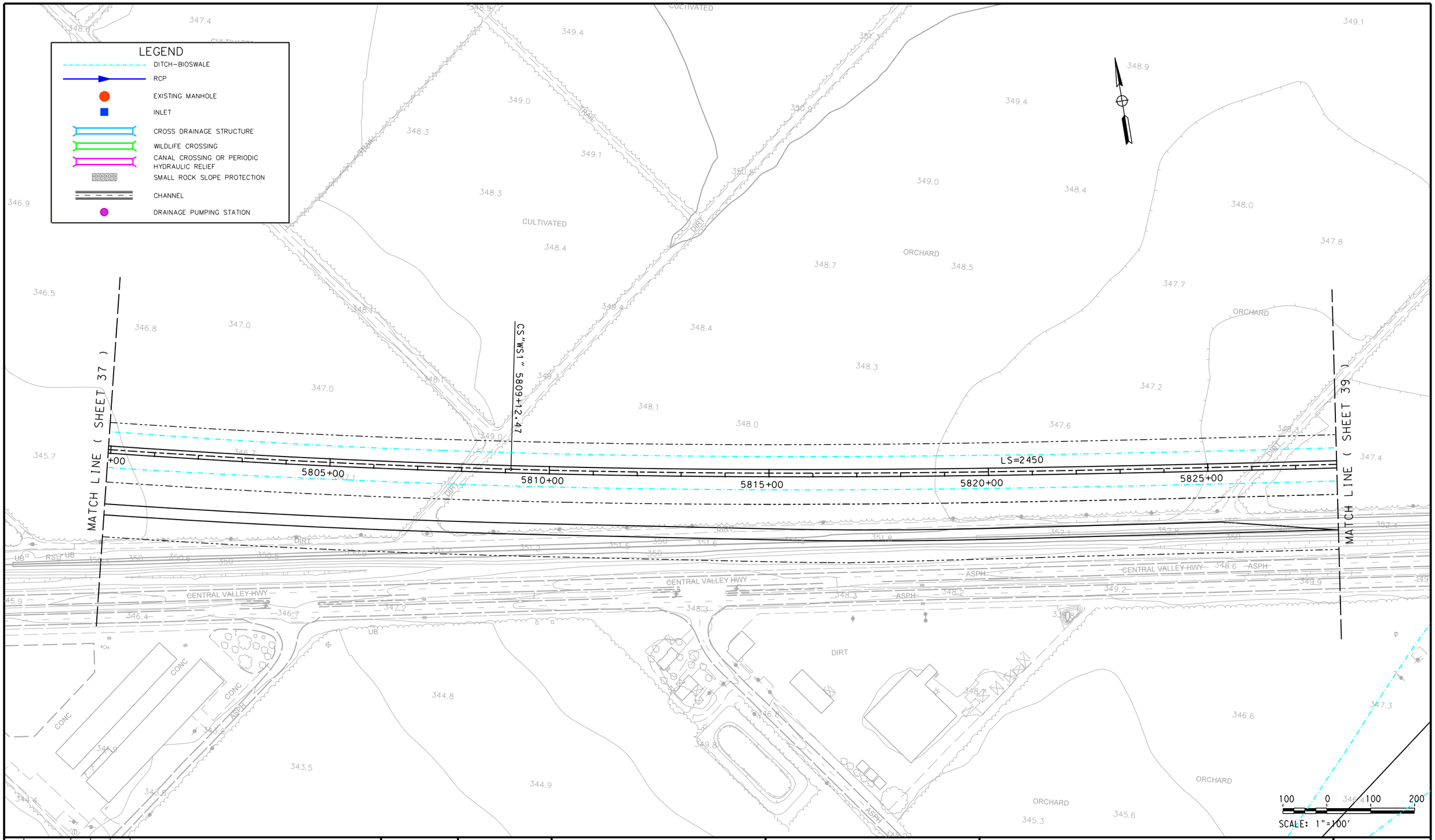
ONLY FOR BIDDING PURPOSES - NOT FOR CONSTRUCTION

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA RAIL BUILDERS

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
THROUGH WASCO SUBSECTION
ALIGNMENT WS1
STA. 5772+00 TO 5800+00
DRAINAGE PLAN

CONTRACT NO.
DRAWING NO. 2.03.01_37
SCALE AS SHOWN
SHEET NO. 37 OF 40



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IN CHARGE
DATE

ONLY FOR BIDDING PURPOSES - NOT FOR CONSTRUCTION

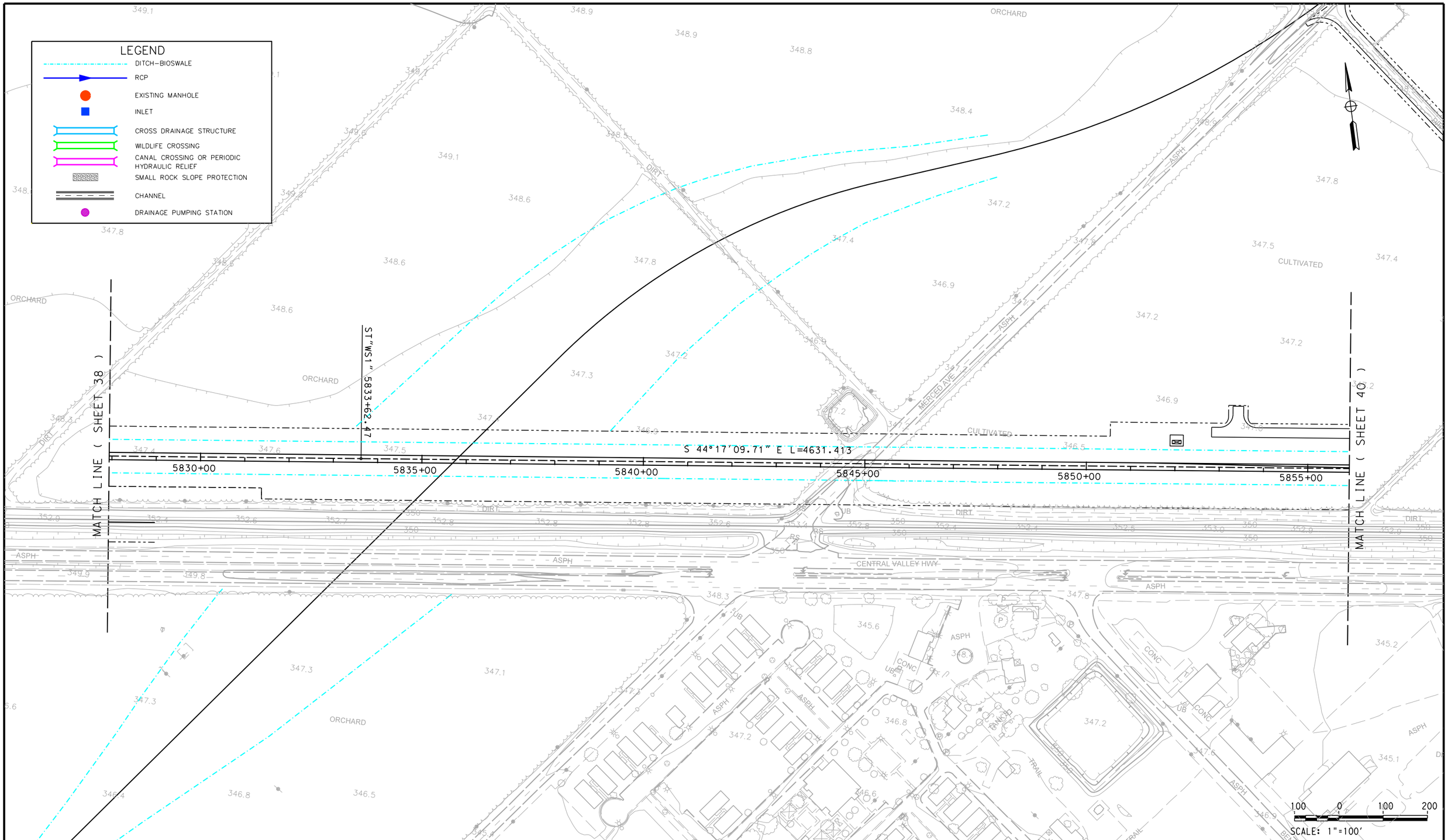
CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA RAIL BUILDERS

CALIFORNIA HIGH-SPEED TRAIN PROJECT FRESNO TO BAKERSFIELD

THROUGH WASCO SUBSECTION
ALIGNMENT WS1
STA. 5800+00 TO 5828+00
DRAINAGE PLAN

CONTRACT NO.
DRAWING NO. 2.03.01_38
SCALE AS SHOWN
SHEET NO. 38 OF 40



REV	DATE	BY	CHK	APP	DESCRIPTION

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DRAWN BY
CHECKED BY
IN CHARGE
DATE

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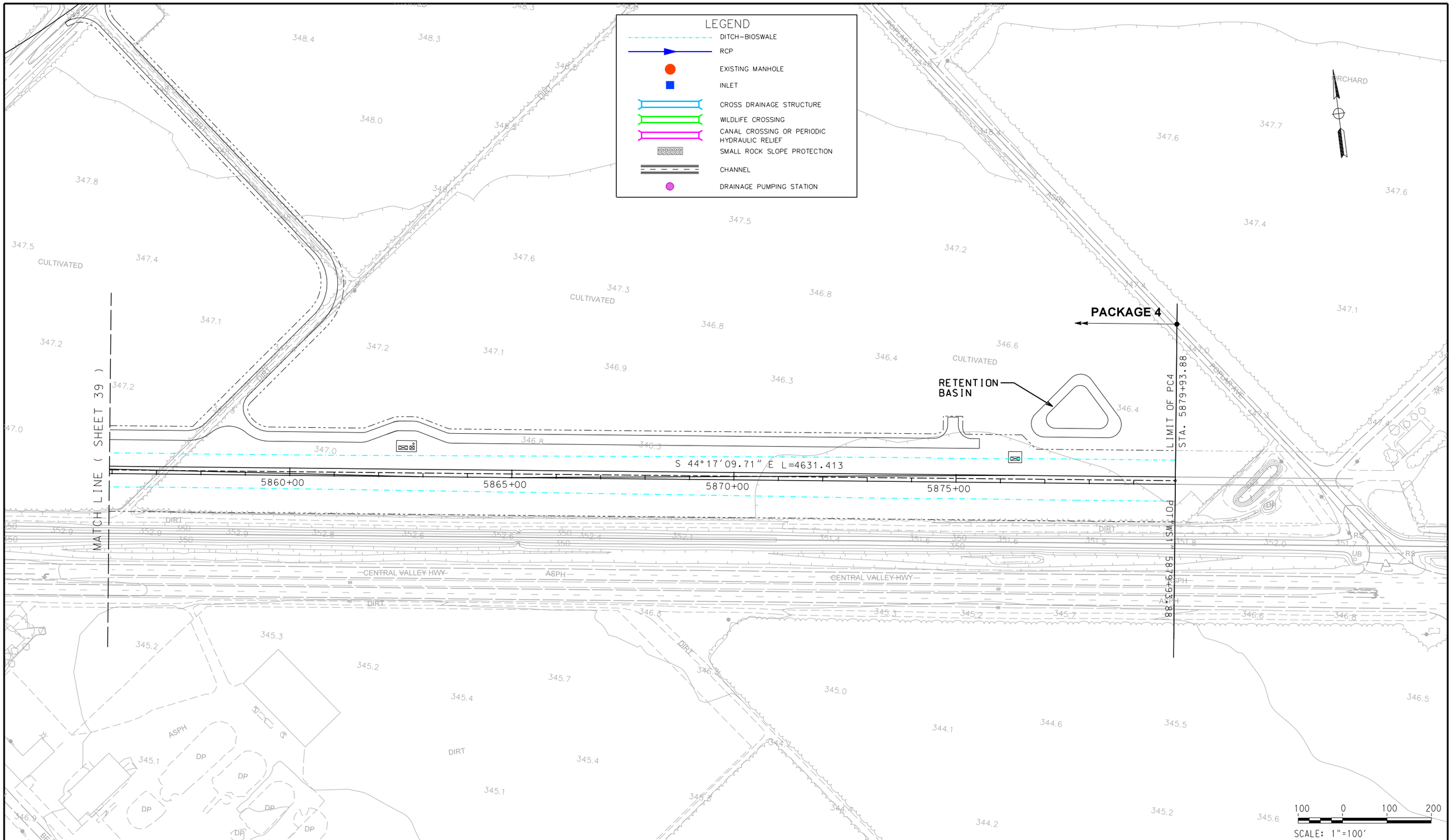
CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA RAIL BUILDERS

CALIFORNIA HIGH-SPEED TRAIN PROJECT FRESNO TO BAKERSFIELD

THROUGH WASCO SUBSECTION
ALIGNMENT WS1
STA. 5828+00 TO 5856+00
DRAINAGE PLAN

CONTRACT NO.
DRAWING NO. 2.03.01_39
SCALE AS SHOWN
SHEET NO. 39 OF 40



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CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA RAIL BUILDERS

CALIFORNIA HIGH-SPEED TRAIN PROJECT FRESNO TO BAKERSFIELD

THROUGH WASCO SUBSECTION
ALIGNMENT WS1
STA. 5856+00 TO 5879+93.88
DRAINAGE PLAN

CONTRACT NO.
DRAWING NO. 2.03.01_40
SCALE AS SHOWN
SHEET NO. 40 OF 40

MAINTENANCE OF TRAFFIC

CALIFORNIA
HIGH-SPEED RAIL PROJECT

Design-Build Contract for
CONSTRUCTION PACKAGE 4

Proposals | RFP Number: HSR 14-32

CALIFORNIA RAIL BUILDERS

MAINTENANCE OF TRAFFIC

INDEX - MAINTENANCE OF TRAFFIC - MAINTENANCE OF ROAD TRAFFIC

DRAWING No.	REV No.	DRAWING DESCRIPTION	SHEET No
2.04.01_01		THROUGH WASCO SUBSECTION - ALIGNMENT WS1 - TRAFFIC CONTROL - MCCOMBS AVE - PHASE 1	1 OF 21
2.04.01_02		THROUGH WASCO SUBSECTION - ALIGNMENT WS1 - TRAFFIC CONTROL - MCCOMBS AVE - PHASE 1	2 OF 21
2.04.01_03		THROUGH WASCO SUBSECTION - ALIGNMENT WS1 - TRAFFIC CONTROL - MCCOMBS AVE - PHASE 2	3 OF 21
2.04.01_04		THROUGH WASCO SUBSECTION - ALIGNMENT WS1 - TRAFFIC CONTROL - MCCOMBS AVE - PHASE 2	4 OF 21
2.04.01_05		THROUGH WASCO SUBSECTION - ALIGNMENT WS1 - TRAFFIC CONTROL - MCCOMBS AVE - PHASE 3	5 OF 21
2.04.01_06		THROUGH WASCO SUBSECTION - ALIGNMENT WS1 - TRAFFIC CONTROL - MCCOMBS AVE - PHASE 3	6 OF 21
2.04.01_07		THROUGH WASCO SUBSECTION - ALIGNMENT WS1 - TRAFFIC CONTROL - 6TH STREET - PHASE 1	7 OF 21
2.04.01_08		THROUGH WASCO SUBSECTION - ALIGNMENT WS1 - TRAFFIC CONTROL - 6TH STREET - PHASE 2	8 OF 21
2.04.01_09		THROUGH WASCO SUBSECTION - ALIGNMENT WS1 - TRAFFIC CONTROL - 6TH STREET - PHASE 3	9 OF 21
2.04.01_10		THROUGH WASCO SUBSECTION - ALIGNMENT WS1 - TRAFFIC CONTROL - POSO AVE - PHASE 1	10 OF 21
2.04.01_11		THROUGH WASCO SUBSECTION - ALIGNMENT WS1 - TRAFFIC CONTROL - POSO AVE - PHASE 2	11 OF 21
2.04.01_12		THROUGH WASCO SUBSECTION - ALIGNMENT WS1 - TRAFFIC CONTROL - POSO AVE - PHASE 3	12 OF 21
2.04.01_13		THROUGH WASCO SUBSECTION - ALIGNMENT WS1 - TRAFFIC CONTROL - KIMBERLINA RD - PHASE 1	13 OF 21
2.04.01_14		THROUGH WASCO SUBSECTION - ALIGNMENT WS1 - TRAFFIC CONTROL - KIMBERLINA RD - PHASE 2	14 OF 21
2.04.01_15		THROUGH WASCO SUBSECTION - ALIGNMENT WS1 - TRAFFIC CONTROL - KIMBERLINA RD - PHASE 3	15 OF 21
2.04.01_16		THROUGH WASCO SUBSECTION - ALIGNMENT WS1 - TRAFFIC CONTROL - MERCED AVE - PHASE 1	16 OF 21
2.04.01_17		THROUGH WASCO SUBSECTION - ALIGNMENT WS1 - TRAFFIC CONTROL - MERCED AVE - PHASE 1	17 OF 21
2.04.01_18		THROUGH WASCO SUBSECTION - ALIGNMENT WS1 - TRAFFIC CONTROL - MERCED AVE - PHASE 2	18 OF 21
2.04.01_19		THROUGH WASCO SUBSECTION - ALIGNMENT WS1 - TRAFFIC CONTROL - MERCED AVE - PHASE 2	19 OF 21
2.04.01_20		THROUGH WASCO SUBSECTION - ALIGNMENT WS1 - TRAFFIC CONTROL - MERCED AVE - PHASE 3	20 OF 21
2.04.01_21		THROUGH WASCO SUBSECTION - ALIGNMENT WS1 - TRAFFIC CONTROL - MERCED AVE - PHASE 3	21 OF 21

- PRELIMINARY, SUBJECT TO CHANGE DURING DETAIL DESIGN.

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
DRAWN BY
CHECKED BY
IN CHARGE
DATE

ONLY FOR BIDDING PURPOSES - NOT FOR CONSTRUCTION

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA RAIL BUILDERS

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD

INDEX OF DRAWINGS
MAINTENANCE OF TRAFFIC

CONTRACT NO.
DRAWING NO. 2.04
SCALE NO SCALE
SHEET NO. 1 OF 1

MAINTENANCE OF TRAFFIC

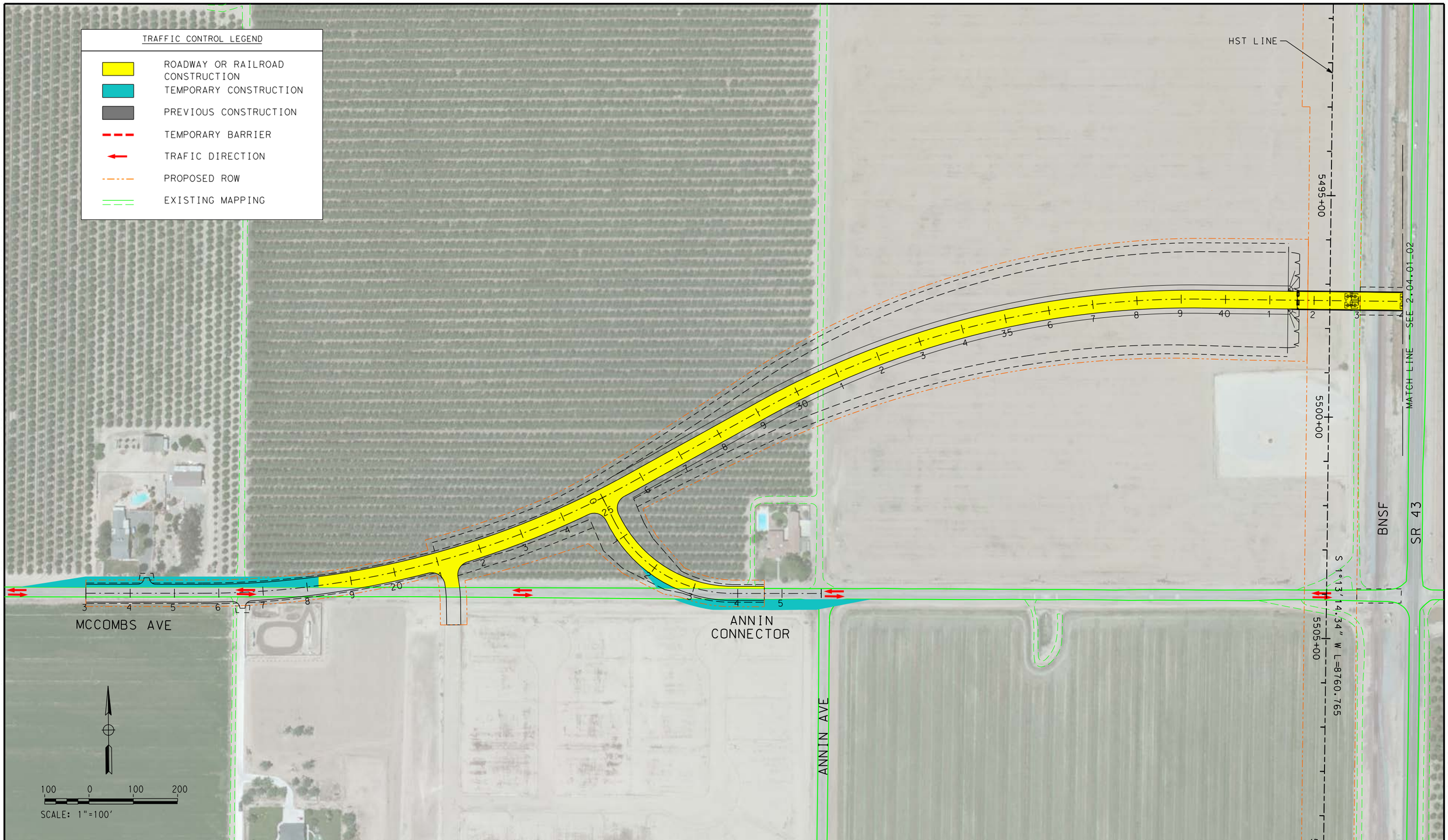
MAINTENANCE OF ROAD TRAFFIC

CALIFORNIA
HIGH-SPEED RAIL PROJECT

Design-Build Contract for
CONSTRUCTION PACKAGE 4

Proposal | RFP Number: HSR 14-32

CALIFORNIA RAIL BUILDERS



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CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA RAIL BUILDERS

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
THROUGH WASCO SUBSECTION
TRAFFIC CONTROL
MCCOMBS AVE
PHASE 1

CONTRACT NO.
DRAWING NO. 2.04.01_01
SCALE AS SHOWN
SHEET NO. 1 OF 21

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CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA RAIL BUILDERS

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
THROUGH WASCO SUBSECTION
TRAFFIC CONTROL
MCCOMBS AVE
PHASE 1

CONTRACT NO.
DRAWING NO. 2.04.01_02
SCALE AS SHOWN
SHEET NO. 2 OF 21

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CALIFORNIA HIGH-SPEED RAIL AUTHORITY

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CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
THROUGH WASCO SUBSECTION
TRAFFIC CONTROL
MCCOMBS AVE
PHASE 2

CONTRACT NO.
DRAWING NO. 2.04.01_03
SCALE AS SHOWN
SHEET NO. 3 OF 21

REV	DATE	BY	CHK	APP	DESCRIPTION

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CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA RAIL BUILDERS

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
THROUGH WASCO SUBSECTION
TRAFFIC CONTROL
MCCOMBS AVE
PHASE 2

CONTRACT NO.
DRAWING NO. 2.04.01_04
SCALE AS SHOWN
SHEET NO. 4 OF 21

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CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA RAIL BUILDERS

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
THROUGH WASCO SUBSECTION
TRAFFIC CONTROL
MCCOMBS AVE
PHASE 3

CONTRACT NO.
DRAWING NO. 2.04.01_05
SCALE AS SHOWN
SHEET NO. 5 OF 21

REV	DATE	BY	CHK	APP	DESCRIPTION

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DATE

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CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA RAIL BUILDERS

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
THROUGH WASCO SUBSECTION
TRAFFIC CONTROL
MCCOMBS AVE
PHASE 3

CONTRACT NO.
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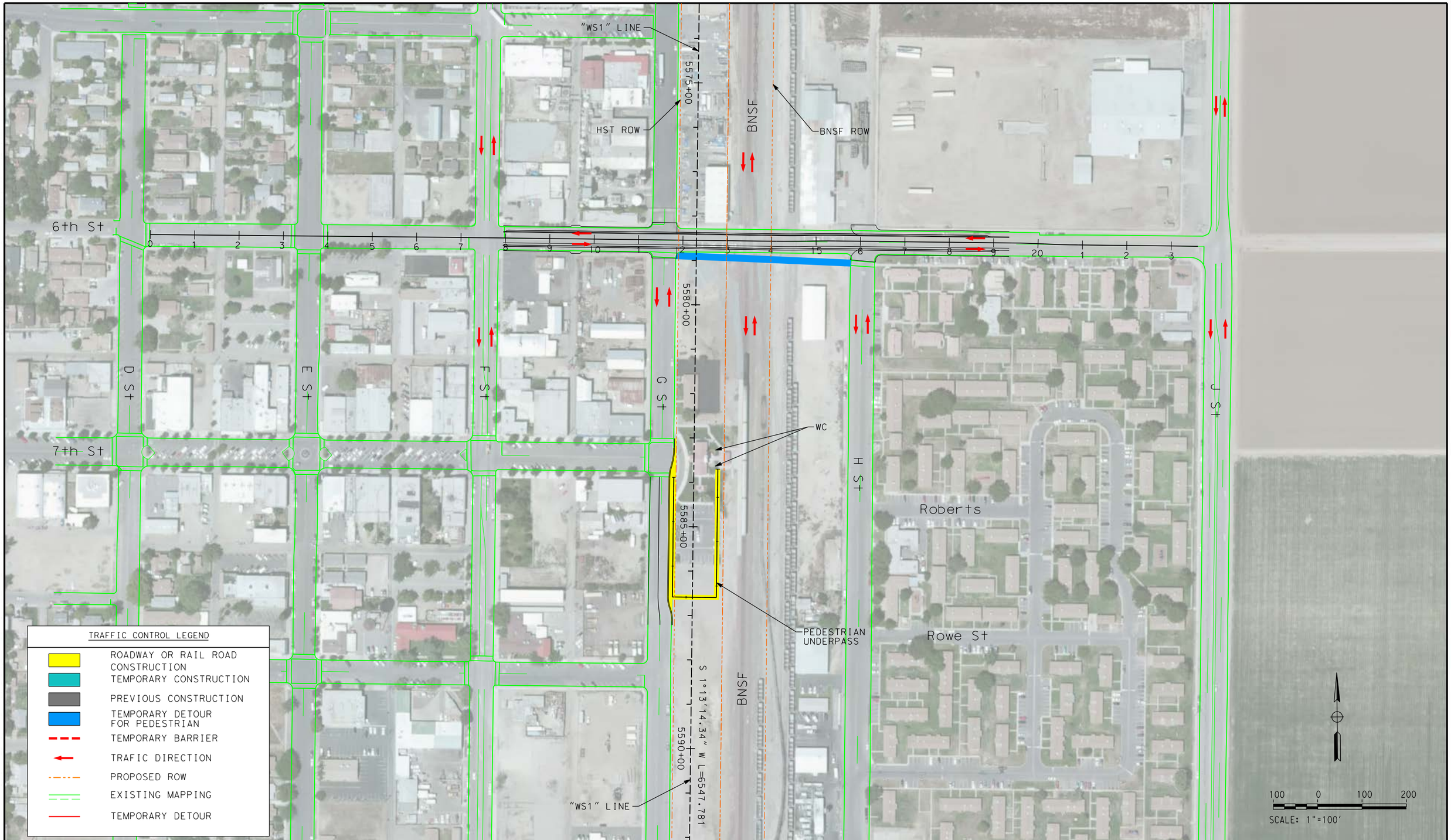
SCALE AS SHOWN
SHEET NO. 6 OF 21



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IN CHARGE
DATE

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CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA RAIL BUILDERS

CALIFORNIA HIGH-SPEED TRAIN PROJECT FRESNO TO BAKERSFIELD

THROUGH WASCO SUBSECTION
TRAFFIC CONTROL
6TH STREET
PHASE 1

CONTRACT NO.
DRAWING NO. 2.04.01_07
SCALE AS SHOWN
SHEET NO. 7 OF 21

5th St
D St
E St
F St
6th St
"WS1" LINE
5575+00
HST ROW
BNSF
For railroad shoofly, see drawings 2.04.02
"Conceptual Temporary Railroad Shoofly"
BNSF ROW
ROAD CLOSED
6th St
J St
5580+00
PEDESTRIAN
MOVEMENT
G St
WC
7th St
H St
Roberts
5585+00
PEDESTRIAN
UNDERPASS
S 1°13'14.34" W L=6547.781
5590+00
BNSF
"WS1" LINE

SR46
BNSF
6th St
J St
ROAD CLOSED
G St
H St
F St
Poso Av

TRAFFIC CONTROL LEGEND

- ROADWAY OR RAIL ROAD CONSTRUCTION
- TEMPORARY CONSTRUCTION
- PREVIOUS CONSTRUCTION
- TEMPORARY BARRIER
- TRAFIC DIRECTION
- PROPOSED ROW
- EXISTING MAPPING
- TEMPORARY DETOUR

100 0 100 200
SCALE: 1"=100'

REV	DATE	BY	CHK	APP	DESCRIPTION

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CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA RAIL BUILDERS

CALIFORNIA HIGH-SPEED TRAIN PROJECT FRESNO TO BAKERSFIELD

THROUGH WASCO SUBSECTION
TRAFFIC CONTROL
6TH STREET
PHASE 2

CONTRACT NO.
DRAWING NO. 2.04.01_08
SCALE AS SHOWN
SHEET NO. 8 OF 21

5th St
D St
E St
F St
6th St
"WS1" LINE
HST ROW
5575+00
BNSF
For railroad shoofly, see drawings 2.04.02
"Conceptual Temporary Railroad Shoofly"
BNSF ROW
ROAD CLOSED
J St
PEDESTRIAN
MOVEMENT
5580+00
G St
7th St
WC
H St
Roberts
5585+00
PEDESTRIAN
UNDERPASS
S 1°13'14.34" W L=6547.781
5590+00
"WS1" LINE
SR46
J St
ROAD CLOSED
Poso Av

TRAFFIC CONTROL LEGEND

- ROADWAY OR RAIL ROAD CONSTRUCTION
- TEMPORARY CONSTRUCTION
- PREVIOUS CONSTRUCTION
- TEMPORARY BARRIER
- TRAFIC DIRECTION
- PROPOSED ROW
- EXISTING MAPPING
- TEMPORARY DETOUR

100 0 100 200
SCALE: 1"=100'

REV	DATE	BY	CHK	APP	DESCRIPTION

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CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA RAIL BUILDERS

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
THROUGH WASCO SUBSECTION
TRAFFIC CONTROL
6TH STREET
PHASE 3

CONTRACT NO.
DRAWING NO. 2.04.01_09
SCALE AS SHOWN
SHEET NO. 9 OF 21

REV	DATE	BY	CHK	APP	DESCRIPTION

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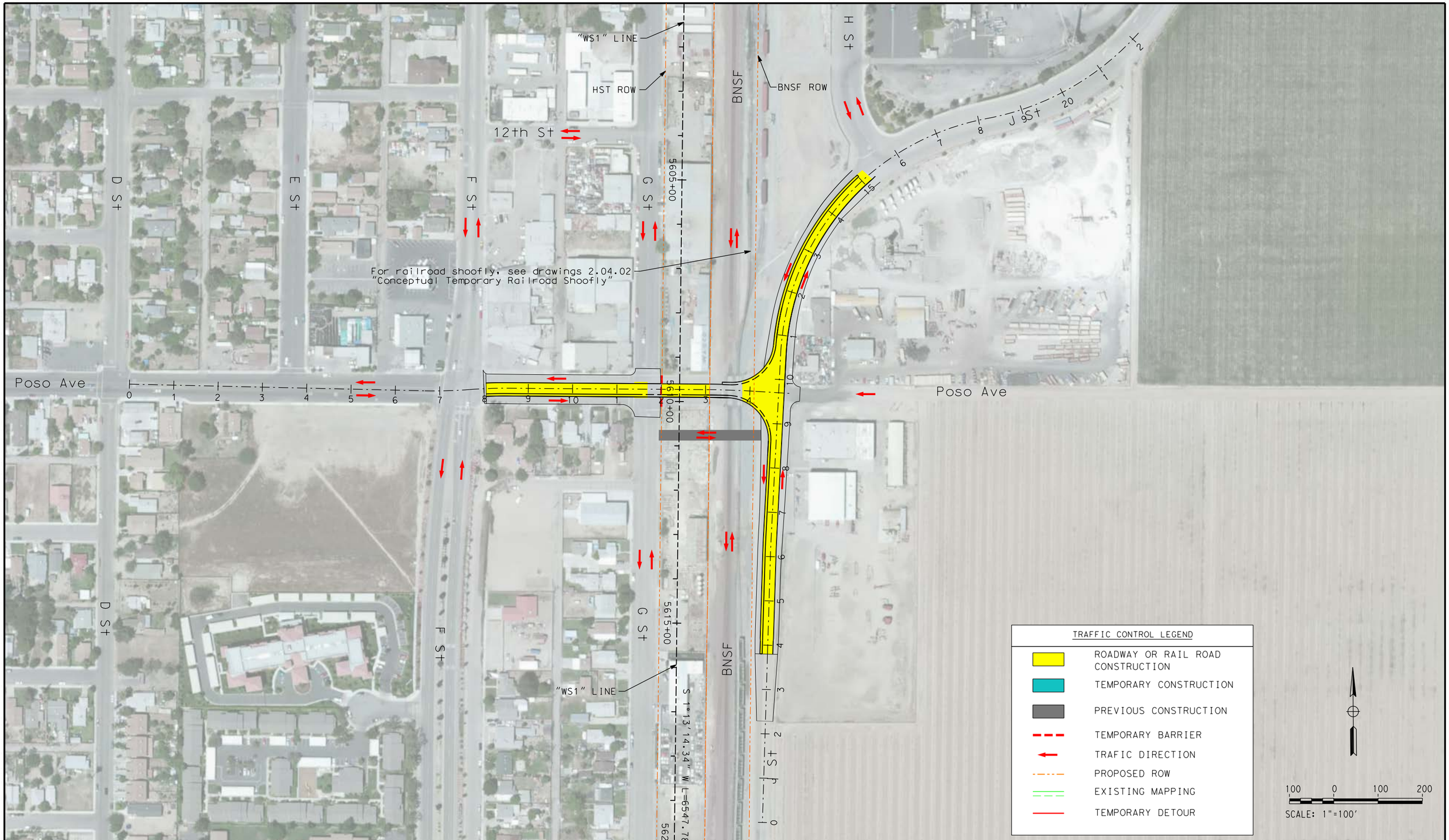
CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA RAIL BUILDERS

CALIFORNIA HIGH-SPEED TRAIN PROJECT FRESNO TO BAKERSFIELD

THROUGH WASCO SUBSECTION
TRAFFIC CONTROL
POSO AVE
PHASE 1

CONTRACT NO.
DRAWING NO. 2.04.01_01
SCALE AS SHOWN
SHEET NO. 10 OF 21



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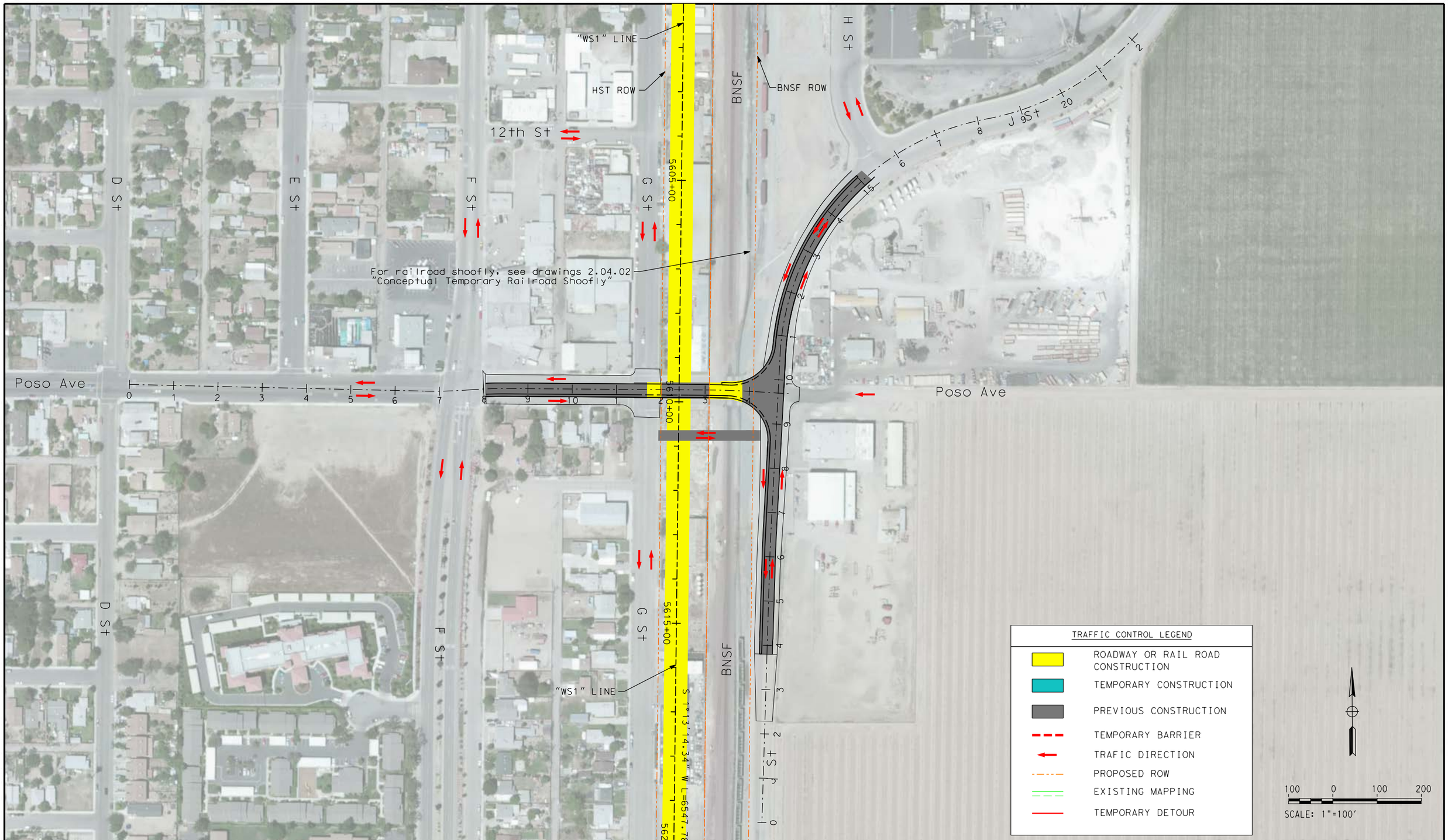
CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA RAIL BUILDERS

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
THROUGH WASCO SUBSECTION
TRAFFIC CONTROL
POSO AVE
PHASE 2

CONTRACT NO.
DRAWING NO. 2.04.01_11
SCALE AS SHOWN
SHEET NO. 11 OF 21



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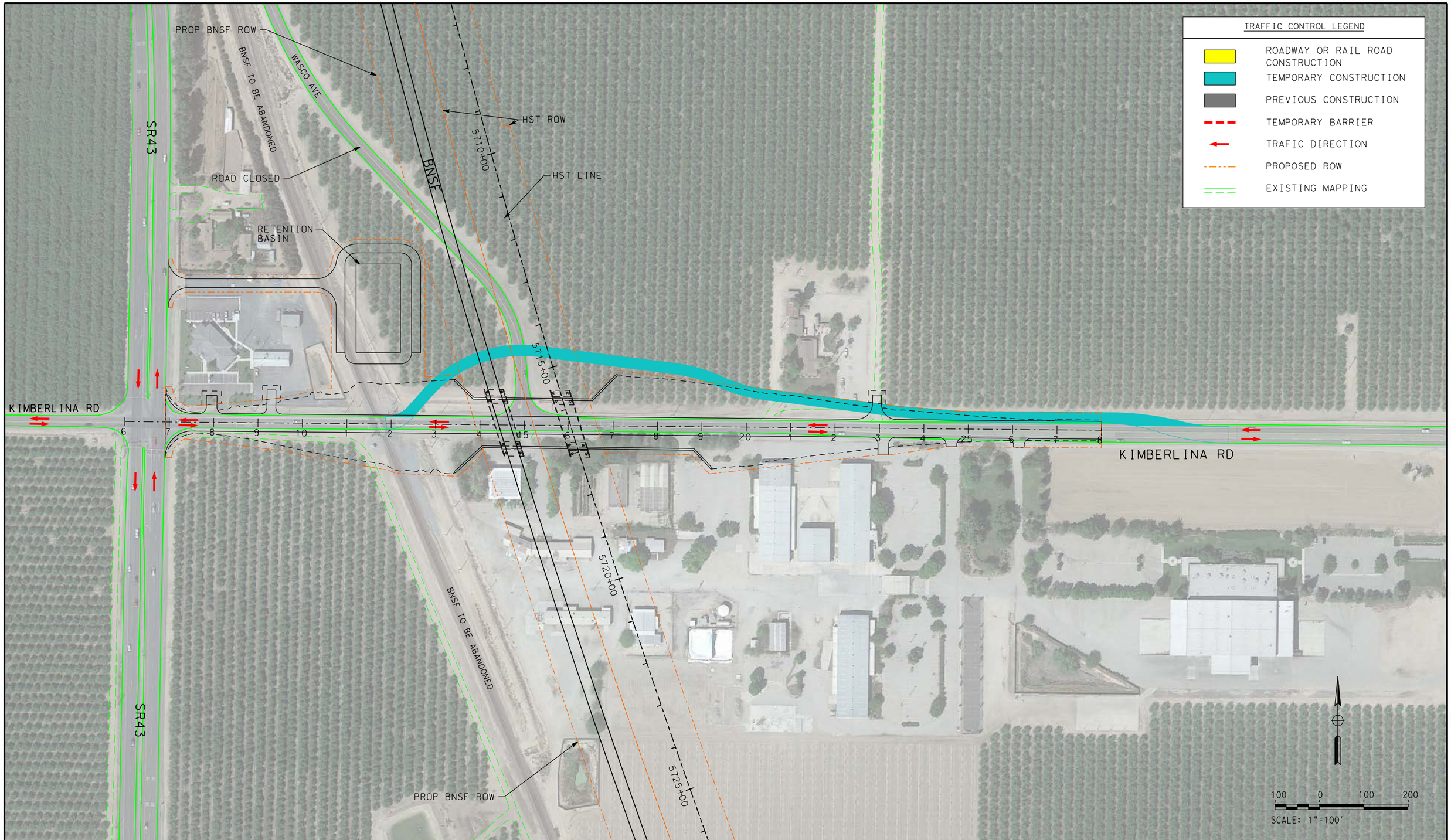
CALIFORNIA RAIL BUILDERS

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
THROUGH WASCO SUBSECTION
TRAFFIC CONTROL
POSO AVE
PHASE 3

CONTRACT NO.
DRAWING NO. 2.04.01_12
SCALE AS SHOWN
SHEET NO. 12 OF 21



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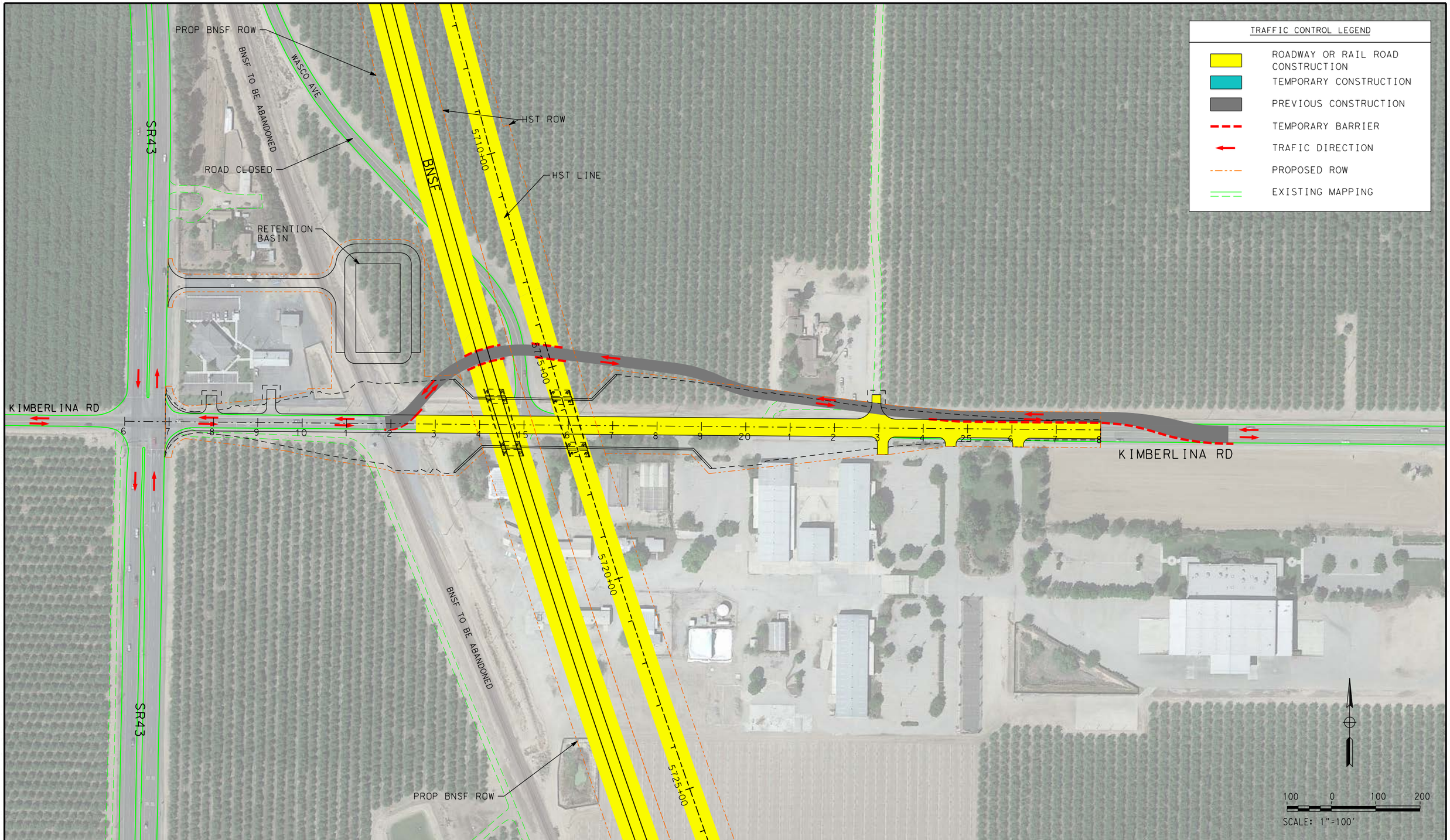
CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA RAIL BUILDERS

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
THROUGH WASCO SUBSECTION
TRAFFIC CONTROL
KIMBERLINA RD
PHASE 1

CONTRACT NO.
DRAWING NO. 2.04.01_13
SCALE AS SHOWN
SHEET NO. 13 OF 21



REV	DATE	BY	CHK	APP	DESCRIPTION

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DATE

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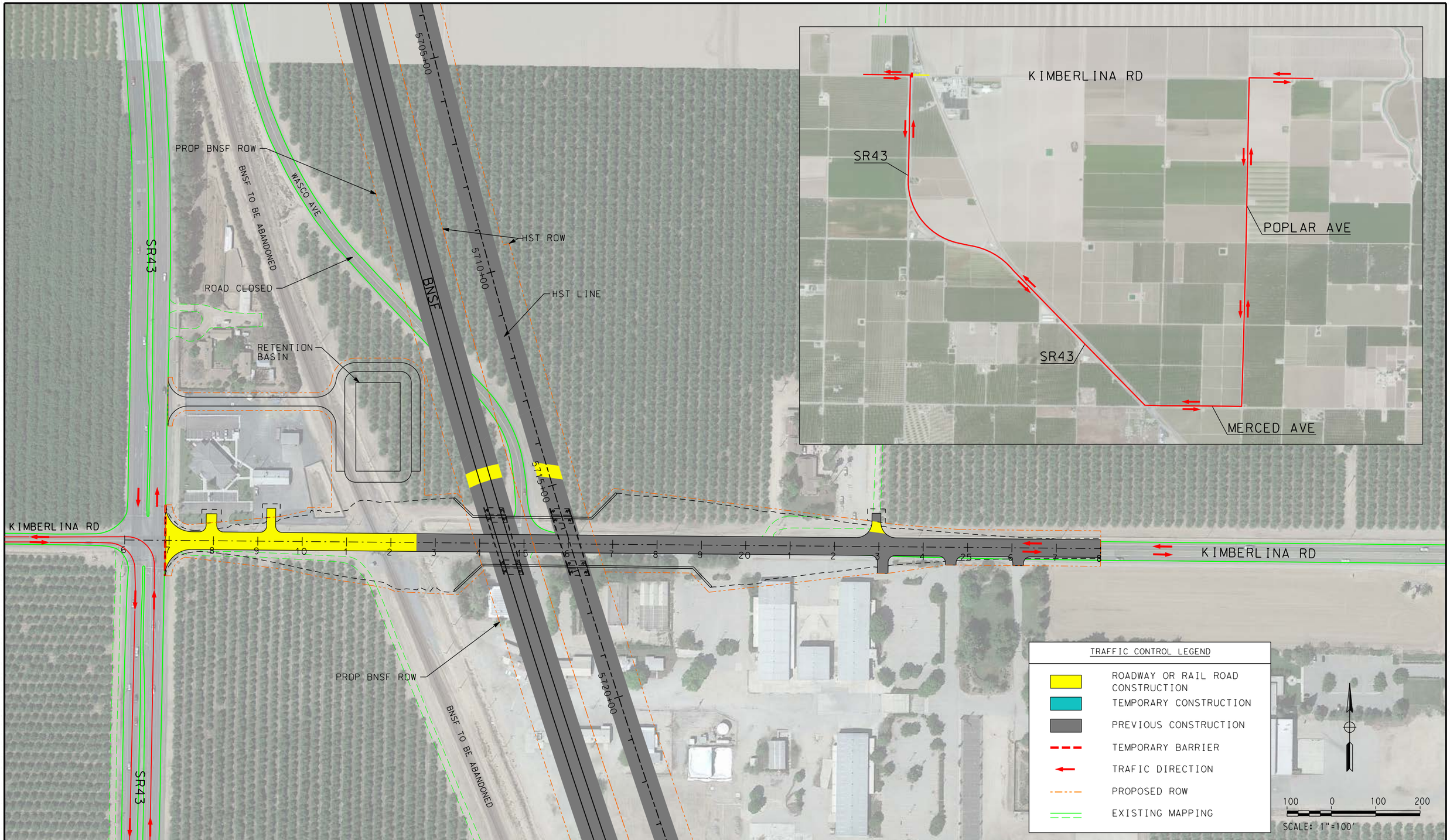
CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA RAIL BUILDERS

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
THROUGH WASCO SUBSECTION
TRAFFIC CONTROL
KIMBERLINA RD
PHASE 2

CONTRACT NO.
DRAWING NO. 2.04.01_14
SCALE AS SHOWN
SHEET NO. 14 OF 21



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CALIFORNIA HIGH-SPEED RAIL AUTHORITY

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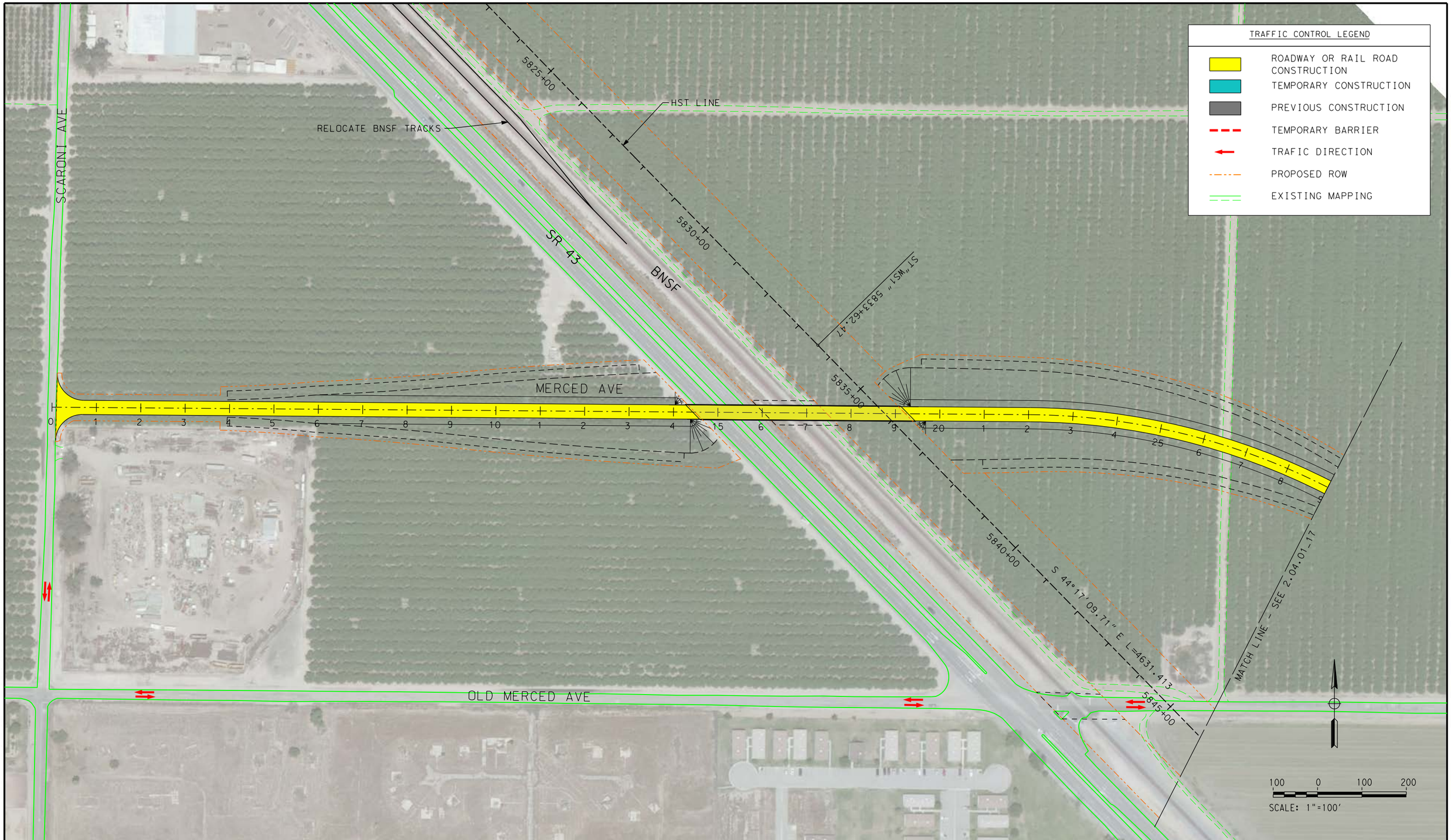
CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
THROUGH WASCO SUBSECTION
TRAFFIC CONTROL
KIMBERLINA RD
PHASE 3

CONTRACT NO.
DRAWING NO. 2.04.01_15
SCALE AS SHOWN
SHEET NO. 15 OF 21



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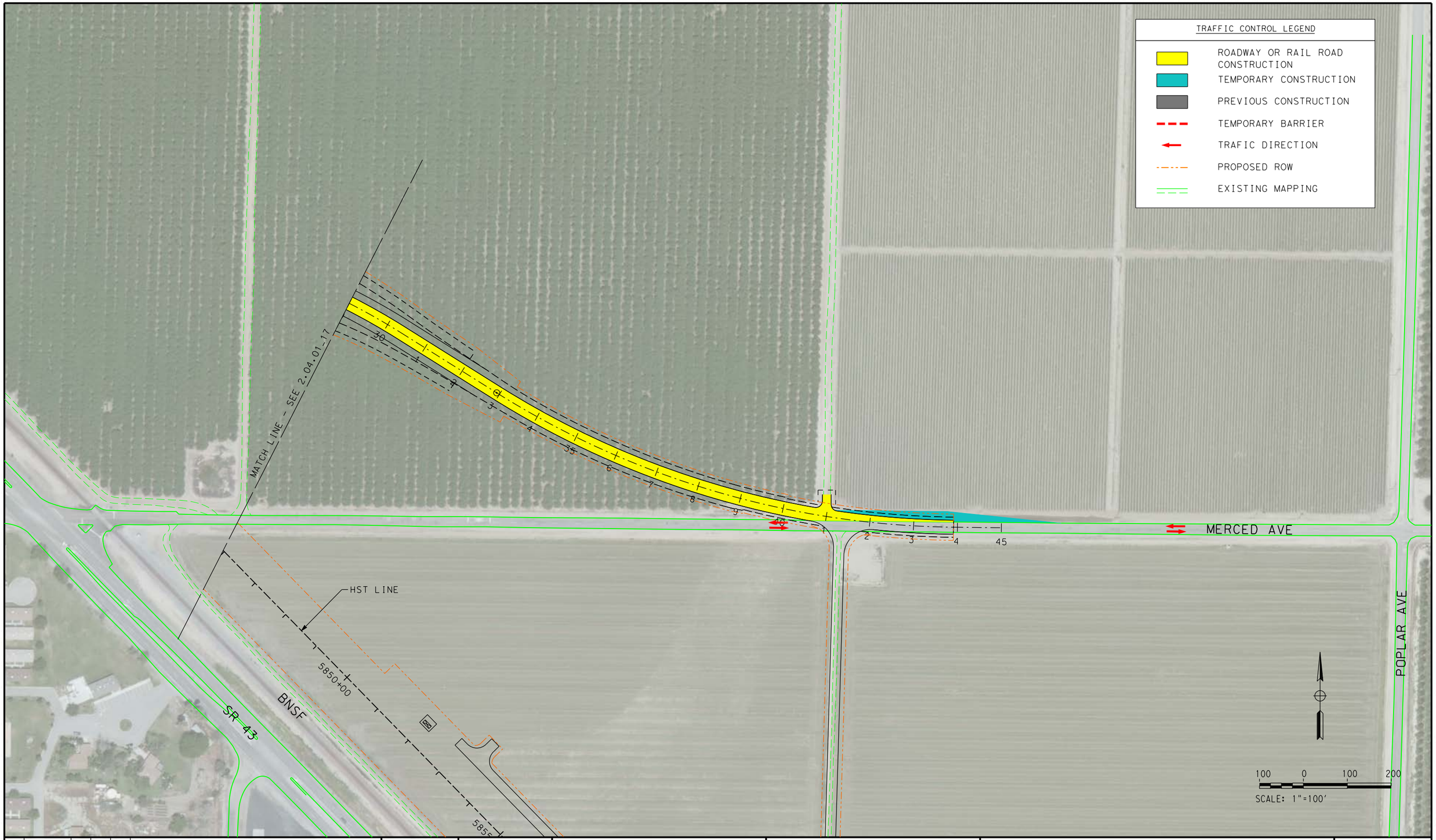
CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA RAIL BUILDERS

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
THROUGH WASCO SUBSECTION
TRAFFIC CONTROL
MERCED AVE
PHASE 1

CONTRACT NO.
DRAWING NO. 2.04.01_16
SCALE AS SHOWN
SHEET NO. 16 OF 21



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CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA RAIL BUILDERS

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
THROUGH WASCO SUBSECTION
TRAFFIC CONTROL
MERCED AVE
PHASE 1

CONTRACT NO.
DRAWING NO. 2.04.01_17
SCALE AS SHOWN
SHEET NO. 17 OF 21

REV	DATE	BY	CHK	APP	DESCRIPTION

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CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA RAIL BUILDERS

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FRESNO TO BAKERSFIELD
THROUGH WASCO SUBSECTION
TRAFFIC CONTROL
MERCED AVE
PHASE 2

CONTRACT NO.
DRAWING NO. 2.04.01_18
SCALE AS SHOWN
SHEET NO. 18 OF 21

REV	DATE	BY	CHK	APP	DESCRIPTION

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CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA RAIL BUILDERS

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
THROUGH WASCO SUBSECTION
TRAFFIC CONTROL
MERCED AVE
PHASE 2

CONTRACT NO.
DRAWING NO. 2.04.01_19
SCALE AS SHOWN
SHEET NO. 19 OF 21

REV	DATE	BY	CHK	APP	DESCRIPTION

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CALIFORNIA HIGH-SPEED RAIL AUTHORITY

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FRESNO TO BAKERSFIELD
THROUGH WASCO SUBSECTION
TRAFFIC CONTROL
MERCED AVE
PHASE 3

CONTRACT NO.
DRAWING NO. 2.04.01_20
SCALE AS SHOWN
SHEET NO. 20 OF 21

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CALIFORNIA RAIL BUILDERS

CALIFORNIA HIGH-SPEED TRAIN PROJECT FRESNO TO BAKERSFIELD

THROUGH WASCO SUBSECTION
TRAFFIC CONTROL
MERCED AVE
PHASE 3

CONTRACT NO.
DRAWING NO. 2.04.01_21
SCALE AS SHOWN
SHEET NO. 21 OF 21

MAINTENANCE OF TRAFFIC

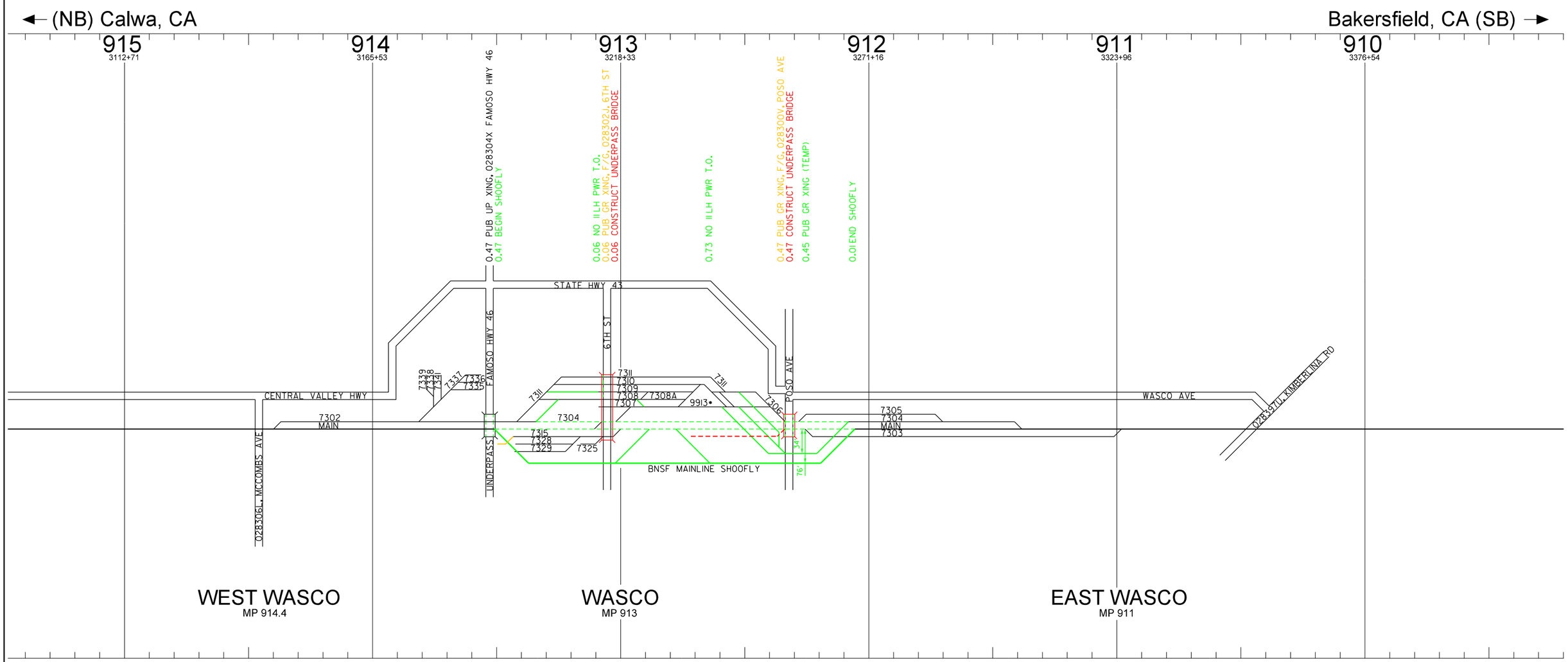
CONCEPTUAL TEMPORARY RAILROAD SHOOFLY

CALIFORNIA
HIGH-SPEED RAIL PROJECT

Design-Build Contract for
CONSTRUCTION PACKAGE 4

Proposal | RFP Number: HSR 14-32

CALIFORNIA RAIL BUILDERS



LEGEND:
- EXISTING TRACK
- CONSTRUCT
- FUTURE
- REMOVE
- RELOCATE FROM
- RELOCATE TO
- NEW ACCESS ROAD

SCOPE OF WORK:
REALIGN MAIN LINE AND LEAD TRACK 7304 VIA SHOOFLY.
INSTALL 7375 TF OF SHOOFLY
INSTALL 1NO.15 TURNOUT
INSTALL 2 NO.11 TURNOUTS
CONSTRUCT 2 BRIDGE UNDERPASSES
REMOVE 2 AT-GRADE XINGS

NOTES ON OPERATIONS:
TYPE OF OPERATION IS CTC
SIGNAL FACILITIES TO BE RELOCATED TO ACCOMODATE SHOOFLY TRACKS
REDUCE CLEAR LENGTH ON TRACKS 7303, 7304, AND 7305.

- PRELIMINARY -
SUBJECT TO RAILROAD / STAKEHOLDER REVIEW

BNSF RAILWAY

CALIFORNIA DIVISION
BAKERSFIELD SUBDIVISION
LINE SEGMENT 7200

REV	DATE	BY	CHK	APP	DESCRIPTION
00	10/29/15				CONCEPTUAL DESIGN - BID SUBMITTAL
01	11/04/15				DESIGN REVISIONS

DESIGNED BY
DRAWN BY
CHECKED BY
IN CHARGE
DATE

ONLY FOR BIDDING PURPOSES - NOT FOR CONSTRUCTION

CALIFORNIA High-Speed Rail Authority

CALIFORNIA RAIL BUILDERS

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD

CONCEPTUAL TEMPORARY RAILROAD SHOOFLY
WEST SHIFT OPTION SCHEMATIC - WASCO, CA
MP 908.6 TO 910.8

CONTRACT NO.
DRAWING NO.
SCALE N.T.S.

GENERAL NOTES

1. RIGHT-OF-WAY INFORMATION OBTAINED FROM KERN COUNTY GIS DATA, NO BOUNDARY SURVEY PERFORMED.
2. MAINLINE STATIONING OBTAINED FROM VALUATION MAPS AND TRACK CHARTS.
3. EXISTING TRACK ALIGNMENTS ESTABLISHED FROM AERIAL IMAGERY, NO GROUND SURVEY HAS BEEN PERFORMED.
4. ALL TURNOUTS SHOWN ARE MANUALLY OPERATED UNLESS OTHERWISE NOTED.
5. EXISTING UTILITIES ESTABLISHED FROM BNSF VALUATION MAPS 142805 AND 142806, NO UTILITY LOCATES HAVE BEEN PERFORMED.

CONSTRUCTION PHASING

- PHASE 1 BNSF/HST BRIDGE
- PHASE 2 BNSF BRIDGE

LEGEND

- CAHST TRACK
- EXISTING MAINLINE
- EXISTING YARD TRACK
- PROPOSED MAINLINE SHOOFLY
- PROPOSED YARD TRACK
- FUTURE ADDITIONAL BNSF TRACK
- TRACK TO BE DEMOLISHED

- PRELIMINARY -
SUBJECT TO RAILROAD / STAKEHOLDER REVIEW

50 0 50 100
SCALE: 1"=50'

REV	DATE	BY	CHK	APP	DESCRIPTION
00	10/29/15				CONCEPTUAL DESIGN - BID SUBMITTAL
01	11/04/15				DESIGN REVISIONS

DESIGNED BY B. ASH
DRAWN BY B. ASH
CHECKED BY J. MARSHALL
IN CHARGE J. MARSHALL
DATE 11/16/2015

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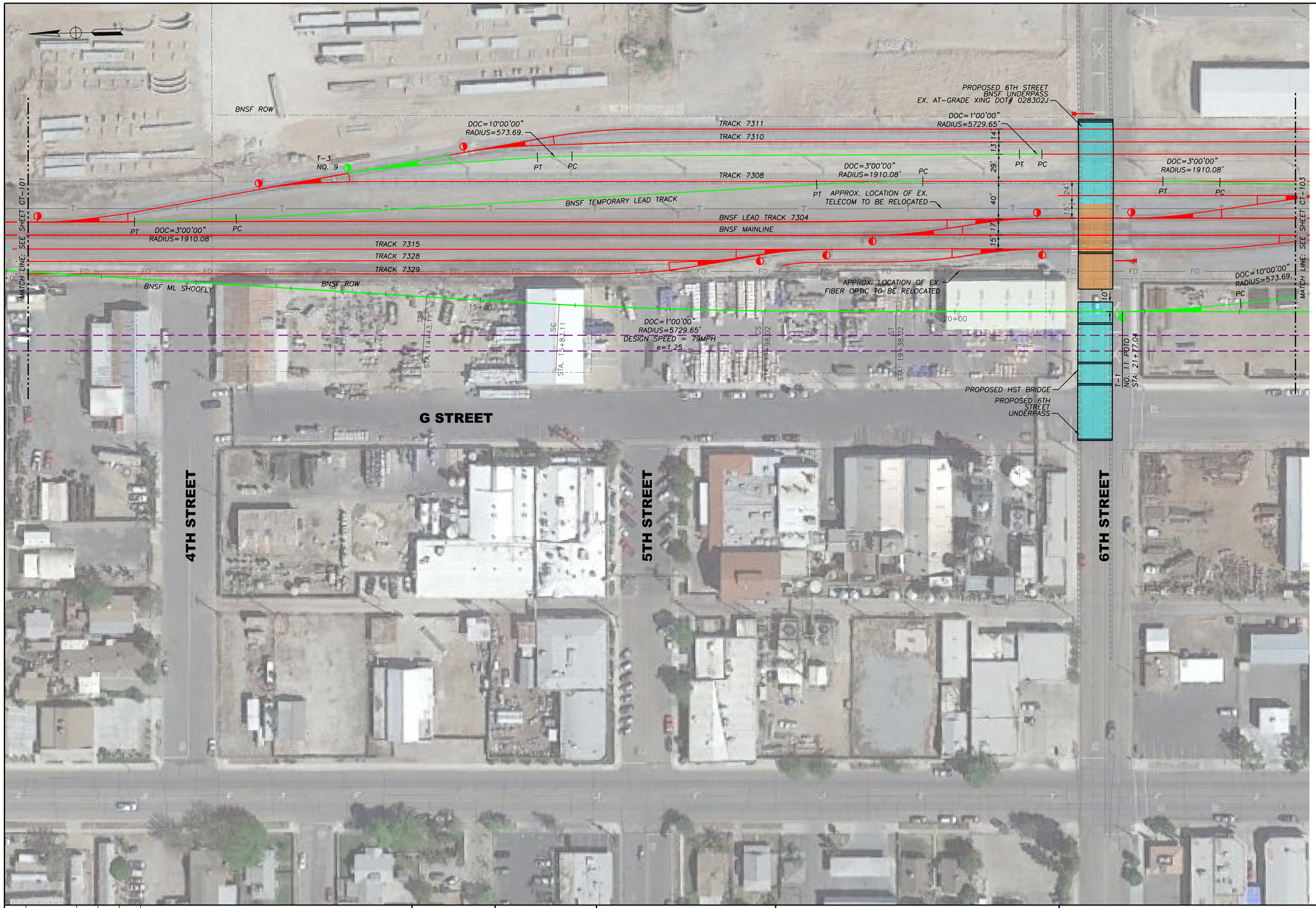
CALIFORNIA High-Speed Rail Authority

CALIFORNIA RAIL BUILDERS

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD

CONCEPTUAL TEMPORARY RAILROAD SHOOFLY
WEST SHIFT OPTION - WASCO, CA
TRACK PLAN SHEET 1

CONTRACT NO.
DRAWING NO. CT-101
SCALE AS SHOWN
SHEET NO. 1 OF 7



GENERAL NOTES

1. REFER TO SHEET CT-101 FOR GENERAL NOTES.

CONSTRUCTION PHASING

- PHASE 1 BNSF/HST BRIDGE
- PHASE 2 BNSF BRIDGE

LEGEND

- CAHST TRACK
- EXISTING MAINLINE
- EXISTING YARD TRACK
- PROPOSED MAINLINE SHOOFLY
- PROPOSED YARD TRACK
- FUTURE ADDITIONAL BNSF TRACK
- TRACK TO BE DEMOLISHED

- PRELIMINARY -
SUBJECT TO RAILROAD / STAKEHOLDER REVIEW

50 0 50 100
SCALE: 1"=50'

REV	DATE	BY	CHK	APP	DESCRIPTION
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01	11/04/15				DESIGN REVISIONS

DESIGNED BY B. ASH
DRAWN BY B. ASH
CHECKED BY J. MARSHALL
IN CHARGE J. MARSHALL
DATE 11/16/2015

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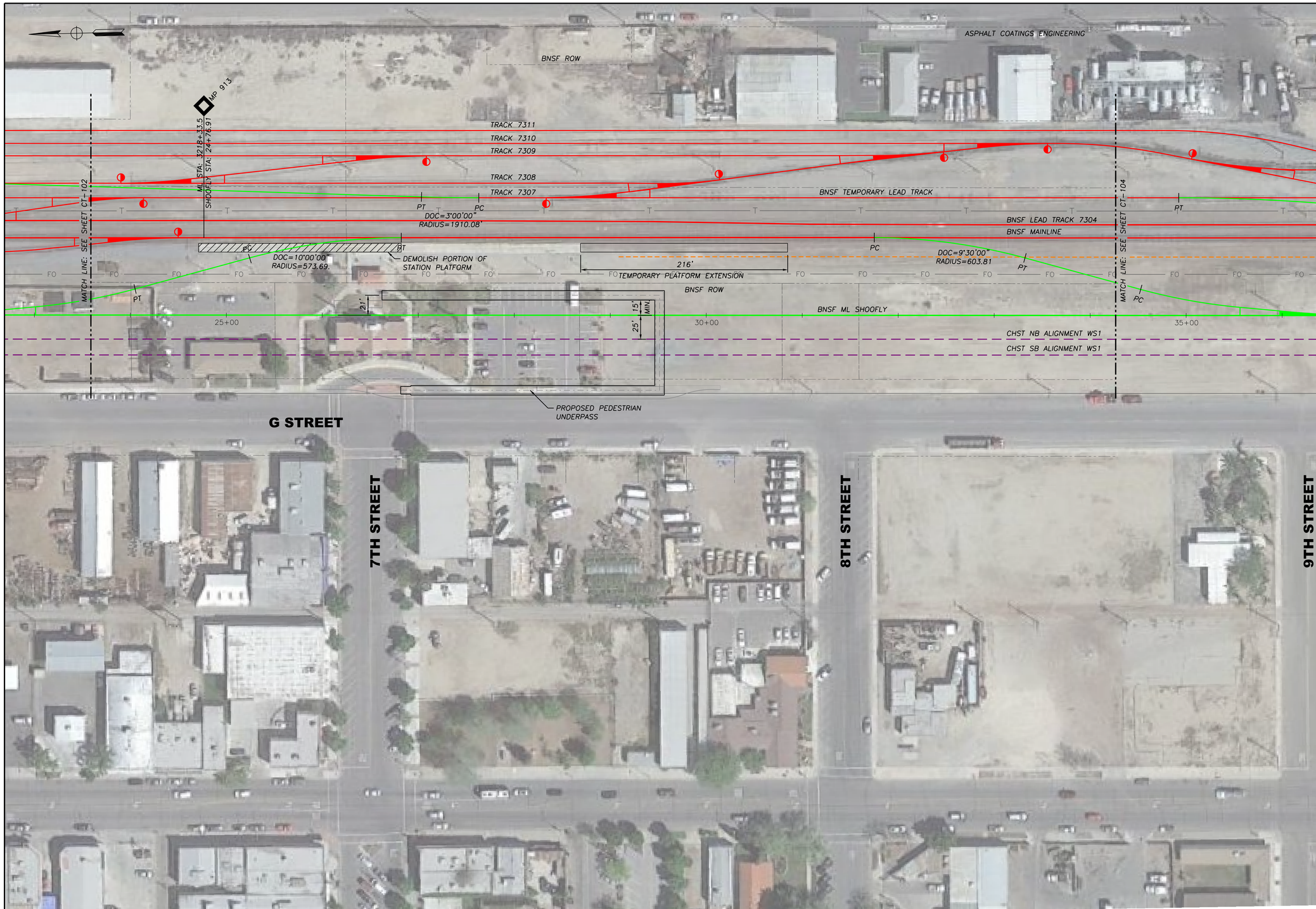
CALIFORNIA High-Speed Rail Authority

CALIFORNIA RAIL BUILDERS

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD

CONCEPTUAL TEMPORARY RAILROAD SHOOFLY
WEST SHIFT OPTION - WASCO, CA
TRACK PLAN SHEET 2

CONTRACT NO.
DRAWING NO. CT-102
SCALE AS SHOWN
SHEET NO. 2 OF 7



GENERAL NOTES

1. REFER TO SHEET CT-101 FOR GENERAL NOTES.

CONSTRUCTION PHASING

- PHASE 1 BNSF/HST BRIDGE
- PHASE 2 BNSF BRIDGE

LEGEND

- CAHST TRACK
- EXISTING MAINLINE
- EXISTING YARD TRACK
- PROPOSED MAINLINE SHOOFLY
- PROPOSED YARD TRACK
- FUTURE ADDITIONAL BNSF TRACK
- TRACK TO BE DEMOLISHED

- PRELIMINARY -
SUBJECT TO RAILROAD / STAKEHOLDER REVIEW

50 0 50 100
SCALE: 1"=50'

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01	11/04/15				DESIGN REVISIONS

DESIGNED BY B. ASH
DRAWN BY B. ASH
CHECKED BY J. MARSHALL
IN CHARGE J. MARSHALL
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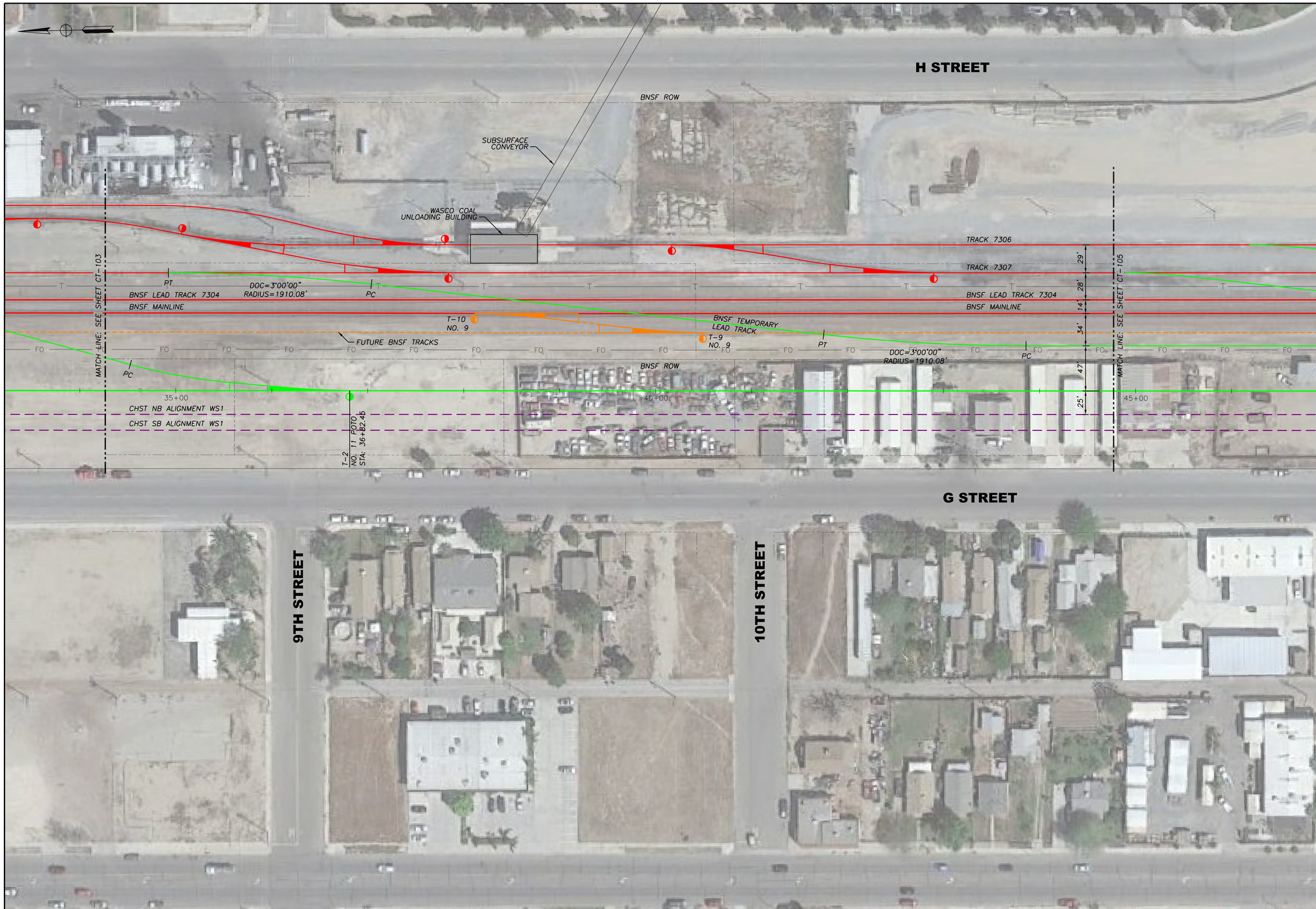
CALIFORNIA High-Speed Rail Authority

CALIFORNIA RAIL BUILDERS

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD

CONCEPTUAL TEMPORARY RAILROAD SHOOFLY
WEST SHIFT OPTION - WASCO, CA
TRACK PLAN SHEET 3

CONTRACT NO.
DRAWING NO. CT-103
SCALE AS SHOWN
SHEET NO. 3 OF 7



GENERAL NOTES

1. REFER TO SHEET CT-101 FOR GENERAL NOTES.

CONSTRUCTION PHASING

- PHASE 1 BNSF/HST BRIDGE
- PHASE 2 BNSF BRIDGE

LEGEND

- CAHST TRACK
- EXISTING MAINLINE
- EXISTING YARD TRACK
- PROPOSED MAINLINE SHOOFLY
- PROPOSED YARD TRACK
- FUTURE ADDITIONAL BNSF TRACK
- TRACK TO BE DEMOLISHED

- PRELIMINARY -
SUBJECT TO RAILROAD / STAKEHOLDER REVIEW

50 0 50 100
SCALE: 1"=50'

REV	DATE	BY	CHK	APP	DESCRIPTION
00	10/29/15				CONCEPTUAL DESIGN - BID SUBMITTAL
01	11/04/15				DESIGN REVISIONS

DESIGNED BY B. ASH
DRAWN BY B. ASH
CHECKED BY J. MARSHALL
IN CHARGE J. MARSHALL
DATE 11/16/2015

ONLY FOR BIDDING PURPOSES - NOT FOR CONSTRUCTION

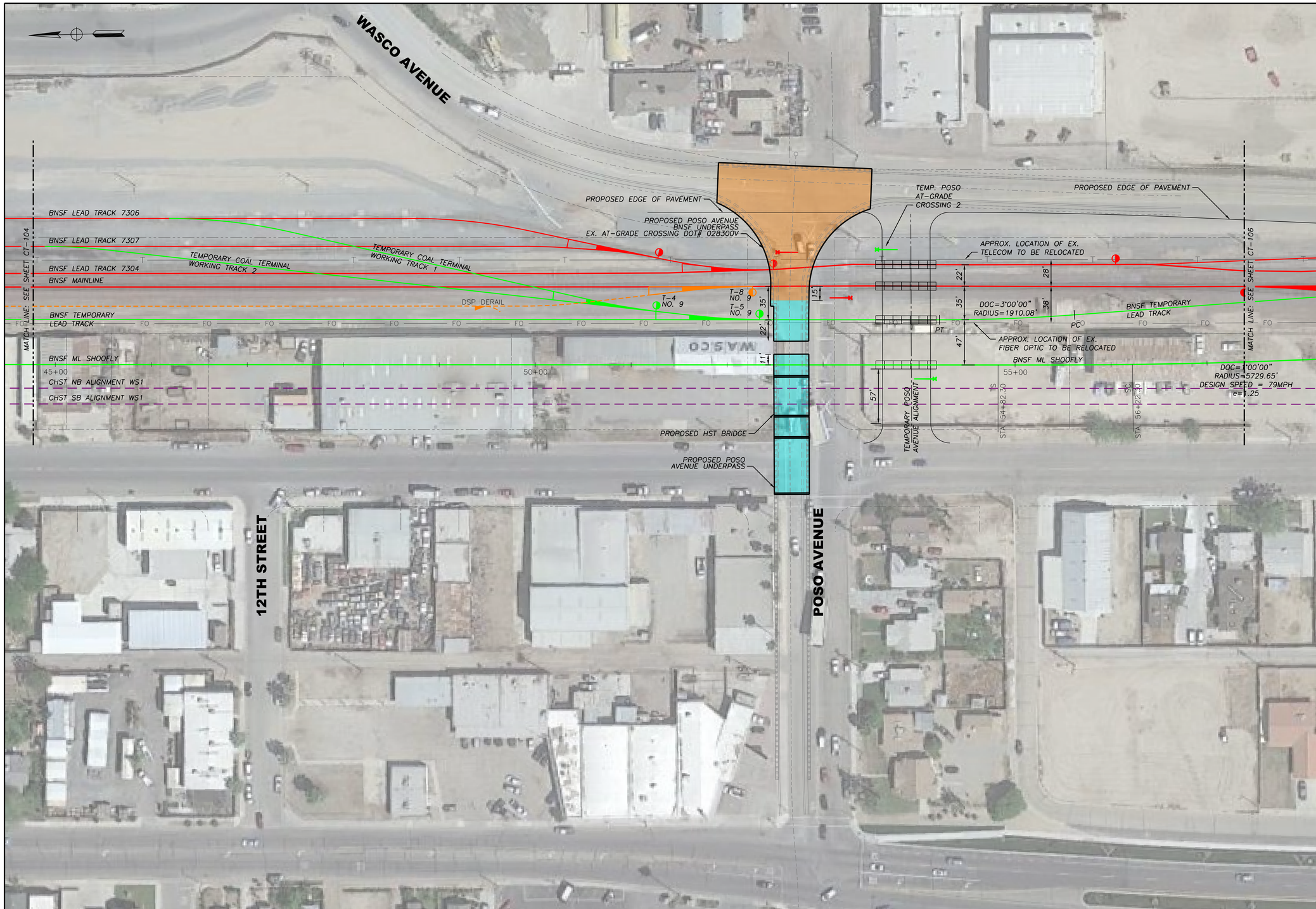
CALIFORNIA High-Speed Rail Authority

CALIFORNIA RAIL BUILDERS

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD

CONCEPTUAL TEMPORARY RAILROAD SHOOFLY
WEST SHIFT OPTION - WASCO, CA
TRACK PLAN SHEET 4

CONTRACT NO.
DRAWING NO. CT-104
SCALE AS SHOWN
SHEET NO. 4 OF 7



GENERAL NOTES

1. REFER TO SHEET CT-101 FOR GENERAL NOTES.

CONSTRUCTION PHASING

- PHASE 1 BNSF/HST BRIDGE
- PHASE 2 BNSF BRIDGE

LEGEND

- CAHST TRACK
- EXISTING MAINLINE
- EXISTING YARD TRACK
- PROPOSED MAINLINE SHOOFLY
- PROPOSED YARD TRACK
- FUTURE ADDITIONAL BNSF TRACK
- TRACK TO BE DEMOLISHED

- PRELIMINARY -
SUBJECT TO RAILROAD / STAKEHOLDER REVIEW

50 0 50 100
SCALE: 1"=50'

REV	DATE	BY	CHK	APP	DESCRIPTION
00	10/29/15				CONCEPTUAL DESIGN - BID SUBMITTAL
01	11/04/15				DESIGN REVISIONS

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IN CHARGE J. MARSHALL
DATE 11/16/2015

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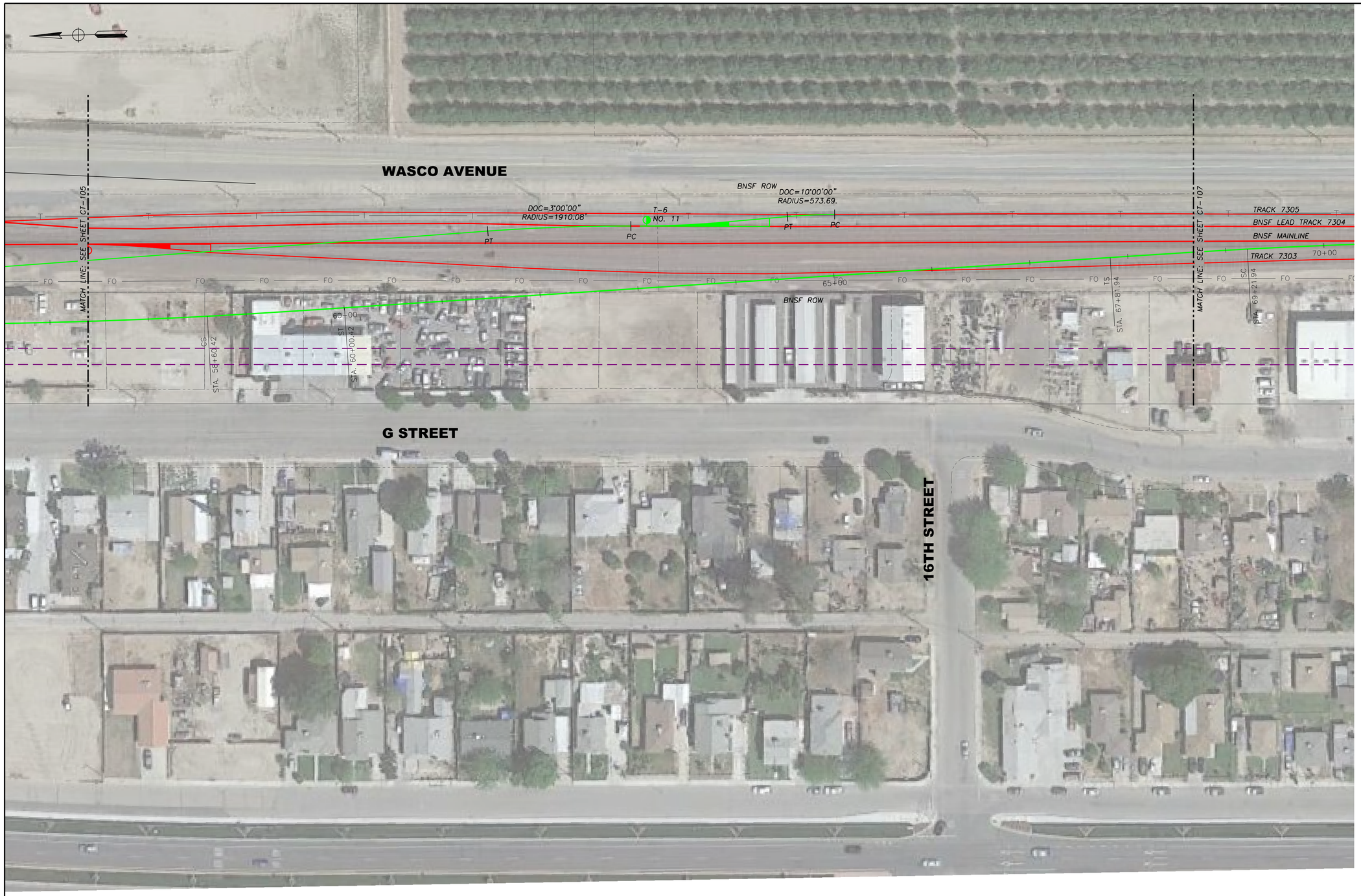
CALIFORNIA High-Speed Rail Authority

CALIFORNIA RAIL BUILDERS

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD

CONCEPTUAL TEMPORARY RAILROAD SHOOFLY
WEST SHIFT OPTION - WASCO, CA
TRACK PLAN SHEET 5

CONTRACT NO.
DRAWING NO. CT-105
SCALE AS SHOWN
SHEET NO. 5 OF 7



GENERAL NOTES

1. REFER TO SHEET CT-101 FOR GENERAL NOTES.

CONSTRUCTION PHASING

- PHASE 1 BNSF/HST BRIDGE
- PHASE 2 BNSF BRIDGE

LEGEND

- CAHST TRACK
- EXISTING MAINLINE
- EXISTING YARD TRACK
- PROPOSED MAINLINE SHOOFLY
- PROPOSED YARD TRACK
- FUTURE ADDITIONAL BNSF TRACK
- TRACK TO BE DEMOLISHED

- PRELIMINARY -
SUBJECT TO RAILROAD / STAKEHOLDER REVIEW

50 0 50 100
SCALE: 1"=50'

REV	DATE	BY	CHK	APP	DESCRIPTION
00	10/29/15				CONCEPTUAL DESIGN - BID SUBMITTAL
01	11/04/15				DESIGN REVISIONS

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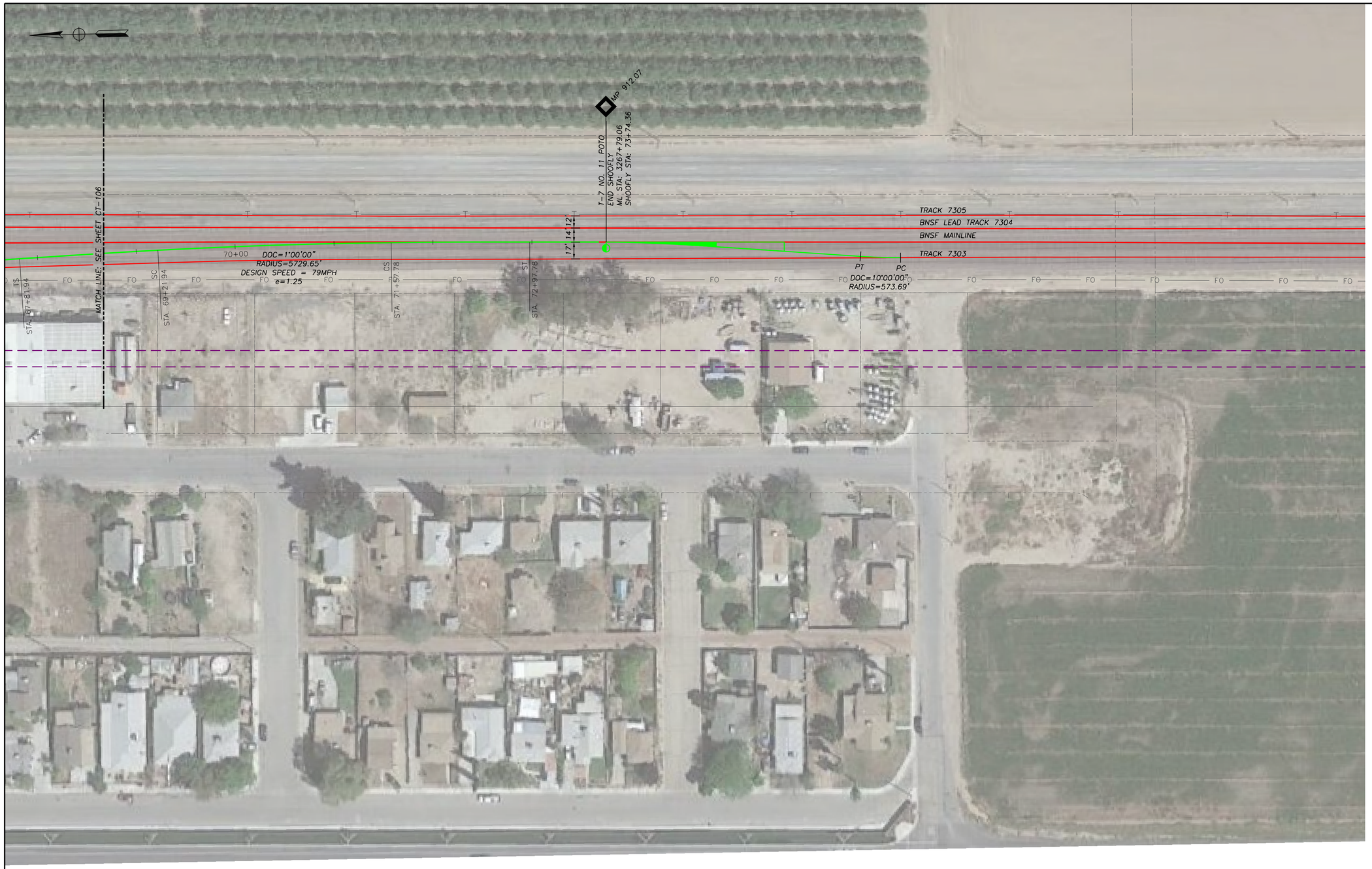
CALIFORNIA High-Speed Rail Authority

CALIFORNIA RAIL BUILDERS

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD

CONCEPTUAL TEMPORARY RAILROAD SHOOFLY
WEST SHIFT OPTION - WASCO, CA
TRACK PLAN SHEET 6

CONTRACT NO.
DRAWING NO. CT-106
SCALE AS SHOWN
SHEET NO. 6 OF 7



GENERAL NOTES

1. REFER TO SHEET CT-101 FOR GENERAL NOTES.

CONSTRUCTION PHASING

- PHASE 1 BNSF/HST BRIDGE
- PHASE 2 BNSF BRIDGE

LEGEND

- CAHST TRACK
- EXISTING MAINLINE
- EXISTING YARD TRACK
- PROPOSED MAINLINE SHOOFLY
- PROPOSED YARD TRACK
- FUTURE ADDITIONAL BNSF TRACK
- TRACK TO BE DEMOLISHED

- PRELIMINARY -
SUBJECT TO RAILROAD / STAKEHOLDER REVIEW

50 0 50 100
SCALE: 1"=50'

REV	DATE	BY	CHK	APP	DESCRIPTION
00	10/29/15				CONCEPTUAL DESIGN - BID SUBMITTAL
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CALIFORNIA High-Speed Rail Authority

CALIFORNIA RAIL BUILDERS

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD

CONCEPTUAL TEMPORARY RAILROAD SHOOFLY
WEST SHIFT OPTION - WASCO, CA
TRACK PLAN SHEET 7

CONTRACT NO.
DRAWING NO. CT-107
SCALE AS SHOWN
SHEET NO. 7 OF 7

UTILITIES

UTILITIES

CALIFORNIA
HIGH-SPEED RAIL PROJECT

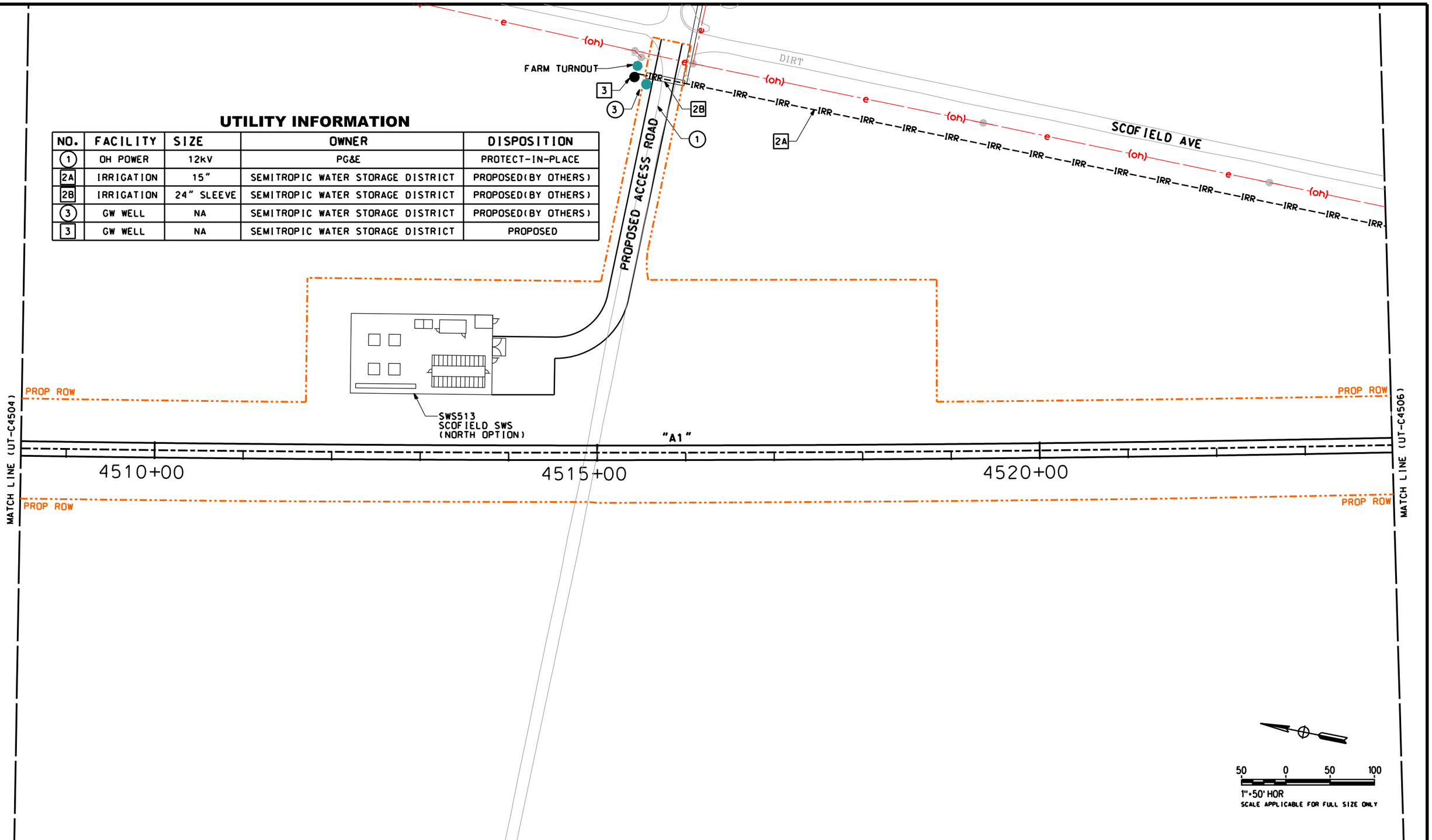
Design-Build Contract for
CONSTRUCTION PACKAGE 4

Proposals | RFP Number: HSR 14-32

CALIFORNIA RAIL BUILDERS

UTILITY INFORMATION

NO.	FACILITY	SIZE	OWNER	DISPOSITION
1	OH POWER	12kV	PG&E	PROTECT-IN-PLACE
2A	IRRIGATION	15"	SEMITROPIC WATER STORAGE DISTRICT	PROPOSED(BY OTHERS)
2B	IRRIGATION	24" SLEEVE	SEMITROPIC WATER STORAGE DISTRICT	PROPOSED(BY OTHERS)
3	GW WELL	NA	SEMITROPIC WATER STORAGE DISTRICT	PROPOSED(BY OTHERS)
3	GW WELL	NA	SEMITROPIC WATER STORAGE DISTRICT	PROPOSED



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY T. RAMIL
DRAWN BY V. ORTEGA
CHECKED BY T. GRAU
IN CHARGE S. BURGES
DATE 09/30/14

PROPOSED PRELIMINARY DESIGN

NOT FOR CONSTRUCTION

MARRS

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

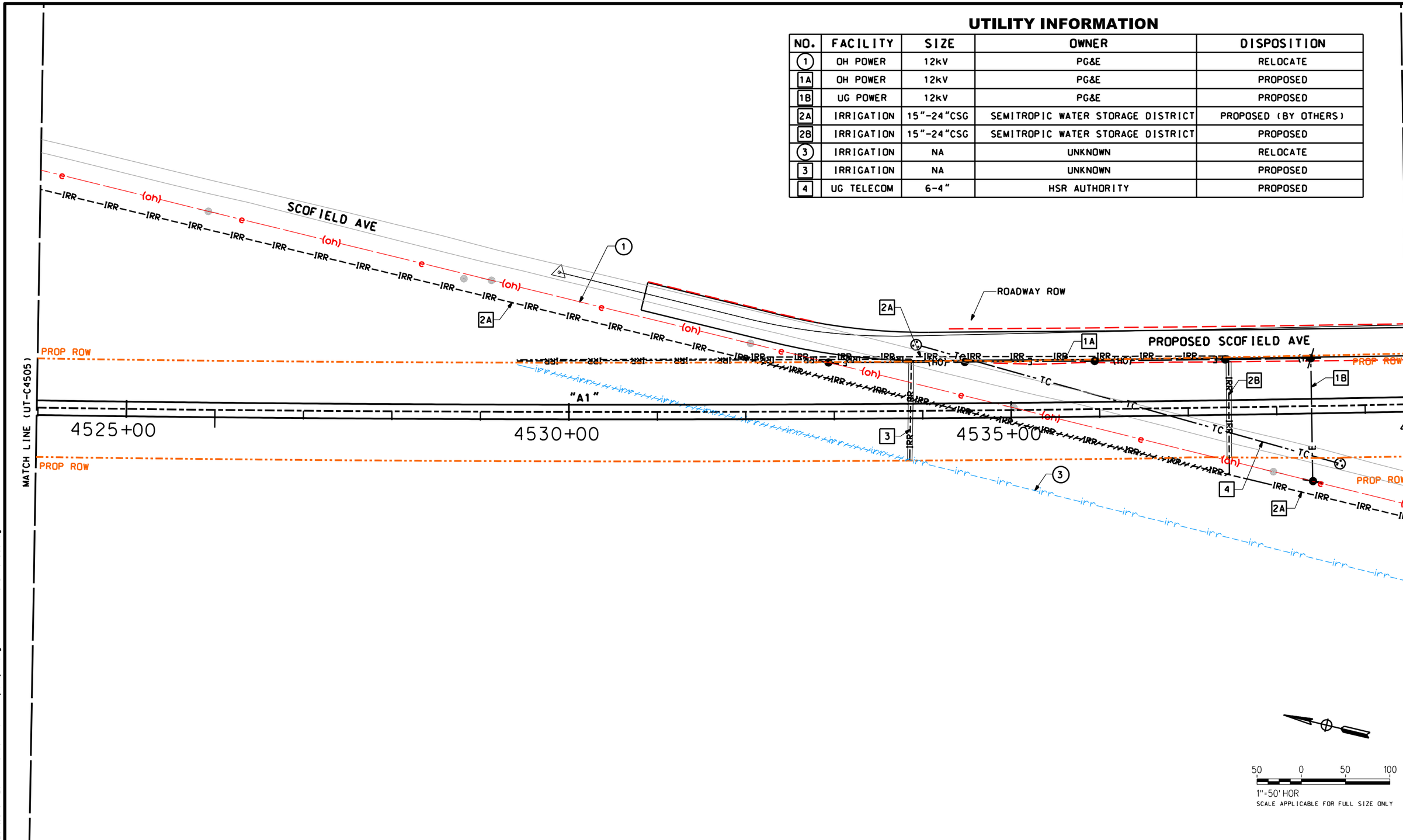
CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
PACKAGE 4 - ALIGNMENT A1
UTILITIES
COMPOSITE UTILITY PLAN
STA 4508+50 TO 4524+00

CONTRACT NO. HSR 06-0003
DRAWING NO. UT-C4505
SCALE AS SHOWN
SHEET NO. 14 OF 163

Sylvie 11/20/2015 03:57:19 PM stcol.tbl pdf.pltcfg S-UT-C4505.dgn

UTILITY INFORMATION

NO.	FACILITY	SIZE	OWNER	DISPOSITION
1	OH POWER	12kV	PG&E	RELOCATE
1A	OH POWER	12kV	PG&E	PROPOSED
1B	UG POWER	12kV	PG&E	PROPOSED
2A	IRRIGATION	15"-24"CSG	SEMITROPIC WATER STORAGE DISTRICT	PROPOSED (BY OTHERS)
2B	IRRIGATION	15"-24"CSG	SEMITROPIC WATER STORAGE DISTRICT	PROPOSED
3	IRRIGATION	NA	UNKNOWN	RELOCATE
3	IRRIGATION	NA	UNKNOWN	PROPOSED
4	UG TELECOM	6-4"	HSR AUTHORITY	PROPOSED



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY T. RAMIL
DRAWN BY V. ORTEGA
CHECKED BY T. GRAU
IN CHARGE S. BURGES
DATE 09/30/14

PROPOSED PRELIMINARY DESIGN

NOT FOR CONSTRUCTION

MARRS

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

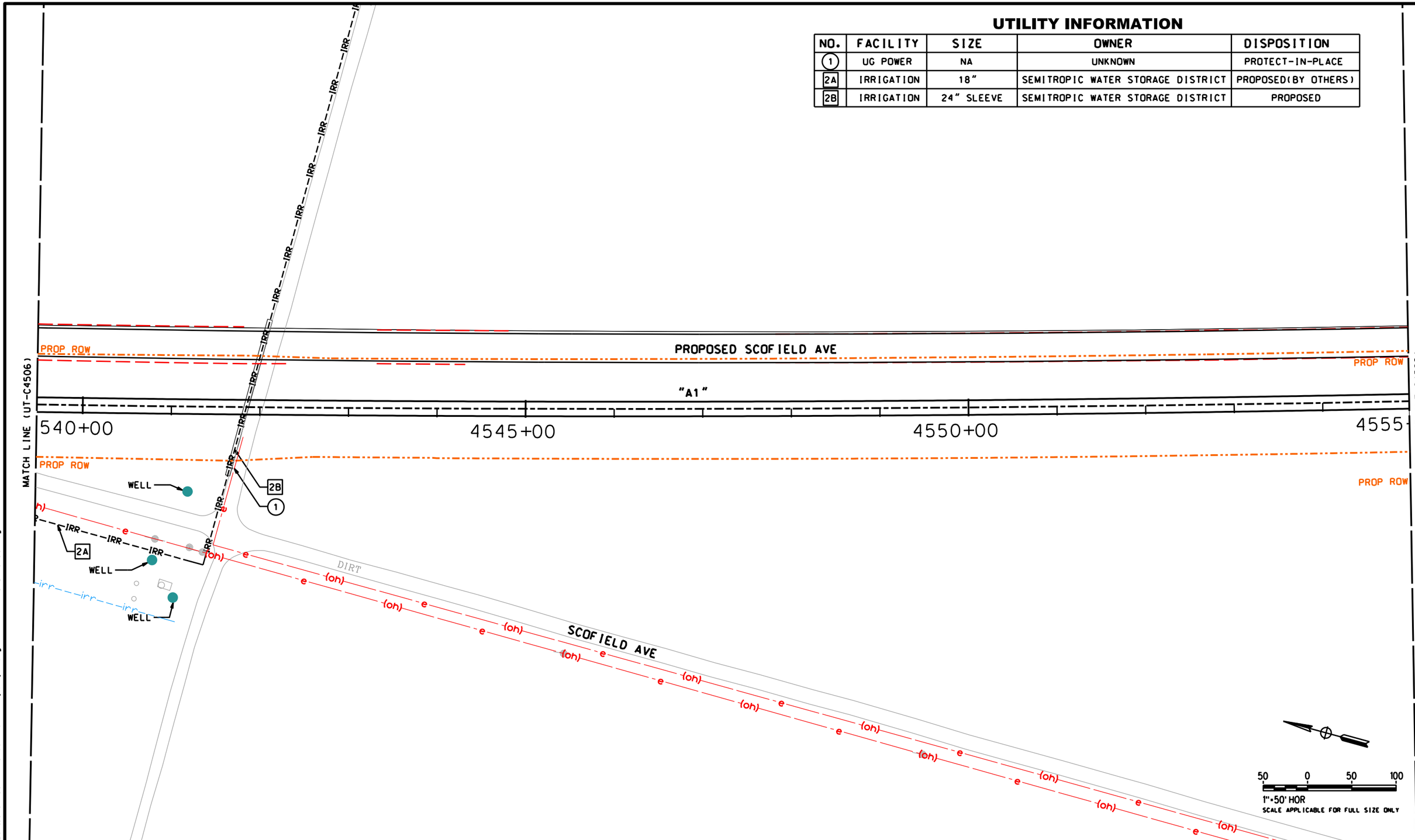
CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
PACKAGE 4 - ALIGNMENT A1
UTILITIES
COMPOSITE UTILITY PLAN
STA 4524+00 TO 4539+50

CONTRACT NO. HSR 06-0003
DRAWING NO. UT-C4506
SCALE AS SHOWN
SHEET NO. 15 OF 163

S-UT-C4506.dgn pdf.pltcfg stcol.tbl 11/20/2015 03:57:26 PM Sylvie

UTILITY INFORMATION

NO.	FACILITY	SIZE	OWNER	DISPOSITION
1	UG POWER	NA	UNKNOWN	PROTECT-IN-PLACE
2A	IRRIGATION	18"	SEMITROPIC WATER STORAGE DISTRICT	PROPOSED(BY OTHERS)
2B	IRRIGATION	24" SLEEVE	SEMITROPIC WATER STORAGE DISTRICT	PROPOSED



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY T. RAMIL
DRAWN BY V. ORTEGA
CHECKED BY T. GRAU
IN CHARGE S. BURGES
DATE 09/30/14

PROPOSED PRELIMINARY DESIGN

NOT FOR CONSTRUCTION

MARRS

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

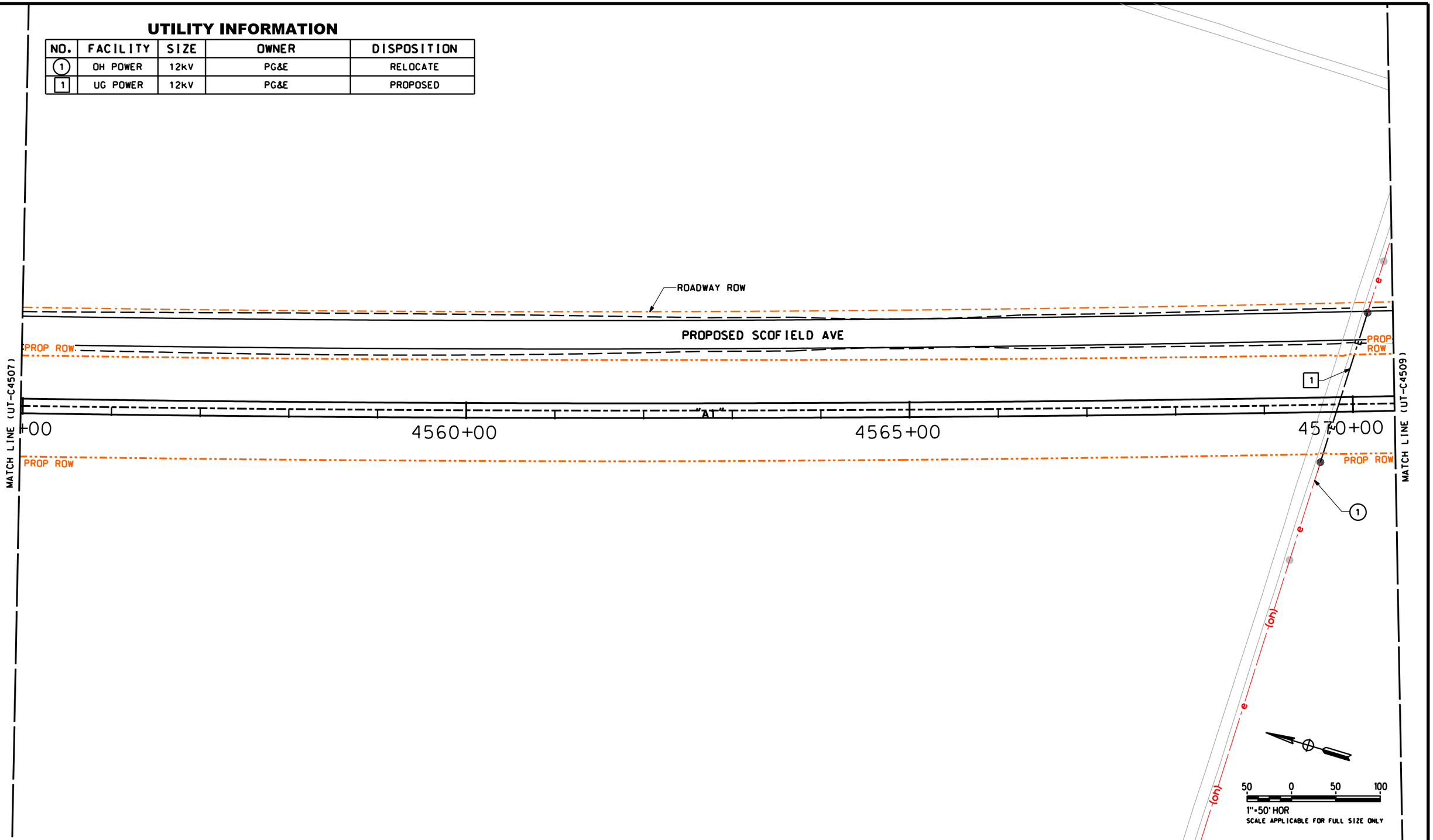
CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
PACKAGE 4 - ALIGNMENT A1
UTILITIES
COMPOSITE UTILITY PLAN
STA 4539+50 TO 4555+00

CONTRACT NO. HSR 06-0003
DRAWING NO. UT-C4507
SCALE AS SHOWN
SHEET NO. 16 OF 163

S-UT-C4507.dgn pdf.pltcfg stcol.tbl 11/20/2013 03:57:30 PM Sylvie

UTILITY INFORMATION

NO.	FACILITY	SIZE	OWNER	DISPOSITION
1	OH POWER	12kV	PG&E	RELOCATE
[1]	UG POWER	12kV	PG&E	PROPOSED



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY T. RAMIL
DRAWN BY V. ORTEGA
CHECKED BY T. GRAU
IN CHARGE S. BURGES
DATE 09/30/14

PROPOSED PRELIMINARY DESIGN

NOT FOR CONSTRUCTION

MARRS

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

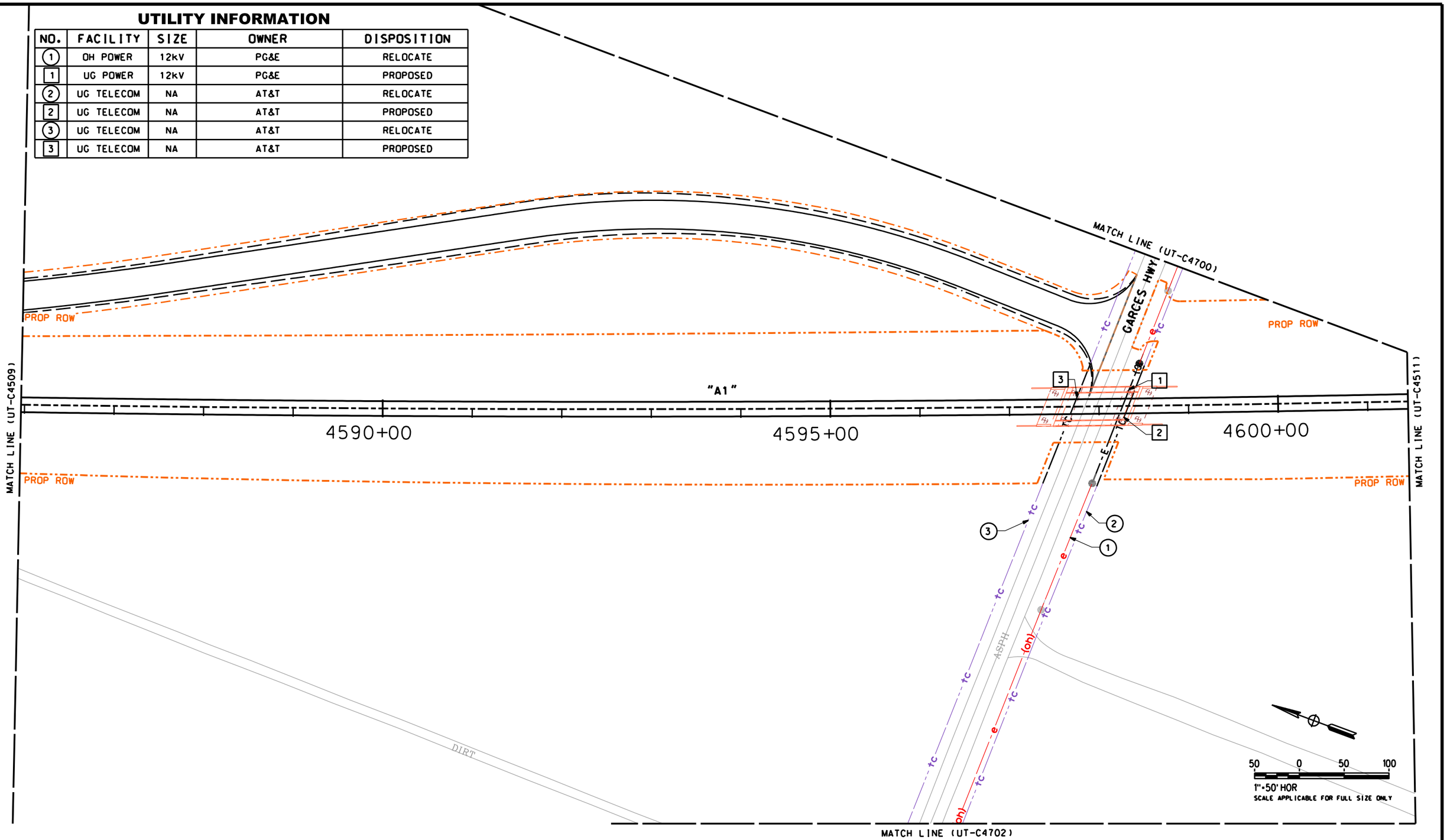
CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
PACKAGE 4 - ALIGNMENT A1
UTILITIES
COMPOSITE UTILITY PLAN
STA 4555+00 TO 4570+50

CONTRACT NO. HSR 06-0003
DRAWING NO. UT-C4508
SCALE AS SHOWN
SHEET NO. 17 OF 163

Sylvie 11/20/2015 03:57:32 PM stcol.tbl pdf.pltcfg S-UT-C4508.dgn

UTILITY INFORMATION

NO.	FACILITY	SIZE	OWNER	DISPOSITION
(1)	OH POWER	12kV	PG&E	RELOCATE
[1]	UG POWER	12kV	PG&E	PROPOSED
(2)	UG TELECOM	NA	AT&T	RELOCATE
[2]	UG TELECOM	NA	AT&T	PROPOSED
(3)	UG TELECOM	NA	AT&T	RELOCATE
[3]	UG TELECOM	NA	AT&T	PROPOSED



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY T. RAMIL
DRAWN BY V. ORTEGA
CHECKED BY T. GRAU
IN CHARGE S. BURGES
DATE 09/30/14

PROPOSED PRELIMINARY DESIGN

NOT FOR CONSTRUCTION

MARRS

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

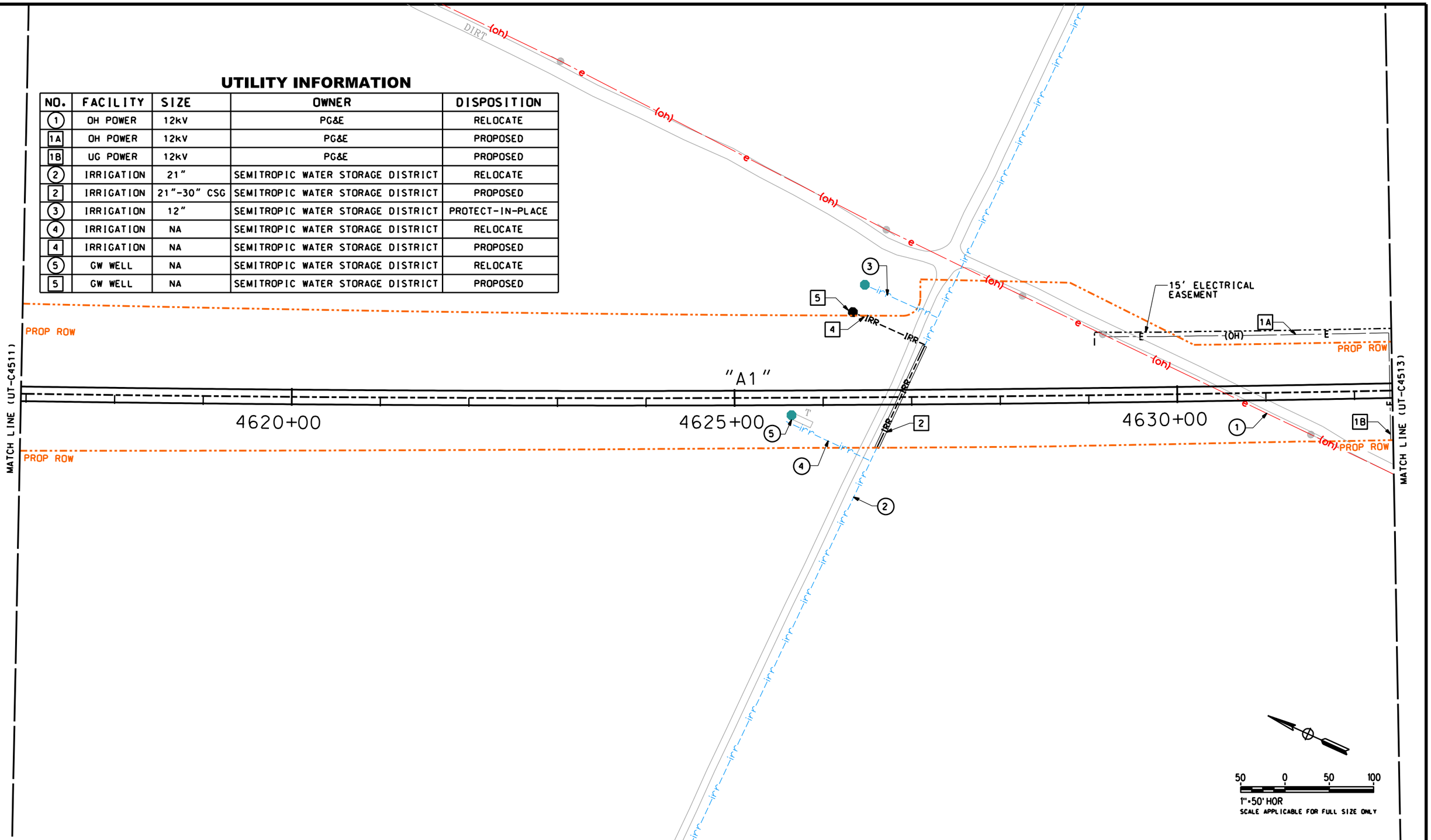
CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
PACKAGE 4 - ALIGNMENT A1
UTILITIES
COMPOSITE UTILITY PLAN
STA 4586+00 TO 4601+50

CONTRACT NO. HSR 06-0003
DRAWING NO. UT-C4510
SCALE AS SHOWN
SHEET NO. 19 OF 163

Sylvie 11/20/2015 03:57:34 PM stcol.tbl pdf.pltcfg S-UT-C4510.dgn

UTILITY INFORMATION

NO.	FACILITY	SIZE	OWNER	DISPOSITION
1	OH POWER	12kV	PG&E	RELOCATE
1A	OH POWER	12kV	PG&E	PROPOSED
1B	UG POWER	12kV	PG&E	PROPOSED
2	IRRIGATION	21"	SEMITROPIC WATER STORAGE DISTRICT	RELOCATE
2	IRRIGATION	21"-30" CSG	SEMITROPIC WATER STORAGE DISTRICT	PROPOSED
3	IRRIGATION	12"	SEMITROPIC WATER STORAGE DISTRICT	PROTECT-IN-PLACE
4	IRRIGATION	NA	SEMITROPIC WATER STORAGE DISTRICT	RELOCATE
4	IRRIGATION	NA	SEMITROPIC WATER STORAGE DISTRICT	PROPOSED
5	GW WELL	NA	SEMITROPIC WATER STORAGE DISTRICT	RELOCATE
5	GW WELL	NA	SEMITROPIC WATER STORAGE DISTRICT	PROPOSED



REV	DATE	BY	CHK	APP	DESCRIPTION

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DRAWN BY V. ORTEGA
CHECKED BY T. GRAU
IN CHARGE S. BURGES
DATE 09/30/14

PROPOSED PRELIMINARY DESIGN

NOT FOR CONSTRUCTION

MARRS

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

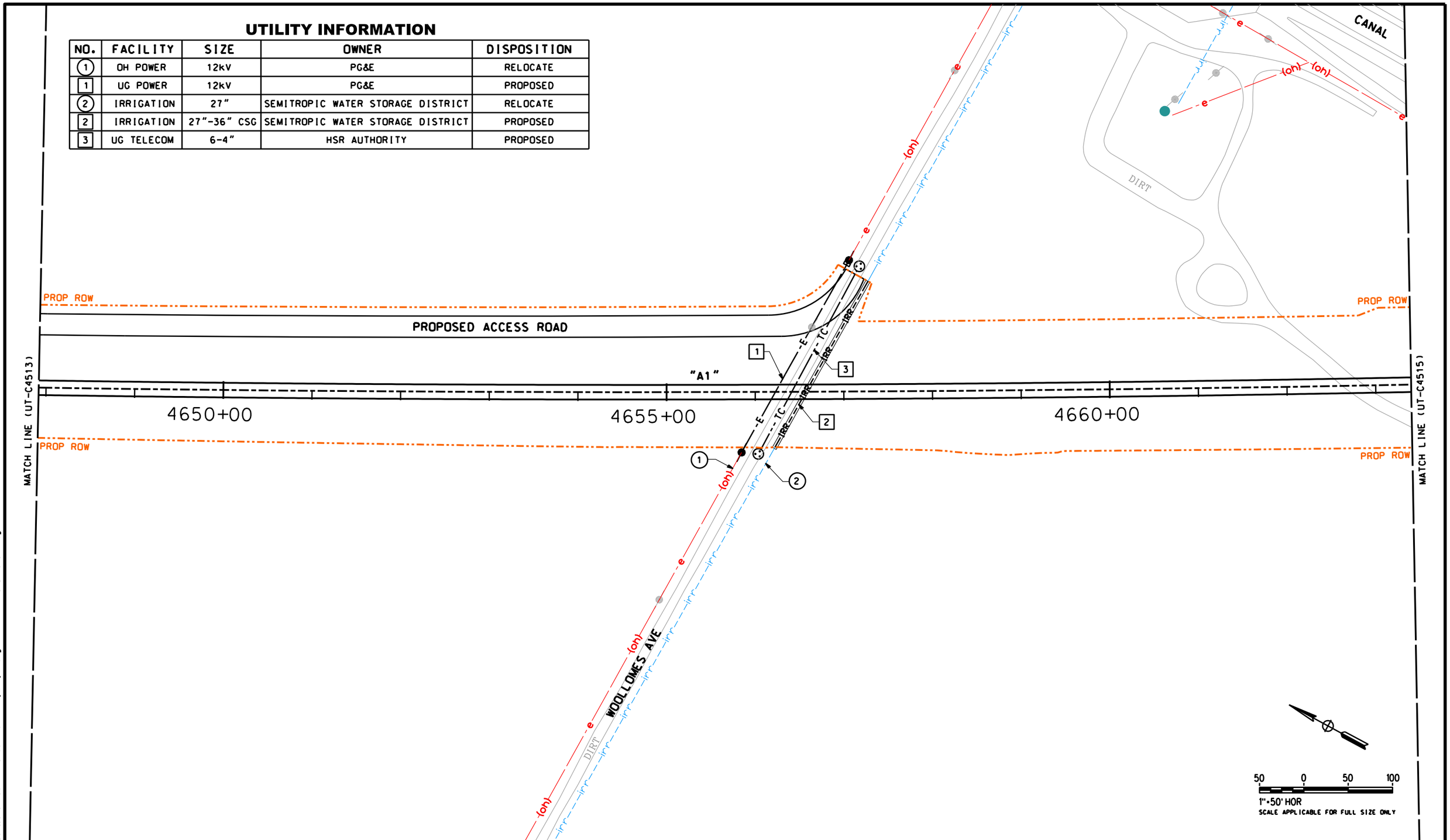
CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
PACKAGE 4 - ALIGNMENT A1
UTILITIES
COMPOSITE UTILITY PLAN
STA 4617+00 TO 4632+50

CONTRACT NO. HSR 06-0003
DRAWING NO. UT-C4512
SCALE AS SHOWN
SHEET NO. 21 OF 163

Sylvie 11/20/2015 03:57:35 PM stcol.tbl pdf.pltcfg S-UT-C4512.dgn

UTILITY INFORMATION

NO.	FACILITY	SIZE	OWNER	DISPOSITION
(1)	OH POWER	12kV	PG&E	RELOCATE
[1]	UG POWER	12kV	PG&E	PROPOSED
(2)	IRRIGATION	27"	SEMITROPIC WATER STORAGE DISTRICT	RELOCATE
[2]	IRRIGATION	27"-36" CSG	SEMITROPIC WATER STORAGE DISTRICT	PROPOSED
[3]	UG TELECOM	6-4"	HSR AUTHORITY	PROPOSED



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CHECKED BY T. GRAU
IN CHARGE S. BURGES
DATE 09/30/14

PROPOSED PRELIMINARY DESIGN

NOT FOR CONSTRUCTION

MARRS

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
PACKAGE 4 - ALIGNMENT A1
UTILITIES
COMPOSITE UTILITY PLAN
STA 4648+00 TO 4663+50

CONTRACT NO. HSR 06-0003
DRAWING NO. UT-C4514
SCALE AS SHOWN
SHEET NO. 23 OF 163

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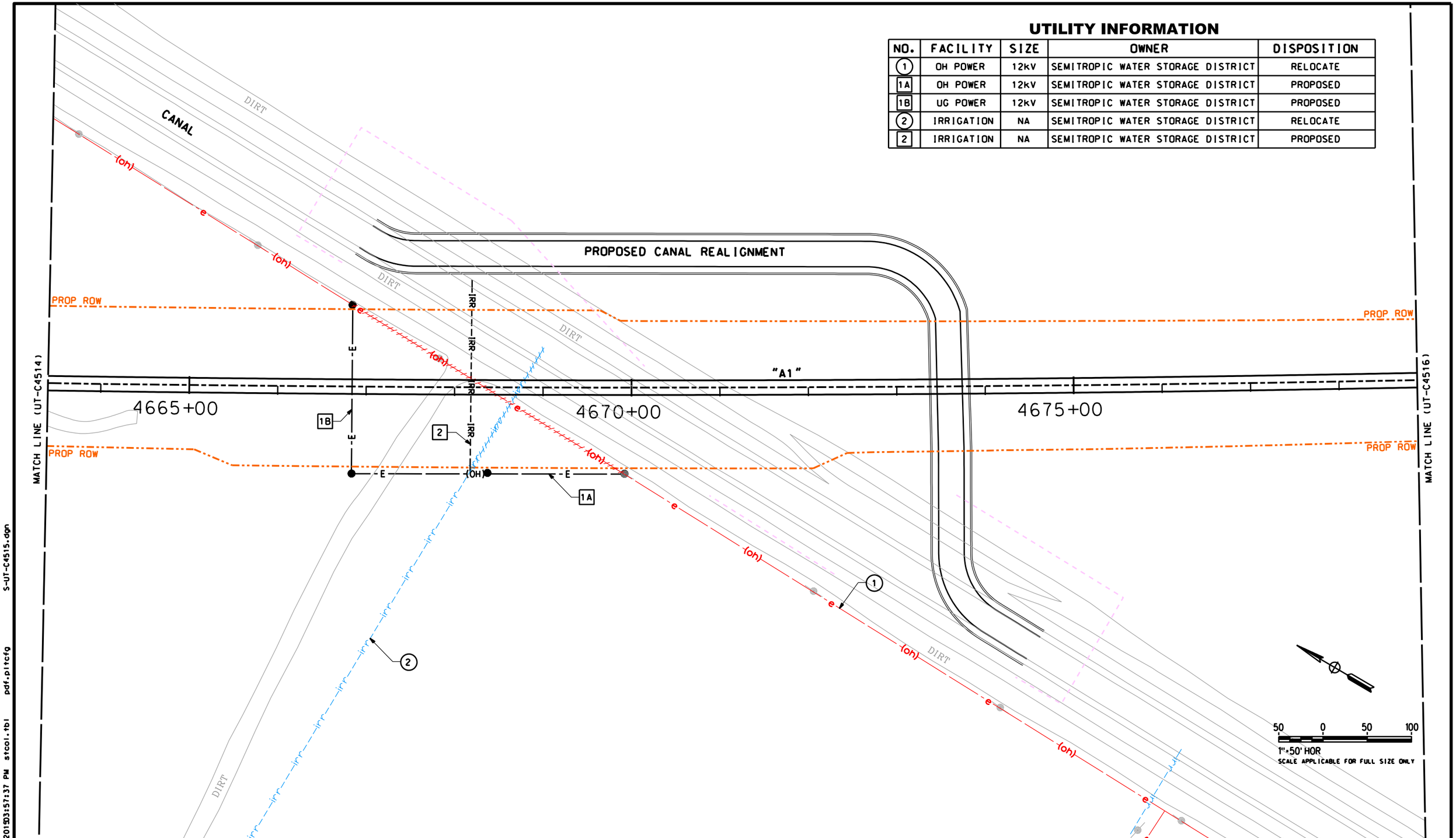
UTILITY INFORMATION

NO.	FACILITY	SIZE	OWNER	DISPOSITION
1	OH POWER	12kV	SEMITROPIC WATER STORAGE DISTRICT	RELOCATE
1A	OH POWER	12kV	SEMITROPIC WATER STORAGE DISTRICT	PROPOSED
1B	UG POWER	12kV	SEMITROPIC WATER STORAGE DISTRICT	PROPOSED
2	IRRIGATION	NA	SEMITROPIC WATER STORAGE DISTRICT	RELOCATE
2	IRRIGATION	NA	SEMITROPIC WATER STORAGE DISTRICT	PROPOSED



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY T. RAMIL
DRAWN BY V. ORTEGA
CHECKED BY T. GRAU
IN CHARGE S. BURGES
DATE 09/30/14

PROPOSED PRELIMINARY DESIGN

NOT FOR CONSTRUCTION

MARRS

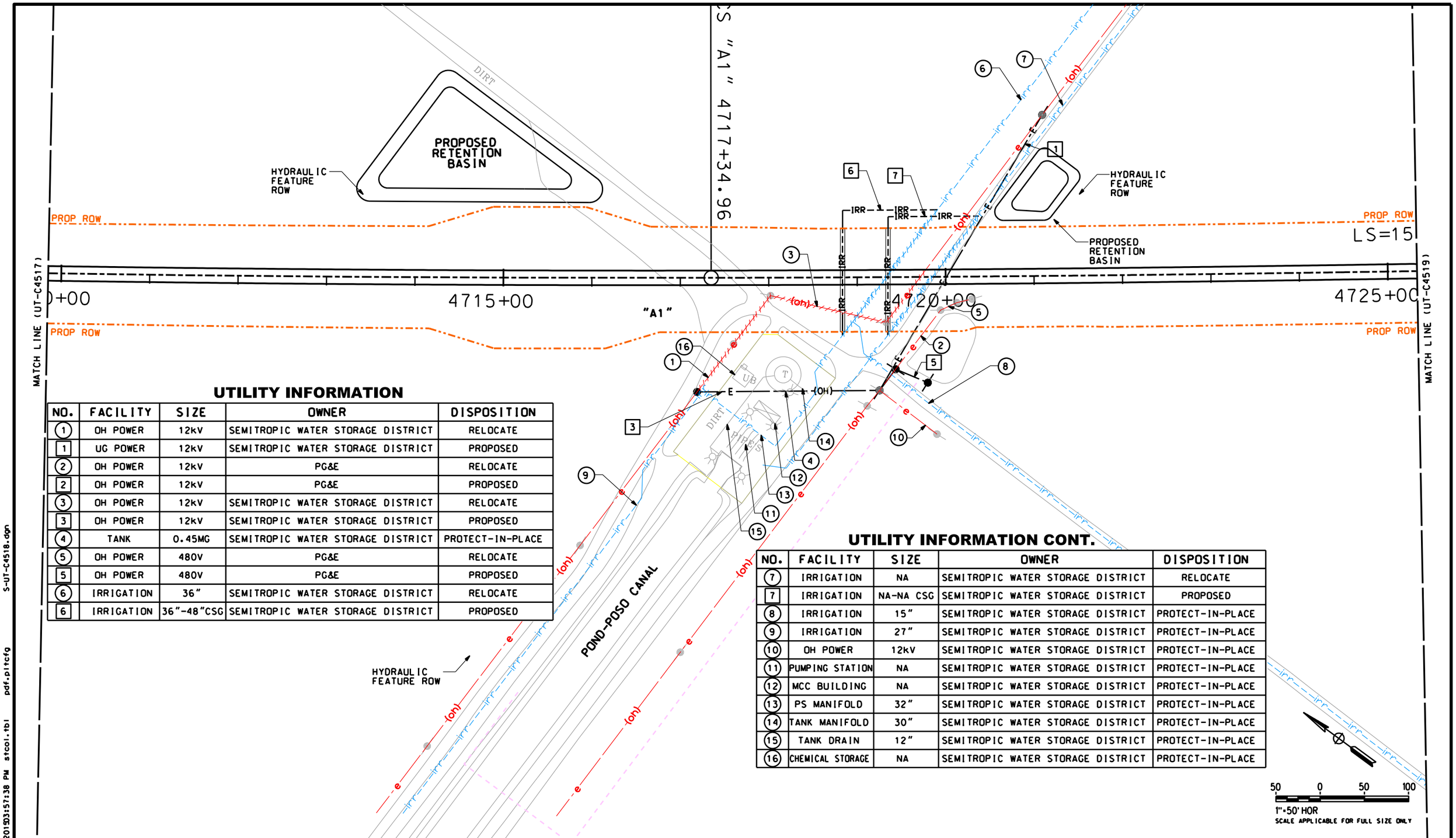
CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD

PACKAGE 4 - ALIGNMENT A1
UTILITIES
COMPOSITE UTILITY PLAN
STA 4663+50 TO 4679+00

CONTRACT NO. HSR 06-0003
DRAWING NO. UT-C4515
SCALE AS SHOWN
SHEET NO. 24 OF 163

S-UT-C4515.dgn pdf.pltcfg stcol.tbl 11/20/2015 03:57:37 PM Sylvie



UTILITY INFORMATION

NO.	FACILITY	SIZE	OWNER	DISPOSITION
1	OH POWER	12kV	SEMITROPIC WATER STORAGE DISTRICT	RELOCATE
1	UG POWER	12kV	SEMITROPIC WATER STORAGE DISTRICT	PROPOSED
2	OH POWER	12kV	PG&E	RELOCATE
2	OH POWER	12kV	PG&E	PROPOSED
3	OH POWER	12kV	SEMITROPIC WATER STORAGE DISTRICT	RELOCATE
3	OH POWER	12kV	SEMITROPIC WATER STORAGE DISTRICT	PROPOSED
4	TANK	0.45MG	SEMITROPIC WATER STORAGE DISTRICT	PROTECT-IN-PLACE
5	OH POWER	480V	PG&E	RELOCATE
5	OH POWER	480V	PG&E	PROPOSED
6	IRRIGATION	36"	SEMITROPIC WATER STORAGE DISTRICT	RELOCATE
6	IRRIGATION	36"-48"CSG	SEMITROPIC WATER STORAGE DISTRICT	PROPOSED

UTILITY INFORMATION CONT.

NO.	FACILITY	SIZE	OWNER	DISPOSITION
7	IRRIGATION	NA	SEMITROPIC WATER STORAGE DISTRICT	RELOCATE
7	IRRIGATION	NA-NA CSG	SEMITROPIC WATER STORAGE DISTRICT	PROPOSED
8	IRRIGATION	15"	SEMITROPIC WATER STORAGE DISTRICT	PROTECT-IN-PLACE
9	IRRIGATION	27"	SEMITROPIC WATER STORAGE DISTRICT	PROTECT-IN-PLACE
10	OH POWER	12kV	SEMITROPIC WATER STORAGE DISTRICT	PROTECT-IN-PLACE
11	PUMPING STATION	NA	SEMITROPIC WATER STORAGE DISTRICT	PROTECT-IN-PLACE
12	MCC BUILDING	NA	SEMITROPIC WATER STORAGE DISTRICT	PROTECT-IN-PLACE
13	PS MANIFOLD	32"	SEMITROPIC WATER STORAGE DISTRICT	PROTECT-IN-PLACE
14	TANK MANIFOLD	30"	SEMITROPIC WATER STORAGE DISTRICT	PROTECT-IN-PLACE
15	TANK DRAIN	12"	SEMITROPIC WATER STORAGE DISTRICT	PROTECT-IN-PLACE
16	CHEMICAL STORAGE	NA	SEMITROPIC WATER STORAGE DISTRICT	PROTECT-IN-PLACE

50 0 50 100
1"=50' HOR
SCALE APPLICABLE FOR FULL SIZE ONLY

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY T. RAMIL
DRAWN BY V. ORTEGA
CHECKED BY T. GRAU
IN CHARGE S. BURGES
DATE 09/30/14

PROPOSED PRELIMINARY DESIGN
NOT FOR CONSTRUCTION

MARRS

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

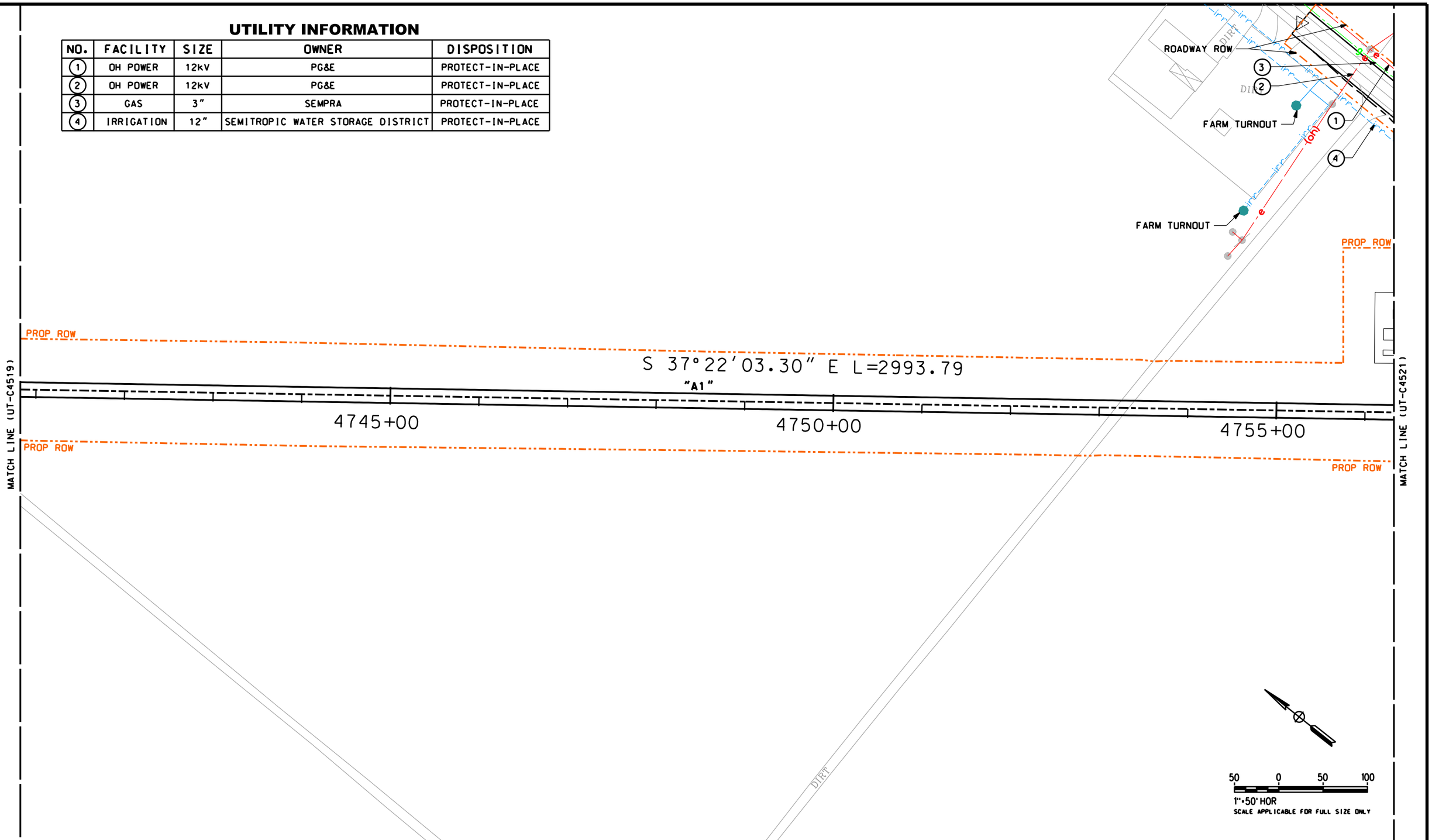
CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
PACKAGE 4 - ALIGNMENT A1
UTILITIES
COMPOSITE UTILITY PLAN
STA 4710+00 TO 4725+50

CONTRACT NO. HSR 06-0003
DRAWING NO. UT-C4518
SCALE AS SHOWN
SHEET NO. 27 OF 163

S-UT-C4518.dgn pdf.pltcfg stcol.tbl 11/20/2015 3:57:38 PM Sylvie

UTILITY INFORMATION

NO.	FACILITY	SIZE	OWNER	DISPOSITION
1	OH POWER	12kV	PG&E	PROTECT-IN-PLACE
2	OH POWER	12kV	PG&E	PROTECT-IN-PLACE
3	GAS	3"	SEMPRA	PROTECT-IN-PLACE
4	IRRIGATION	12"	SEMITROPIC WATER STORAGE DISTRICT	PROTECT-IN-PLACE



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IN CHARGE S. BURGES
DATE 09/30/14

PROPOSED PRELIMINARY DESIGN

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MARRS

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

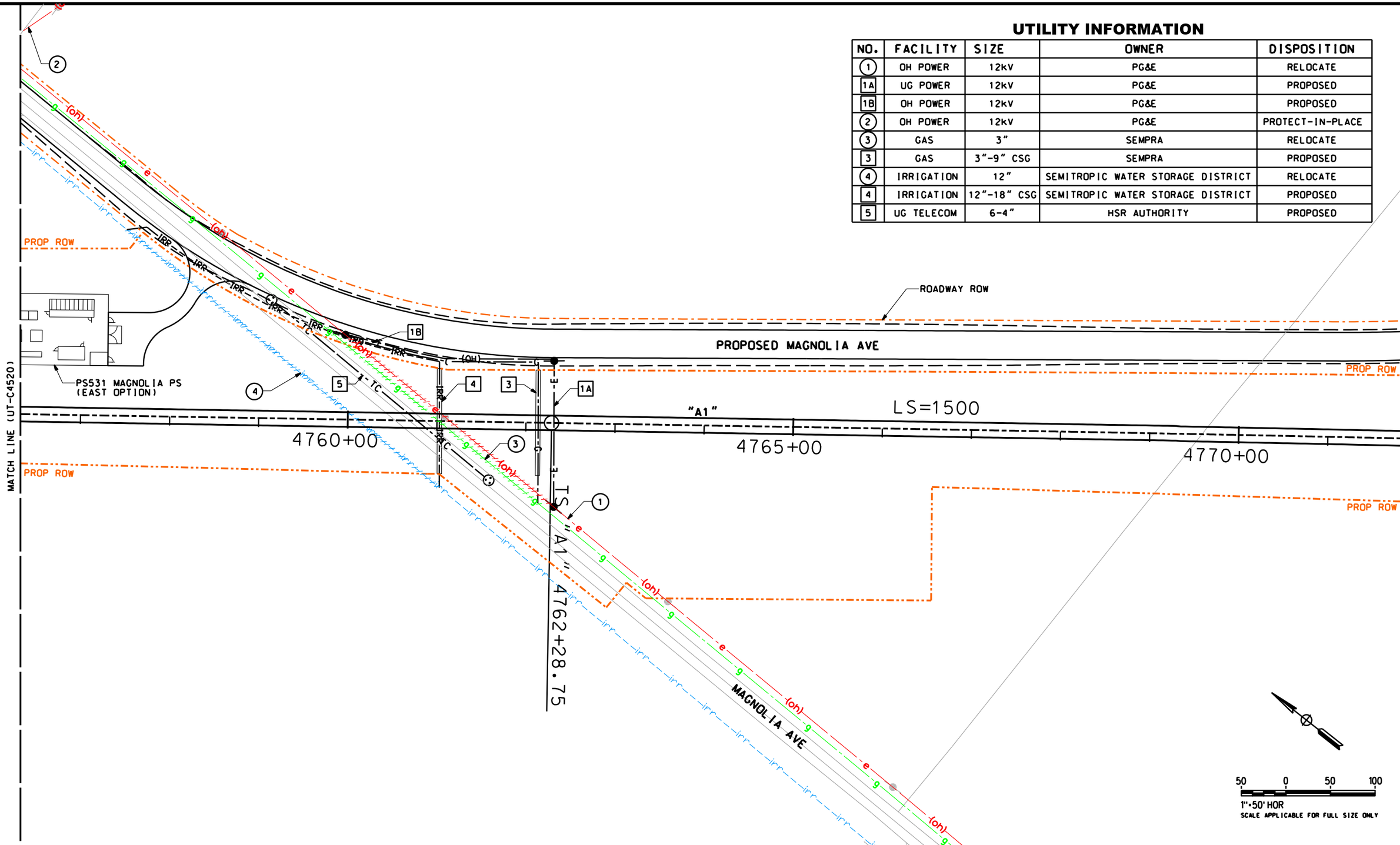
CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
PACKAGE 4 - ALIGNMENT A1
UTILITIES
COMPOSITE UTILITY PLAN
STA 4741+00 TO 4756+50

CONTRACT NO. HSR 06-0003
DRAWING NO. UT-C4520
SCALE AS SHOWN
SHEET NO. 29 OF 163

Sylvie 11/20/2015 03:57:39 PM stcol.tbl pdf.pltcfg S-UT-C4520.dgn

UTILITY INFORMATION

NO.	FACILITY	SIZE	OWNER	DISPOSITION
1	OH POWER	12kV	PG&E	RELOCATE
1A	UG POWER	12kV	PG&E	PROPOSED
1B	OH POWER	12kV	PG&E	PROPOSED
2	OH POWER	12kV	PG&E	PROTECT-IN-PLACE
3	GAS	3"	SEMPRA	RELOCATE
3	GAS	3"-9" CSG	SEMPRA	PROPOSED
4	IRRIGATION	12"	SEMITROPIC WATER STORAGE DISTRICT	RELOCATE
4	IRRIGATION	12"-18" CSG	SEMITROPIC WATER STORAGE DISTRICT	PROPOSED
5	UG TELECOM	6-4"	HSR AUTHORITY	PROPOSED



REV	DATE	BY	CHK	APP	DESCRIPTION

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CHECKED BY T. GRAU
IN CHARGE S. BURGES
DATE 09/30/14

PROPOSED PRELIMINARY DESIGN

NOT FOR CONSTRUCTION

MARRS

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

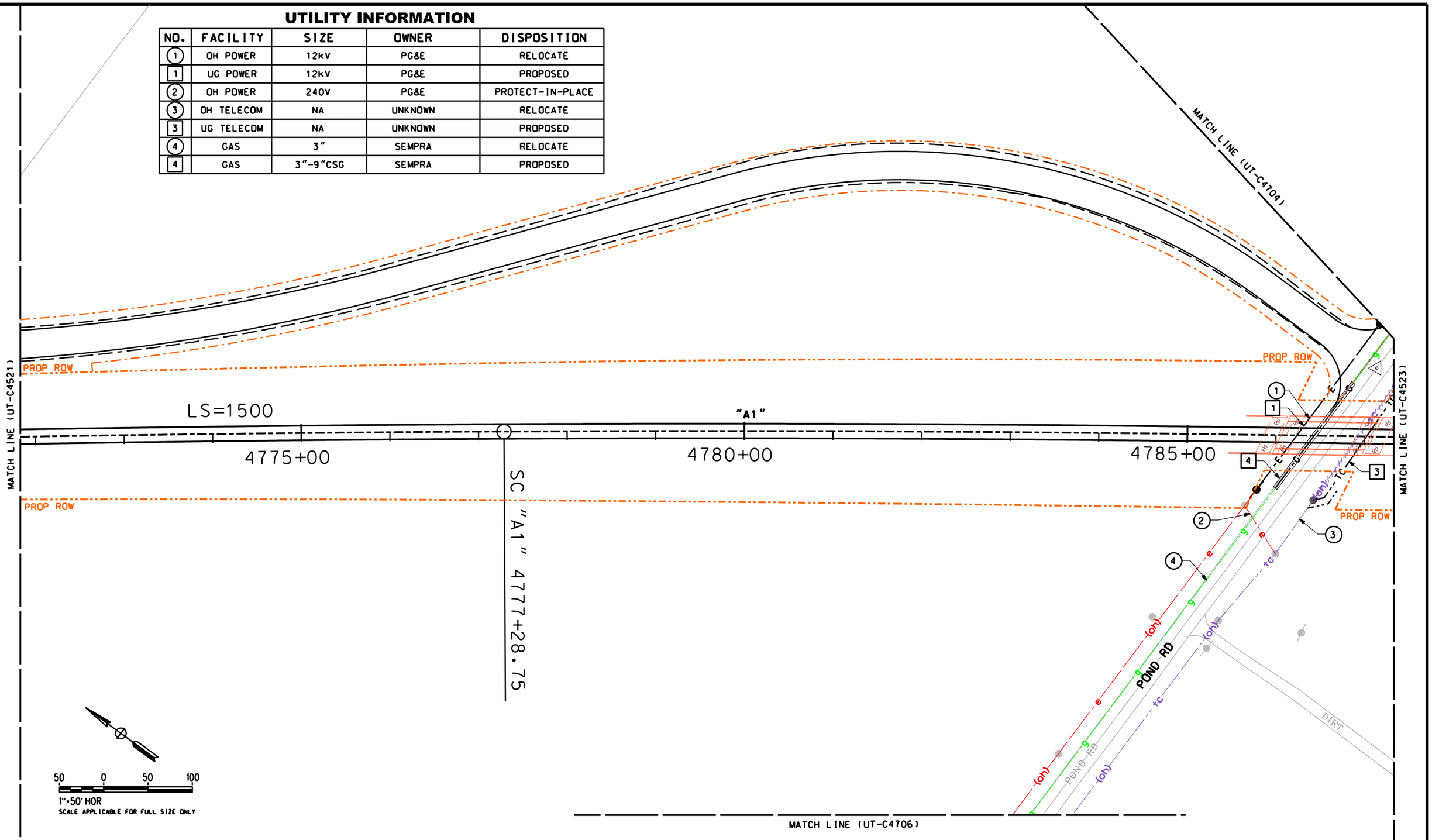
CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
PACKAGE 4 - ALIGNMENT A1
UTILITIES
COMPOSITE UTILITY PLAN
STA 4756+50 TO 4772+00

CONTRACT NO. HSR 06-0003
DRAWING NO. UT-C4521
SCALE AS SHOWN
SHEET NO. 30 OF 163

11/20/2015 03:57:40 PM stcol.tbl pdf.pltcfg S-UT-C4521.dgn Sylvie

UTILITY INFORMATION

NO.	FACILITY	SIZE	OWNER	DISPOSITION
(1)	OH POWER	12kV	PG&E	RELOCATE
[1]	UG POWER	12kV	PG&E	PROPOSED
(2)	OH POWER	240V	PG&E	PROTECT-IN-PLACE
(3)	OH TELECOM	NA	UNKNOWN	RELOCATE
[3]	UG TELECOM	NA	UNKNOWN	PROPOSED
(4)	GAS	3"	SEMPRA	RELOCATE
[4]	GAS	3"-9"CSG	SEMPRA	PROPOSED



REV	DATE	BY	CHK	APP	DESCRIPTION

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IN CHARGE S. BURGES
DATE 09/30/14

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MARRS

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

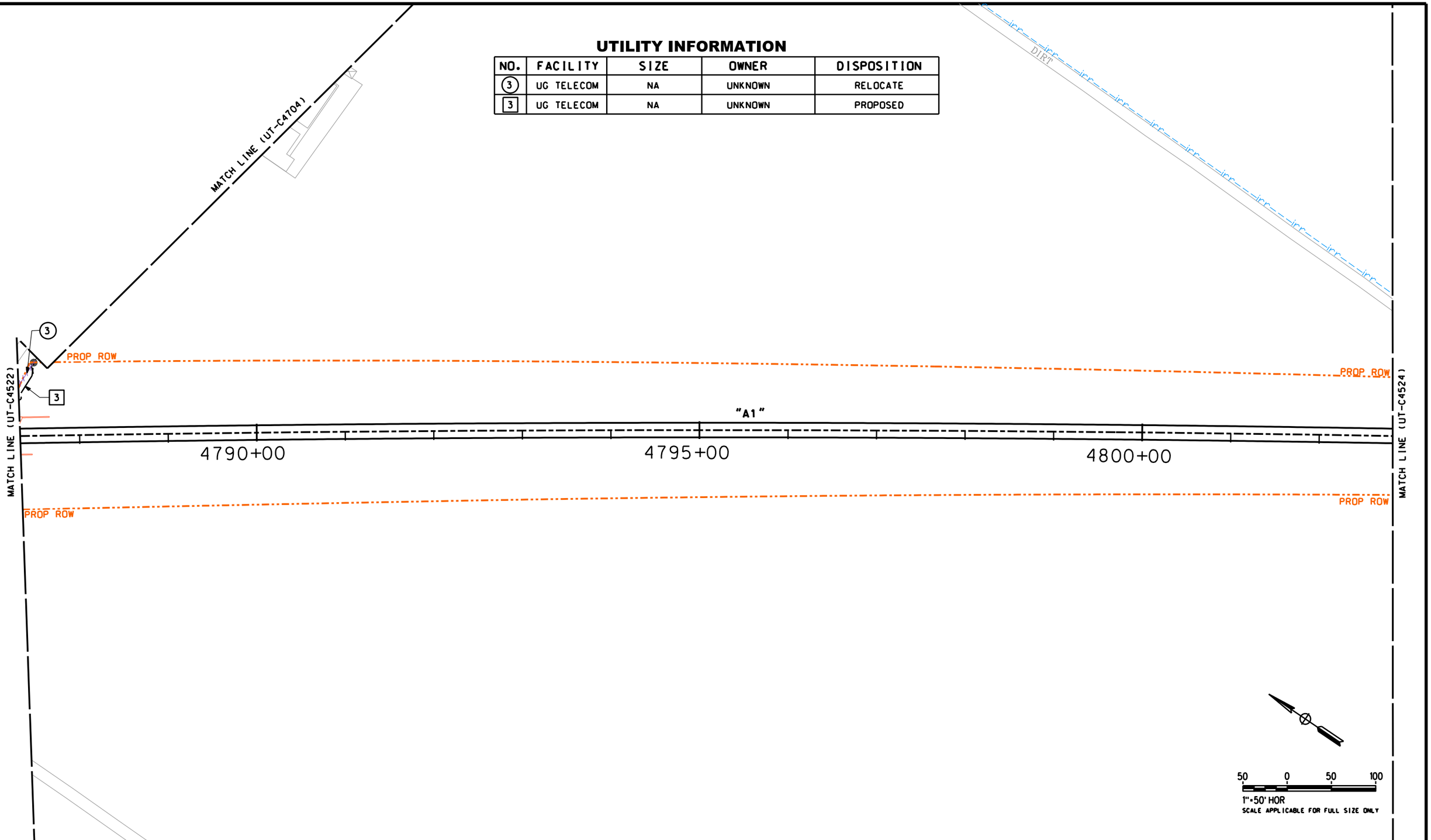
CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
PACKAGE 4 - ALIGNMENT A1
UTILITIES
COMPOSITE UTILITY PLAN
STA 4772+00 TO 4787+50

CONTRACT NO. HSR 06-0003
DRAWING NO. UT-C4522
SCALE AS SHOWN
SHEET NO. 31 OF 163

Sylvie 11/20/2015 03:57:41 PM stcol.tbl pdf.pltcfg S-UT-C4522.dgn

UTILITY INFORMATION

NO.	FACILITY	SIZE	OWNER	DISPOSITION
3	UG TELECOM	NA	UNKNOWN	RELOCATE
3	UG TELECOM	NA	UNKNOWN	PROPOSED



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DATE 09/30/14

PROPOSED PRELIMINARY DESIGN

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MARRS

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

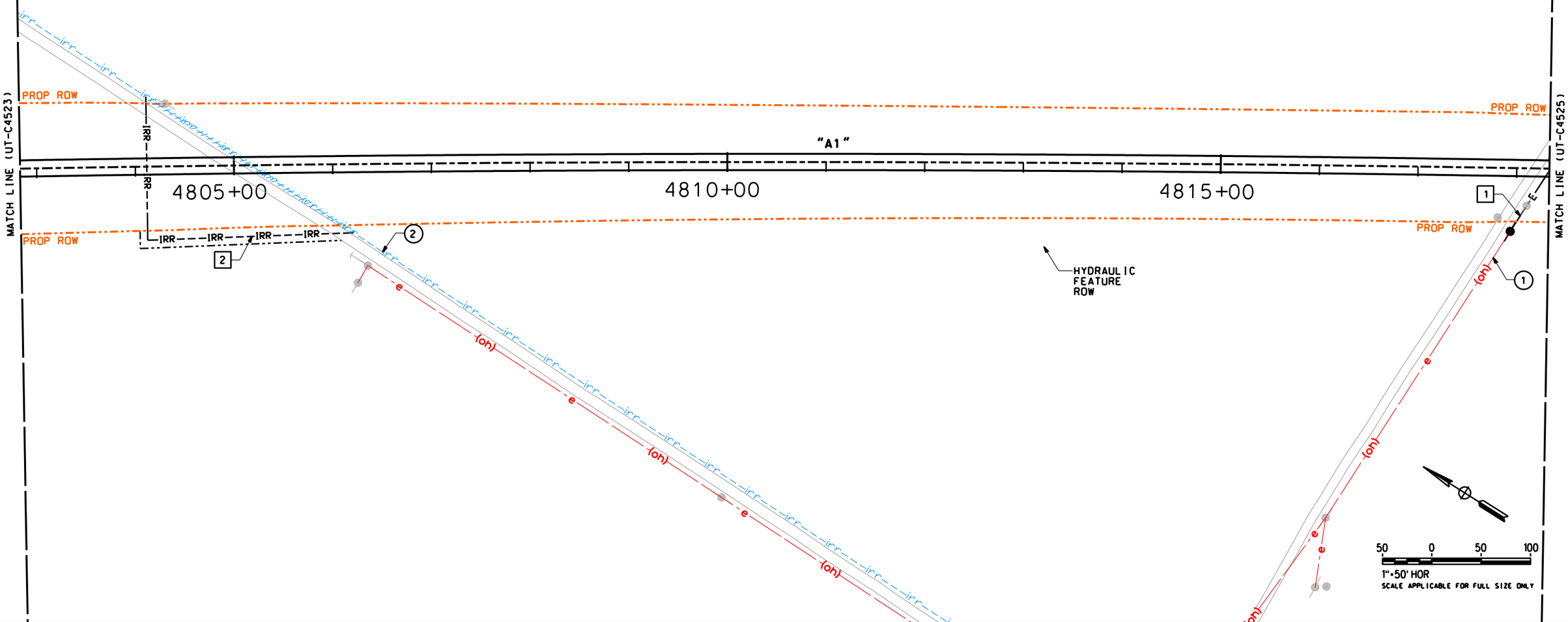
CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
PACKAGE 4 - ALIGNMENT A1
UTILITIES
COMPOSITE UTILITY PLAN
STA 4787+50 TO 4803+00

CONTRACT NO. HSR 06-0003
DRAWING NO. UT-C4523
SCALE AS SHOWN
SHEET NO. 32 OF 163

Sylvie 11/20/2015 03:57:42 PM stcol.tbl pdf.pltcfg S-UT-C4523.dgn

UTILITY INFORMATION

NO.	FACILITY	SIZE	OWNER	DISPOSITION
1	OH POWER	12kV	PG&E	RELOCATE
1	UG POWER	12kV	PG&E	PROPOSED
2	IRRIGATION	18"	SEMITROPIC WATER STORAGE DISTRICT	RELOCATE
2	IRRIGATION	18"-24" CSG	SEMITROPIC WATER STORAGE DISTRICT	PROPOSED



REV	DATE	BY	CHK	APP	DESCRIPTION

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MARRS

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

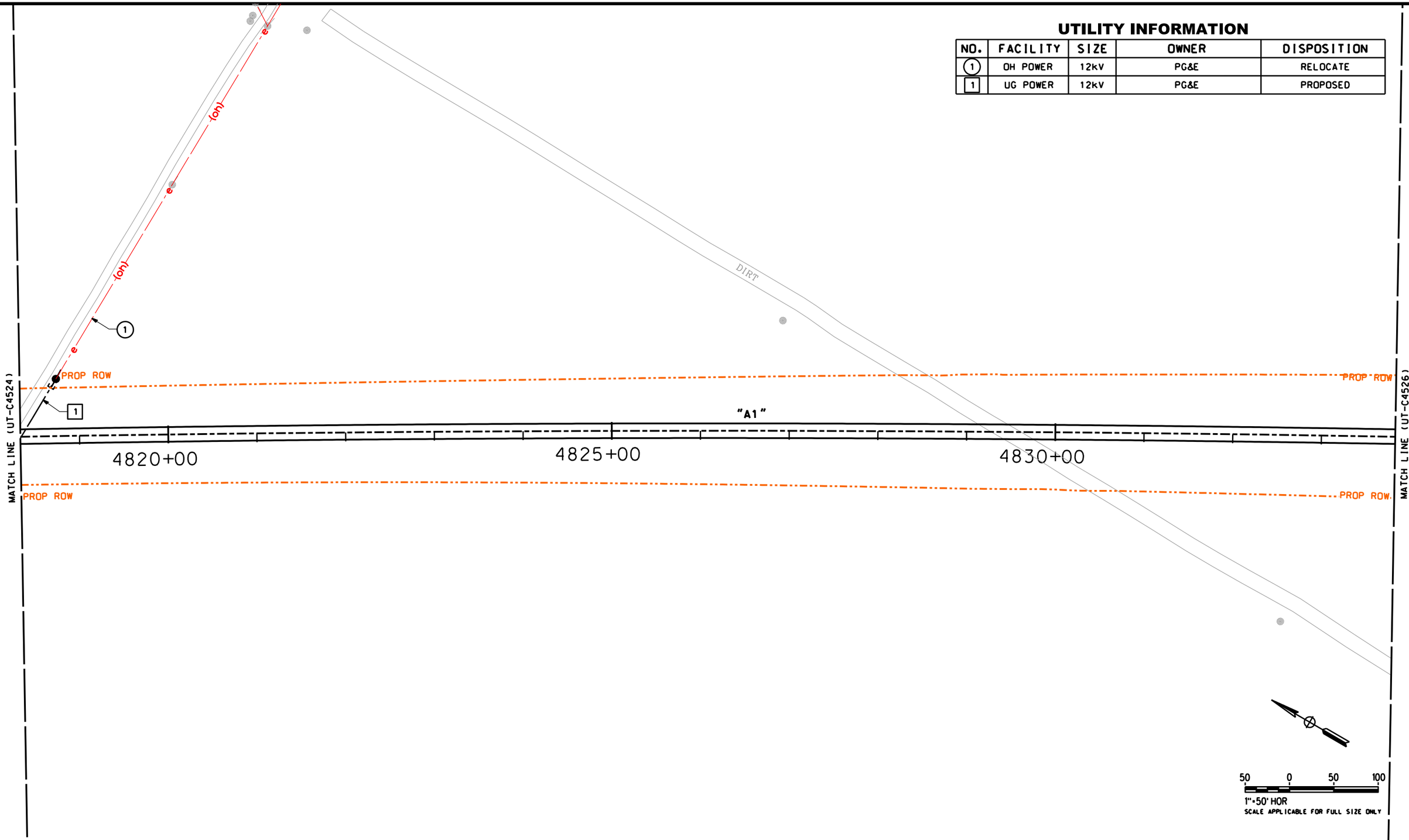
CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
PACKAGE 4 - ALIGNMENT A1
UTILITIES
COMPOSITE UTILITY PLAN
STA 4803+00 TO 4818+50

CONTRACT NO. HSR 06-0003
DRAWING NO. UT-C4524
SCALE AS SHOWN
SHEET NO. 33 OF 163

Sylvie 11/20/2015 03:57:43 PM stcol.tbl pdf.pltcfg S-UT-C4524.dgn

UTILITY INFORMATION

NO.	FACILITY	SIZE	OWNER	DISPOSITION
1	OH POWER	12kV	PG&E	RELOCATE
1	UG POWER	12kV	PG&E	PROPOSED



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MARRS

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

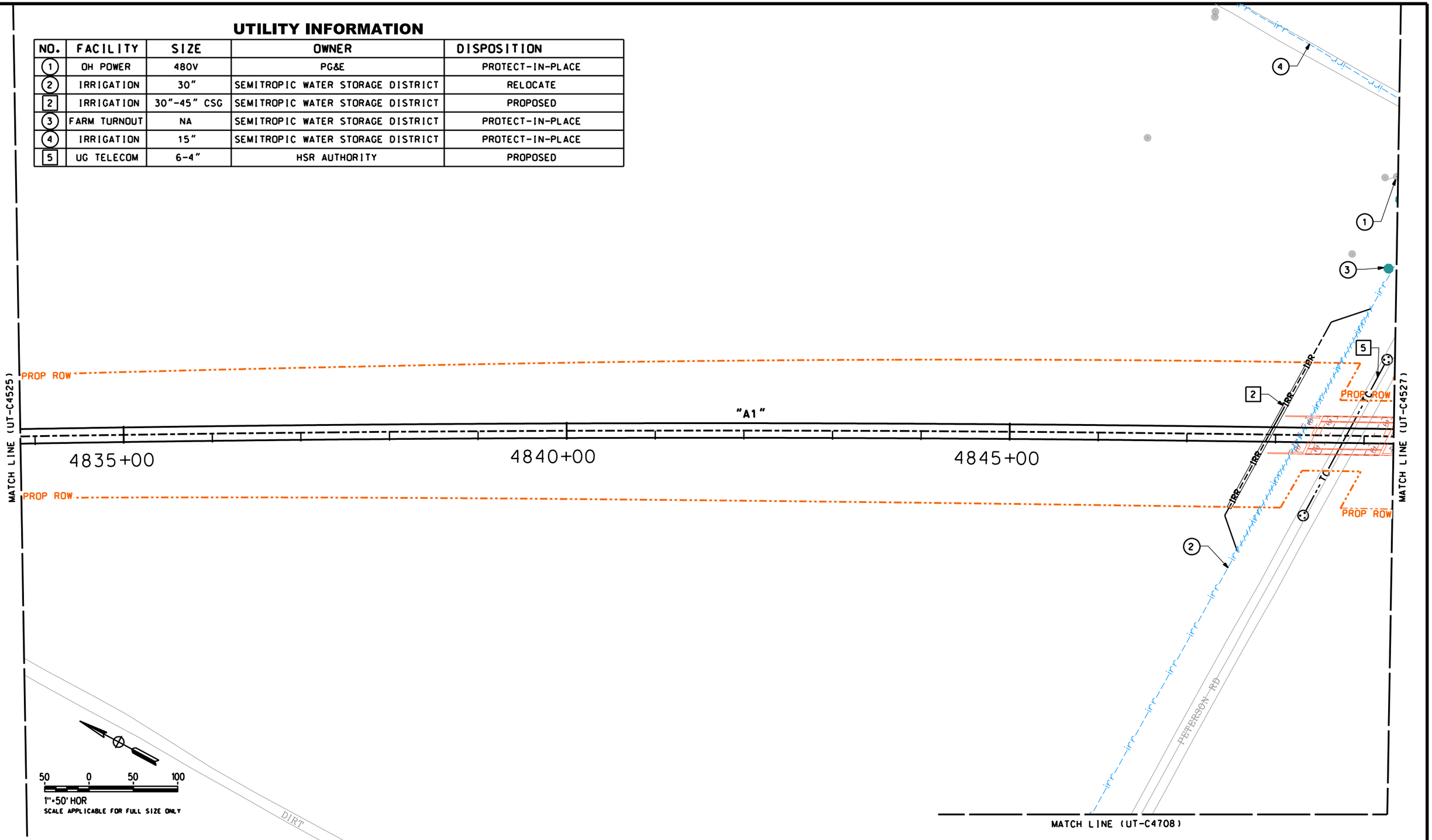
CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
PACKAGE 4 - ALIGNMENT A1
UTILITIES
COMPOSITE UTILITY PLAN
STA 4818+50 TO 4834+00

CONTRACT NO. HSR 06-0003
DRAWING NO. UT-C4525
SCALE AS SHOWN
SHEET NO. 34 OF 163

S-UT-C4525.dgn pdf.pltcfg stcol.tbl 11/20/2015 03:57:45 PM Sylvie

UTILITY INFORMATION

NO.	FACILITY	SIZE	OWNER	DISPOSITION
1	OH POWER	480V	PG&E	PROTECT-IN-PLACE
2	IRRIGATION	30"	SEMITROPIC WATER STORAGE DISTRICT	RELOCATE
2	IRRIGATION	30"-45" CSG	SEMITROPIC WATER STORAGE DISTRICT	PROPOSED
3	FARM TURNOUT	NA	SEMITROPIC WATER STORAGE DISTRICT	PROTECT-IN-PLACE
4	IRRIGATION	15"	SEMITROPIC WATER STORAGE DISTRICT	PROTECT-IN-PLACE
5	UG TELECOM	6-4"	HSR AUTHORITY	PROPOSED



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DATE 09/30/14

PROPOSED PRELIMINARY DESIGN

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MARRS

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

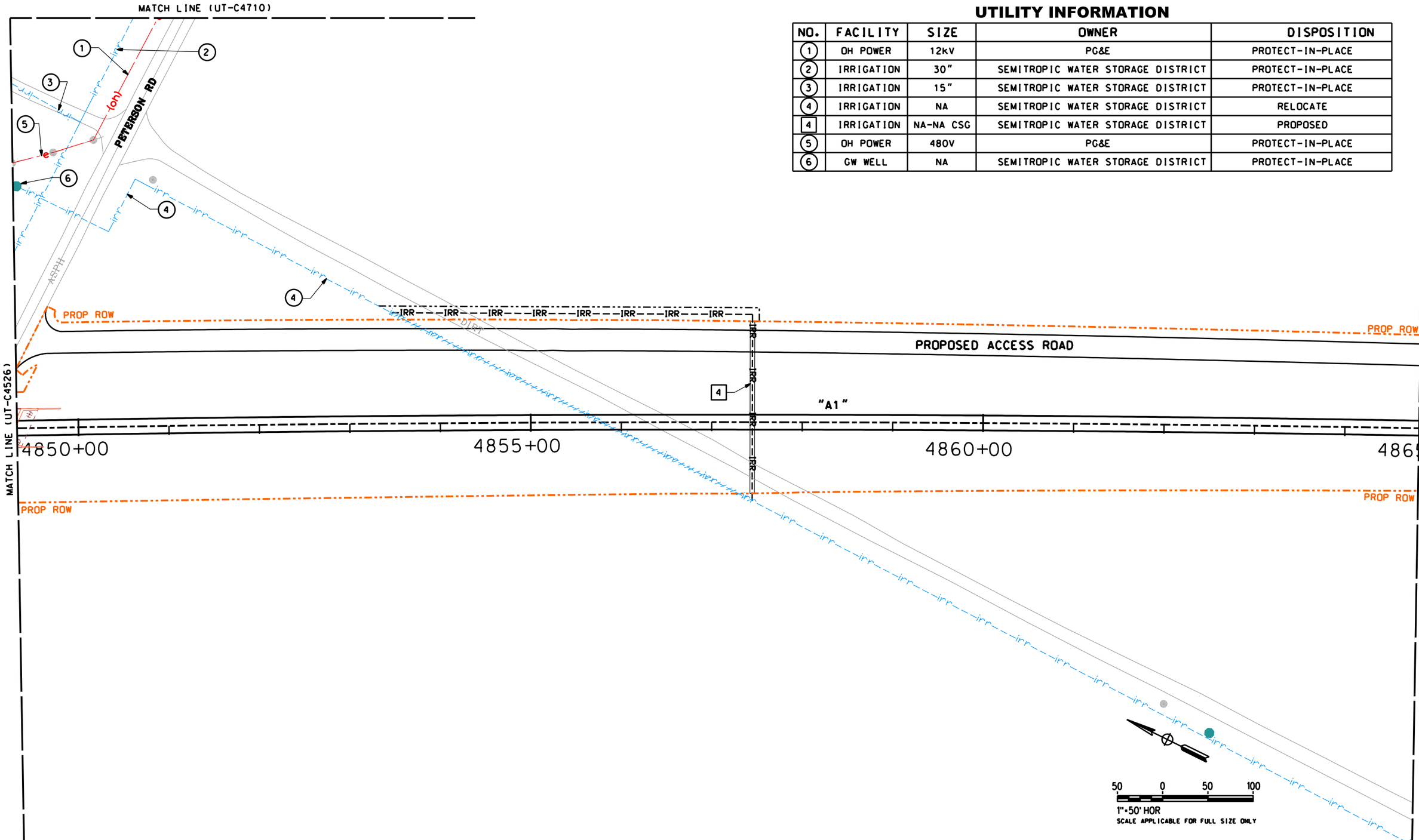
CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
PACKAGE 4 - ALIGNMENT A1
UTILITIES
COMPOSITE UTILITY PLAN
STA 4834+00 TO 4849+50

CONTRACT NO. HSR 06-0003
DRAWING NO. UT-C4526
SCALE AS SHOWN
SHEET NO. 35 OF 163

Sylvie 11/20/2015 03:57:46 PM stcol.tbl pdf.pltcfg S-UT-C4526.dgn

UTILITY INFORMATION

NO.	FACILITY	SIZE	OWNER	DISPOSITION
1	OH POWER	12kV	PG&E	PROTECT-IN-PLACE
2	IRRIGATION	30"	SEMITROPIC WATER STORAGE DISTRICT	PROTECT-IN-PLACE
3	IRRIGATION	15"	SEMITROPIC WATER STORAGE DISTRICT	PROTECT-IN-PLACE
4	IRRIGATION	NA	SEMITROPIC WATER STORAGE DISTRICT	RELOCATE
4	IRRIGATION	NA-NA CSG	SEMITROPIC WATER STORAGE DISTRICT	PROPOSED
5	OH POWER	480V	PG&E	PROTECT-IN-PLACE
6	GW WELL	NA	SEMITROPIC WATER STORAGE DISTRICT	PROTECT-IN-PLACE



REV	DATE	BY	CHK	APP	DESCRIPTION

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PROPOSED PRELIMINARY DESIGN

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MARRS

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

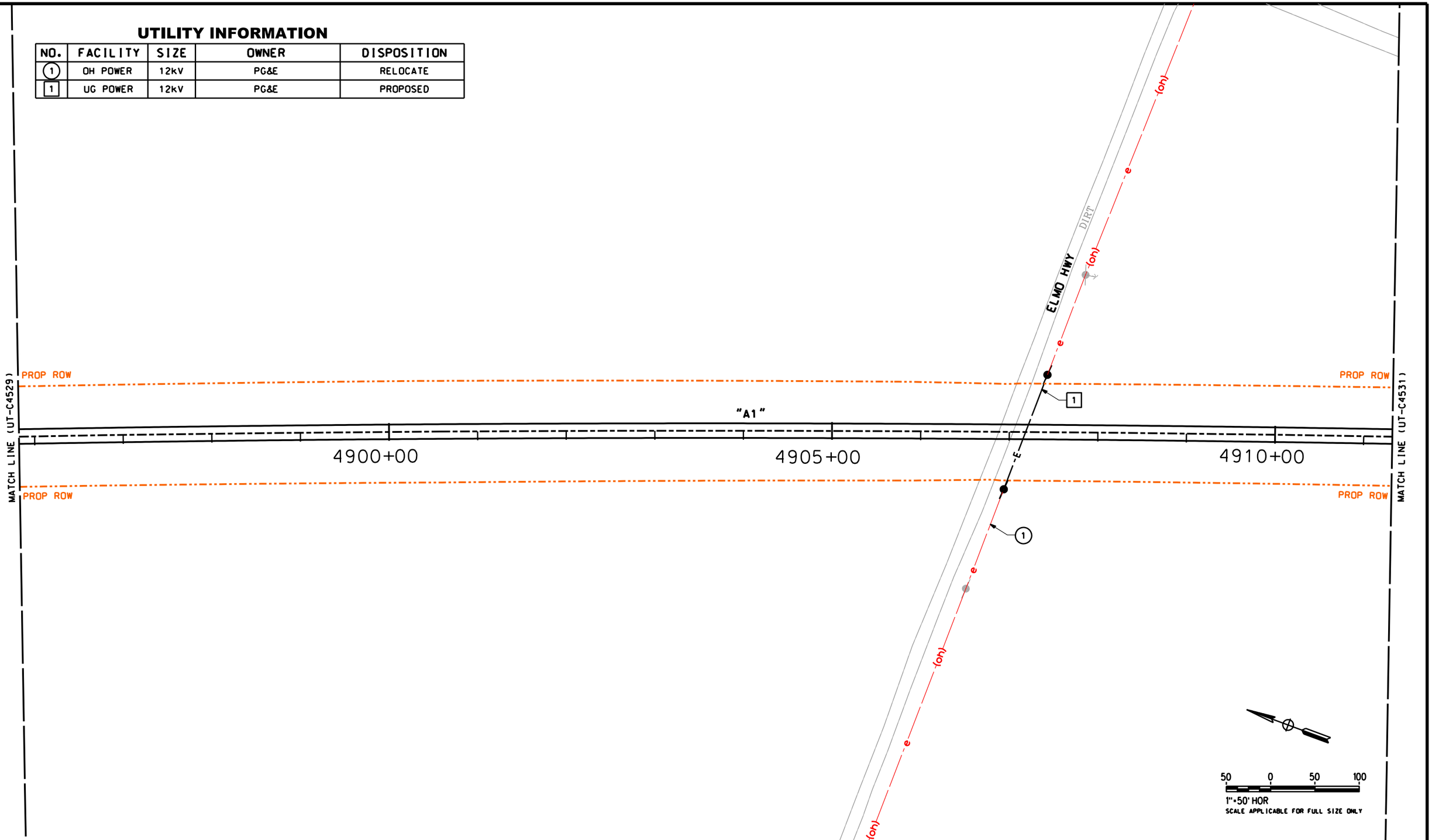
CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
PACKAGE 4 - ALIGNMENT A1
UTILITIES
COMPOSITE UTILITY PLAN
STA 4849+50 TO 4865+00

CONTRACT NO. HSR 06-0003
DRAWING NO. UT-C4527
SCALE AS SHOWN
SHEET NO. 36 OF 163

S-UT-C4527.dgn pdf.pltcfg stcol.tbl 11/20/2015 3:57:47 PM Sylvie

UTILITY INFORMATION

NO.	FACILITY	SIZE	OWNER	DISPOSITION
(1)	OH POWER	12kV	PG&E	RELOCATE
[1]	UG POWER	12kV	PG&E	PROPOSED



REV	DATE	BY	CHK	APP	DESCRIPTION

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PROPOSED PRELIMINARY DESIGN

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MARRS

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

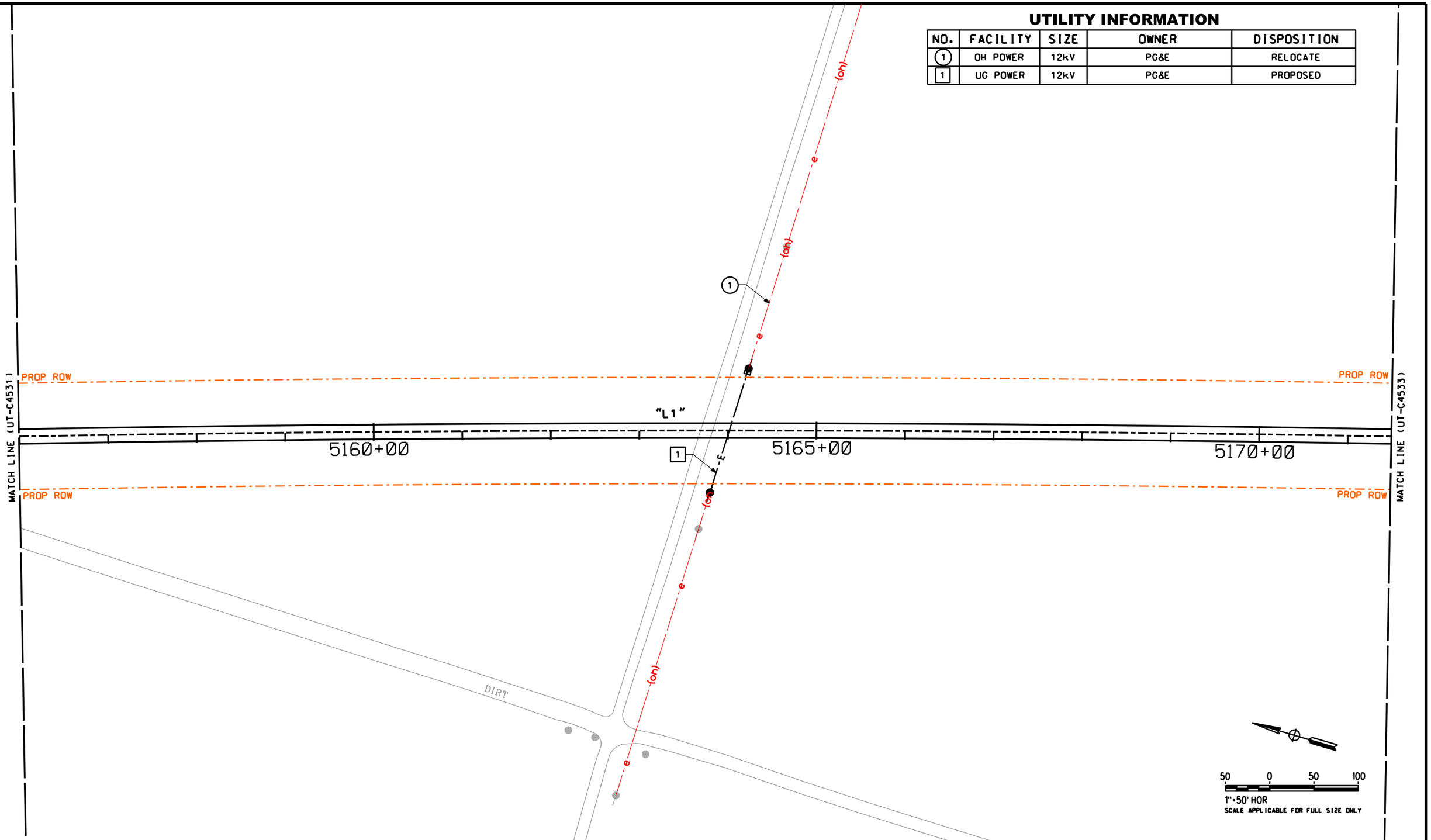
CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
PACKAGE 4 - ALIGNMENT A1
UTILITIES
COMPOSITE UTILITY PLAN
STA 4896+00 TO 4911+50

CONTRACT NO. HSR 06-0003
DRAWING NO. UT-C4530
SCALE AS SHOWN
SHEET NO. 39 OF 163

S-UT-C4530.dgn pdf.pltcfg stcol.tbl 11/20/2015 03:57:48 PM Sylvie

UTILITY INFORMATION

NO.	FACILITY	SIZE	OWNER	DISPOSITION
1	OH POWER	12kV	PG&E	RELOCATE
1	UG POWER	12kV	PG&E	PROPOSED



REV	DATE	BY	CHK	APP	DESCRIPTION

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DATE 09/30/14

PROPOSED PRELIMINARY DESIGN

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MARRS

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD

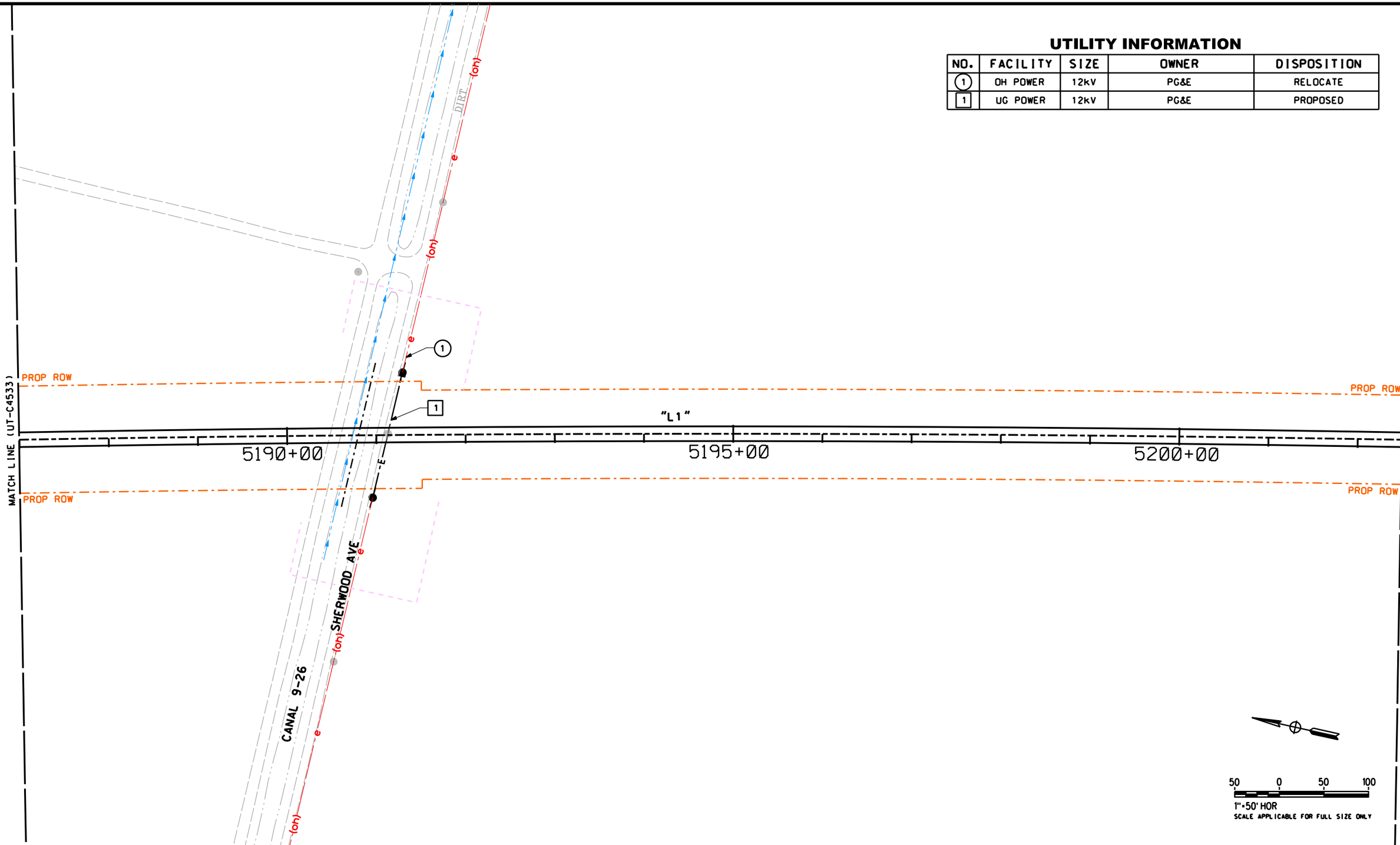
PACKAGE 4 - ALIGNMENT L1
UTILITIES
COMPOSITE UTILITY PLAN
STA 5156+00 TO 5171+50

CONTRACT NO. HSR 06-0003
DRAWING NO. UT-C4532
SCALE AS SHOWN
SHEET NO. 41 OF 163

Sylvie 11/20/2015 03:57:49 PM stcol.tbl pdf.pltcfg S-UT-C4532.dgn

UTILITY INFORMATION

NO.	FACILITY	SIZE	OWNER	DISPOSITION
1	OH POWER	12kV	PG&E	RELOCATE
1	UG POWER	12kV	PG&E	PROPOSED



REV	DATE	BY	CHK	APP	DESCRIPTION

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PROPOSED PRELIMINARY DESIGN

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MARRS

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

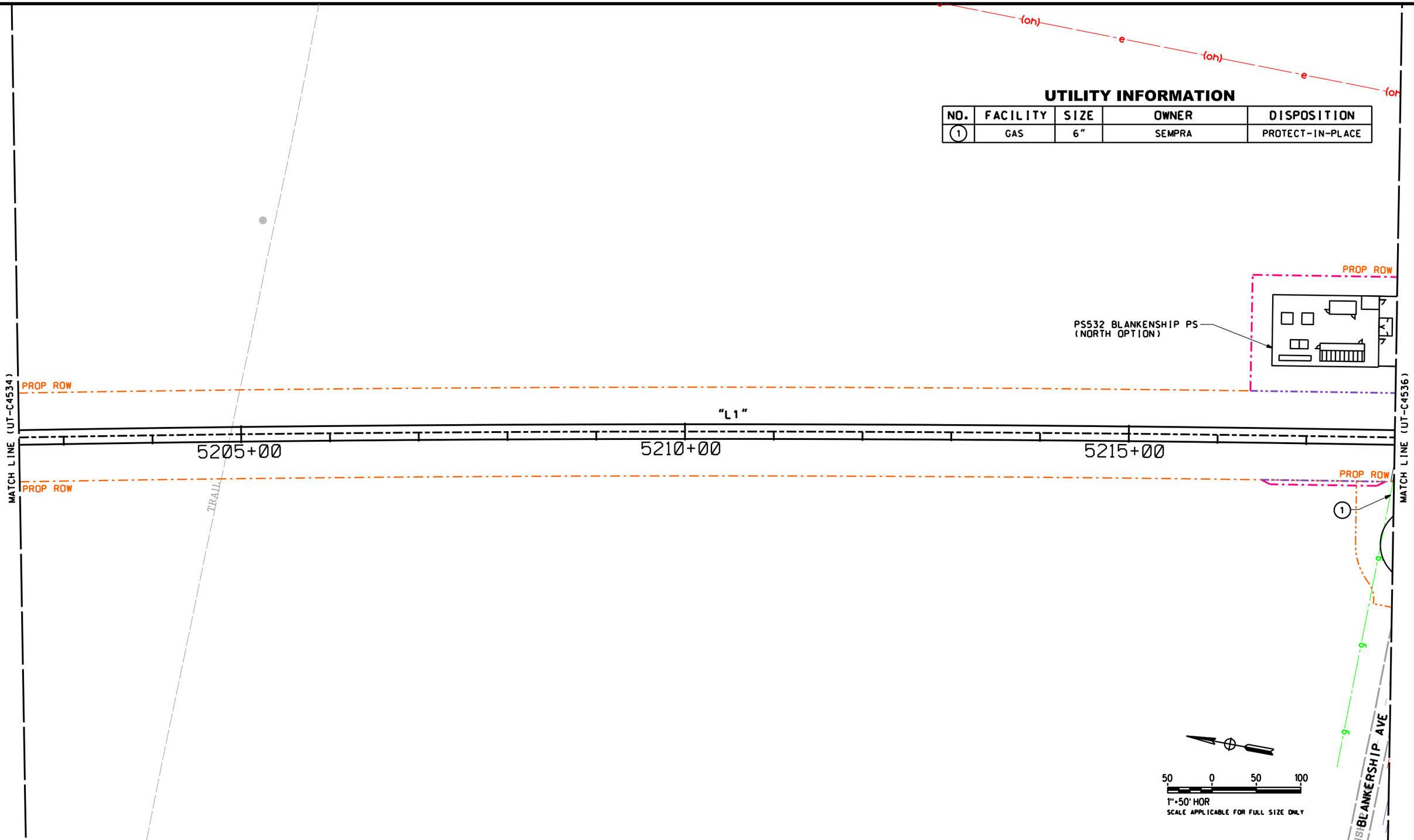
CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
PACKAGE 4 - ALIGNMENT L1
UTILITIES
COMPOSITE UTILITY PLAN
STA 5187+00 TO 5202+50

CONTRACT NO. HSR 06-0003
DRAWING NO. UT-C4534
SCALE AS SHOWN
SHEET NO. 43 OF 163

S-UT-C4534.dgn pdf.pltcfg stcol.tbl 11/20/2015 3:57:50 PM Sylvie

UTILITY INFORMATION

NO.	FACILITY	SIZE	OWNER	DISPOSITION
1	GAS	6"	SEMPRA	PROTECT-IN-PLACE



REV	DATE	BY	CHK	APP	DESCRIPTION

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MARRS

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

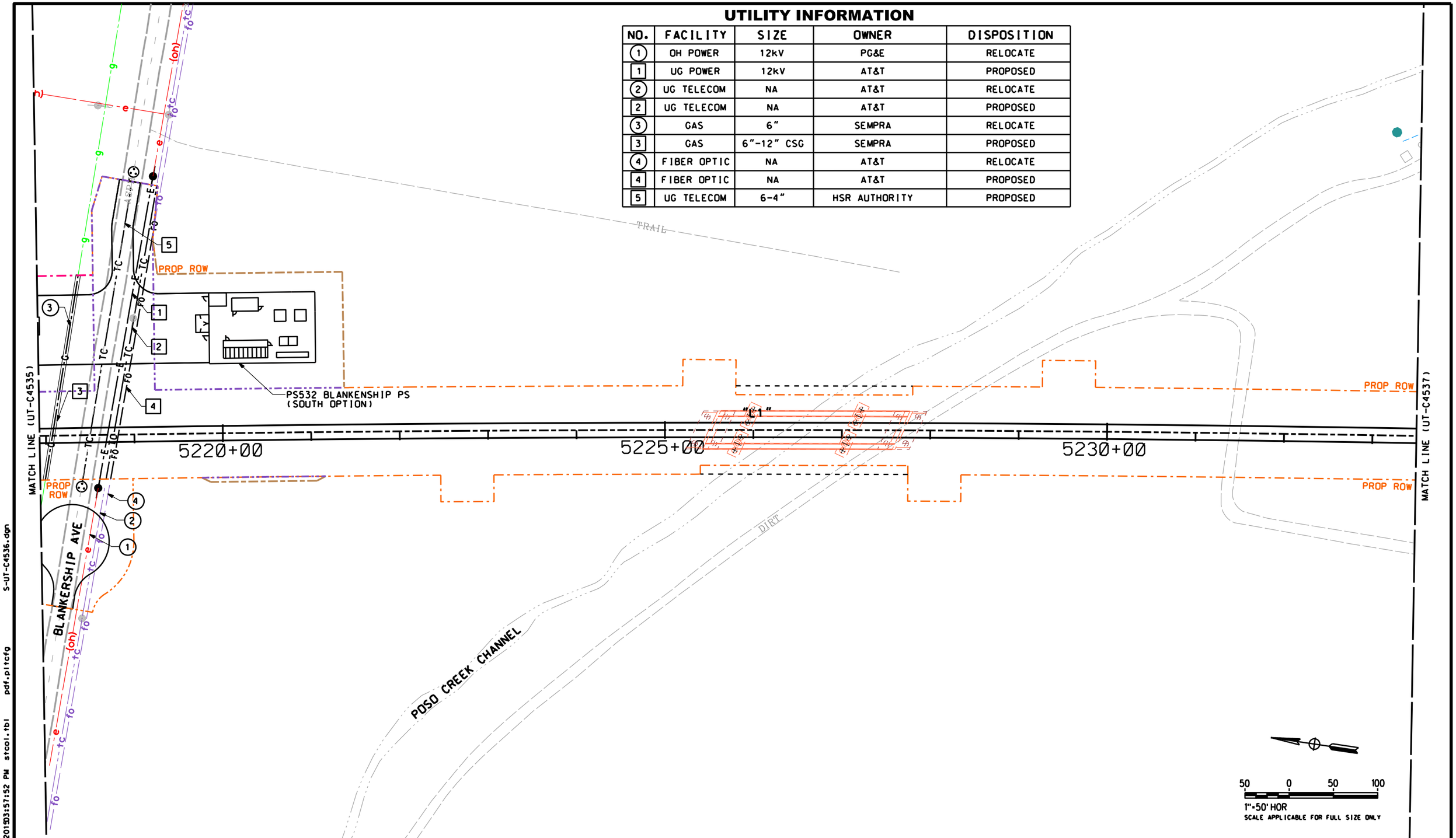
CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
PACKAGE 4 - ALIGNMENT L1
UTILITIES
COMPOSITE UTILITY PLAN
STA 5202+50 TO 5218+00

CONTRACT NO. HSR 06-0003
DRAWING NO. UT-C4535
SCALE AS SHOWN
SHEET NO. 44 OF 163

S-UT-C4535.dgn pdf.pltcfg stcol.tbl PW 11/20/2015 3:57:51 Sylvie

UTILITY INFORMATION

NO.	FACILITY	SIZE	OWNER	DISPOSITION
(1)	OH POWER	12kV	PG&E	RELOCATE
1	UG POWER	12kV	AT&T	PROPOSED
(2)	UG TELECOM	NA	AT&T	RELOCATE
2	UG TELECOM	NA	AT&T	PROPOSED
(3)	GAS	6"	SEMPRA	RELOCATE
3	GAS	6"-12" CSG	SEMPRA	PROPOSED
(4)	FIBER OPTIC	NA	AT&T	RELOCATE
4	FIBER OPTIC	NA	AT&T	PROPOSED
5	UG TELECOM	6-4"	HSR AUTHORITY	PROPOSED



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MARRS

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

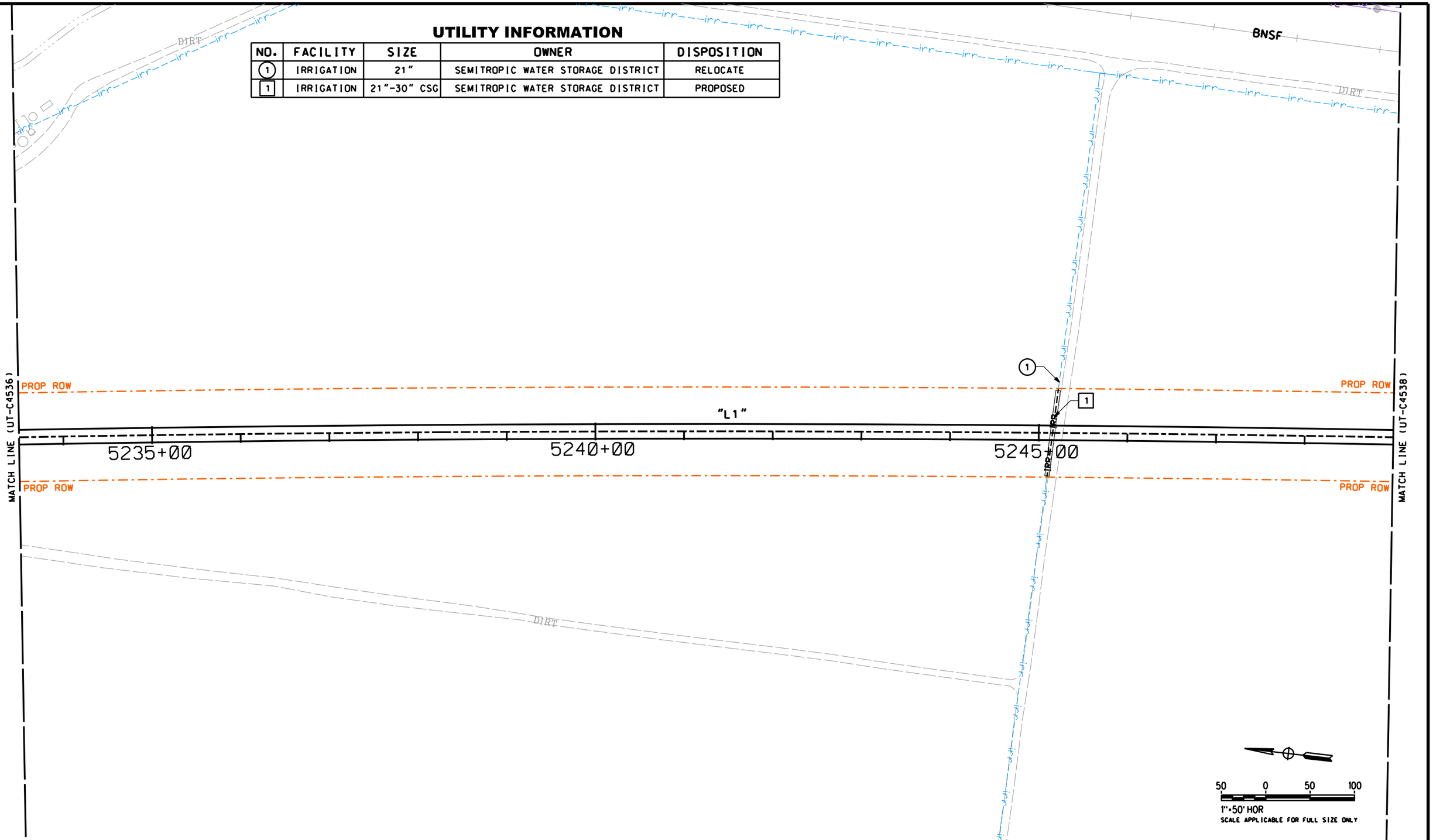
CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
PACKAGE 4 - ALIGNMENT L1
UTILITIES
COMPOSITE UTILITY PLAN
STA 5218+00 TO 5233+50

CONTRACT NO. HSR 06-0003
DRAWING NO. UT-C4536
SCALE AS SHOWN
SHEET NO. 45 OF 163

S-UT-C4536.dgn pdf.pltcfg stcol.tbl 11/20/2013 3:57:52 PM Sylvie

UTILITY INFORMATION

NO.	FACILITY	SIZE	OWNER	DISPOSITION
1	IRRIGATION	21"	SEMITROPIC WATER STORAGE DISTRICT	RELOCATE
1	IRRIGATION	21"-30" CSG	SEMITROPIC WATER STORAGE DISTRICT	PROPOSED



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PROPOSED PRELIMINARY DESIGN

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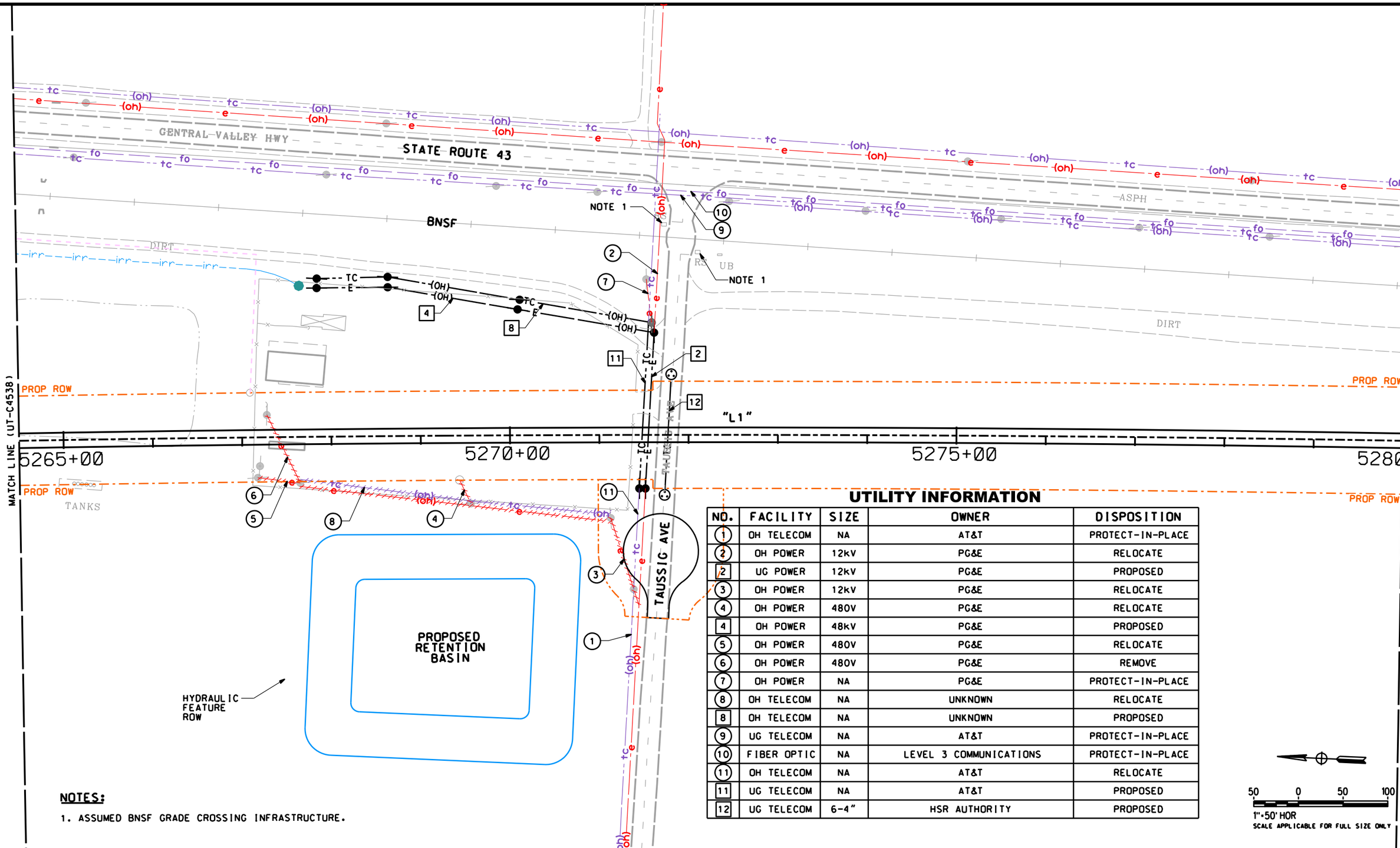
MARRS

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
PACKAGE 4 - ALIGNMENT L1
UTILITIES
COMPOSITE UTILITY PLAN
STA 5233+50 TO 5249+00

CONTRACT NO. HSR 06-0003
DRAWING NO. UT-C4537
SCALE AS SHOWN
SHEET NO. 46 OF 163

Sylvie 11/20/2015 03:57:53 PM stcol.tbl pdf.pltcfg S-UT-C4537.dgn



UTILITY INFORMATION

NO.	FACILITY	SIZE	OWNER	DISPOSITION
1	OH TELECOM	NA	AT&T	PROTECT-IN-PLACE
2	OH POWER	12kV	PG&E	RELOCATE
2	UG POWER	12kV	PG&E	PROPOSED
3	OH POWER	12kV	PG&E	RELOCATE
4	OH POWER	480V	PG&E	RELOCATE
4	OH POWER	48kV	PG&E	PROPOSED
5	OH POWER	480V	PG&E	RELOCATE
6	OH POWER	480V	PG&E	REMOVE
7	OH POWER	NA	PG&E	PROTECT-IN-PLACE
8	OH TELECOM	NA	UNKNOWN	RELOCATE
8	OH TELECOM	NA	UNKNOWN	PROPOSED
9	UG TELECOM	NA	AT&T	PROTECT-IN-PLACE
10	FIBER OPTIC	NA	LEVEL 3 COMMUNICATIONS	PROTECT-IN-PLACE
11	OH TELECOM	NA	AT&T	RELOCATE
11	UG TELECOM	NA	AT&T	PROPOSED
12	UG TELECOM	6-4"	HSR AUTHORITY	PROPOSED

50 0 50 100
1"=50' HOR
SCALE APPLICABLE FOR FULL SIZE ONLY

NOTES:

1. ASSUMED BNSF GRADE CROSSING INFRASTRUCTURE.

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MARRS

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

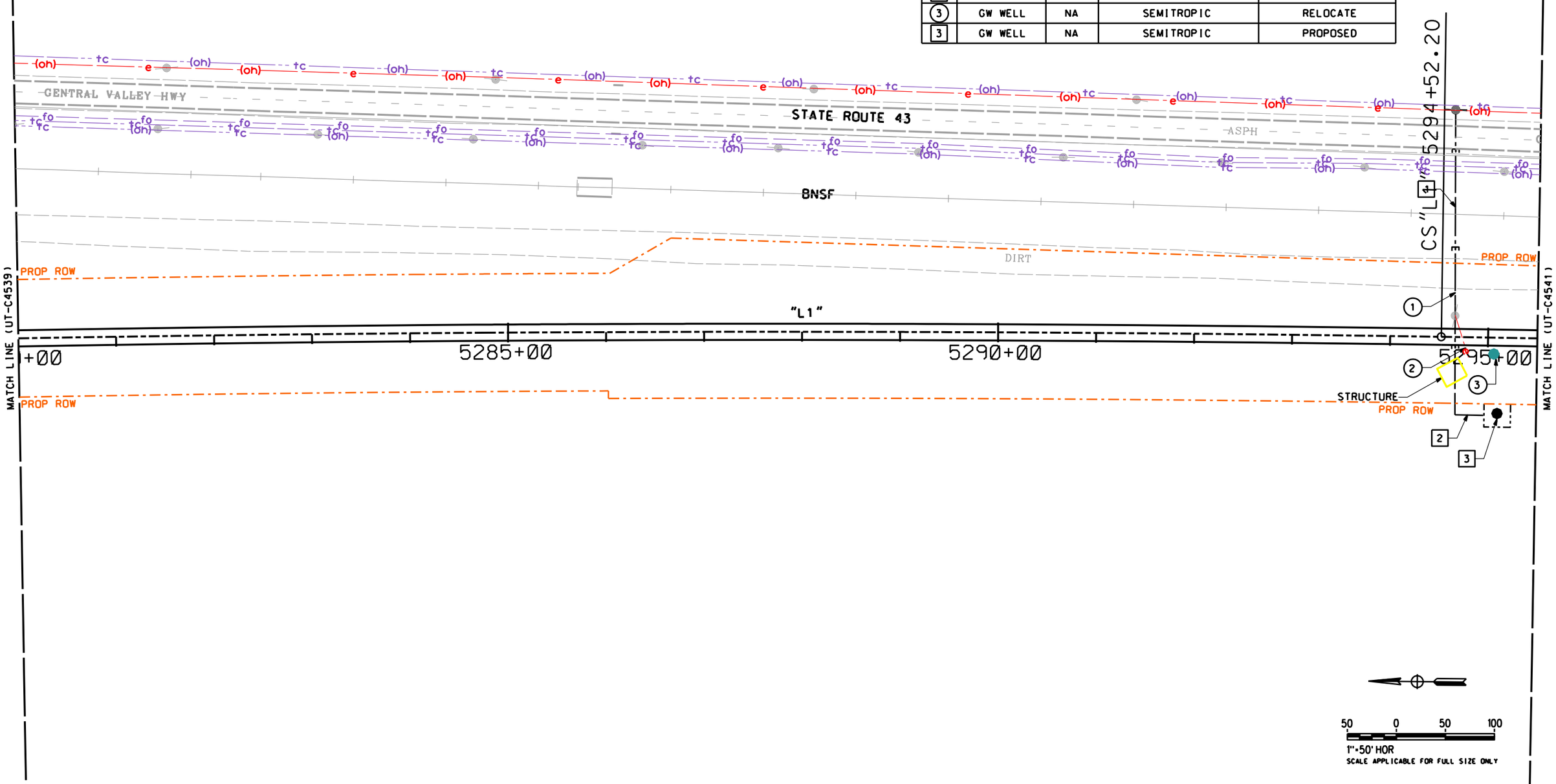
CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
PACKAGE 4 - ALIGNMENT L1
UTILITIES
COMPOSITE UTILITY PLAN
STA 5264+50 TO 5280+00

CONTRACT NO. HSR 06-0003
DRAWING NO. UT-C4539
SCALE AS SHOWN
SHEET NO. 48 OF 163

S-UT-C4539.dgn pdf.pltcfg stcol.tbl 11/20/2015 3:57:54 PM Sylvie

UTILITY INFORMATION

NO.	FACILITY	SIZE	OWNER	DISPOSITION
1	OH POWER	12kV	PG&E	RELOCATE
1	UG POWER	12kV	PG&E	PROPOSED
2	OH POWER	NA	PG&E	RELOCATE
2	UG POWER	NA	PG&E	PROPOSED
3	GW WELL	NA	SEMITROPIC	RELOCATE
3	GW WELL	NA	SEMITROPIC	PROPOSED



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MARRS

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

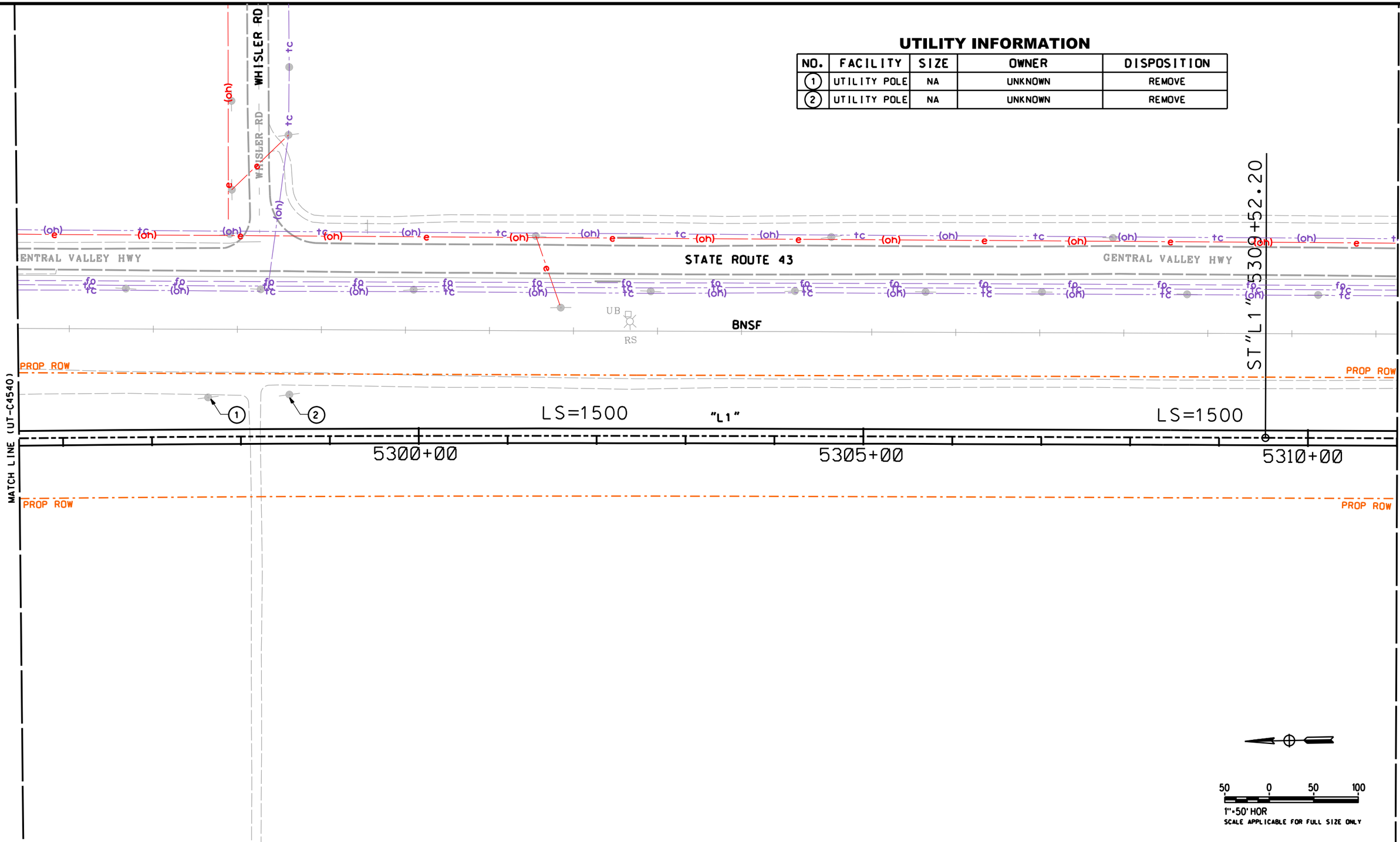
CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
PACKAGE 4 - ALIGNMENT L1
UTILITIES
COMPOSITE UTILITY PLAN
STA 5280+00 TO 5295+50

CONTRACT NO. HSR 06-0003
DRAWING NO. UT-C4540
SCALE AS SHOWN
SHEET NO. 49 OF 163

S-UT-C4540.dgn pdf.pltcfg stcol.tbl PW 11/20/2015 03:57:55 Sylvie

UTILITY INFORMATION

NO.	FACILITY	SIZE	OWNER	DISPOSITION
1	UTILITY POLE	NA	UNKNOWN	REMOVE
2	UTILITY POLE	NA	UNKNOWN	REMOVE



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MARRS

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

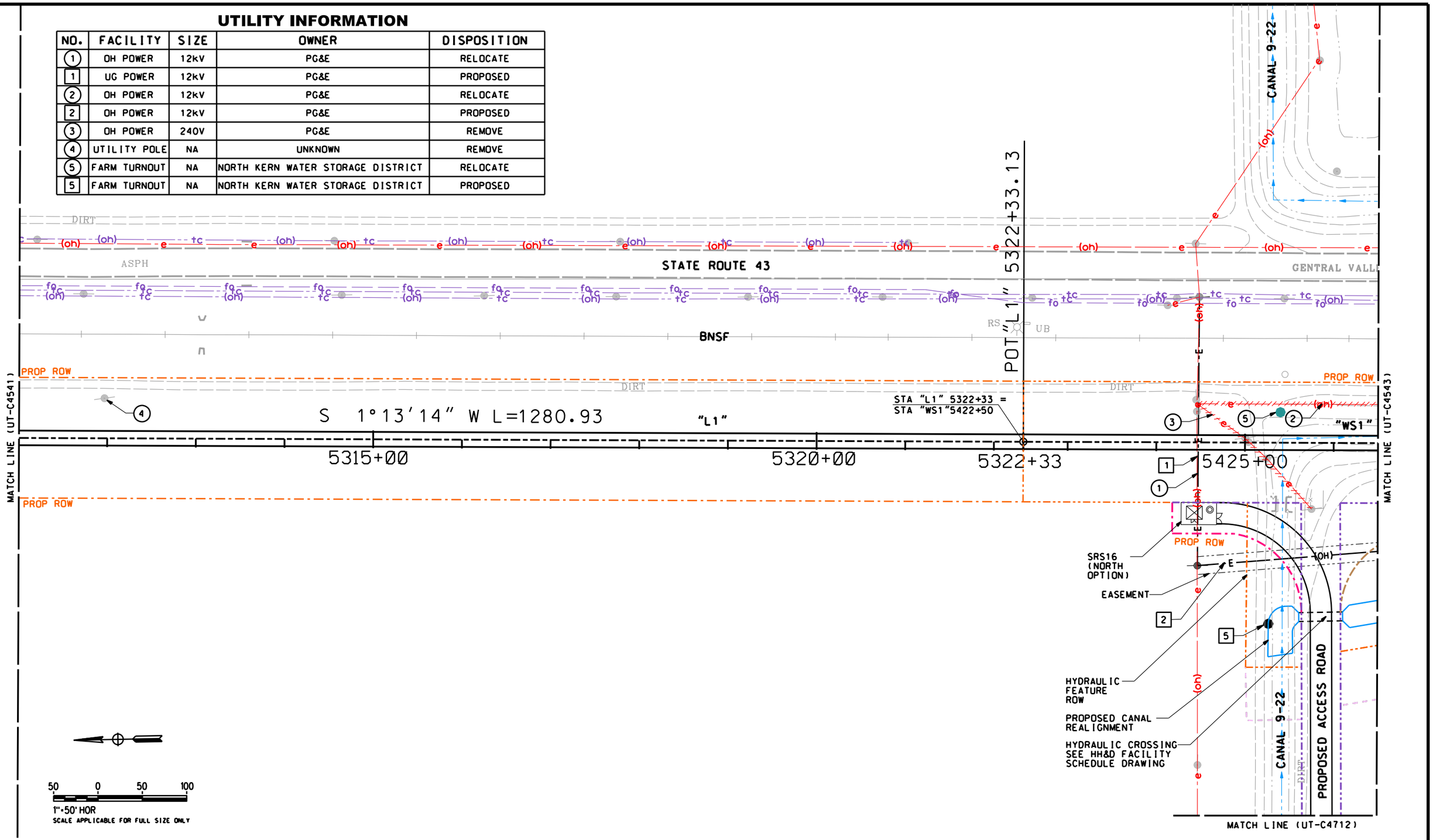
CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
PACKAGE 4 - ALIGNMENT L1
UTILITIES
COMPOSITE UTILITY PLAN
STA 5295+50 TO 5311+00

CONTRACT NO. HSR 06-0003
DRAWING NO. UT-C4541
SCALE AS SHOWN
SHEET NO. 50 OF 163

S-UT-C4541.dgn pdf.pltcfg stcol.tbl 11/20/2015 3:57:56 PM Sylvie

UTILITY INFORMATION

NO.	FACILITY	SIZE	OWNER	DISPOSITION
1	OH POWER	12kV	PG&E	RELOCATE
1	UG POWER	12kV	PG&E	PROPOSED
2	OH POWER	12kV	PG&E	RELOCATE
2	OH POWER	12kV	PG&E	PROPOSED
3	OH POWER	240V	PG&E	REMOVE
4	UTILITY POLE	NA	UNKNOWN	REMOVE
5	FARM TURNOUT	NA	NORTH KERN WATER STORAGE DISTRICT	RELOCATE
5	FARM TURNOUT	NA	NORTH KERN WATER STORAGE DISTRICT	PROPOSED



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY T. RAMIL
DRAWN BY V. ORTEGA
CHECKED BY T. GRAU
IN CHARGE S. BURGES
DATE 09/30/14

PROPOSED PRELIMINARY DESIGN

NOT FOR CONSTRUCTION

MARRS

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD

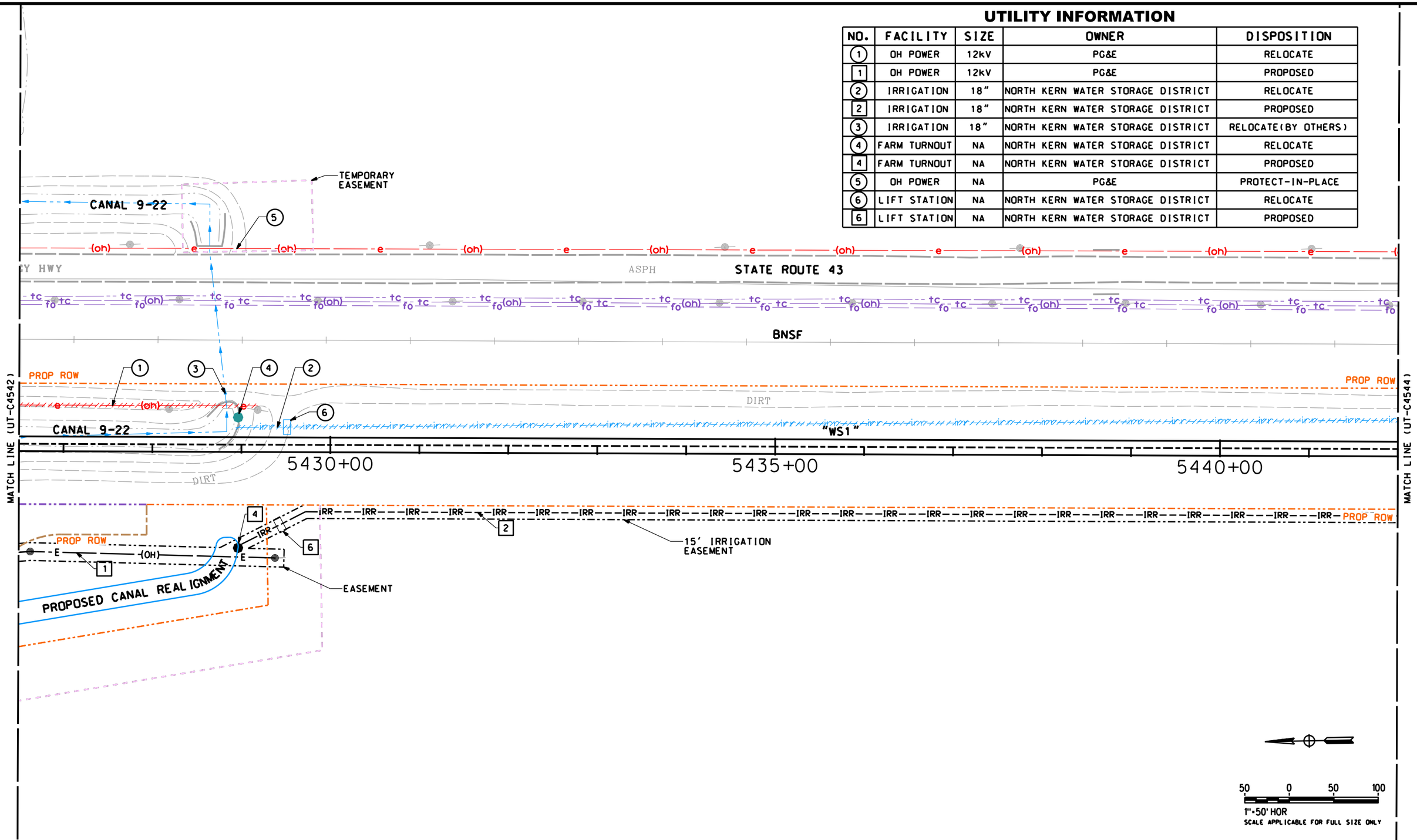
PACKAGE 4 - ALIGNMENTS L1 & WS1
UTILITIES
COMPOSITE UTILITY PLAN
STA L1 5311+00 TO 5322+33, WS1 5422+50 TO 5426+50

CONTRACT NO. HSR 06-0003
DRAWING NO. UT-C4542
SCALE AS SHOWN
SHEET NO. 51 OF 163

11/20/2013 3:57:57 PM stcol.tbl pdf.pltcfg S-UT-C4542.dgn Sylvie

UTILITY INFORMATION

NO.	FACILITY	SIZE	OWNER	DISPOSITION
1	OH POWER	12kV	PG&E	RELOCATE
1	OH POWER	12kV	PG&E	PROPOSED
2	IRRIGATION	18"	NORTH KERN WATER STORAGE DISTRICT	RELOCATE
2	IRRIGATION	18"	NORTH KERN WATER STORAGE DISTRICT	PROPOSED
3	IRRIGATION	18"	NORTH KERN WATER STORAGE DISTRICT	RELOCATE(BY OTHERS)
4	FARM TURNOUT	NA	NORTH KERN WATER STORAGE DISTRICT	RELOCATE
4	FARM TURNOUT	NA	NORTH KERN WATER STORAGE DISTRICT	PROPOSED
5	OH POWER	NA	PG&E	PROTECT-IN-PLACE
6	LIFT STATION	NA	NORTH KERN WATER STORAGE DISTRICT	RELOCATE
6	LIFT STATION	NA	NORTH KERN WATER STORAGE DISTRICT	PROPOSED



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY T. RAMIL
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CHECKED BY T. GRAU
IN CHARGE S. BURGES
DATE 09/30/14

PROPOSED PRELIMINARY DESIGN

NOT FOR CONSTRUCTION

MARRS

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

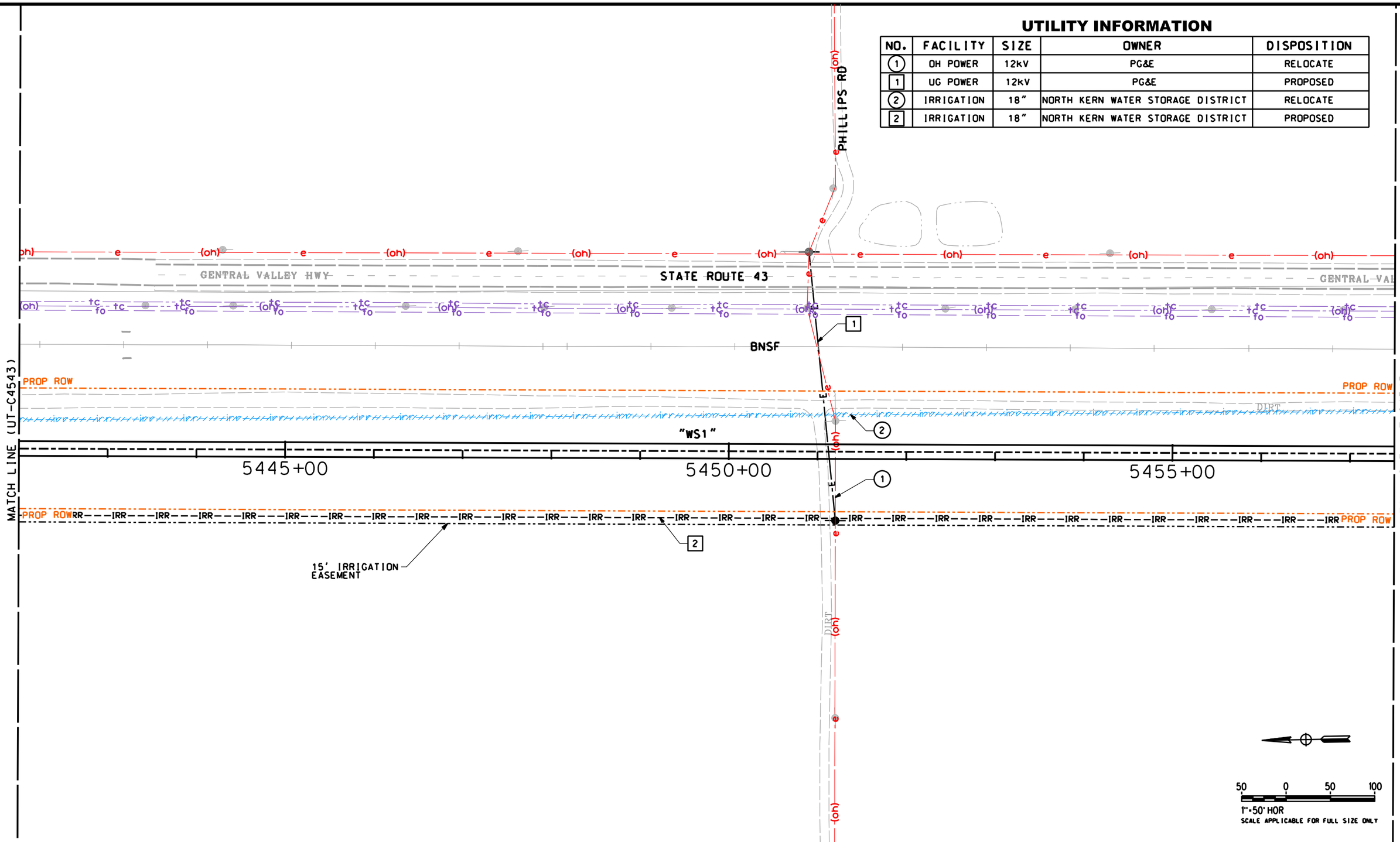
CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
PACKAGE 4 - ALIGNMENT WS1
UTILITIES
COMPOSITE UTILITY PLAN
STA 5426+50 TO 5442+00

CONTRACT NO. HSR 06-0003
DRAWING NO. UT-C4543
SCALE AS SHOWN
SHEET NO. 52 OF 163

S-UT-C4543.dgn pdf.pltcfg stcol.tbl 11/20/2015 3:57:58 PM Sylvie

UTILITY INFORMATION

NO.	FACILITY	SIZE	OWNER	DISPOSITION
(1)	OH POWER	12kV	PG&E	RELOCATE
[1]	UG POWER	12kV	PG&E	PROPOSED
(2)	IRRIGATION	18"	NORTH KERN WATER STORAGE DISTRICT	RELOCATE
[2]	IRRIGATION	18"	NORTH KERN WATER STORAGE DISTRICT	PROPOSED



REV	DATE	BY	CHK	APP	DESCRIPTION

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CHECKED BY T. GRAU
IN CHARGE S. BURGES
DATE 09/30/14

PROPOSED PRELIMINARY DESIGN

NOT FOR CONSTRUCTION

MARRS

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

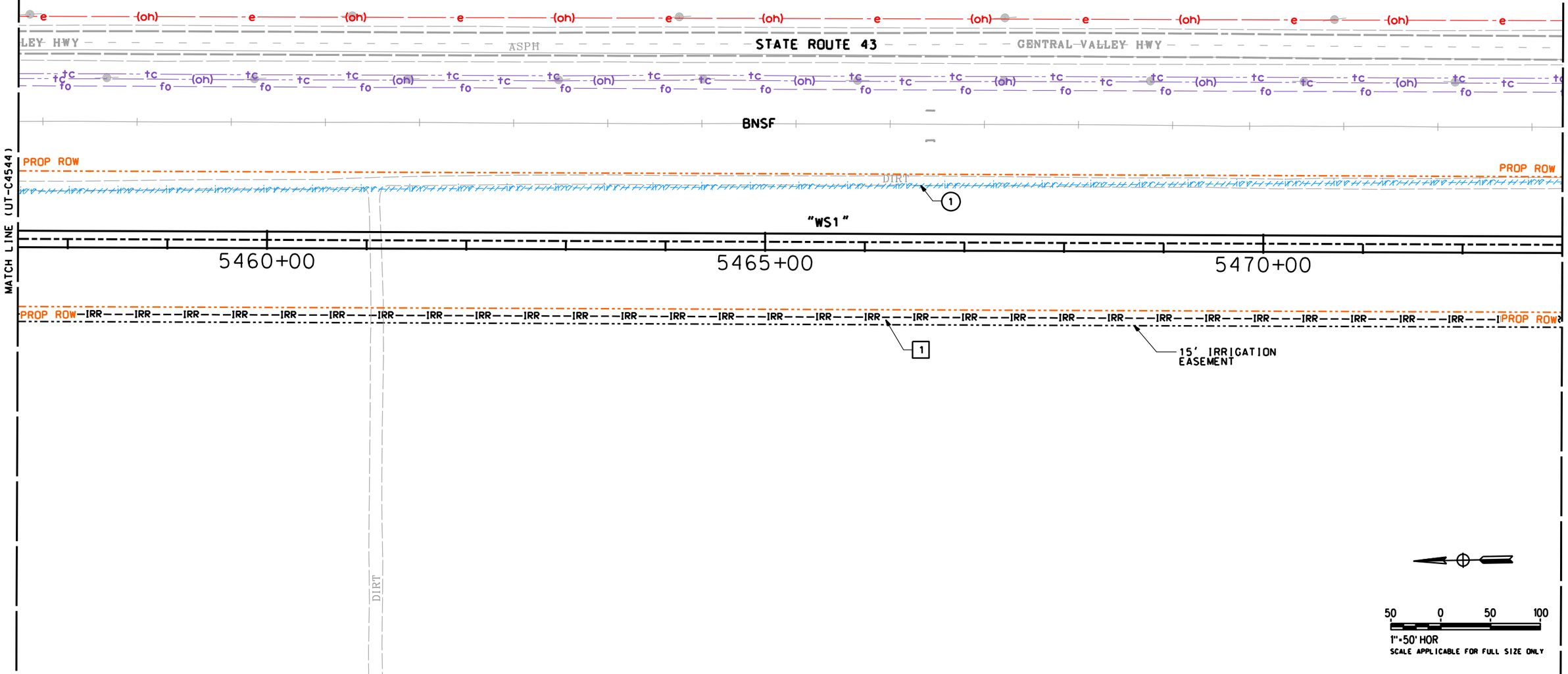
CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
PACKAGE 4 - ALIGNMENT WS1
UTILITIES
COMPOSITE UTILITY PLAN
STA 5442+00 TO 5457+50

CONTRACT NO. HSR 06-0003
DRAWING NO. UT-C4544
SCALE AS SHOWN
SHEET NO. 53 OF 163

Sylvie 11/20/2015 03:57:59 PM stcol.tbl pdf.pltcfg S-UT-C4544.dgn

UTILITY INFORMATION

NO.	FACILITY	SIZE	OWNER	DISPOSITION
(1)	IRRIGATION	18"	NORTH KERN WATER STORAGE DISTRICT	RELOCATE
[1]	IRRIGATION	18"	NORTH KERN WATER STORAGE DISTRICT	PROPOSED



REV	DATE	BY	CHK	APP	DESCRIPTION

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IN CHARGE S. BURGES
DATE 09/30/14

PROPOSED PRELIMINARY DESIGN

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MARRS

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
PACKAGE 4 - ALIGNMENT WS1
UTILITIES
COMPOSITE UTILITY PLAN
STA 5457+50 TO 5473+00

CONTRACT NO. HSR 06-0003
DRAWING NO. UT-C4545
SCALE AS SHOWN
SHEET NO. 54 OF 103

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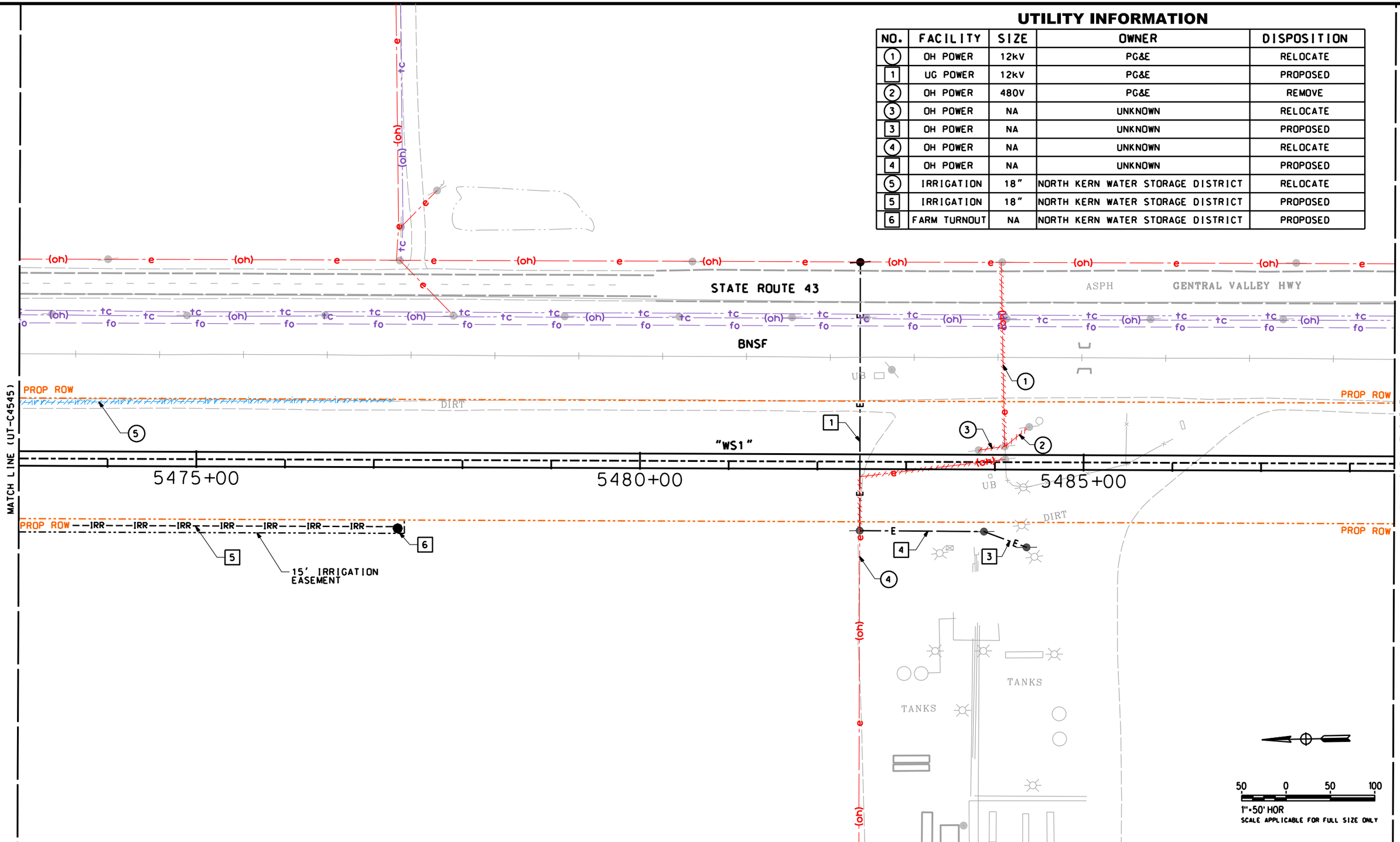
UTILITY INFORMATION

NO.	FACILITY	SIZE	OWNER	DISPOSITION
(1)	OH POWER	12kV	PG&E	RELOCATE
[1]	UG POWER	12kV	PG&E	PROPOSED
(2)	OH POWER	480V	PG&E	REMOVE
(3)	OH POWER	NA	UNKNOWN	RELOCATE
[3]	OH POWER	NA	UNKNOWN	PROPOSED
(4)	OH POWER	NA	UNKNOWN	RELOCATE
[4]	OH POWER	NA	UNKNOWN	PROPOSED
(5)	IRRIGATION	18"	NORTH KERN WATER STORAGE DISTRICT	RELOCATE
[5]	IRRIGATION	18"	NORTH KERN WATER STORAGE DISTRICT	PROPOSED
[6]	FARM TURNOUT	NA	NORTH KERN WATER STORAGE DISTRICT	PROPOSED



REV	DATE	BY	CHK	APP	DESCRIPTION

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CALIFORNIA HIGH-SPEED RAIL AUTHORITY

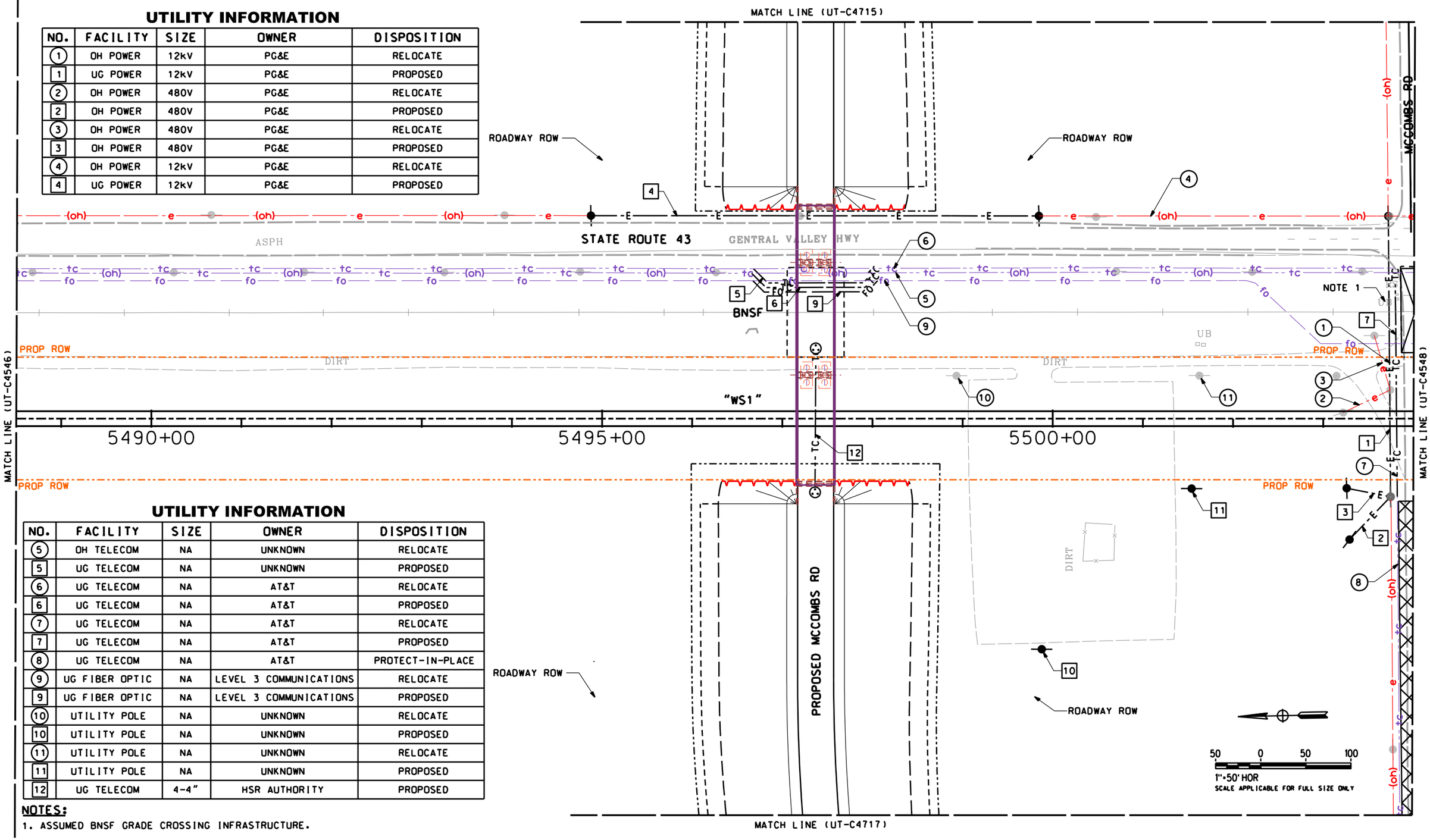
CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
PACKAGE 4 - ALIGNMENT WS1
UTILITIES
COMPOSITE UTILITY PLAN
STA 5473+00 TO 5488+50

CONTRACT NO. HSR 06-0003
DRAWING NO. UT-C4546
SCALE AS SHOWN
SHEET NO. 55 OF 163

S-UT-C4546.dgn pdf.pltcfg stcol.tbl 11/20/2015 03:58:02 PM Sylvie

UTILITY INFORMATION

NO.	FACILITY	SIZE	OWNER	DISPOSITION
(1)	OH POWER	12kV	PG&E	RELOCATE
[1]	UG POWER	12kV	PG&E	PROPOSED
(2)	OH POWER	480V	PG&E	RELOCATE
[2]	OH POWER	480V	PG&E	PROPOSED
(3)	OH POWER	480V	PG&E	RELOCATE
[3]	OH POWER	480V	PG&E	PROPOSED
(4)	OH POWER	12kV	PG&E	RELOCATE
[4]	UG POWER	12kV	PG&E	PROPOSED



UTILITY INFORMATION

NO.	FACILITY	SIZE	OWNER	DISPOSITION
(5)	OH TELECOM	NA	UNKNOWN	RELOCATE
[5]	UG TELECOM	NA	UNKNOWN	PROPOSED
(6)	UG TELECOM	NA	AT&T	RELOCATE
[6]	UG TELECOM	NA	AT&T	PROPOSED
(7)	UG TELECOM	NA	AT&T	RELOCATE
[7]	UG TELECOM	NA	AT&T	PROPOSED
(8)	UG TELECOM	NA	AT&T	PROTECT-IN-PLACE
(9)	UG FIBER OPTIC	NA	LEVEL 3 COMMUNICATIONS	RELOCATE
[9]	UG FIBER OPTIC	NA	LEVEL 3 COMMUNICATIONS	PROPOSED
(10)	UTILITY POLE	NA	UNKNOWN	RELOCATE
[10]	UTILITY POLE	NA	UNKNOWN	PROPOSED
(11)	UTILITY POLE	NA	UNKNOWN	RELOCATE
[11]	UTILITY POLE	NA	UNKNOWN	PROPOSED
[12]	UG TELECOM	4-4"	HSR AUTHORITY	PROPOSED

NOTES:

1. ASSUMED BNSF GRADE CROSSING INFRASTRUCTURE.

REV	DATE	BY	CHK	APP	DESCRIPTION

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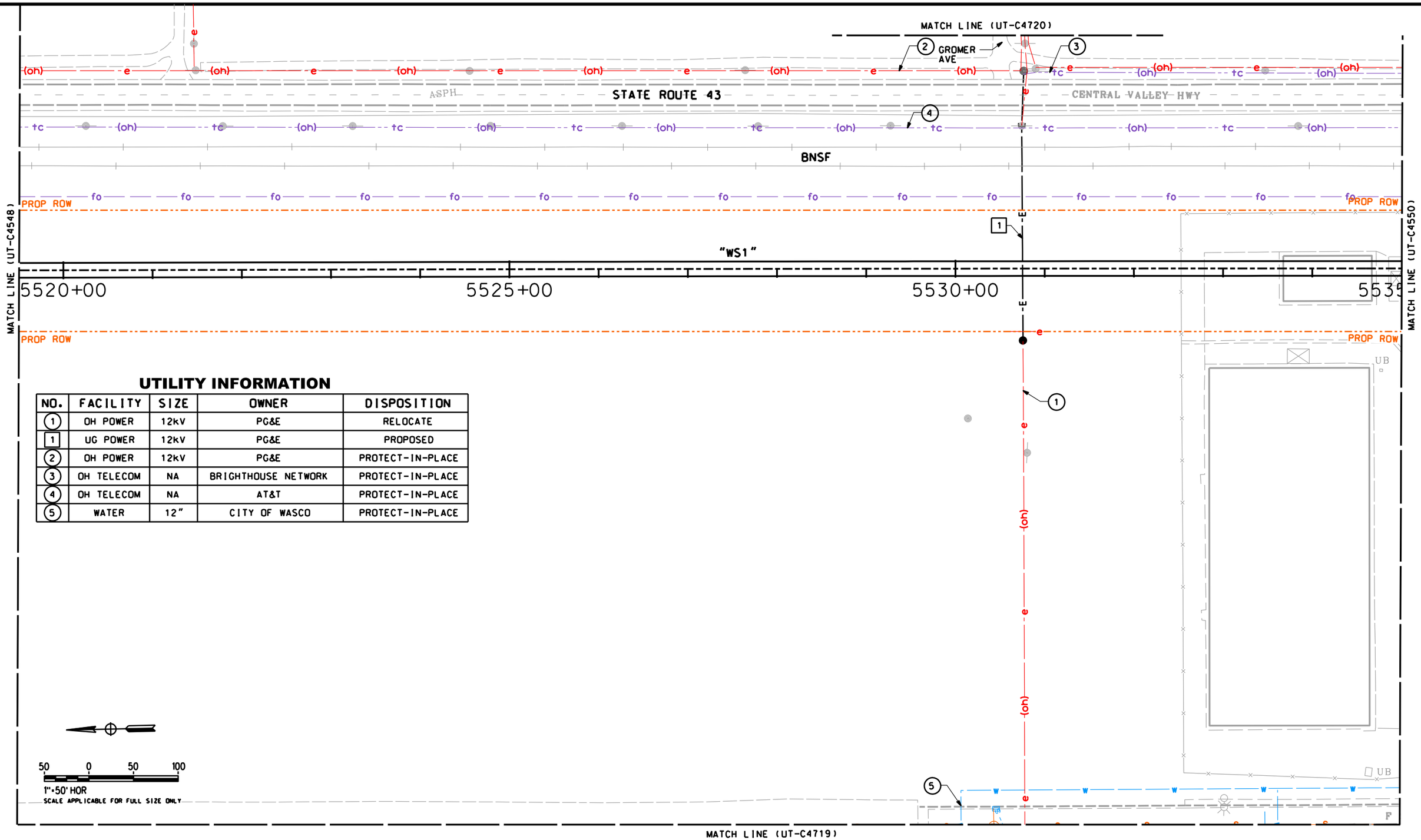
CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
PACKAGE 4 - ALIGNMENT WS1
UTILITIES
COMPOSITE UTILITY PLAN
STA 5488+50 TO 5504+00

CONTRACT NO. HSR 06-0003
DRAWING NO. UT-C4547
SCALE AS SHOWN
SHEET NO. 56 OF 163

S-UT-C4547.dgn pdf.pltcfg stcol.tbl 11/20/2015 03:58:03 PM Sylvie



UTILITY INFORMATION

NO.	FACILITY	SIZE	OWNER	DISPOSITION
1	OH POWER	12kV	PG&E	RELOCATE
1	UG POWER	12kV	PG&E	PROPOSED
2	OH POWER	12kV	PG&E	PROTECT-IN-PLACE
3	OH TELECOM	NA	BRIGHTHOUSE NETWORK	PROTECT-IN-PLACE
4	OH TELECOM	NA	AT&T	PROTECT-IN-PLACE
5	WATER	12"	CITY OF WASCO	PROTECT-IN-PLACE

REV	DATE	BY	CHK	APP	DESCRIPTION

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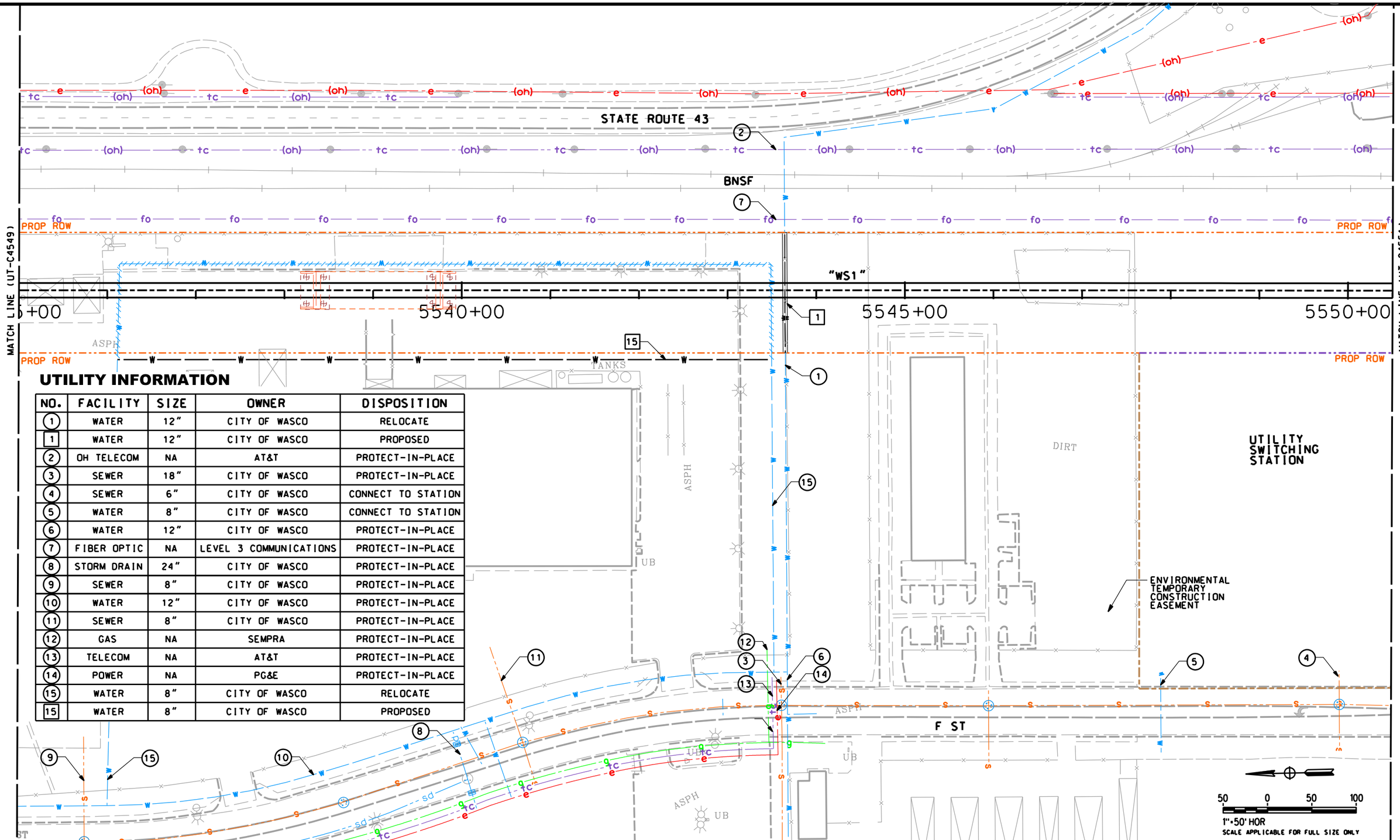
CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
PACKAGE 4 - ALIGNMENT WS1
UTILITIES
COMPOSITE UTILITY PLAN
STA 5519+50 TO 5535+00

CONTRACT NO. HSR 06-0003
DRAWING NO. UT-C4549
SCALE AS SHOWN
SHEET NO. 58 OF 163

S-UT-C4549.dgn pdf.pltcfg stcol.tbl 11/20/2015 3:58:04 PM Sylvie



UTILITY INFORMATION

NO.	FACILITY	SIZE	OWNER	DISPOSITION
1	WATER	12"	CITY OF WASCO	RELOCATE
1	WATER	12"	CITY OF WASCO	PROPOSED
2	OH TELECOM	NA	AT&T	PROTECT-IN-PLACE
3	SEWER	18"	CITY OF WASCO	PROTECT-IN-PLACE
4	SEWER	6"	CITY OF WASCO	CONNECT TO STATION
5	WATER	8"	CITY OF WASCO	CONNECT TO STATION
6	WATER	12"	CITY OF WASCO	PROTECT-IN-PLACE
7	FIBER OPTIC	NA	LEVEL 3 COMMUNICATIONS	PROTECT-IN-PLACE
8	STORM DRAIN	24"	CITY OF WASCO	PROTECT-IN-PLACE
9	SEWER	8"	CITY OF WASCO	PROTECT-IN-PLACE
10	WATER	12"	CITY OF WASCO	PROTECT-IN-PLACE
11	SEWER	8"	CITY OF WASCO	PROTECT-IN-PLACE
12	GAS	NA	SEMPRA	PROTECT-IN-PLACE
13	TELECOM	NA	AT&T	PROTECT-IN-PLACE
14	POWER	NA	PG&E	PROTECT-IN-PLACE
15	WATER	8"	CITY OF WASCO	RELOCATE
15	WATER	8"	CITY OF WASCO	PROPOSED

REV	DATE	BY	CHK	APP	DESCRIPTION

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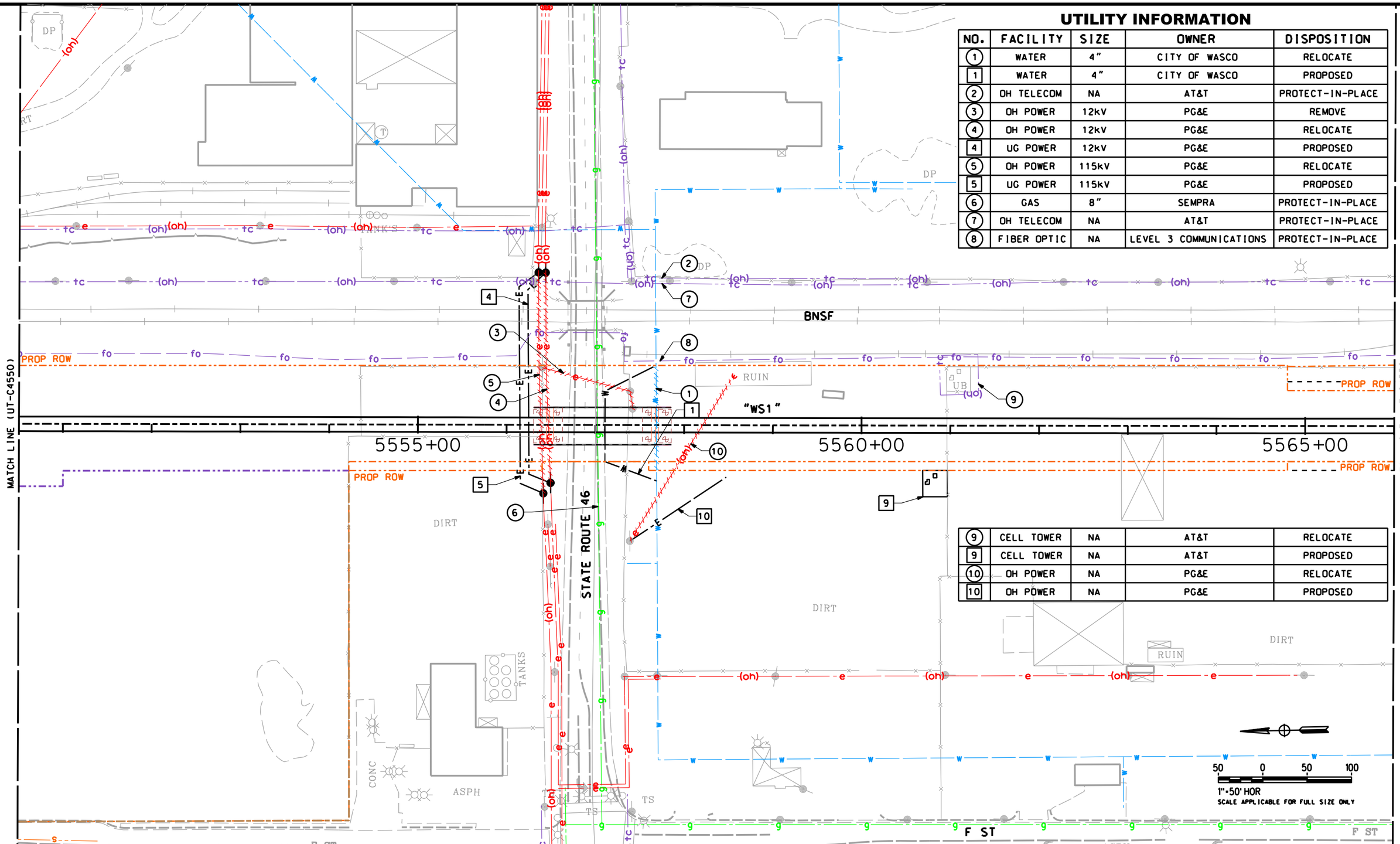
MARRS

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
PACKAGE 4 - ALIGNMENT WS1
UTILITIES
COMPOSITE UTILITY PLAN
STA 5535+00 TO 5550+50

CONTRACT NO. HSR 06-0003
DRAWING NO. UT-C4550
SCALE AS SHOWN
SHEET NO. 59 OF 163

S-UT-C4550.dgn pdf.pltcfg stcol.tbl 11/20/2015 03:58:05 PM Sylvie



UTILITY INFORMATION

NO.	FACILITY	SIZE	OWNER	DISPOSITION
1	WATER	4"	CITY OF WASCO	RELOCATE
1	WATER	4"	CITY OF WASCO	PROPOSED
2	OH TELECOM	NA	AT&T	PROTECT-IN-PLACE
3	OH POWER	12kV	PG&E	REMOVE
4	OH POWER	12kV	PG&E	RELOCATE
4	UG POWER	12kV	PG&E	PROPOSED
5	OH POWER	115kV	PG&E	RELOCATE
5	UG POWER	115kV	PG&E	PROPOSED
6	GAS	8"	SEMPRA	PROTECT-IN-PLACE
7	OH TELECOM	NA	AT&T	PROTECT-IN-PLACE
8	FIBER OPTIC	NA	LEVEL 3 COMMUNICATIONS	PROTECT-IN-PLACE
9	CELL TOWER	NA	AT&T	RELOCATE
9	CELL TOWER	NA	AT&T	PROPOSED
10	OH POWER	NA	PG&E	RELOCATE
10	OH POWER	NA	PG&E	PROPOSED

REV	DATE	BY	CHK	APP	DESCRIPTION

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PROPOSED PRELIMINARY DESIGN

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MARRS

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

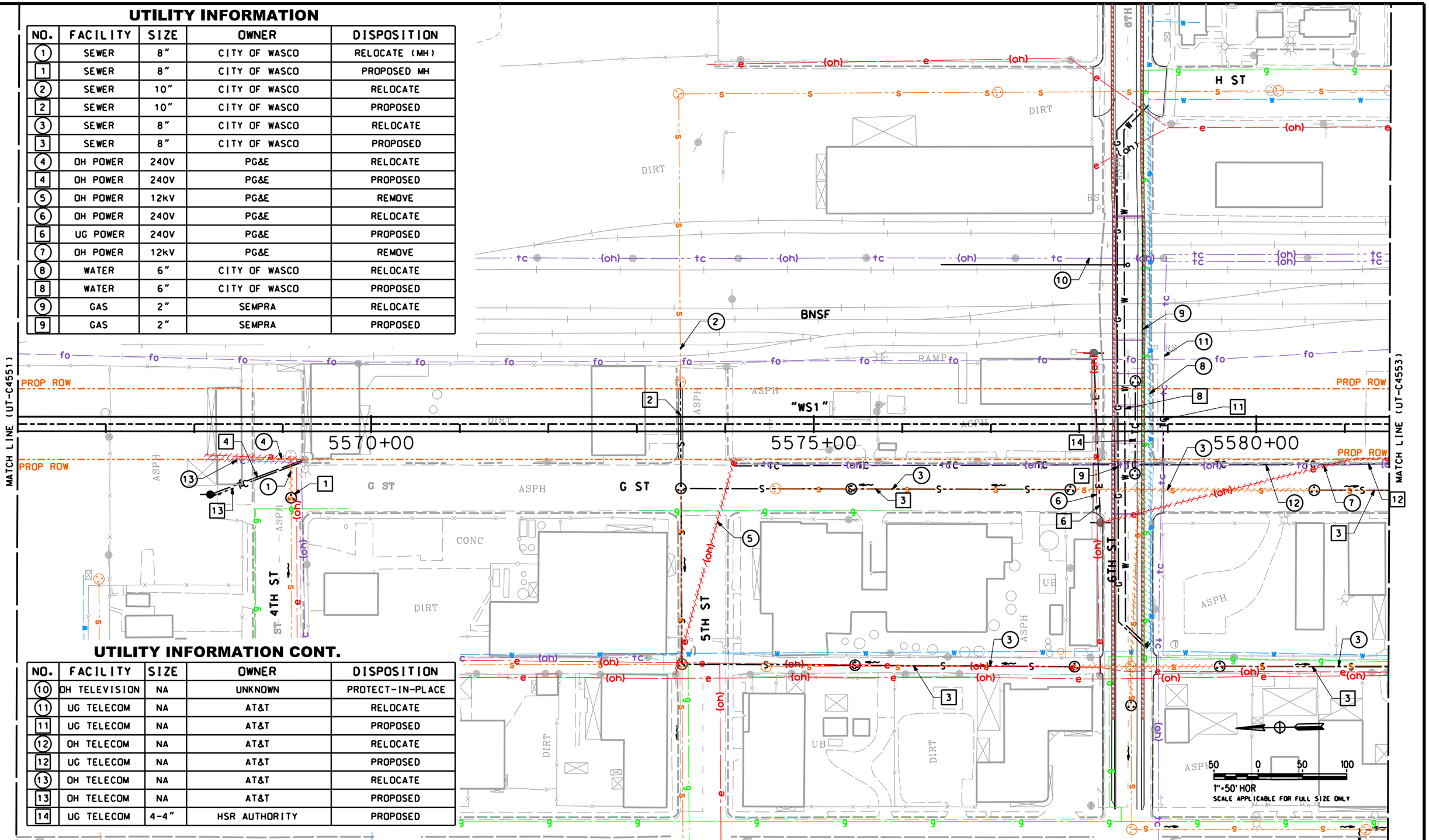
CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
PACKAGE 4 - ALIGNMENT WS1
UTILITIES
COMPOSITE UTILITY PLAN
STA 5550+50 TO 5566+00

CONTRACT NO. HSR 06-0003
DRAWING NO. UT-C4551
SCALE AS SHOWN
SHEET NO. 60 OF 163

S-UT-C4551.dgn pdf.pltcfg 11/20/2015 3:58:06 PM stcol.tbl Sylvie

UTILITY INFORMATION

NO.	FACILITY	SIZE	OWNER	DISPOSITION
(1)	SEWER	8"	CITY OF WASCO	RELOCATE (MH)
[1]	SEWER	8"	CITY OF WASCO	PROPOSED MH
(2)	SEWER	10"	CITY OF WASCO	RELOCATE
[2]	SEWER	10"	CITY OF WASCO	PROPOSED
(3)	SEWER	8"	CITY OF WASCO	RELOCATE
[3]	SEWER	8"	CITY OF WASCO	PROPOSED
(4)	OH POWER	240V	PG&E	RELOCATE
[4]	OH POWER	240V	PG&E	PROPOSED
(5)	OH POWER	12kV	PG&E	REMOVE
(6)	OH POWER	240V	PG&E	RELOCATE
[6]	UG POWER	240V	PG&E	PROPOSED
(7)	OH POWER	12kV	PG&E	REMOVE
(8)	WATER	6"	CITY OF WASCO	RELOCATE
[8]	WATER	6"	CITY OF WASCO	PROPOSED
(9)	GAS	2"	SEMPRA	RELOCATE
[9]	GAS	2"	SEMPRA	PROPOSED



UTILITY INFORMATION CONT.

NO.	FACILITY	SIZE	OWNER	DISPOSITION
(10)	OH TELEVISION	NA	UNKNOWN	PROTECT-IN-PLACE
(11)	UG TELECOM	NA	AT&T	RELOCATE
[11]	UG TELECOM	NA	AT&T	PROPOSED
(12)	OH TELECOM	NA	AT&T	RELOCATE
[12]	UG TELECOM	NA	AT&T	PROPOSED
(13)	OH TELECOM	NA	AT&T	RELOCATE
[13]	OH TELECOM	NA	AT&T	PROPOSED
[14]	UG TELECOM	4-4"	HSR AUTHORITY	PROPOSED

REV	DATE	BY	CHK	APP	DESCRIPTION

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PROPOSED PRELIMINARY DESIGN

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CALIFORNIA HIGH-SPEED RAIL AUTHORITY

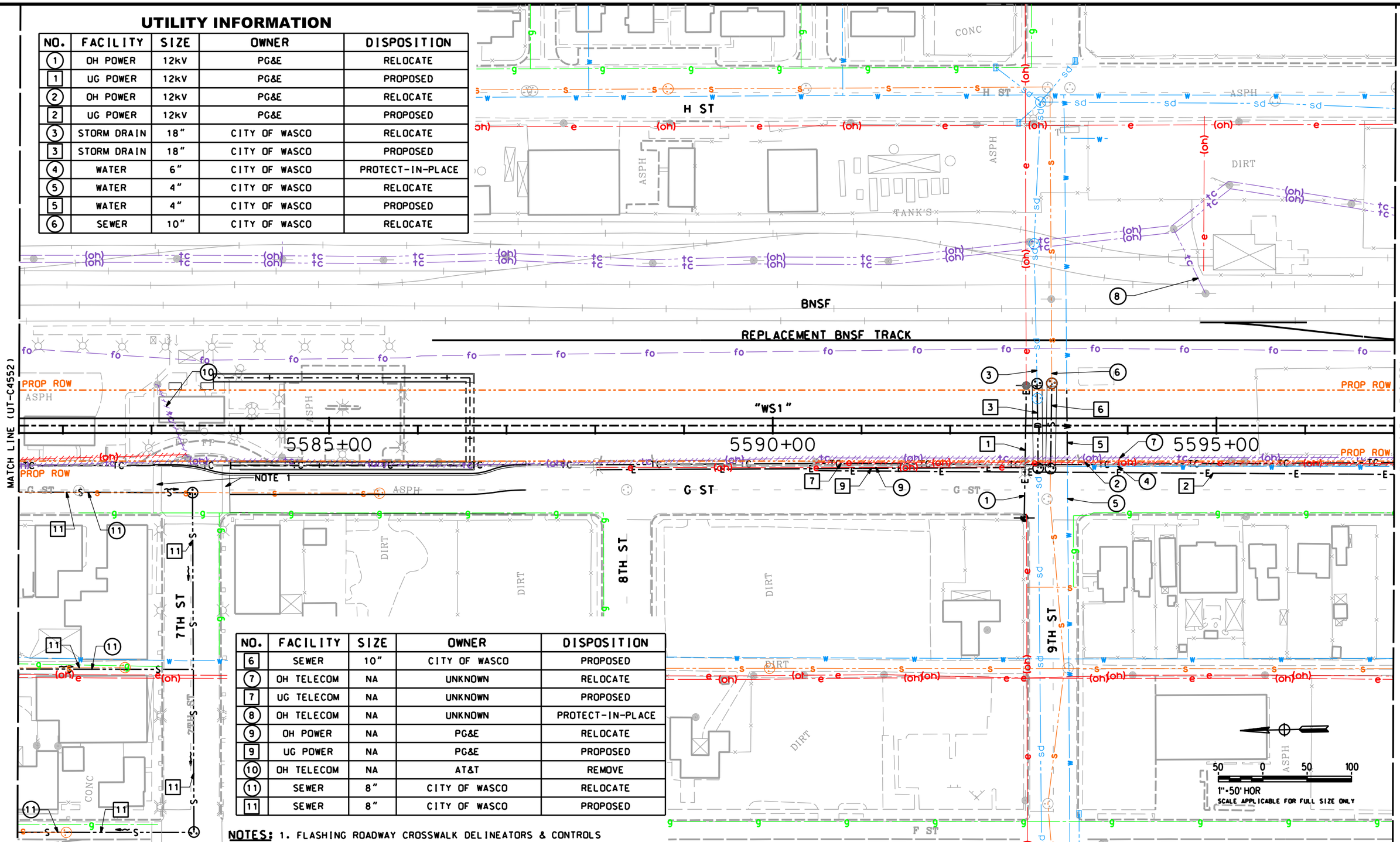
CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
PACKAGE 4 - ALIGNMENT WS1
UTILITIES
COMPOSITE UTILITY PLAN
STA 5566+00 TO 5581+50

CONTRACT NO. HSR 06-0003
DRAWING NO. UT-C4552
SCALE AS SHOWN
SHEET NO. 61 OF 163

S-UT-C4552.dgn pdf.pltcfg stcol.tbl 11/20/2015 3:58:07 PM Sylvie

UTILITY INFORMATION

NO.	FACILITY	SIZE	OWNER	DISPOSITION
1	OH POWER	12kV	PG&E	RELOCATE
1	UG POWER	12kV	PG&E	PROPOSED
2	OH POWER	12kV	PG&E	RELOCATE
2	UG POWER	12kV	PG&E	PROPOSED
3	STORM DRAIN	18"	CITY OF WASCO	RELOCATE
3	STORM DRAIN	18"	CITY OF WASCO	PROPOSED
4	WATER	6"	CITY OF WASCO	PROTECT-IN-PLACE
5	WATER	4"	CITY OF WASCO	RELOCATE
5	WATER	4"	CITY OF WASCO	PROPOSED
6	SEWER	10"	CITY OF WASCO	RELOCATE



NO.	FACILITY	SIZE	OWNER	DISPOSITION
6	SEWER	10"	CITY OF WASCO	PROPOSED
7	OH TELECOM	NA	UNKNOWN	RELOCATE
7	UG TELECOM	NA	UNKNOWN	PROPOSED
8	OH TELECOM	NA	UNKNOWN	PROTECT-IN-PLACE
9	OH POWER	NA	PG&E	RELOCATE
9	UG POWER	NA	PG&E	PROPOSED
10	OH TELECOM	NA	AT&T	REMOVE
11	SEWER	8"	CITY OF WASCO	RELOCATE
11	SEWER	8"	CITY OF WASCO	PROPOSED

NOTES: 1. FLASHING ROADWAY CROSSWALK DELINEATORS & CONTROLS

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CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
PACKAGE 4 - ALIGNMENT WS1
UTILITIES
COMPOSITE UTILITY PLAN
STA 5581+50 TO 5597+00

CONTRACT NO. HSR 06-0003
DRAWING NO. UT-C4553
SCALE AS SHOWN
SHEET NO. 62 OF 163

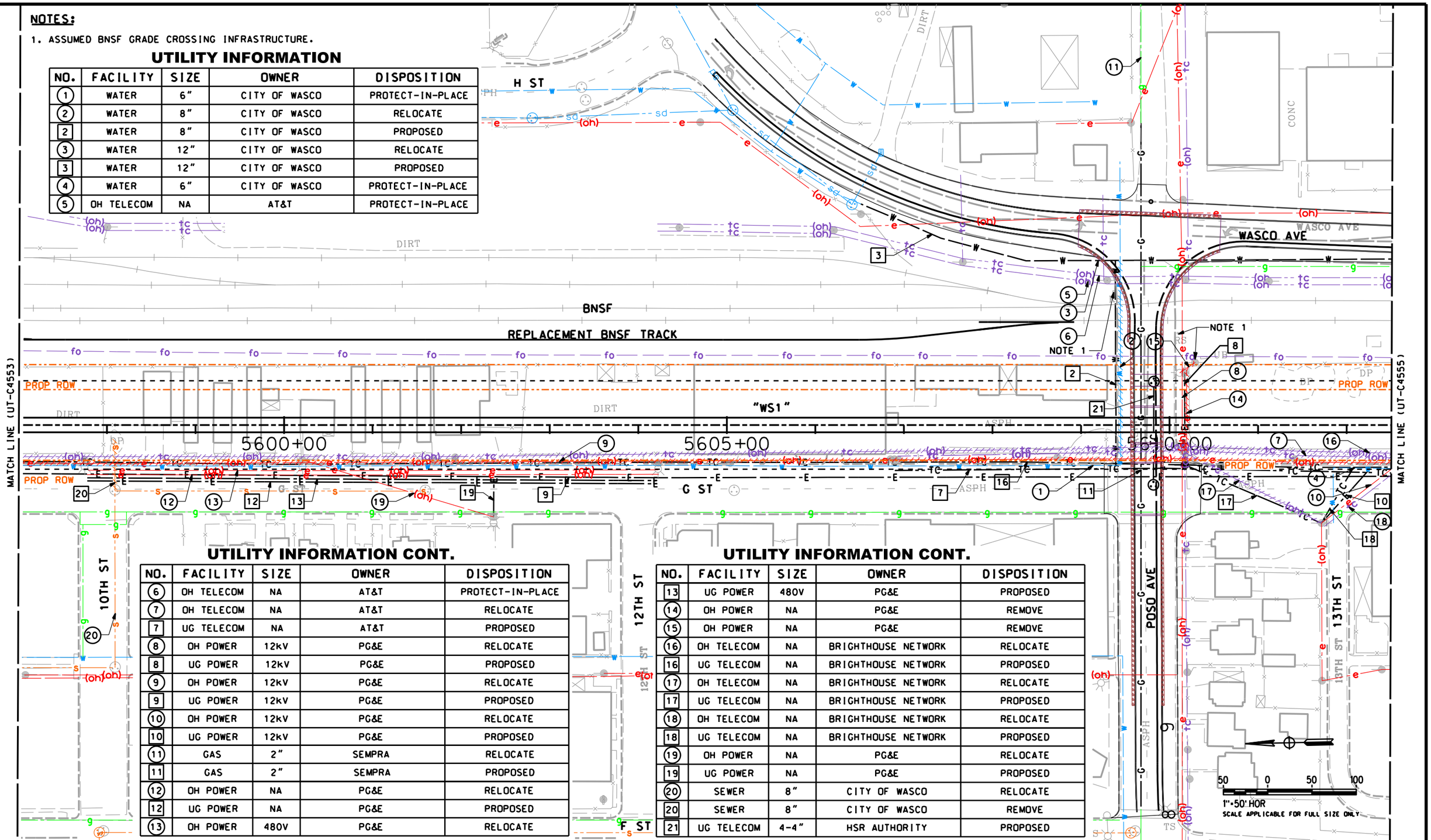
S-UT-C4553.dgn pdf.pltcfg stcol.tbl 11/20/2013 3:58:08 PM Sylvie

NOTES:

1. ASSUMED BNSF GRADE CROSSING INFRASTRUCTURE.

UTILITY INFORMATION

NO.	FACILITY	SIZE	OWNER	DISPOSITION
1	WATER	6"	CITY OF WASCO	PROTECT-IN-PLACE
2	WATER	8"	CITY OF WASCO	RELOCATE
2	WATER	8"	CITY OF WASCO	PROPOSED
3	WATER	12"	CITY OF WASCO	RELOCATE
3	WATER	12"	CITY OF WASCO	PROPOSED
4	WATER	6"	CITY OF WASCO	PROTECT-IN-PLACE
5	OH TELECOM	NA	AT&T	PROTECT-IN-PLACE



UTILITY INFORMATION CONT.

NO.	FACILITY	SIZE	OWNER	DISPOSITION
6	OH TELECOM	NA	AT&T	PROTECT-IN-PLACE
7	OH TELECOM	NA	AT&T	RELOCATE
7	UG TELECOM	NA	AT&T	PROPOSED
8	OH POWER	12kV	PG&E	RELOCATE
8	UG POWER	12kV	PG&E	PROPOSED
9	OH POWER	12kV	PG&E	RELOCATE
9	UG POWER	12kV	PG&E	PROPOSED
10	OH POWER	12kV	PG&E	RELOCATE
10	UG POWER	12kV	PG&E	PROPOSED
11	GAS	2"	SEMPRA	RELOCATE
11	GAS	2"	SEMPRA	PROPOSED
12	OH POWER	NA	PG&E	RELOCATE
12	UG POWER	NA	PG&E	PROPOSED
13	OH POWER	480V	PG&E	RELOCATE

UTILITY INFORMATION CONT.

NO.	FACILITY	SIZE	OWNER	DISPOSITION
13	UG POWER	480V	PG&E	PROPOSED
14	OH POWER	NA	PG&E	REMOVE
15	OH POWER	NA	PG&E	REMOVE
16	OH TELECOM	NA	BRIGHTHOUSE NETWORK	RELOCATE
16	UG TELECOM	NA	BRIGHTHOUSE NETWORK	PROPOSED
17	OH TELECOM	NA	BRIGHTHOUSE NETWORK	RELOCATE
17	UG TELECOM	NA	BRIGHTHOUSE NETWORK	PROPOSED
18	OH TELECOM	NA	BRIGHTHOUSE NETWORK	RELOCATE
18	UG TELECOM	NA	BRIGHTHOUSE NETWORK	PROPOSED
19	OH POWER	NA	PG&E	RELOCATE
19	UG POWER	NA	PG&E	PROPOSED
20	SEWER	8"	CITY OF WASCO	RELOCATE
20	SEWER	8"	CITY OF WASCO	REMOVE
21	UG TELECOM	4-4"	HSR AUTHORITY	PROPOSED

REV	DATE	BY	CHK	APP	DESCRIPTION

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CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
PACKAGE 4 - ALIGNMENT WS1
UTILITIES
COMPOSITE UTILITY PLAN
STA 5597+00 TO 5612+50

CONTRACT NO. HSR 06-0003
DRAWING NO. UT-C4554
SCALE AS SHOWN
SHEET NO. 63 OF 163

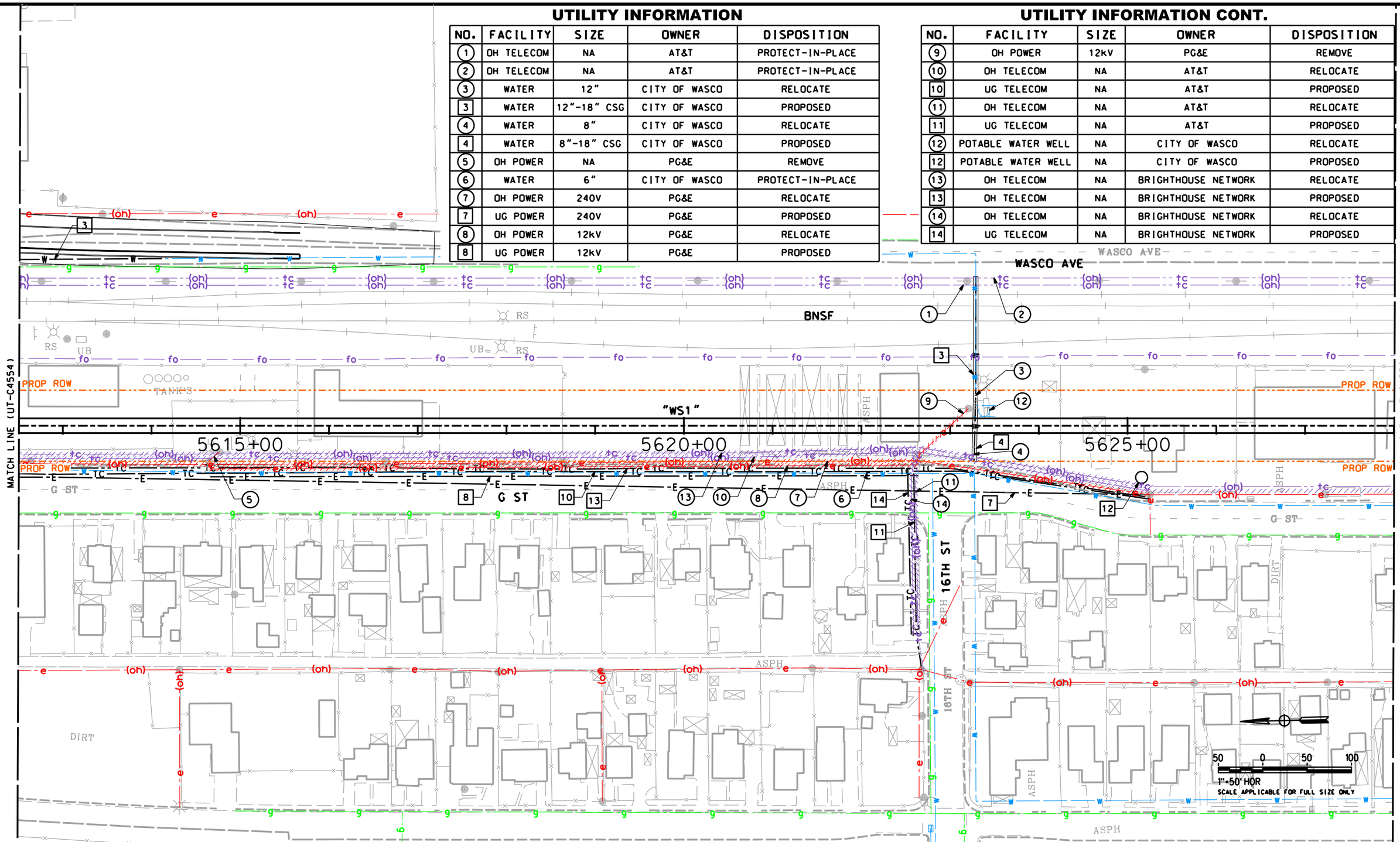
11/20/2015 03:58:16 PM stcol.tbl pdf.pltcfg S-UT-C4554.dgn Sylvie

UTILITY INFORMATION

NO.	FACILITY	SIZE	OWNER	DISPOSITION
1	OH TELECOM	NA	AT&T	PROTECT-IN-PLACE
2	OH TELECOM	NA	AT&T	PROTECT-IN-PLACE
3	WATER	12"	CITY OF WASCO	RELOCATE
3	WATER	12"-18" CSG	CITY OF WASCO	PROPOSED
4	WATER	8"	CITY OF WASCO	RELOCATE
4	WATER	8"-18" CSG	CITY OF WASCO	PROPOSED
5	OH POWER	NA	PG&E	REMOVE
6	WATER	6"	CITY OF WASCO	PROTECT-IN-PLACE
7	OH POWER	240V	PG&E	RELOCATE
7	UG POWER	240V	PG&E	PROPOSED
8	OH POWER	12kV	PG&E	RELOCATE
8	UG POWER	12kV	PG&E	PROPOSED

UTILITY INFORMATION CONT.

NO.	FACILITY	SIZE	OWNER	DISPOSITION
9	OH POWER	12kV	PG&E	REMOVE
10	OH TELECOM	NA	AT&T	RELOCATE
10	UG TELECOM	NA	AT&T	PROPOSED
11	OH TELECOM	NA	AT&T	RELOCATE
11	UG TELECOM	NA	AT&T	PROPOSED
12	POTABLE WATER WELL	NA	CITY OF WASCO	RELOCATE
12	POTABLE WATER WELL	NA	CITY OF WASCO	PROPOSED
13	OH TELECOM	NA	BRIGHTHOUSE NETWORK	RELOCATE
13	OH TELECOM	NA	BRIGHTHOUSE NETWORK	PROPOSED
14	OH TELECOM	NA	BRIGHTHOUSE NETWORK	RELOCATE
14	UG TELECOM	NA	BRIGHTHOUSE NETWORK	PROPOSED



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MARRS

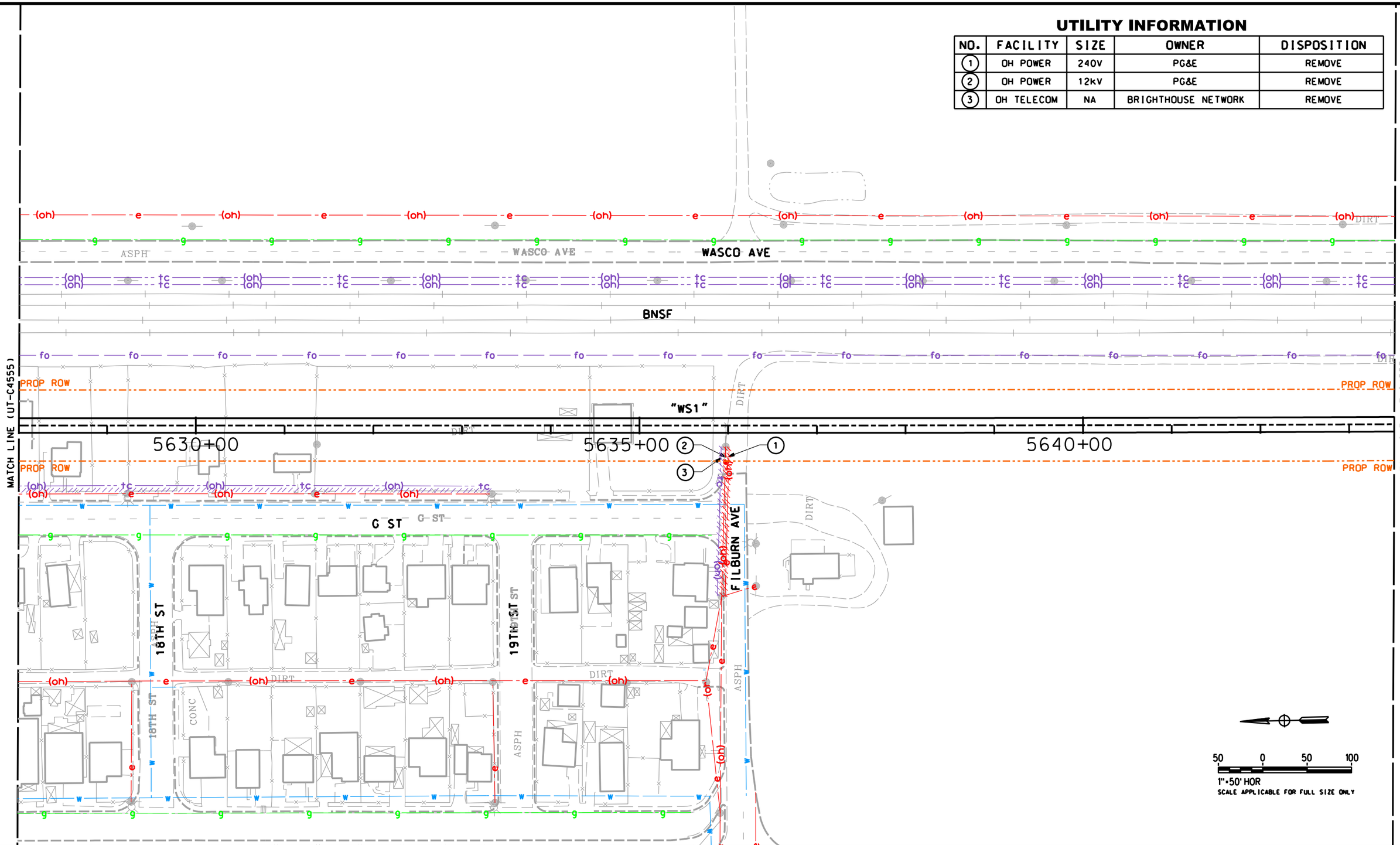
CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
PACKAGE 4 - ALIGNMENT WS1
UTILITIES
COMPOSITE UTILITY PLAN
STA 5612+50 TO 5628+00

CONTRACT NO. HSR 06-0003
DRAWING NO. UT-C4555
SCALE AS SHOWN
SHEET NO. 64 OF 163

UTILITY INFORMATION

NO.	FACILITY	SIZE	OWNER	DISPOSITION
1	OH POWER	240V	PG&E	REMOVE
2	OH POWER	12kV	PG&E	REMOVE
3	OH TELECOM	NA	BRIGHTHOUSE NETWORK	REMOVE



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CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
PACKAGE 4 - ALIGNMENT WS1
UTILITIES
COMPOSITE UTILITY PLAN
STA 5628+00 TO 5643+50

CONTRACT NO. HSR 06-0003
DRAWING NO. UT-C4556
SCALE AS SHOWN
SHEET NO. 65 OF 163

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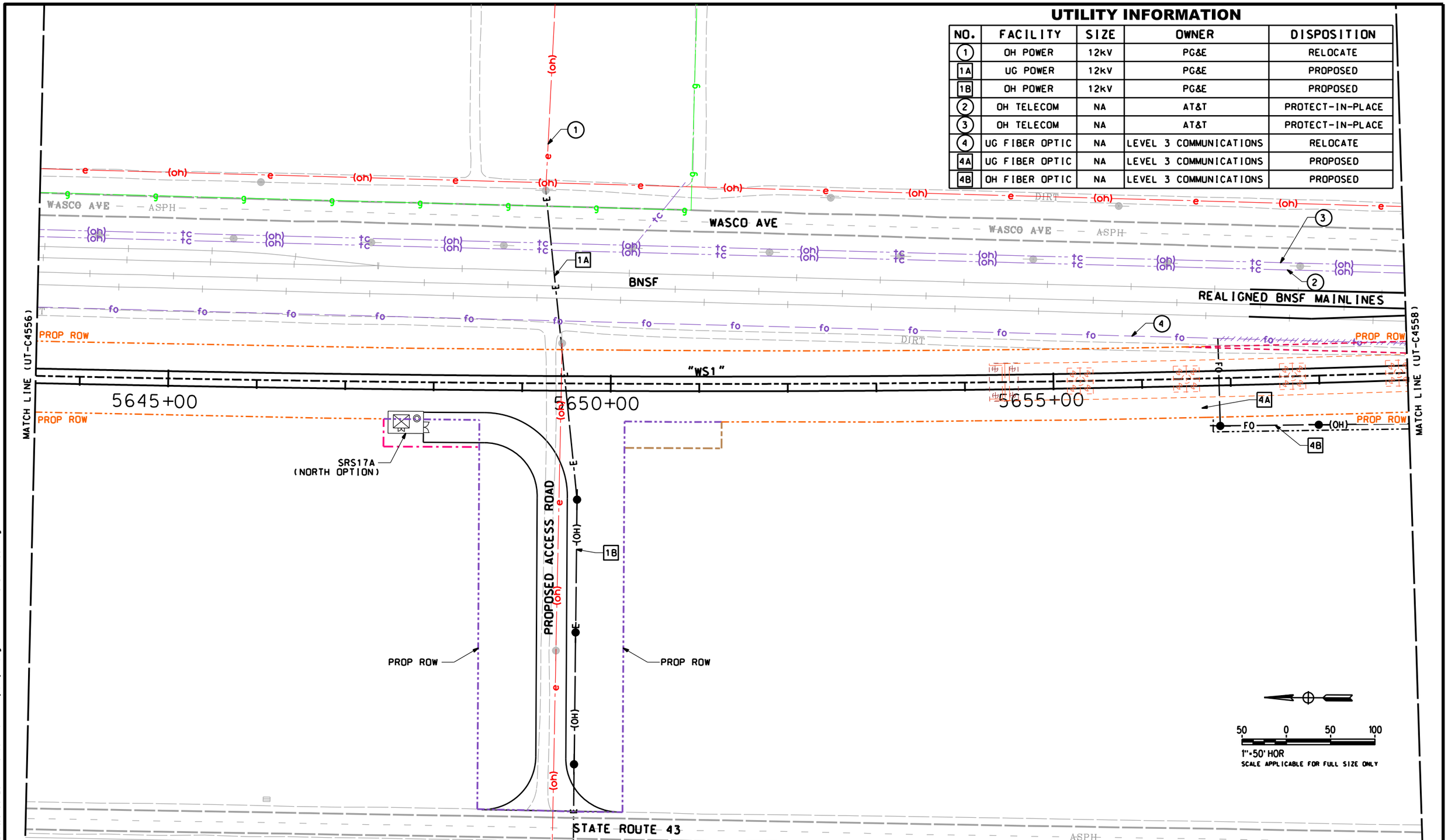
UTILITY INFORMATION

NO.	FACILITY	SIZE	OWNER	DISPOSITION
1	OH POWER	12kV	PG&E	RELOCATE
1A	UG POWER	12kV	PG&E	PROPOSED
1B	OH POWER	12kV	PG&E	PROPOSED
2	OH TELECOM	NA	AT&T	PROTECT-IN-PLACE
3	OH TELECOM	NA	AT&T	PROTECT-IN-PLACE
4	UG FIBER OPTIC	NA	LEVEL 3 COMMUNICATIONS	RELOCATE
4A	UG FIBER OPTIC	NA	LEVEL 3 COMMUNICATIONS	PROPOSED
4B	OH FIBER OPTIC	NA	LEVEL 3 COMMUNICATIONS	PROPOSED



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PROPOSED PRELIMINARY DESIGN

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CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
PACKAGE 4 - ALIGNMENT WS1
UTILITIES
COMPOSITE UTILITY PLAN
STA 5643+50 TO 5659+00

CONTRACT NO. HSR 06-0003
DRAWING NO. UT-C4557
SCALE AS SHOWN
SHEET NO. 66 OF 163

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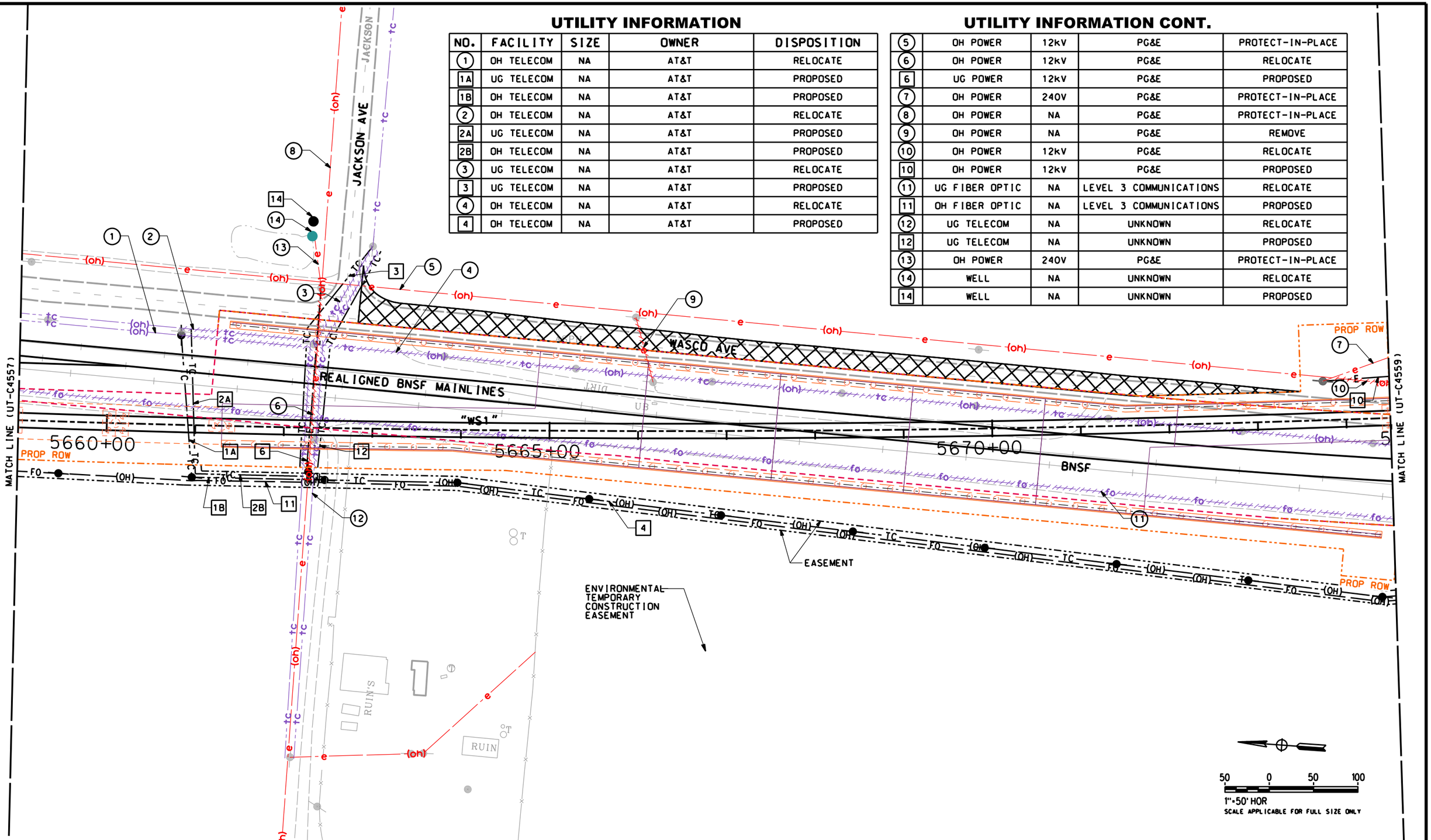
UTILITY INFORMATION

NO.	FACILITY	SIZE	OWNER	DISPOSITION
1	OH TELECOM	NA	AT&T	RELOCATE
1A	UG TELECOM	NA	AT&T	PROPOSED
1B	OH TELECOM	NA	AT&T	PROPOSED
2	OH TELECOM	NA	AT&T	RELOCATE
2A	UG TELECOM	NA	AT&T	PROPOSED
2B	OH TELECOM	NA	AT&T	PROPOSED
3	UG TELECOM	NA	AT&T	RELOCATE
3	UG TELECOM	NA	AT&T	PROPOSED
4	OH TELECOM	NA	AT&T	RELOCATE
4	OH TELECOM	NA	AT&T	PROPOSED

UTILITY INFORMATION CONT.

5	OH POWER	12kV	PG&E	PROTECT-IN-PLACE
6	OH POWER	12kV	PG&E	RELOCATE
6	UG POWER	12kV	PG&E	PROPOSED
7	OH POWER	240V	PG&E	PROTECT-IN-PLACE
8	OH POWER	NA	PG&E	PROTECT-IN-PLACE
9	OH POWER	NA	PG&E	REMOVE
10	OH POWER	12kV	PG&E	RELOCATE
10	OH POWER	12kV	PG&E	PROPOSED
11	UG FIBER OPTIC	NA	LEVEL 3 COMMUNICATIONS	RELOCATE
11	OH FIBER OPTIC	NA	LEVEL 3 COMMUNICATIONS	PROPOSED
12	UG TELECOM	NA	UNKNOWN	RELOCATE
12	UG TELECOM	NA	UNKNOWN	PROPOSED
13	OH POWER	240V	PG&E	PROTECT-IN-PLACE
14	WELL	NA	UNKNOWN	RELOCATE
14	WELL	NA	UNKNOWN	PROPOSED



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CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD

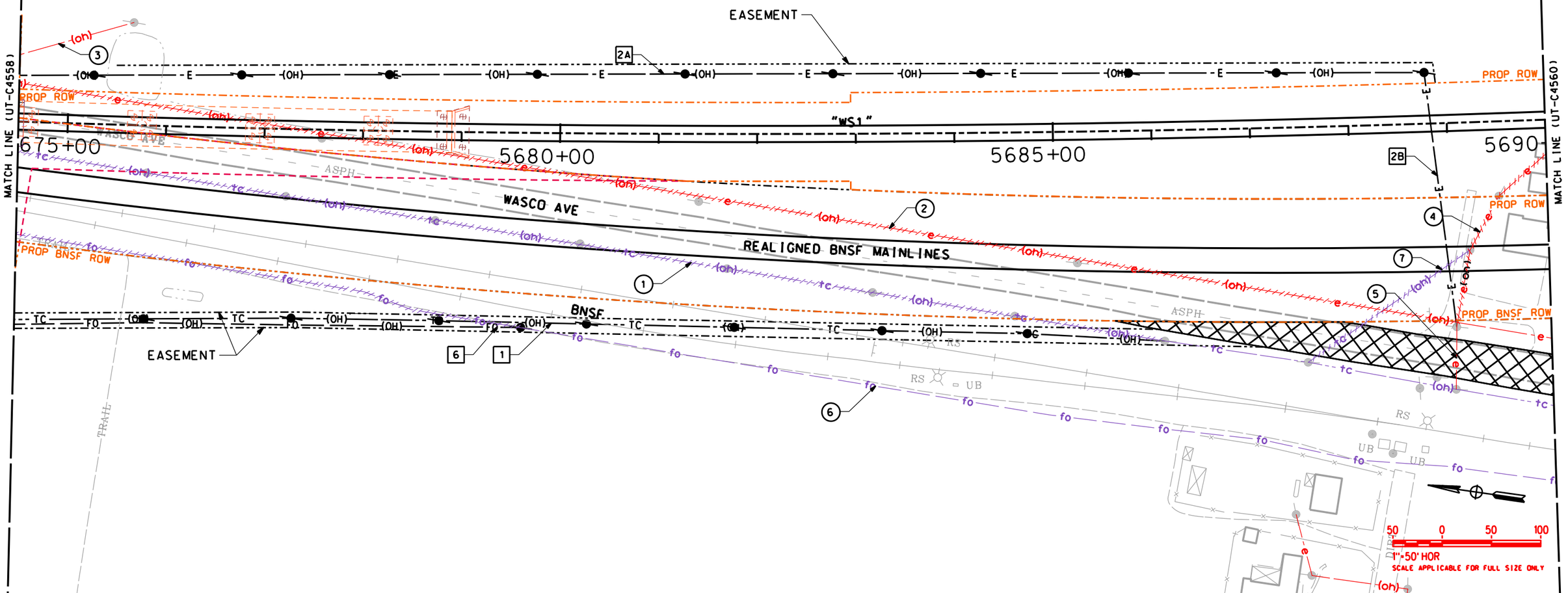
PACKAGE 4 - ALIGNMENT WS1
UTILITIES
COMPOSITE UTILITY PLAN
STA 5659+00 TO 5674+50

CONTRACT NO. HSR 06-0003
DRAWING NO. UT-C4558
SCALE AS SHOWN
SHEET NO. 67 OF 163

S-UT-C4558.dgn pdf.pltcfg stcol.tbl PW 11/20/2015 3:58:21 Sylvie

UTILITY INFORMATION

NO.	FACILITY	SIZE	OWNER	DISPOSITION
1	OH TELECOM	NA	AT&T	RELOCATE
1	OH TELECOM	NA	AT&T	PROPOSED
2	OH POWER	12kV	PG&E	RELOCATE
2A	OH POWER	12kV	PG&E	PROPOSED
2B	UG POWER	12kV	PG&E	PROPOSED
3	OH POWER	240V	PG&E	PROTECT-IN-PLACE
4	OH POWER	240V	PG&E	REMOVE
5	OH POWER	240V	PG&E	PROTECT-IN-PLACE
6	UG FIBER OPTIC	NA	LEVEL 3 COMMUNICATIONS	RELOCATE
6	OH FIBER OPTIC	NA	LEVEL 3 COMMUNICATIONS	PROPOSED
7	OH TELECOM	NA	AT&T	REMOVE



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CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
PACKAGE 4 - ALIGNMENT WS1
UTILITIES
COMPOSITE UTILITY PLAN
STA 5674+50 TO 5690+00

CONTRACT NO. HSR 06-0003
DRAWING NO. UT-C4559
SCALE AS SHOWN
SHEET NO. 68 OF 163

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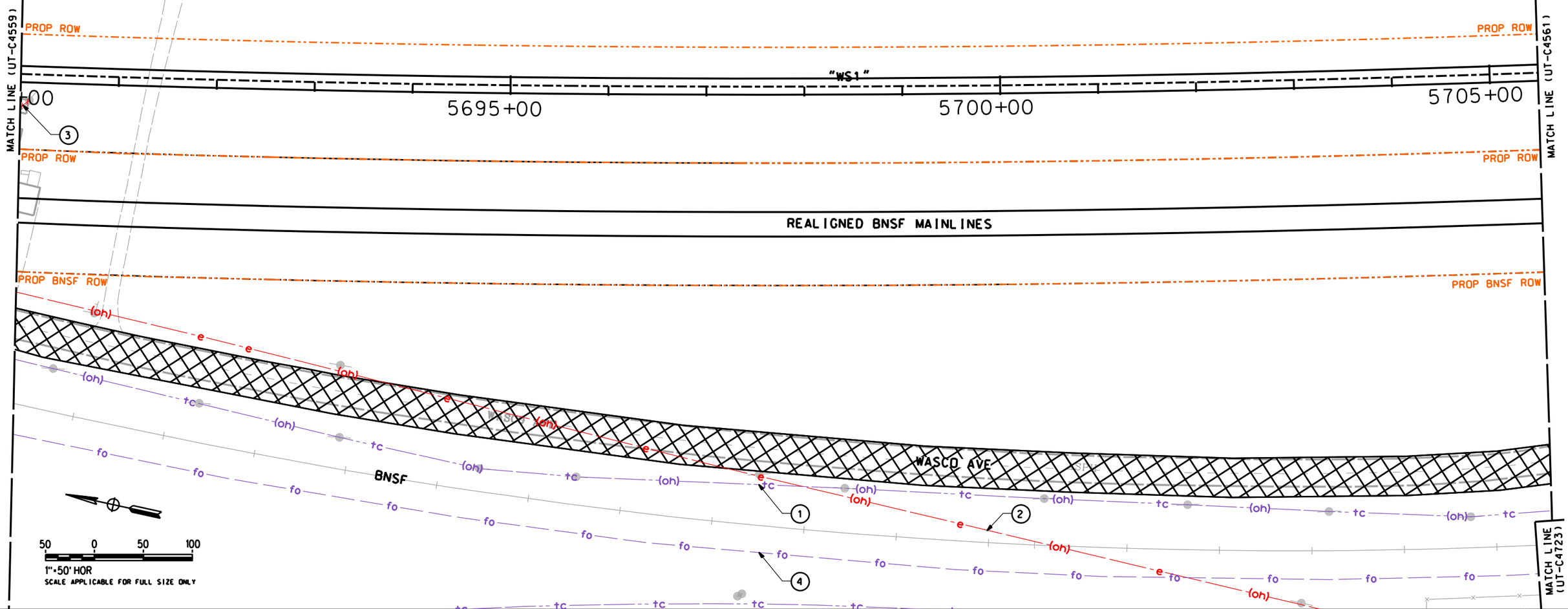
UTILITY INFORMATION

NO.	FACILITY	SIZE	OWNER	DISPOSITION
1	OH TELECOM	NA	AT&T	PROTECT-IN-PLACE
2	OH POWER	12kV	PG&E	PROTECT-IN-PLACE
3	OH POWER	240V	PG&E	REMOVE
4	FIBER OPTIC	NA	LEVEL 3 COMMUNICATIONS	PROTECT-IN-PLACE



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PROPOSED PRELIMINARY DESIGN

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CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
PACKAGE 4 - ALIGNMENT WS1
UTILITIES
COMPOSITE UTILITY PLAN
STA 5690+00 TO 5705+50

CONTRACT NO. HSR 06-0003
DRAWING NO. UT-C4560
SCALE AS SHOWN
SHEET NO. 69 OF 163

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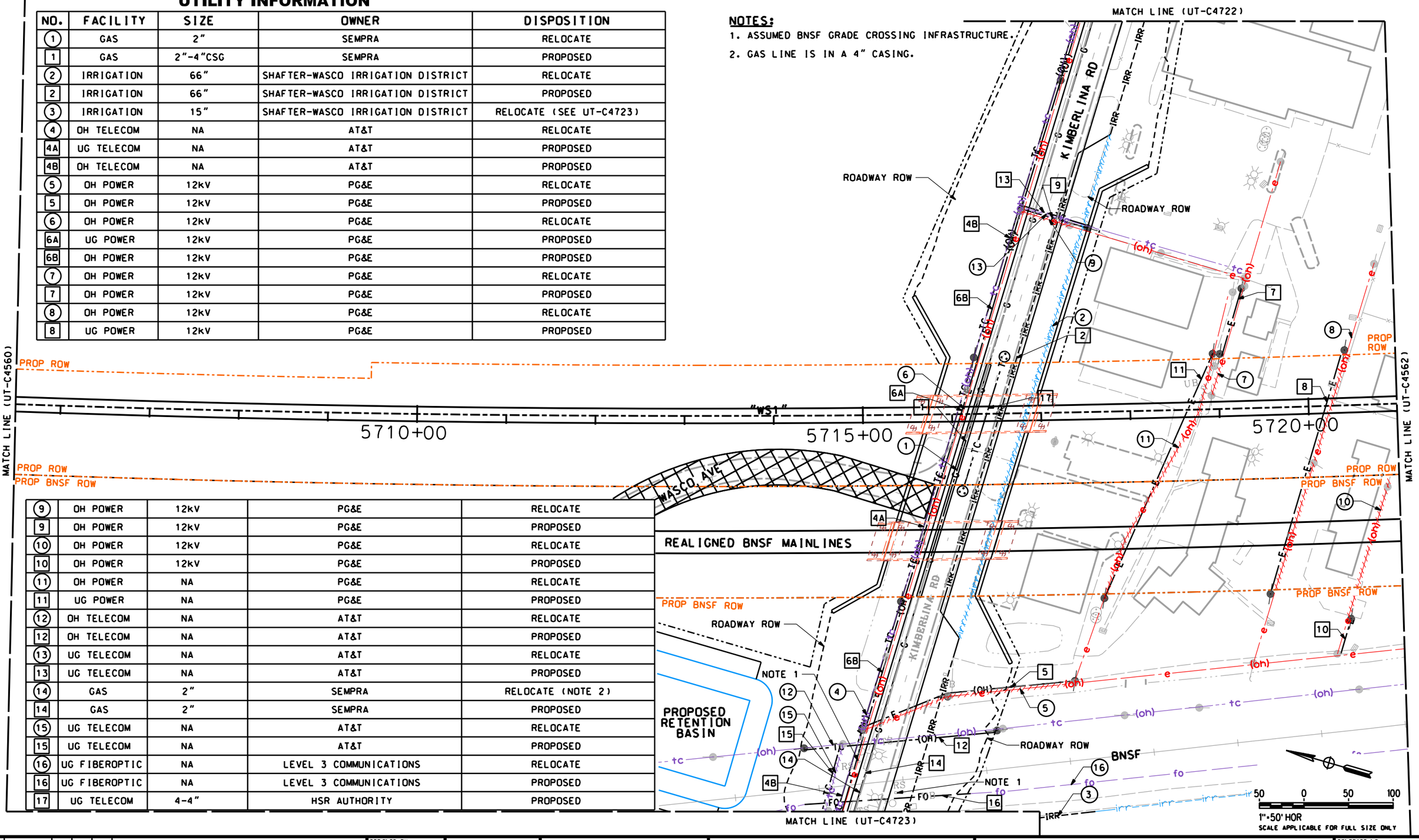
UTILITY INFORMATION

NO.	FACILITY	SIZE	OWNER	DISPOSITION
1	GAS	2"	SEMPRA	RELOCATE
1	GAS	2"-4"CSG	SEMPRA	PROPOSED
2	IRRIGATION	66"	SHAFTER-WASCO IRRIGATION DISTRICT	RELOCATE
2	IRRIGATION	66"	SHAFTER-WASCO IRRIGATION DISTRICT	PROPOSED
3	IRRIGATION	15"	SHAFTER-WASCO IRRIGATION DISTRICT	RELOCATE (SEE UT-C4723)
4	OH TELECOM	NA	AT&T	RELOCATE
4A	UG TELECOM	NA	AT&T	PROPOSED
4B	OH TELECOM	NA	AT&T	PROPOSED
5	OH POWER	12kV	PG&E	RELOCATE
5	OH POWER	12kV	PG&E	PROPOSED
6	OH POWER	12kV	PG&E	RELOCATE
6A	UG POWER	12kV	PG&E	PROPOSED
6B	OH POWER	12kV	PG&E	PROPOSED
7	OH POWER	12kV	PG&E	RELOCATE
7	OH POWER	12kV	PG&E	PROPOSED
8	OH POWER	12kV	PG&E	RELOCATE
8	UG POWER	12kV	PG&E	PROPOSED
9	OH POWER	12kV	PG&E	RELOCATE
9	OH POWER	12kV	PG&E	PROPOSED
10	OH POWER	12kV	PG&E	RELOCATE
10	OH POWER	12kV	PG&E	PROPOSED
11	OH POWER	NA	PG&E	RELOCATE
11	UG POWER	NA	PG&E	PROPOSED
12	OH TELECOM	NA	AT&T	RELOCATE
12	OH TELECOM	NA	AT&T	PROPOSED
13	UG TELECOM	NA	AT&T	RELOCATE
13	UG TELECOM	NA	AT&T	PROPOSED
14	GAS	2"	SEMPRA	RELOCATE (NOTE 2)
14	GAS	2"	SEMPRA	PROPOSED
15	UG TELECOM	NA	AT&T	RELOCATE
15	UG TELECOM	NA	AT&T	PROPOSED
16	UG FIBEROPTIC	NA	LEVEL 3 COMMUNICATIONS	RELOCATE
16	UG FIBEROPTIC	NA	LEVEL 3 COMMUNICATIONS	PROPOSED
17	UG TELECOM	4-4"	HSR AUTHORITY	PROPOSED

NOTES:

1. ASSUMED BNSF GRADE CROSSING INFRASTRUCTURE.
2. GAS LINE IS IN A 4" CASING.



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CALIFORNIA HIGH-SPEED RAIL AUTHORITY

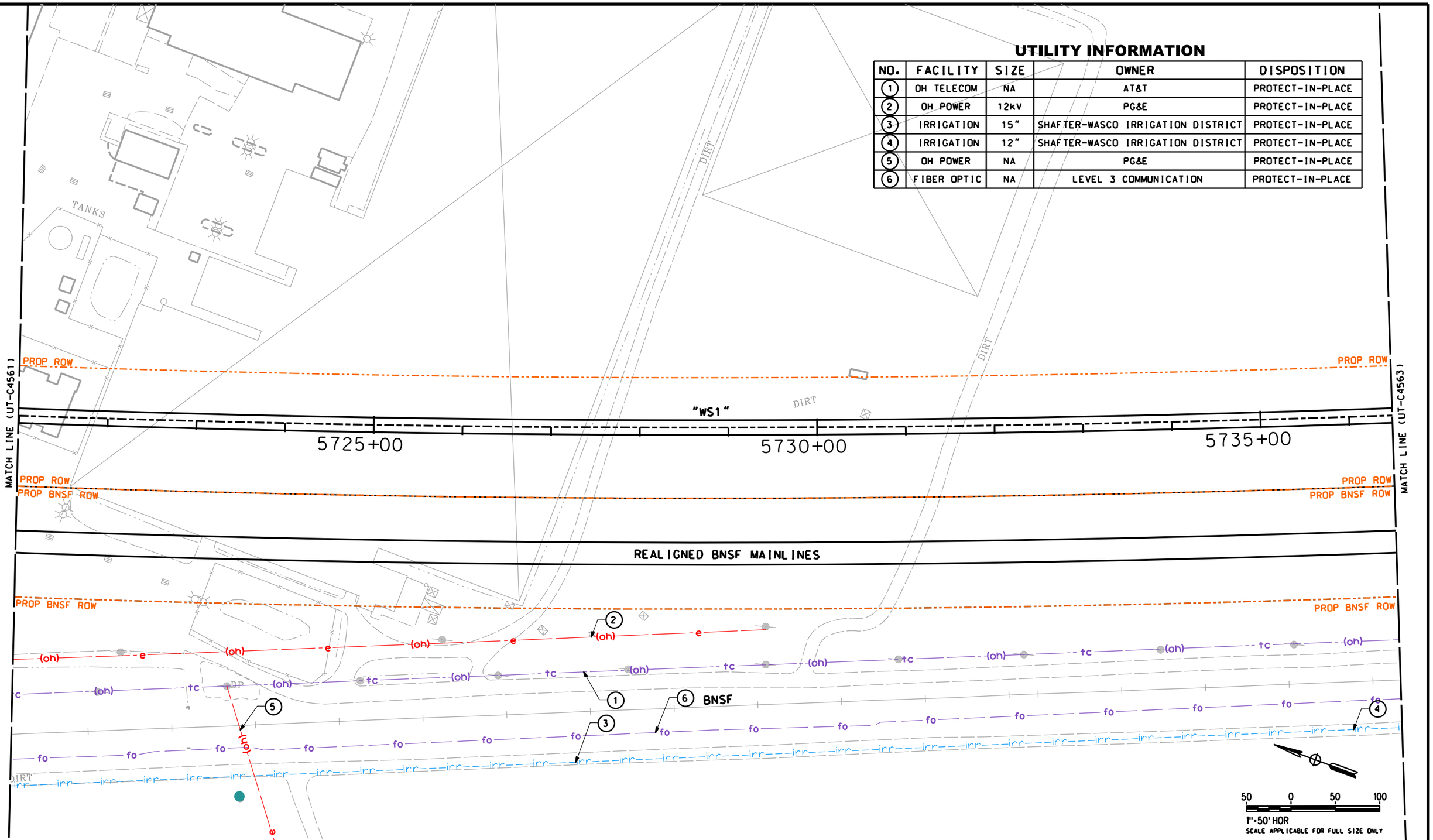
CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
PACKAGE 4 - ALIGNMENT WS1
UTILITIES
COMPOSITE UTILITY PLAN
STA 5705+50 TO 5721+00

CONTRACT NO. HSR 06-0003
DRAWING NO. UT-C4561
SCALE AS SHOWN
SHEET NO. 70 OF 163

S-UT-C4561.dgn pdf.pltcfg 11/20/2015 3:58:24 PM stcol.tbl Sylvie

UTILITY INFORMATION

NO.	FACILITY	SIZE	OWNER	DISPOSITION
1	OH TELECOM	NA	AT&T	PROTECT-IN-PLACE
2	OH POWER	12kV	PG&E	PROTECT-IN-PLACE
3	IRRIGATION	15"	SHAFTER-WASCO IRRIGATION DISTRICT	PROTECT-IN-PLACE
4	IRRIGATION	12"	SHAFTER-WASCO IRRIGATION DISTRICT	PROTECT-IN-PLACE
5	OH POWER	NA	PG&E	PROTECT-IN-PLACE
6	FIBER OPTIC	NA	LEVEL 3 COMMUNICATION	PROTECT-IN-PLACE



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CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
PACKAGE 4 - ALIGNMENT WS1
UTILITIES
COMPOSITE UTILITY PLAN
STA 5721+00 TO 5736+50

CONTRACT NO. HSR 06-0003
DRAWING NO. UT-C4562
SCALE AS SHOWN
SHEET NO. 71 OF 163

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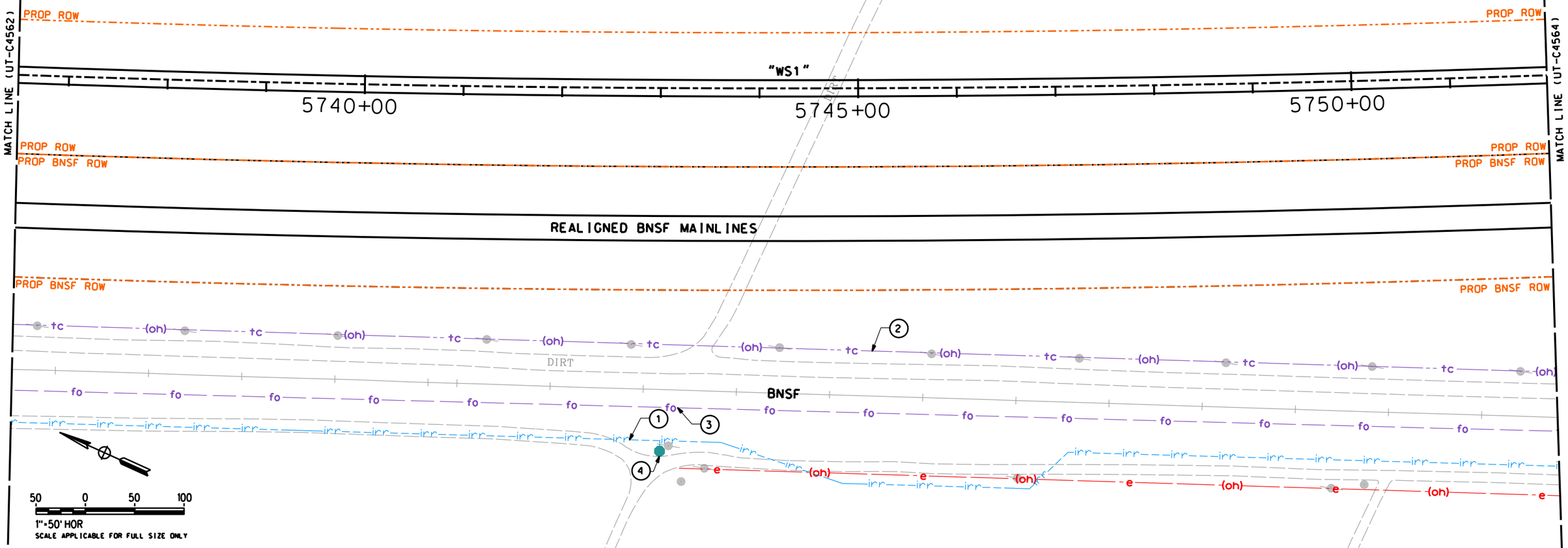
UTILITY INFORMATION

NO.	FACILITY	SIZE	OWNER	DISPOSITION
1	IRRIGATION	12"	SHAFTER-WASCO IRRIGATION DISTRICT	PROTECT-IN-PLACE
2	OH TELECOM	NA	AT&T	PROTECT-IN-PLACE
3	FIBER OPTIC	NA	LEVEL 3 COMMUNICATIONS	PROTECT-IN-PLACE
4	FARM TURNOUT	NA	SHAFTER-WASCO IRRIGATION DISTRICT	PROTECT-IN-PLACE



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CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
PACKAGE 4 - ALIGNMENT WS1
UTILITIES
COMPOSITE UTILITY PLAN
STA 5736+50 TO 5752+00

CONTRACT NO. HSR 06-0003
DRAWING NO. UT-C4563
SCALE AS SHOWN
SHEET NO. 72 OF 163

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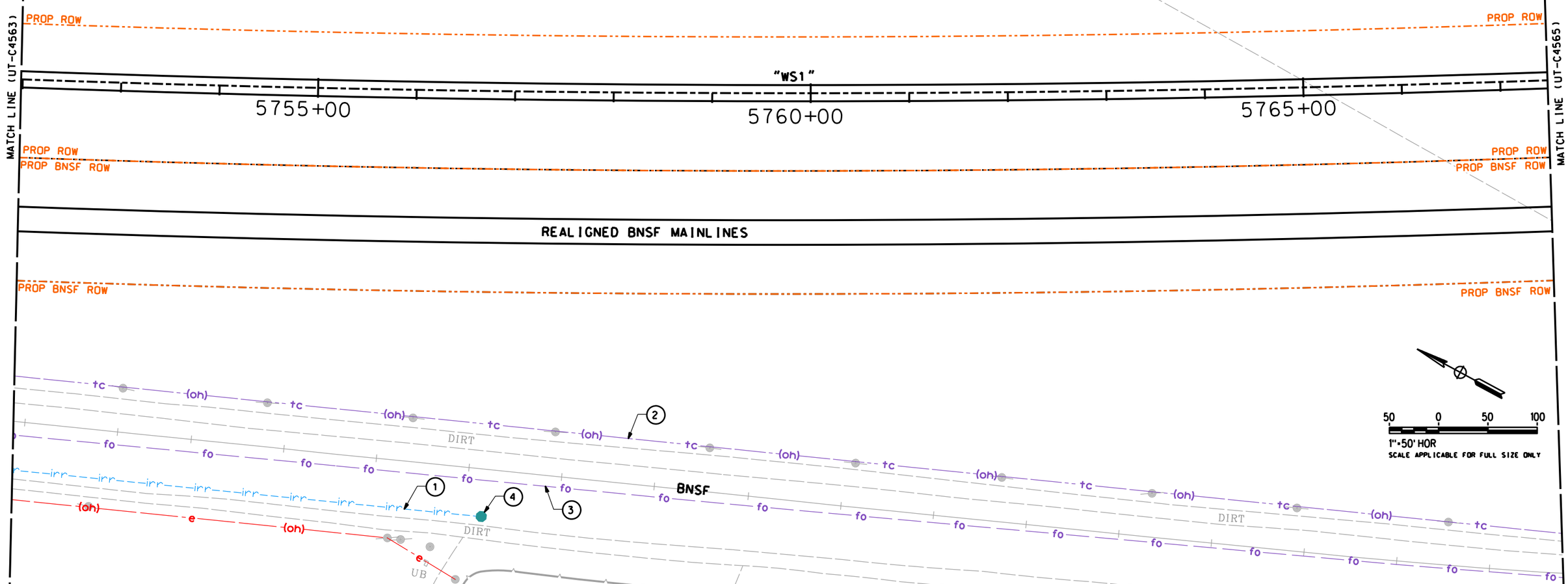
UTILITY INFORMATION

NO.	FACILITY	SIZE	OWNER	DISPOSITION
1	IRRIGATION	12"	SHAFTER-WASCO IRRIGATION DISTRICT	PROTECT-IN-PLACE
2	OH TELECOM	NA	AT&T	PROTECT-IN-PLACE
3	FIBER OPTIC	NA	LEVEL 3 COMMUNICATIONS	PROTECT-IN-PLACE
4	FARM TURNOUT	NA	SHAFTER-WASCO IRRIGATION DISTRICT	PROTECT-IN-PLACE



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CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
PACKAGE 4 - ALIGNMENT WS1
UTILITIES
COMPOSITE UTILITY PLAN
STA 5752+00 TO 5767+50

CONTRACT NO. HSR 06-0003
DRAWING NO. UT-C4564
SCALE AS SHOWN
SHEET NO. 73 OF 163

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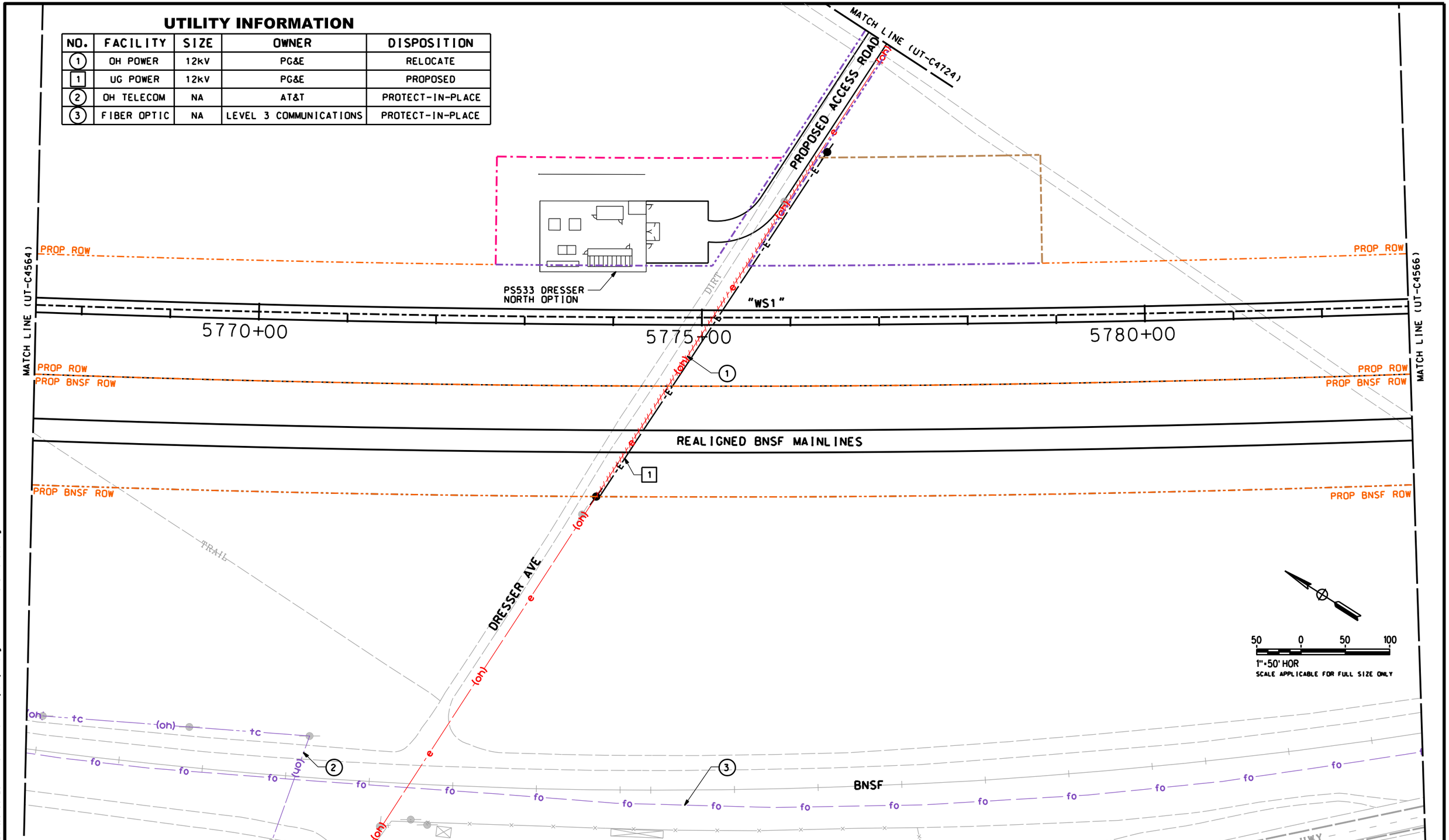
UTILITY INFORMATION

NO.	FACILITY	SIZE	OWNER	DISPOSITION
1	OH POWER	12kV	PG&E	RELOCATE
[1]	UG POWER	12kV	PG&E	PROPOSED
2	OH TELECOM	NA	AT&T	PROTECT-IN-PLACE
3	FIBER OPTIC	NA	LEVEL 3 COMMUNICATIONS	PROTECT-IN-PLACE



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CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
PACKAGE 4 - ALIGNMENT WS1
UTILITIES
COMPOSITE UTILITY PLAN
STA 5767+50 TO 5783+00

CONTRACT NO. HSR 06-0003
DRAWING NO. UT-C4565
SCALE AS SHOWN
SHEET NO. 74 OF 163

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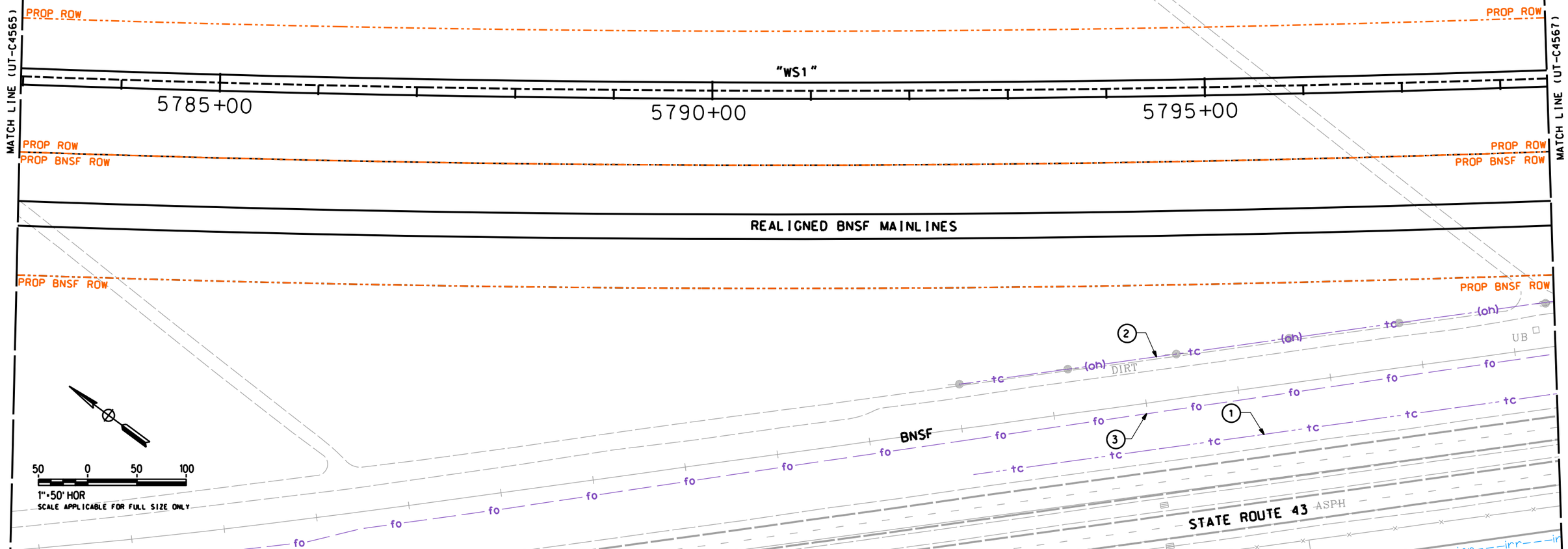
UTILITY INFORMATION

NO.	FACILITY	SIZE	OWNER	DISPOSITION
1	TELECOM	NA	AT&T	PROTECT-IN-PLACE
2	OH TELECOM	NA	UNKNOWN	PROTECT-IN-PLACE
3	FIBER OPTIC	NA	LEVEL 3 COMMUNICATIONS	PROTECT-IN-PLACE



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CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
PACKAGE 4 - ALIGNMENT WS1
UTILITIES
COMPOSITE UTILITY PLAN
STA 5783+00 TO 5798+50

CONTRACT NO. HSR 06-0003
DRAWING NO. UT-C4566
SCALE AS SHOWN
SHEET NO. 75 OF 163

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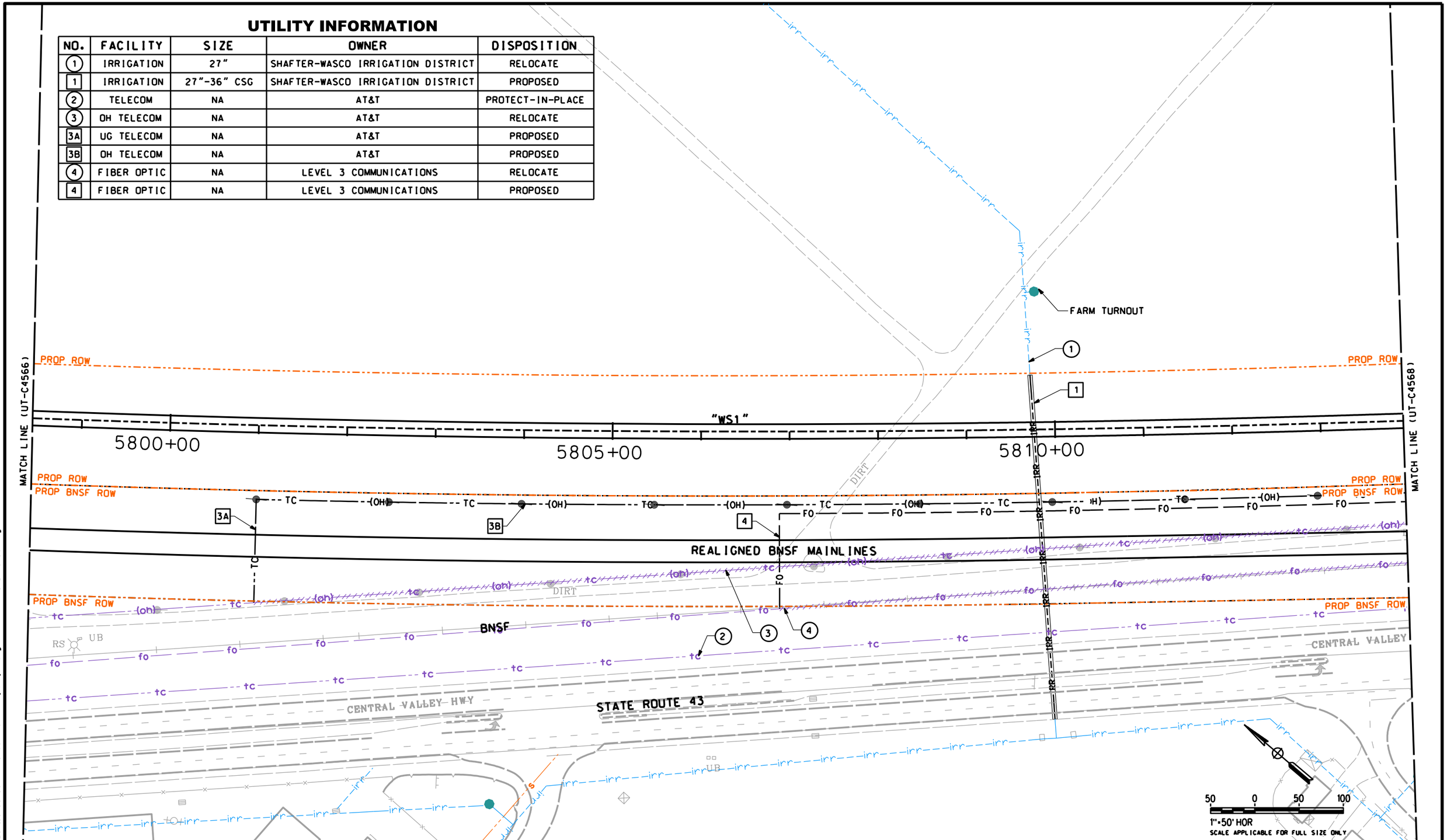
UTILITY INFORMATION

NO.	FACILITY	SIZE	OWNER	DISPOSITION
1	IRRIGATION	27"	SHAFTER-WASCO IRRIGATION DISTRICT	RELOCATE
1	IRRIGATION	27"-36" CSG	SHAFTER-WASCO IRRIGATION DISTRICT	PROPOSED
2	TELECOM	NA	AT&T	PROTECT-IN-PLACE
3	OH TELECOM	NA	AT&T	RELOCATE
3A	UG TELECOM	NA	AT&T	PROPOSED
3B	OH TELECOM	NA	AT&T	PROPOSED
4	FIBER OPTIC	NA	LEVEL 3 COMMUNICATIONS	RELOCATE
4	FIBER OPTIC	NA	LEVEL 3 COMMUNICATIONS	PROPOSED



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CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
PACKAGE 4 - ALIGNMENT WS1
UTILITIES
COMPOSITE UTILITY PLAN
STA 5798+50 TO 5814+00

CONTRACT NO. HSR 06-0003
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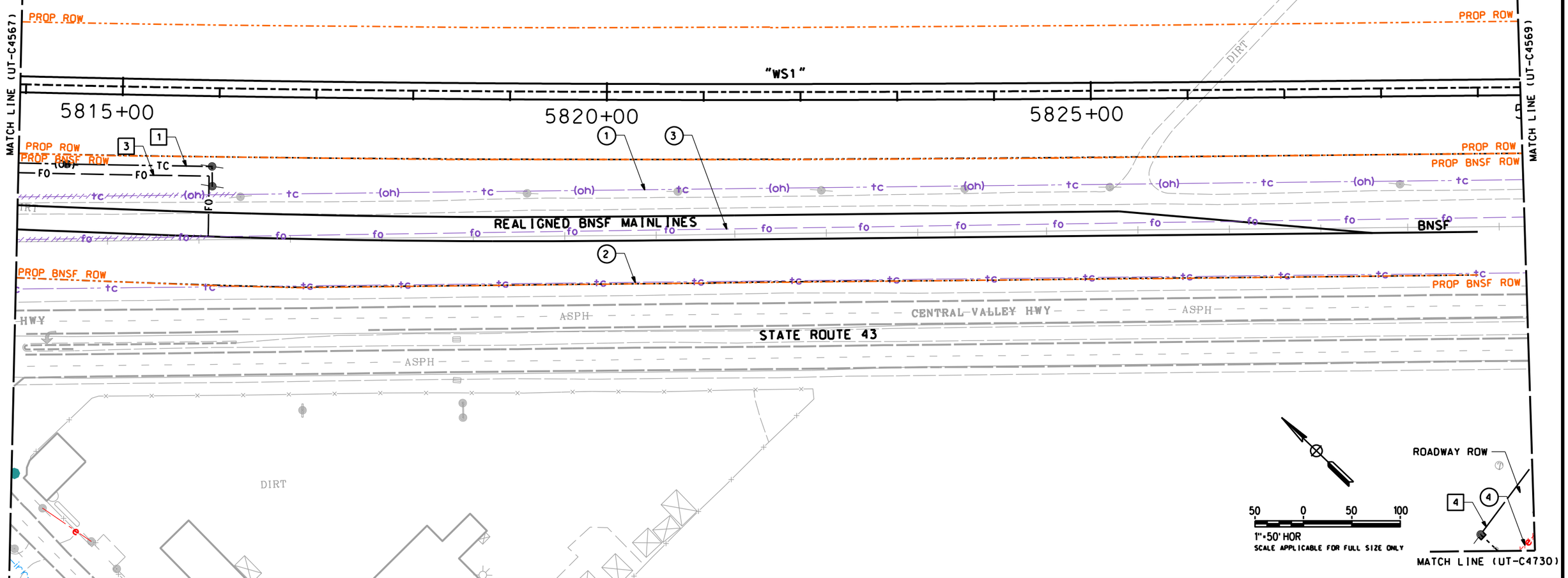
UTILITY INFORMATION

NO.	FACILITY	SIZE	OWNER	DISPOSITION
(1)	OH TELECOM	NA	AT&T	RELOCATE
[1]	OH TELECOM	NA	AT&T	PROPOSED
(2)	TELECOM	NA	AT&T	PROTECT-IN-PLACE
(3)	UG FIBER OPTIC	NA	LEVEL 3 COMMUNICATIONS	RELOCATE
[3]	UG FIBER OPTIC	NA	LEVEL 3 COMMUNICATIONS	PROPOSED
(4)	OH POWER	480V	PG&E	PROTECT-IN-PLACE
[4]	OH POWER	480V	PG&E	PROPOSED



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY T. RAMIL
DRAWN BY V. ORTEGA
CHECKED BY T. GRAU
IN CHARGE S. BURGES
DATE 09/30/14

PROPOSED PRELIMINARY DESIGN

NOT FOR CONSTRUCTION

MARRS

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
PACKAGE 4 - ALIGNMENT WS1
UTILITIES
COMPOSITE UTILITY PLAN
STA 5814+00 TO 5829+50

CONTRACT NO. HSR 06-0003
DRAWING NO. UT-C4568
SCALE AS SHOWN
SHEET NO. 77 OF 163

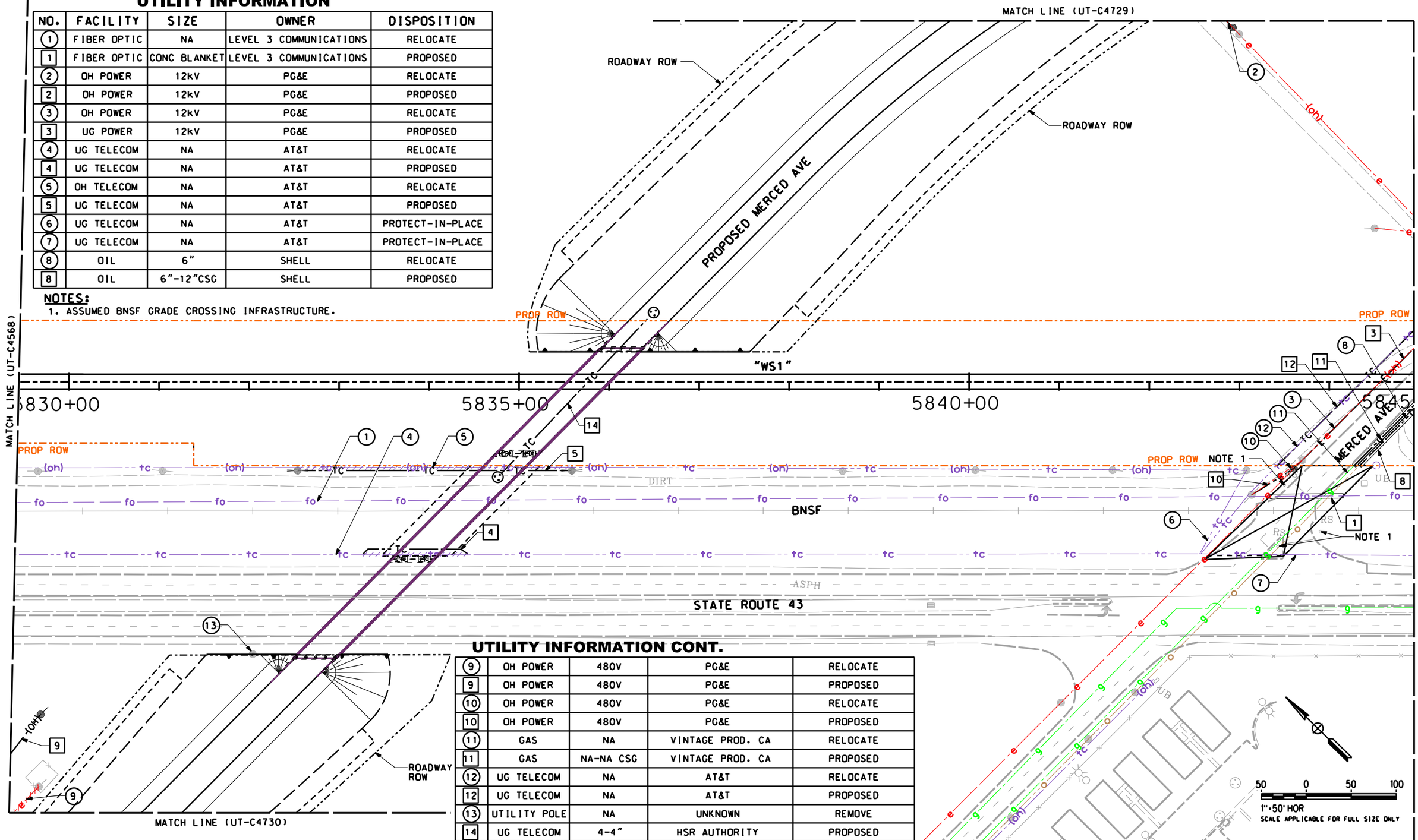
S-UT-C4568.dgn pdf.pltcfg 11/20/2015 03:58:31 PM stcol.tbl Sylvie

UTILITY INFORMATION

NO.	FACILITY	SIZE	OWNER	DISPOSITION
1	FIBER OPTIC	NA	LEVEL 3 COMMUNICATIONS	RELOCATE
1	FIBER OPTIC	CONC BLANKET	LEVEL 3 COMMUNICATIONS	PROPOSED
2	OH POWER	12kV	PG&E	RELOCATE
2	OH POWER	12kV	PG&E	PROPOSED
3	OH POWER	12kV	PG&E	RELOCATE
3	UG POWER	12kV	PG&E	PROPOSED
4	UG TELECOM	NA	AT&T	RELOCATE
4	UG TELECOM	NA	AT&T	PROPOSED
5	OH TELECOM	NA	AT&T	RELOCATE
5	UG TELECOM	NA	AT&T	PROPOSED
6	UG TELECOM	NA	AT&T	PROTECT-IN-PLACE
7	UG TELECOM	NA	AT&T	PROTECT-IN-PLACE
8	OIL	6"	SHELL	RELOCATE
8	OIL	6"-12"CSG	SHELL	PROPOSED

NOTES:

1. ASSUMED BNSF GRADE CROSSING INFRASTRUCTURE.



UTILITY INFORMATION CONT.

9	OH POWER	480V	PG&E	RELOCATE
9	OH POWER	480V	PG&E	PROPOSED
10	OH POWER	480V	PG&E	RELOCATE
10	OH POWER	480V	PG&E	PROPOSED
11	GAS	NA	VINTAGE PROD. CA	RELOCATE
11	GAS	NA-NA CSG	VINTAGE PROD. CA	PROPOSED
12	UG TELECOM	NA	AT&T	RELOCATE
12	UG TELECOM	NA	AT&T	PROPOSED
13	UTILITY POLE	NA	UNKNOWN	REMOVE
14	UG TELECOM	4-4"	HSR AUTHORITY	PROPOSED

REV	DATE	BY	CHK	APP	DESCRIPTION

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IN CHARGE S. BURGES
DATE 09/30/14

PROPOSED PRELIMINARY DESIGN

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MARRS

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
PACKAGE 4 - ALIGNMENT WS1
UTILITIES
COMPOSITE UTILITY PLAN
STA 5829+50 TO 5845+00

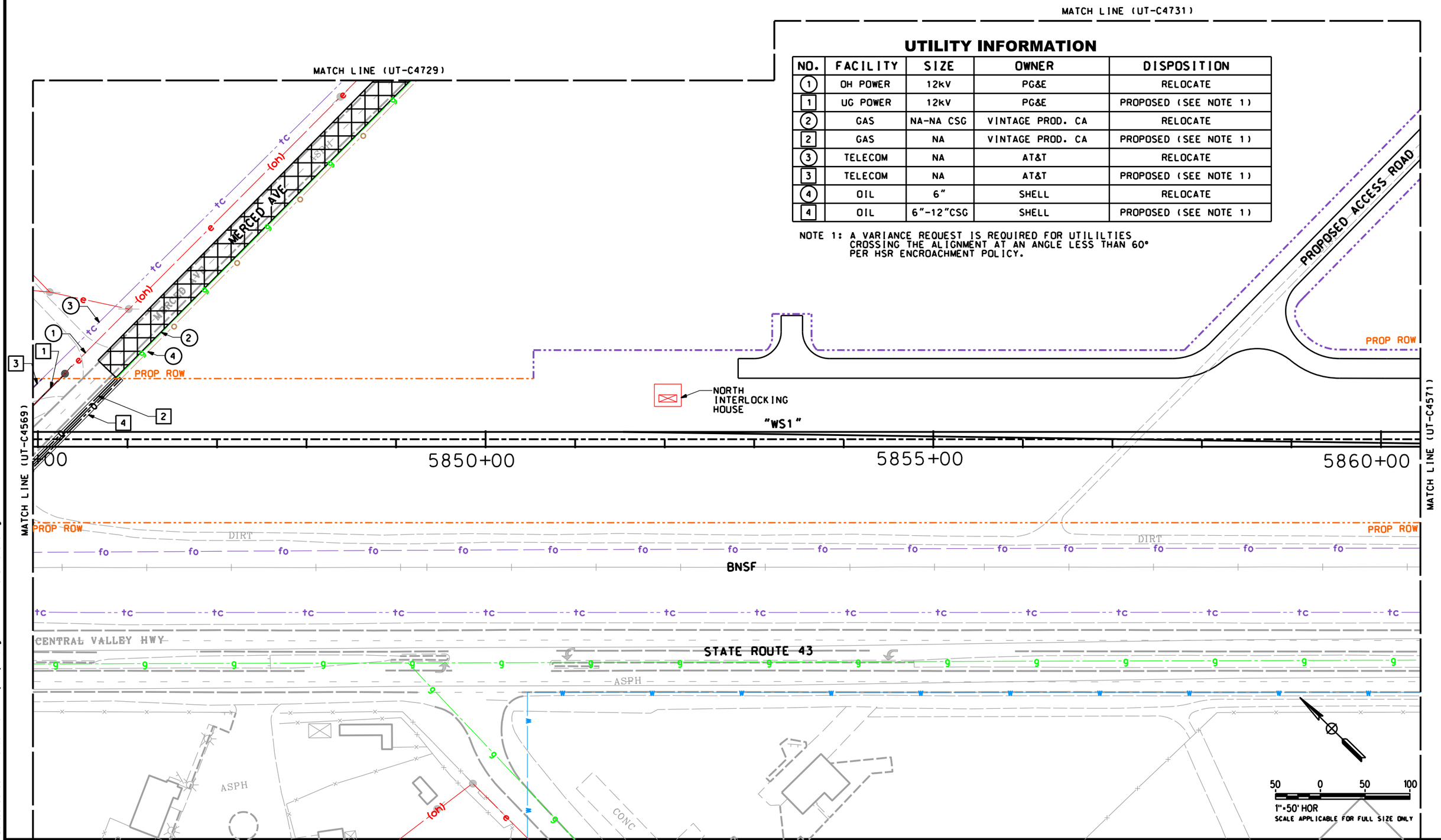
CONTRACT NO. HSR 06-0003
DRAWING NO. UT-C4569
SCALE AS SHOWN
SHEET NO. 78 OF 163

S-UT-C4569.dgn pdf.pltcfg stcol.tbl 11/20/2015 03:58:32 PM Sylvie

UTILITY INFORMATION

NO.	FACILITY	SIZE	OWNER	DISPOSITION
(1)	OH POWER	12kV	PG&E	RELOCATE
[1]	UG POWER	12kV	PG&E	PROPOSED (SEE NOTE 1)
(2)	GAS	NA-NA CSG	VINTAGE PROD. CA	RELOCATE
[2]	GAS	NA	VINTAGE PROD. CA	PROPOSED (SEE NOTE 1)
(3)	TELECOM	NA	AT&T	RELOCATE
[3]	TELECOM	NA	AT&T	PROPOSED (SEE NOTE 1)
(4)	OIL	6"	SHELL	RELOCATE
[4]	OIL	6"-12"CSG	SHELL	PROPOSED (SEE NOTE 1)

NOTE 1: A VARIANCE REQUEST IS REQUIRED FOR UTILILTIES CROSSING THE ALIGNMENT AT AN ANGLE LESS THAN 60° PER HSR ENCROACHMENT POLICY.



REV	DATE	BY	CHK	APP	DESCRIPTION

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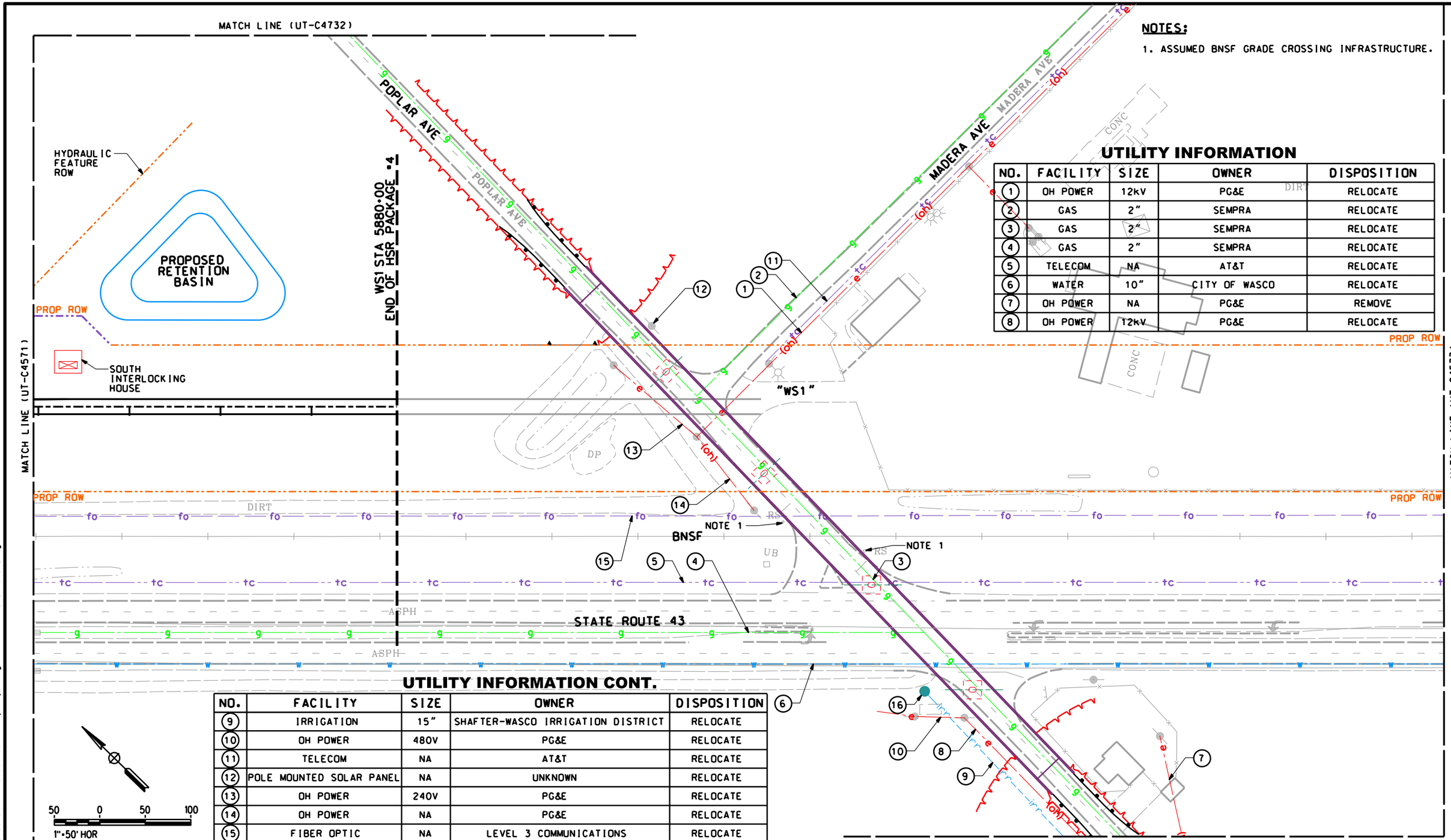
MARRS

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
PACKAGE 4 - ALIGNMENT WS1
UTILITIES
COMPOSITE UTILITY PLAN
STA 5845+00 TO 5860+50

CONTRACT NO. HSR 06-0003
DRAWING NO. UT-C4570
SCALE AS SHOWN
SHEET NO. 79 OF 163

S-UT-C4570.dgn pdf.pltcfg 11/20/2015 3:58:33 PM stcol.tbl Sylvie



NOTES:

1. ASSUMED BNSF GRADE CROSSING INFRASTRUCTURE.

UTILITY INFORMATION

NO.	FACILITY	SIZE	OWNER	DISPOSITION
1	OH POWER	12kV	PG&E	RELOCATE
2	GAS	2"	SEMPRA	RELOCATE
3	GAS	2"	SEMPRA	RELOCATE
4	GAS	2"	SEMPRA	RELOCATE
5	TELECOM	NA	AT&T	RELOCATE
6	WATER	10"	CITY OF WASCO	RELOCATE
7	OH POWER	NA	PG&E	REMOVE
8	OH POWER	12kV	PG&E	RELOCATE

UTILITY INFORMATION CONT.

NO.	FACILITY	SIZE	OWNER	DISPOSITION
9	IRRIGATION	15"	SHAFTER-WASCO IRRIGATION DISTRICT	RELOCATE
10	OH POWER	480V	PG&E	RELOCATE
11	TELECOM	NA	AT&T	RELOCATE
12	POLE MOUNTED SOLAR PANEL	NA	UNKNOWN	RELOCATE
13	OH POWER	240V	PG&E	RELOCATE
14	OH POWER	NA	PG&E	RELOCATE
15	FIBER OPTIC	NA	LEVEL 3 COMMUNICATIONS	RELOCATE
16	FARM TURNOUT	NA	SHAFTER-WASCO IRRIGATION DISTRICT	RELOCATE

50 0 50 100

1"=50' HOR

SCALE APPLICABLE FOR FULL SIZE ONLY

REV	DATE	BY	CHK	APP	DESCRIPTION

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DATE 09/30/14

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MARRS

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
PACKAGE 4 - ALIGNMENT WS1
UTILITIES
COMPOSITE UTILITY PLAN
STA 5876+00 TO 5891+50

CONTRACT NO. HSR 06-0003
DRAWING NO. UT-C4572
SCALE AS SHOWN
SHEET NO. 81 OF 163

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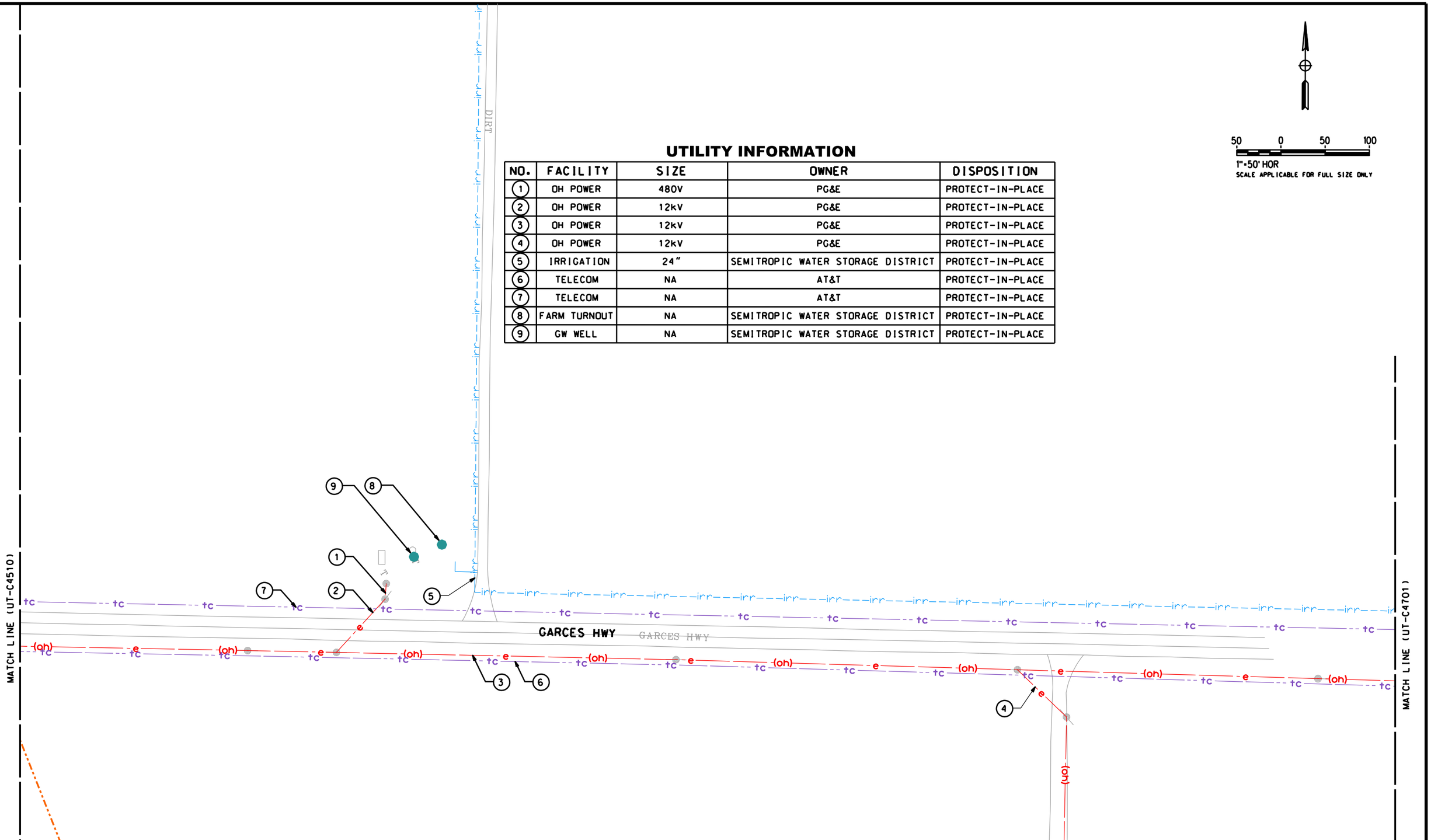
UTILITY INFORMATION

NO.	FACILITY	SIZE	OWNER	DISPOSITION
1	OH POWER	480V	PG&E	PROTECT-IN-PLACE
2	OH POWER	12kV	PG&E	PROTECT-IN-PLACE
3	OH POWER	12kV	PG&E	PROTECT-IN-PLACE
4	OH POWER	12kV	PG&E	PROTECT-IN-PLACE
5	IRRIGATION	24"	SEMITROPIC WATER STORAGE DISTRICT	PROTECT-IN-PLACE
6	TELECOM	NA	AT&T	PROTECT-IN-PLACE
7	TELECOM	NA	AT&T	PROTECT-IN-PLACE
8	FARM TURNOUT	NA	SEMITROPIC WATER STORAGE DISTRICT	PROTECT-IN-PLACE
9	GW WELL	NA	SEMITROPIC WATER STORAGE DISTRICT	PROTECT-IN-PLACE



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MARRS

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

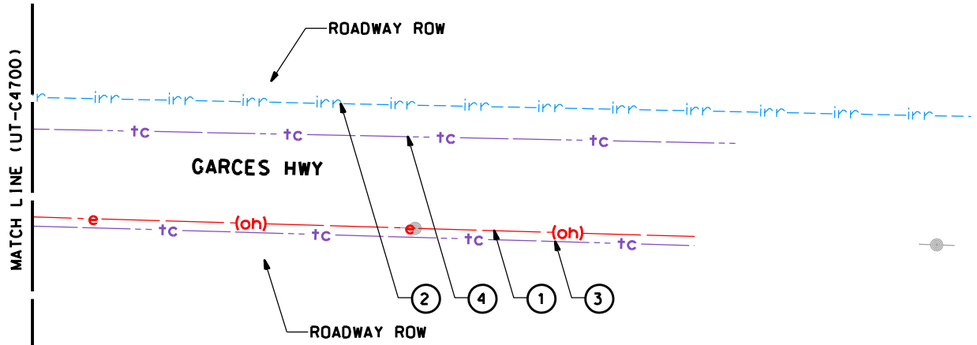
CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
PACKAGE 4 - ALIGNMENT A1
UTILITIES
COMPOSITE UTILITY PLAN
GARCES HIGHWAY

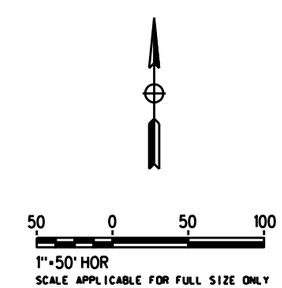
CONTRACT NO. HSR 06-0003
DRAWING NO. UT-C4700
SCALE AS SHOWN
SHEET NO. 108 OF 163

S-UT-C4700.dgn pdf.pltcfg stcol.tbl 11/20/2015 03:58:36 PM Sylvie

UTILITY INFORMATION

NO.	FACILITY	SIZE	OWNER	DISPOSITION
1	OH POWER	12kV	PG&E	PROTECT-IN-PLACE
2	IRRIGATION	24"	SEMITROPIC WATER STORAGE DISTRICT	PROTECT-IN-PLACE
3	TELECOM	NA	AT&T	PROTECT-IN-PLACE
4	TELECOM	NA	AT&T	PROTECT-IN-PLACE





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CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
PACKAGE 4 - ALIGNMENT A1
UTILITIES
COMPOSITE UTILITY PLAN
GARCES HIGHWAY

CONTRACT NO. HSR 06-0003
DRAWING NO. UT-C4701
SCALE AS SHOWN
SHEET NO. 109 OF 163

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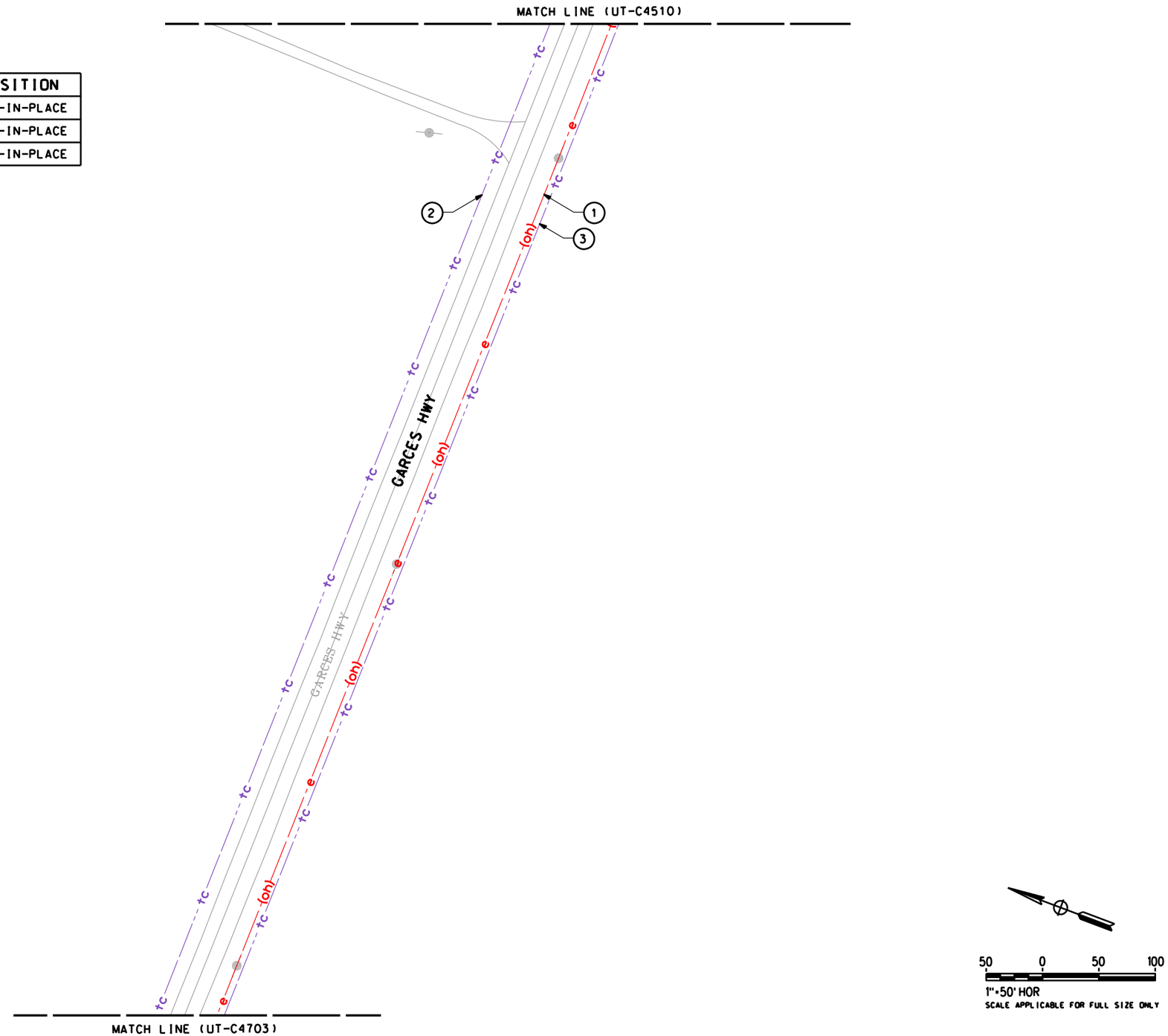
UTILITY INFORMATION

NO.	FACILITY	SIZE	OWNER	DISPOSITION
1	OH POWER	12kV	PG&E	PROTECT-IN-PLACE
2	TELECOM	NA	AT&T	PROTECT-IN-PLACE
3	TELECOM	NA	AT&T	PROTECT-IN-PLACE



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MARRS

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
PACKAGE 4 - ALIGNMENT A1
UTILITIES
COMPOSITE UTILITY PLAN
GARCES HIGHWAY

CONTRACT NO. HSR 06-0003
DRAWING NO. UT-C4702
SCALE AS SHOWN
SHEET NO. 110 OF 163

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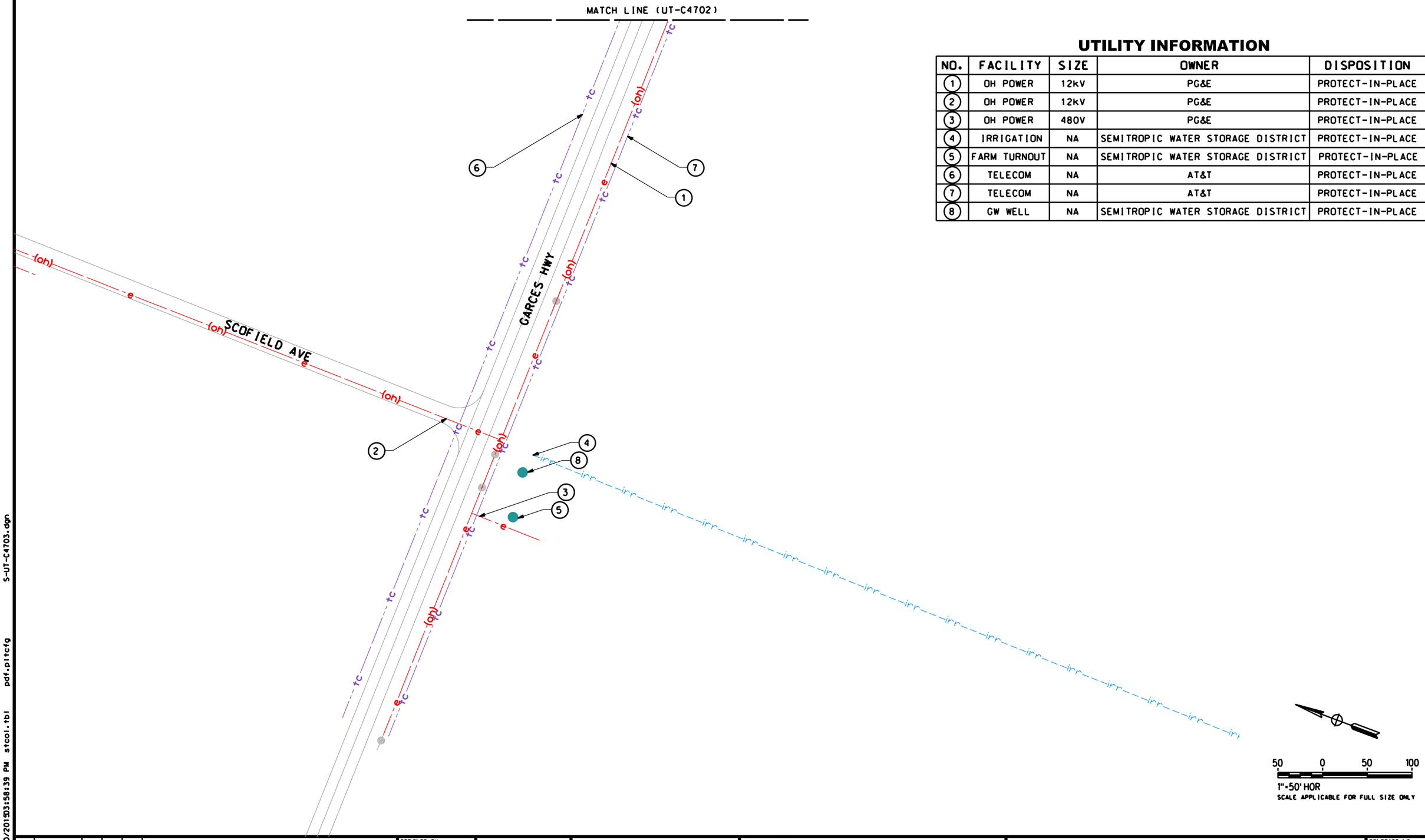

UTILITY INFORMATION

NO.	FACILITY	SIZE	OWNER	DISPOSITION
1	OH POWER	12kV	PG&E	PROTECT-IN-PLACE
2	OH POWER	12kV	PG&E	PROTECT-IN-PLACE
3	OH POWER	480V	PG&E	PROTECT-IN-PLACE
4	IRRIGATION	NA	SEMITROPIC WATER STORAGE DISTRICT	PROTECT-IN-PLACE
5	FARM TURNOUT	NA	SEMITROPIC WATER STORAGE DISTRICT	PROTECT-IN-PLACE
6	TELECOM	NA	AT&T	PROTECT-IN-PLACE
7	TELECOM	NA	AT&T	PROTECT-IN-PLACE
8	GW WELL	NA	SEMITROPIC WATER STORAGE DISTRICT	PROTECT-IN-PLACE

REV	DATE	BY	CHK	APP	DESCRIPTION

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DATE 09/30/14

PROPOSED PRELIMINARY DESIGN

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CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
PACKAGE 4 - ALIGNMENT A1
UTILITIES
COMPOSITE UTILITY PLAN
GARCES HIGHWAY

CONTRACT NO. HSR 06-0003
DRAWING NO. UT-C4703
SCALE AS SHOWN
SHEET NO. 111 OF 163

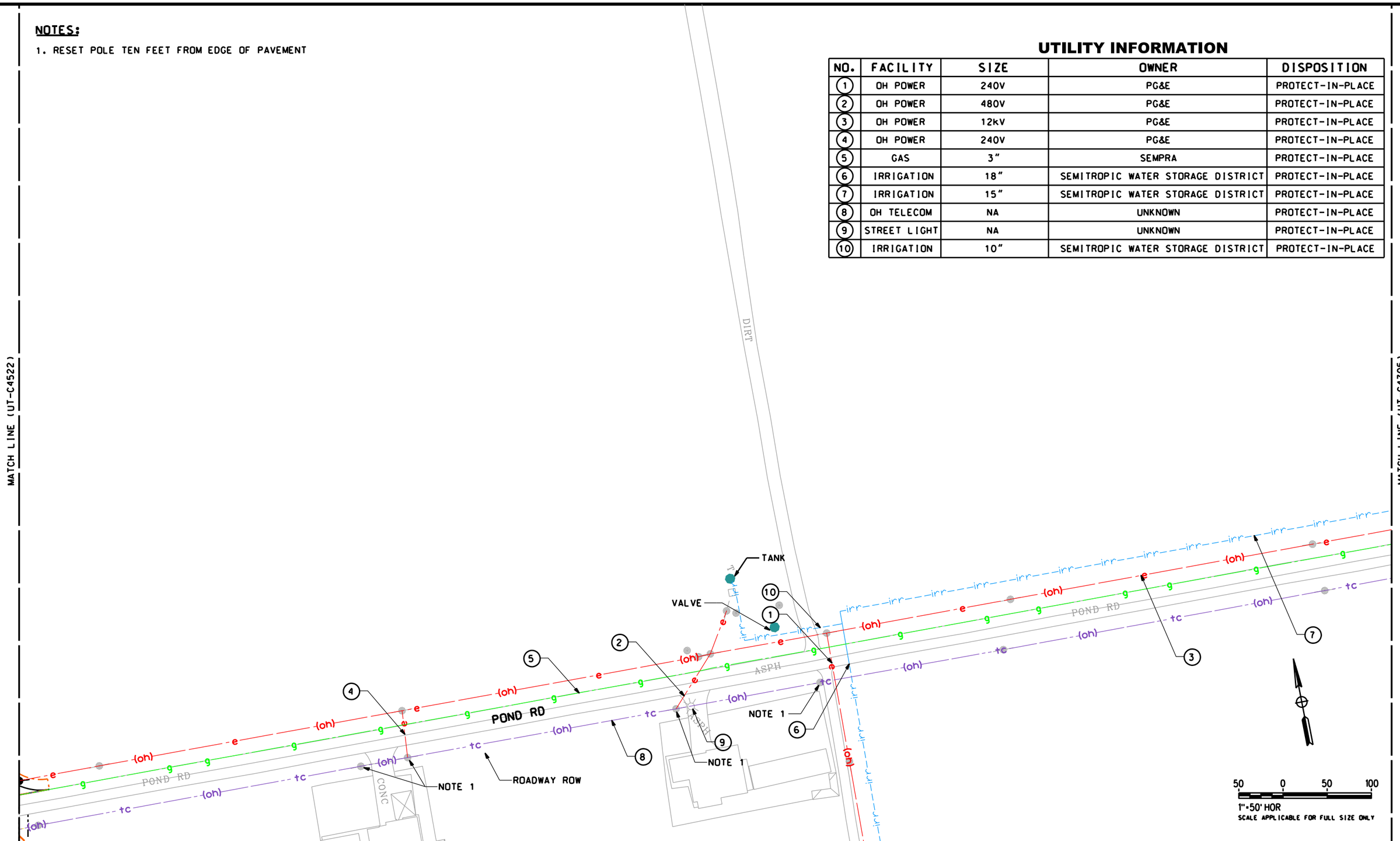
11/20/2015 03:58:39 PM stcol.tbl pdf.pltcfg S-UT-C4703.dgn Sylvie

NOTES:

1. RESET POLE TEN FEET FROM EDGE OF PAVEMENT

UTILITY INFORMATION

NO.	FACILITY	SIZE	OWNER	DISPOSITION
1	OH POWER	240V	PG&E	PROTECT-IN-PLACE
2	OH POWER	480V	PG&E	PROTECT-IN-PLACE
3	OH POWER	12kV	PG&E	PROTECT-IN-PLACE
4	OH POWER	240V	PG&E	PROTECT-IN-PLACE
5	GAS	3"	SEMPRA	PROTECT-IN-PLACE
6	IRRIGATION	18"	SEMITROPIC WATER STORAGE DISTRICT	PROTECT-IN-PLACE
7	IRRIGATION	15"	SEMITROPIC WATER STORAGE DISTRICT	PROTECT-IN-PLACE
8	OH TELECOM	NA	UNKNOWN	PROTECT-IN-PLACE
9	STREET LIGHT	NA	UNKNOWN	PROTECT-IN-PLACE
10	IRRIGATION	10"	SEMITROPIC WATER STORAGE DISTRICT	PROTECT-IN-PLACE



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DATE 09/30/14

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CALIFORNIA HIGH-SPEED RAIL AUTHORITY

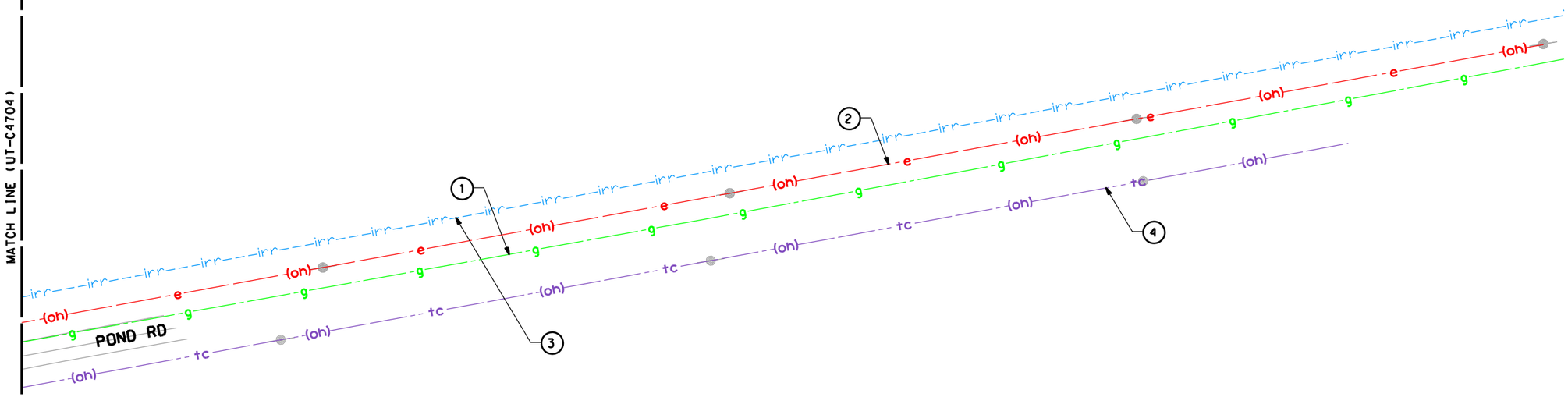
CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
PACKAGE 4 - ALIGNMENT A1
UTILITIES
COMPOSITE UTILITY PLAN
POND ROAD

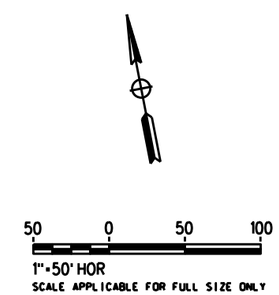
CONTRACT NO. HSR 06-0003
DRAWING NO. UT-C4704
SCALE AS SHOWN
SHEET NO. 112 OF 163

11/20/2015 3:58:40 PM stcol.tbl pdf.pltcfg S-UT-C4704.dgn Sylvie

UTILITY INFORMATION

NO.	FACILITY	SIZE	OWNER	DISPOSITION
1	GAS	3"	SEMPRA	PROTECT-IN-PLACE
2	OH POWER	12kV	PG&E	PROTECT-IN-PLACE
3	IRRIGATION	15"	SEMITROPIC WATER STORAGE DISTRICT	PROTECT-IN-PLACE
4	OH TELECOM	NA	UNKNOWN	PROTECT-IN-PLACE





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CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
PACKAGE 4 - ALIGNMENT A1
UTILITIES
COMPOSITE UTILITY PLAN
POND ROAD

CONTRACT NO. HSR 06-0003
DRAWING NO. UT-C4705
SCALE AS SHOWN
SHEET NO. 113 OF 163

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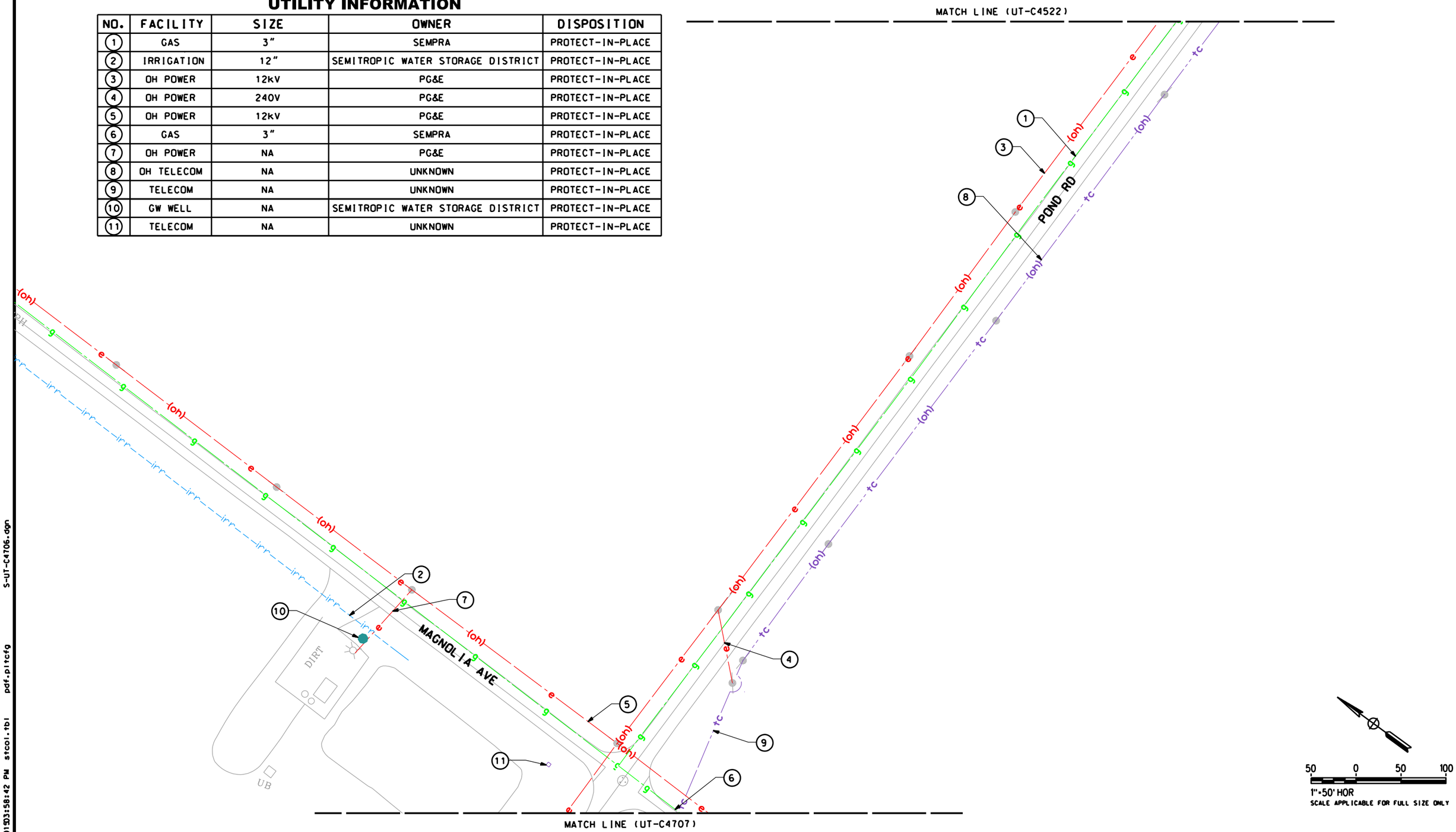
UTILITY INFORMATION

NO.	FACILITY	SIZE	OWNER	DISPOSITION
1	GAS	3"	SEMPRA	PROTECT-IN-PLACE
2	IRRIGATION	12"	SEMITROPIC WATER STORAGE DISTRICT	PROTECT-IN-PLACE
3	OH POWER	12kV	PG&E	PROTECT-IN-PLACE
4	OH POWER	240V	PG&E	PROTECT-IN-PLACE
5	OH POWER	12kV	PG&E	PROTECT-IN-PLACE
6	GAS	3"	SEMPRA	PROTECT-IN-PLACE
7	OH POWER	NA	PG&E	PROTECT-IN-PLACE
8	OH TELECOM	NA	UNKNOWN	PROTECT-IN-PLACE
9	TELECOM	NA	UNKNOWN	PROTECT-IN-PLACE
10	GW WELL	NA	SEMITROPIC WATER STORAGE DISTRICT	PROTECT-IN-PLACE
11	TELECOM	NA	UNKNOWN	PROTECT-IN-PLACE



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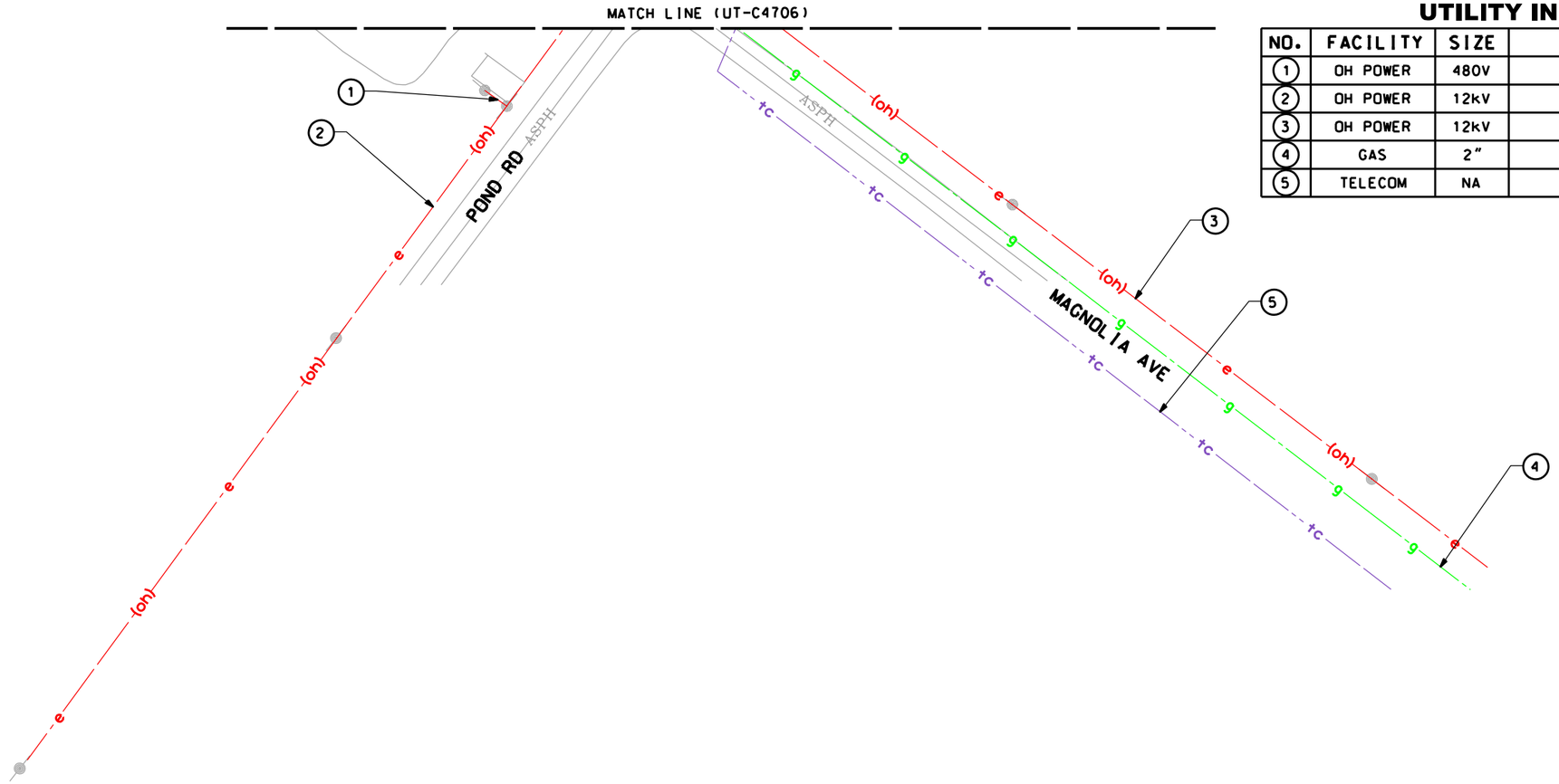
CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
PACKAGE 4 - ALIGNMENT A1
UTILITIES
COMPOSITE UTILITY PLAN
POND ROAD

CONTRACT NO. HSR 06-0003
DRAWING NO. UT-C4706
SCALE AS SHOWN
SHEET NO. 114 OF 163

S-UT-C4706.dgn pdf.pltcfg stcol.tbl 11/20/2015 03:58:42 PM Sylvie



UTILITY INFORMATION

NO.	FACILITY	SIZE	OWNER	DISPOSITION
1	OH POWER	480V	PG&E	PROTECT-IN-PLACE
2	OH POWER	12kV	PG&E	PROTECT-IN-PLACE
3	OH POWER	12kV	PG&E	PROTECT-IN-PLACE
4	GAS	2"	SEMPRA	PROTECT-IN-PLACE
5	TELECOM	NA	VERIZON	PROTECT-IN-PLACE

50 0 50 100

1"=50' HOR

SCALE APPLICABLE FOR FULL SIZE ONLY

REV	DATE	BY	CHK	APP	DESCRIPTION

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DATE 09/30/14

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MARRS

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD

PACKAGE 4 - ALIGNMENT A1
UTILITIES
COMPOSITE UTILITY PLAN
POND ROAD

CONTRACT NO. HSR 06-0003
DRAWING NO. UT-C4707
SCALE AS SHOWN
SHEET NO. 115 OF 163

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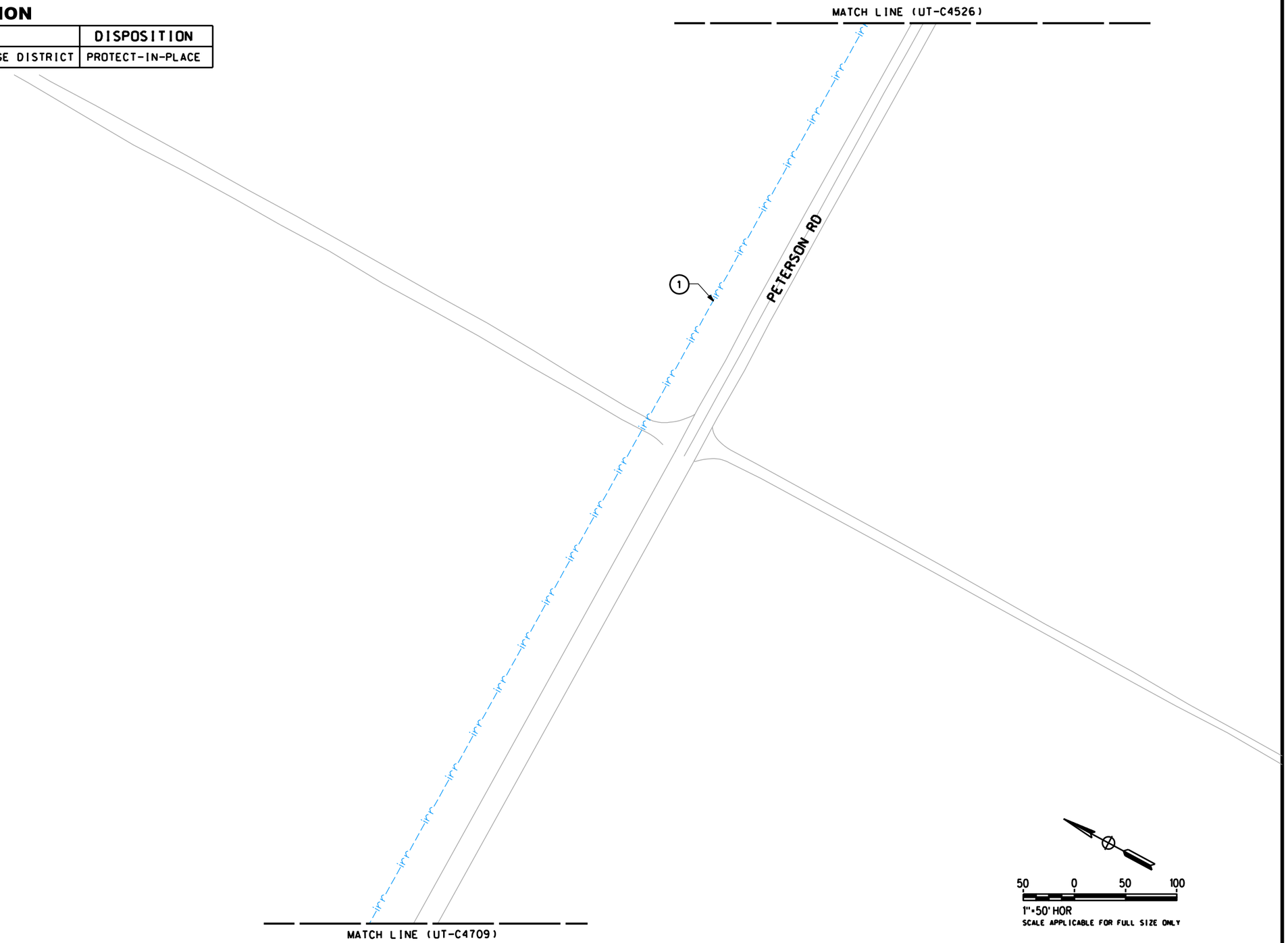
UTILITY INFORMATION

NO.	FACILITY	SIZE	OWNER	DISPOSITION
1	IRRIGATION	30"	SEMITROPIC WATER STORAGE DISTRICT	PROTECT-IN-PLACE



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MARRS

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
PACKAGE 4 - ALIGNMENT A1
UTILITIES
COMPOSITE UTILITY PLAN
PETERSON ROAD

CONTRACT NO. HSR 06-0003
DRAWING NO. UT-C4708
SCALE AS SHOWN
SHEET NO. 116 OF 163

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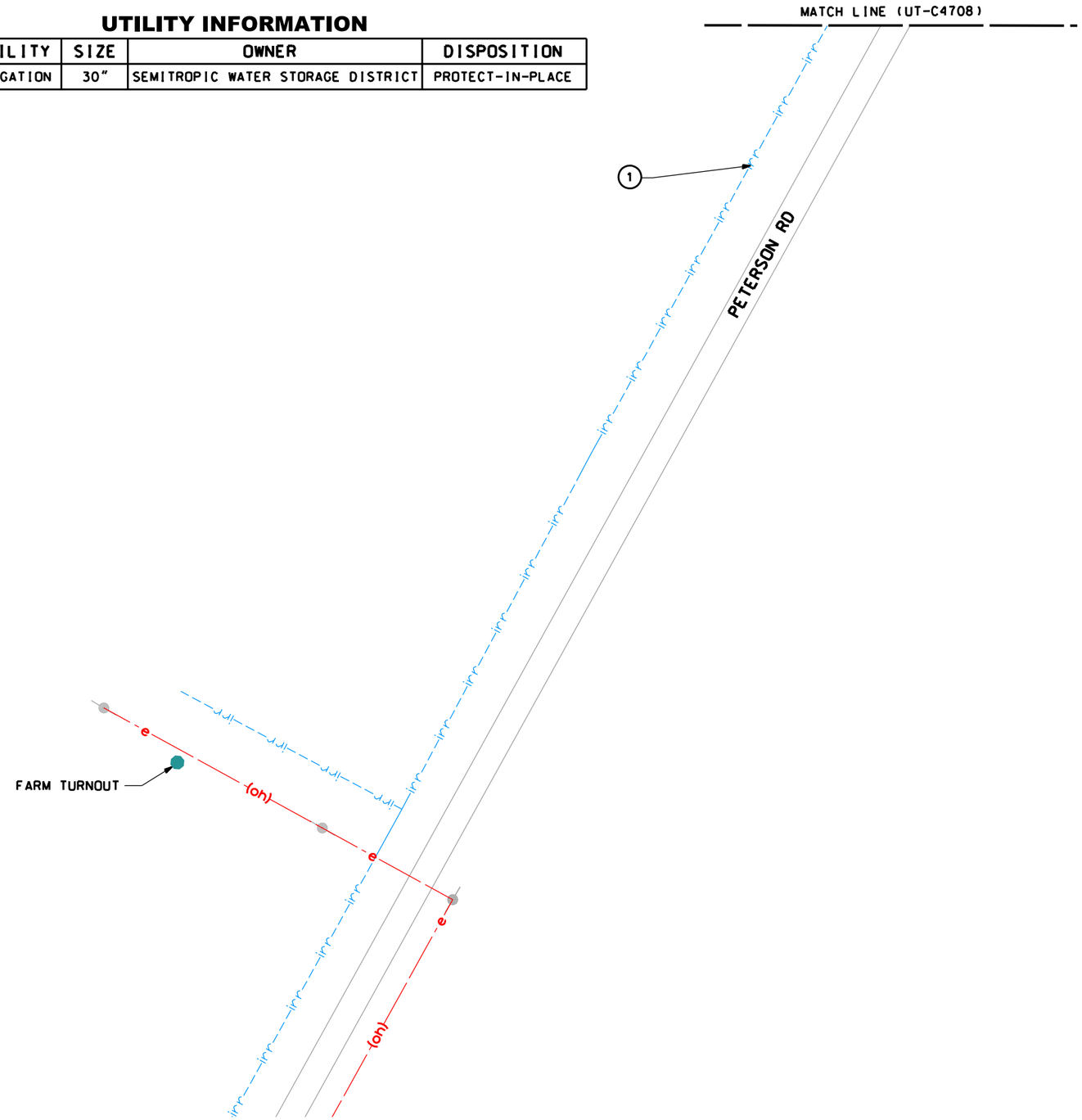
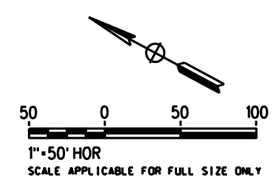
UTILITY INFORMATION

NO.	FACILITY	SIZE	OWNER	DISPOSITION
1	IRRIGATION	30"	SEMITROPIC WATER STORAGE DISTRICT	PROTECT-IN-PLACE





REV	DATE	BY	CHK	APP	DESCRIPTION

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CHECKED BY T. GRAU
IN CHARGE S. BURGES
DATE 09/30/14

PROPOSED PRELIMINARY DESIGN

NOT FOR CONSTRUCTION

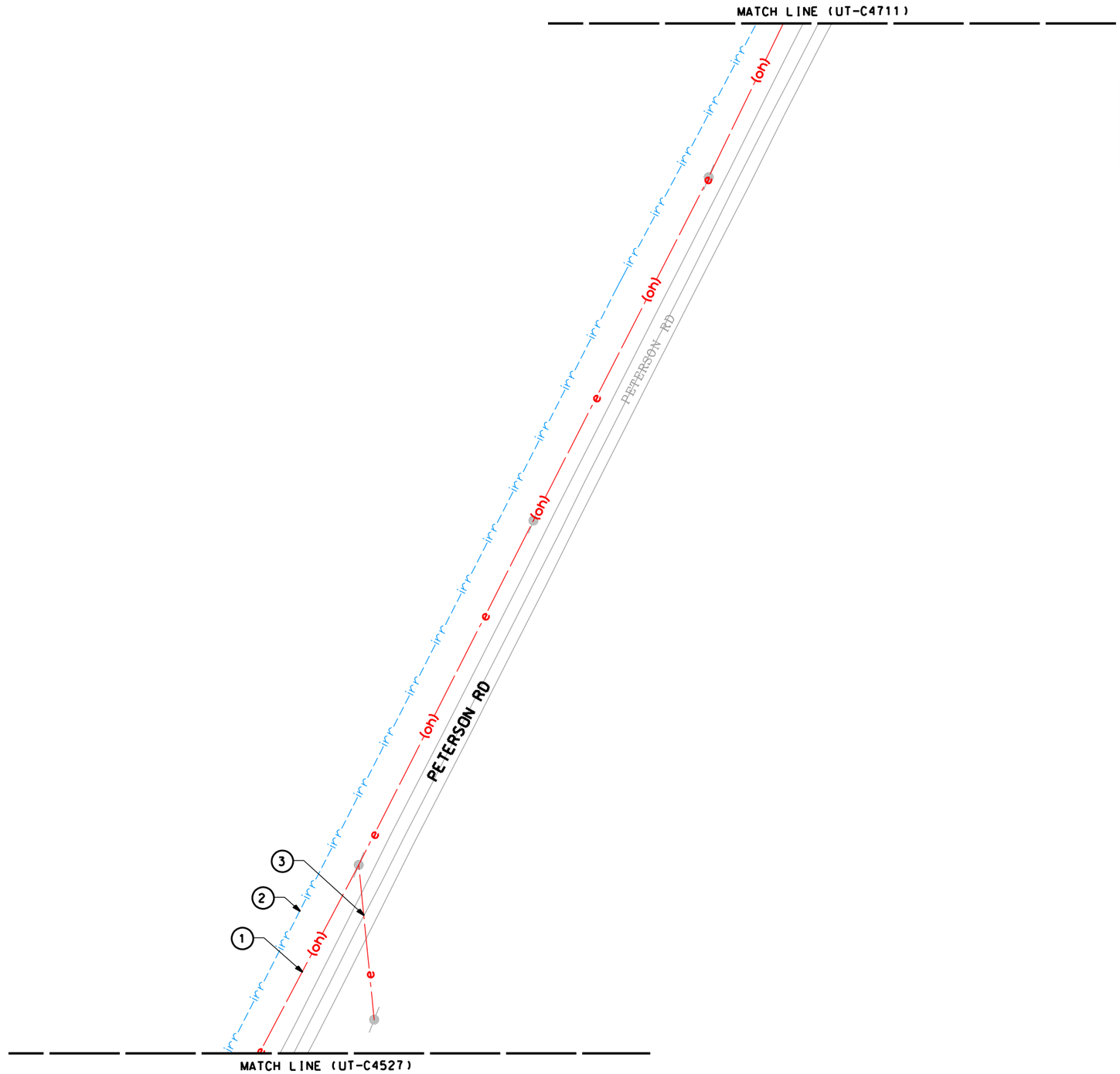
MARRS

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
PACKAGE 4 - ALIGNMENT A1
UTILITIES
COMPOSITE UTILITY PLAN
PETERSON ROAD

CONTRACT NO. HSR 06-0003
DRAWING NO. UT-C4709
SCALE AS SHOWN
SHEET NO. 117 OF 163

Sylvie 11/20/2015 03:58:45 PM stcol.tbl pdf.pltcfg S-UT-C4709.dgn



UTILITY INFORMATION

NO.	FACILITY	SIZE	OWNER	DISPOSITION
1	OH POWER	12kV	PG&E	PROTECT-IN-PLACE
2	IRRIGATION	30"	SEMITROPIC WATER STORAGE DISTRICT	PROTECT-IN-PLACE
3	OH POWER	12kV	PG&E	PROTECT-IN-PLACE

50 0 50 100

1"=50' HOR

SCALE APPLICABLE FOR FULL SIZE ONLY

REV	DATE	BY	CHK	APP	DESCRIPTION

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CALIFORNIA HIGH-SPEED RAIL AUTHORITY

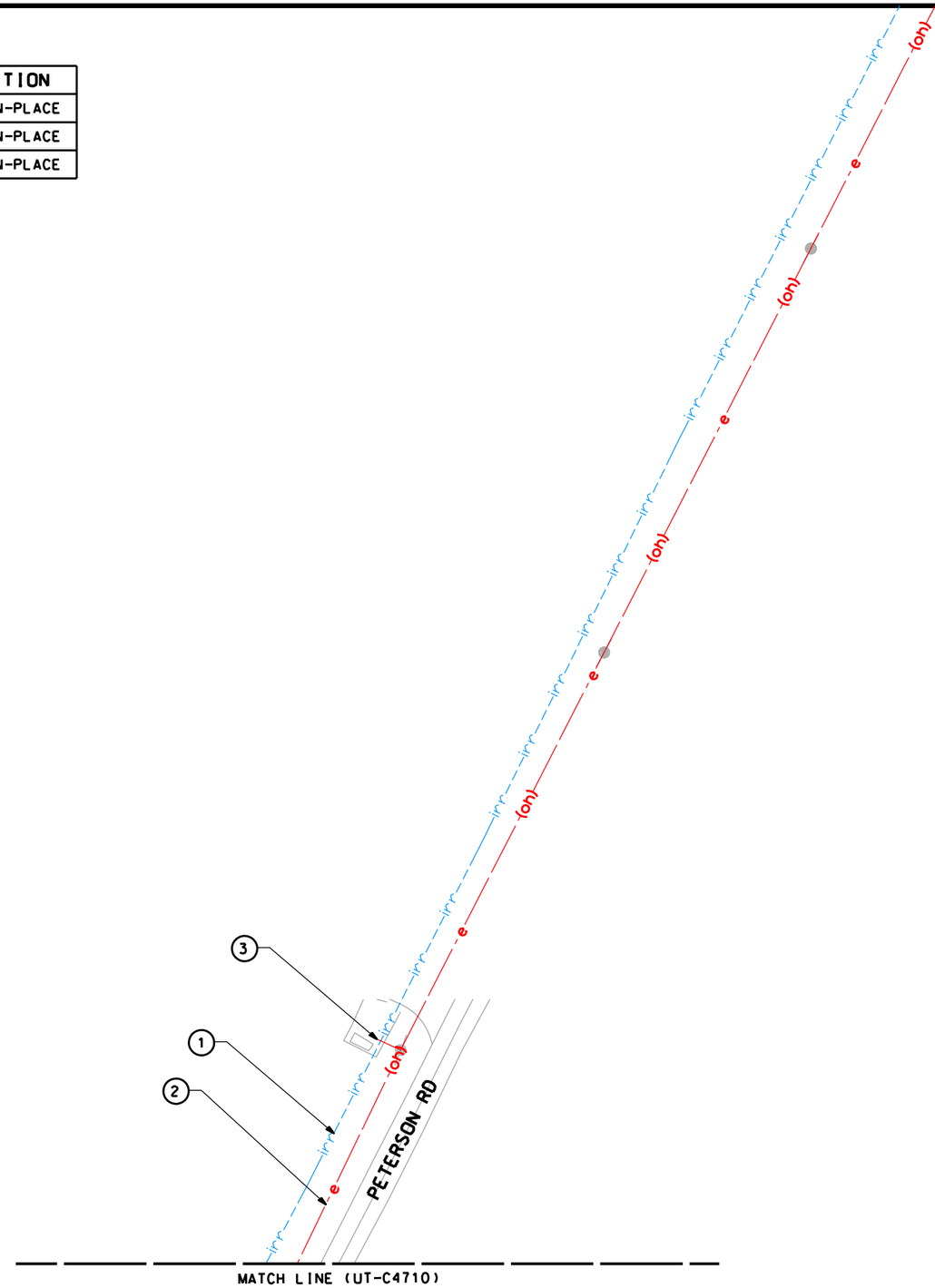
CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
PACKAGE 4 - ALIGNMENT A1
UTILITIES
COMPOSITE UTILITY PLAN
PETERSON ROAD

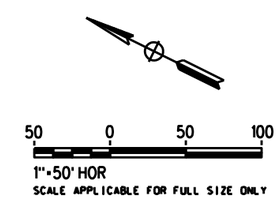
CONTRACT NO. HSR 06-0003
DRAWING NO. UT-C4710
SCALE AS SHOWN
SHEET NO. 118 OF 163

S-UT-C4710.dgn pdf.pltcfg stcol.tbl 11/20/2015 3:58:46 PM Sylvie

UTILITY INFORMATION

NO.	FACILITY	SIZE	OWNER	DISPOSITION
1	IRRIGATION	30"	SEMITROPIC WATER STORAGE DISTRICT	PROTECT-IN-PLACE
2	OH POWER	12kV	PG&E	PROTECT-IN-PLACE
3	POWER	NA	PG&E	PROTECT-IN-PLACE





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CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
PACKAGE 4 - ALIGNMENT A1
UTILITIES
COMPOSITE UTILITY PLAN
PETERSON ROAD

CONTRACT NO. HSR 06-0003
DRAWING NO. UT-C4711
SCALE AS SHOWN
SHEET NO. 119 OF 163

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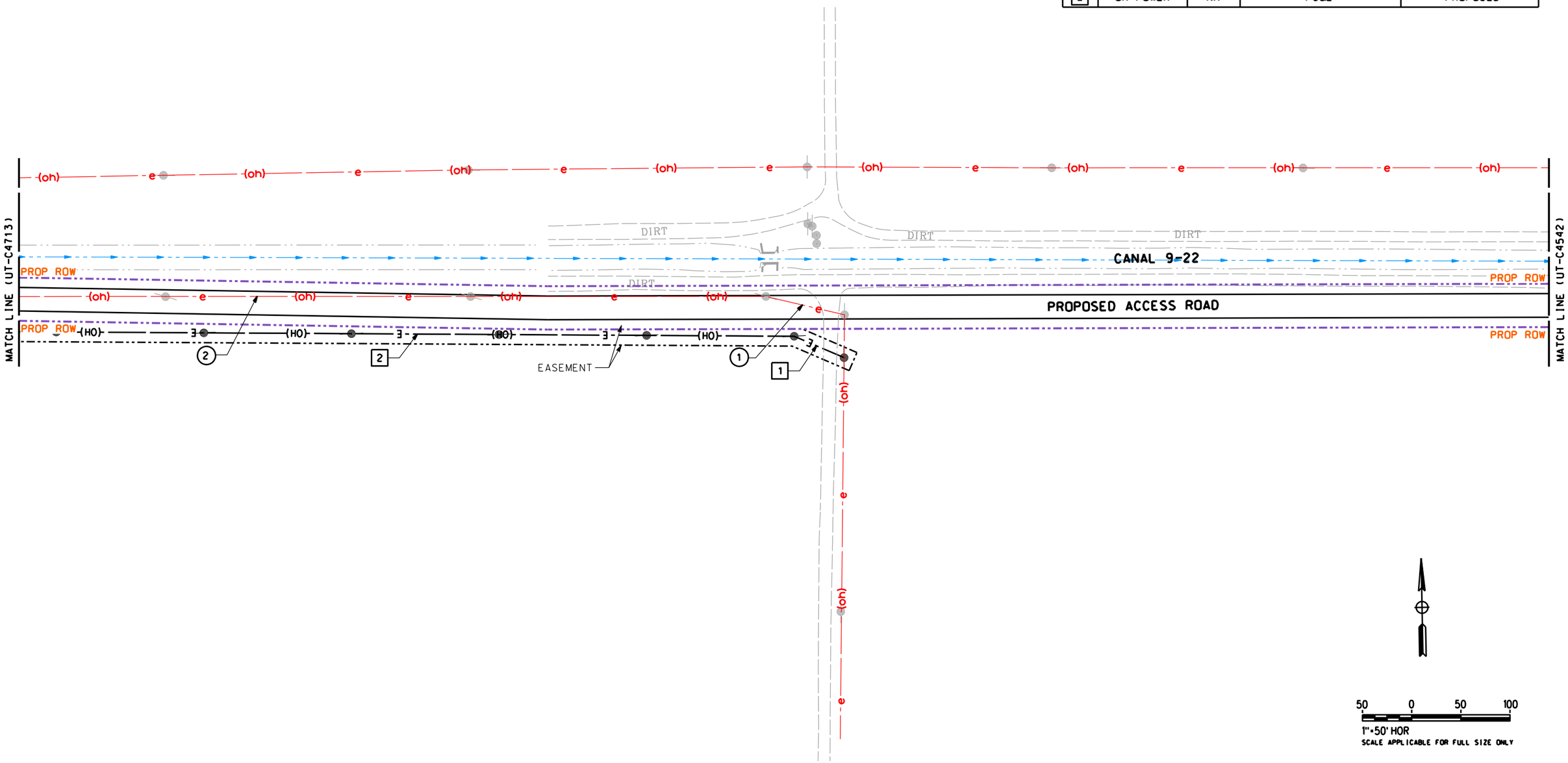
UTILITY INFORMATION

NO.	FACILITY	SIZE	OWNER	DISPOSITION
(1)	OH POWER	NA	PG&E	RELOCATE
[1]	OH POWER	NA	PG&E	PROPOSED
(2)	OH POWER	NA	PG&E	RELOCATE
[2]	OH POWER	NA	PG&E	PROPOSED



REV	DATE	BY	CHK	APP	DESCRIPTION

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CALIFORNIA HIGH-SPEED RAIL AUTHORITY

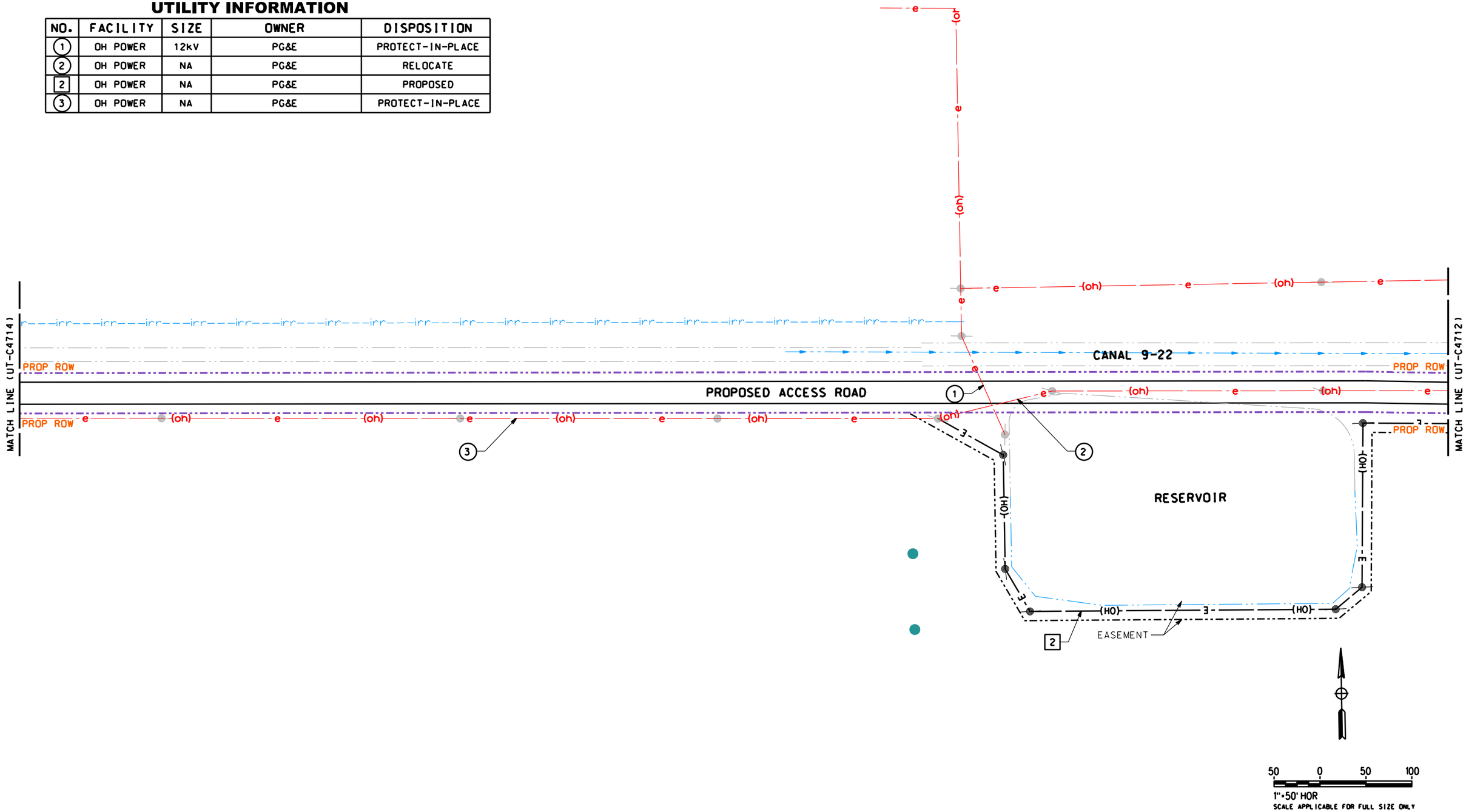
CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
PACKAGE 4 - ALIGNMENT WS1
UTILITIES
COMPOSITE UTILITY PLAN
NORTH PALM AVENUE ACCESS ROAD

CONTRACT NO. HSR 06-0003
DRAWING NO. UT-C4712
SCALE AS SHOWN
SHEET NO. 120 OF 163

Sylvie 11/20/2015 03:58:48 PM stcol.tbl pdf.pltcfg S-UT-C4712.dgn

UTILITY INFORMATION

NO.	FACILITY	SIZE	OWNER	DISPOSITION
1	OH POWER	12kV	PG&E	PROTECT-IN-PLACE
2	OH POWER	NA	PG&E	RELOCATE
[2]	OH POWER	NA	PG&E	PROPOSED
3	OH POWER	NA	PG&E	PROTECT-IN-PLACE



REV	DATE	BY	CHK	APP	DESCRIPTION

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DATE 09/30/14

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CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
PACKAGE 4 - ALIGNMENT WS1
UTILITIES
COMPOSITE UTILITY PLAN
NORTH PALM AVENUE ACCESS ROAD

CONTRACT NO. HSR 06-0003
DRAWING NO. UT-C4713
SCALE AS SHOWN
SHEET NO. 121 OF 163

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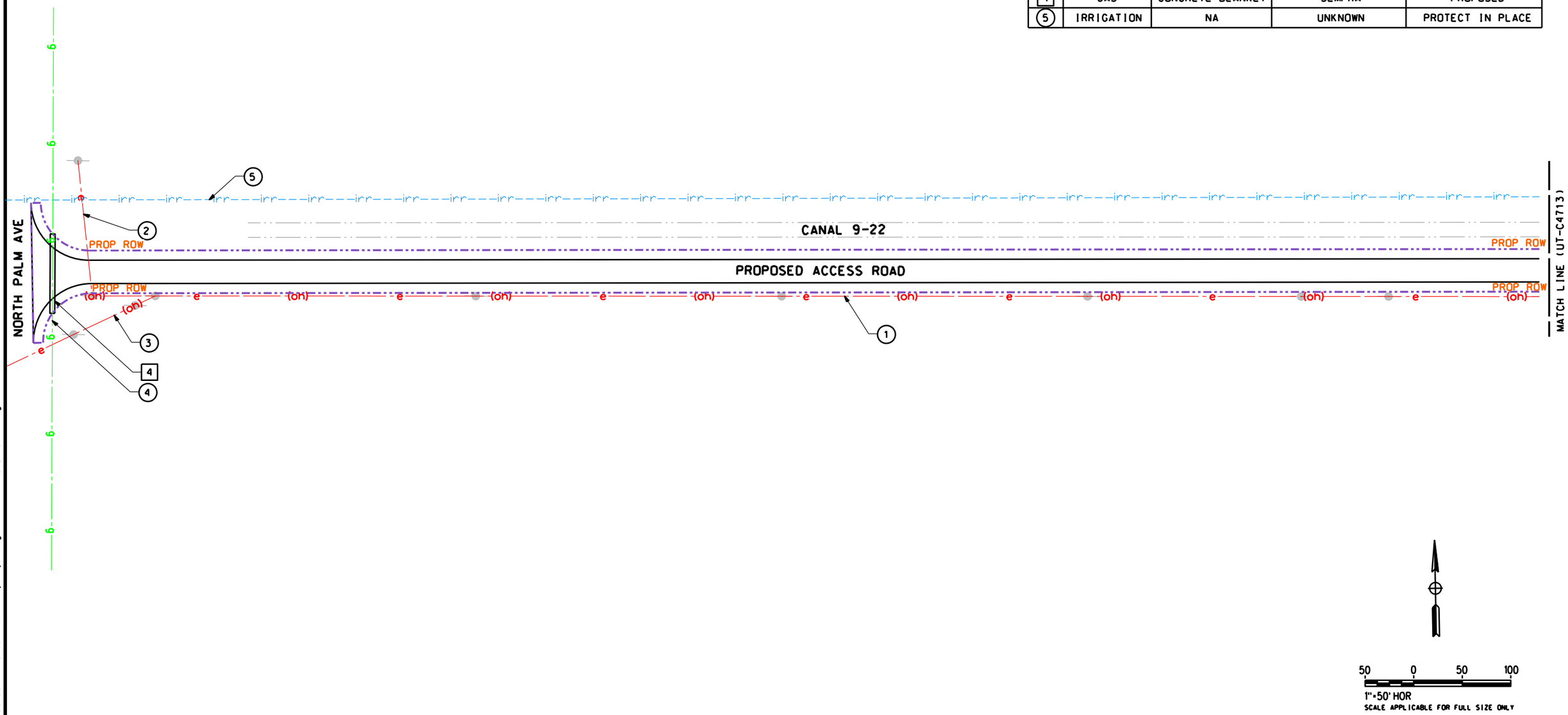
UTILITY INFORMATION

NO.	FACILITY	SIZE	OWNER	DISPOSITION
1	OH POWER	NA	PG&E	PROTECT IN PLACE
2	OH POWER	NA	PG&E	PROTECT-IN-PLACE
3	OH POWER	NA	PG&E	PROTECT IN PLACE
4	GAS	NA	SEMPRA	RELOCATE
4	GAS	CONCRETE BLANKET	SEMPRA	PROPOSED
5	IRRIGATION	NA	UNKNOWN	PROTECT IN PLACE



REV	DATE	BY	CHK	APP	DESCRIPTION

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CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
PACKAGE 4 - ALIGNMENT WS1
UTILITIES
COMPOSITE UTILITY PLAN
NORTH PALM AVENUE ACCESS ROAD

CONTRACT NO. HSR 06-0003
DRAWING NO. UT-C4714
SCALE AS SHOWN
SHEET NO. 122 OF 163

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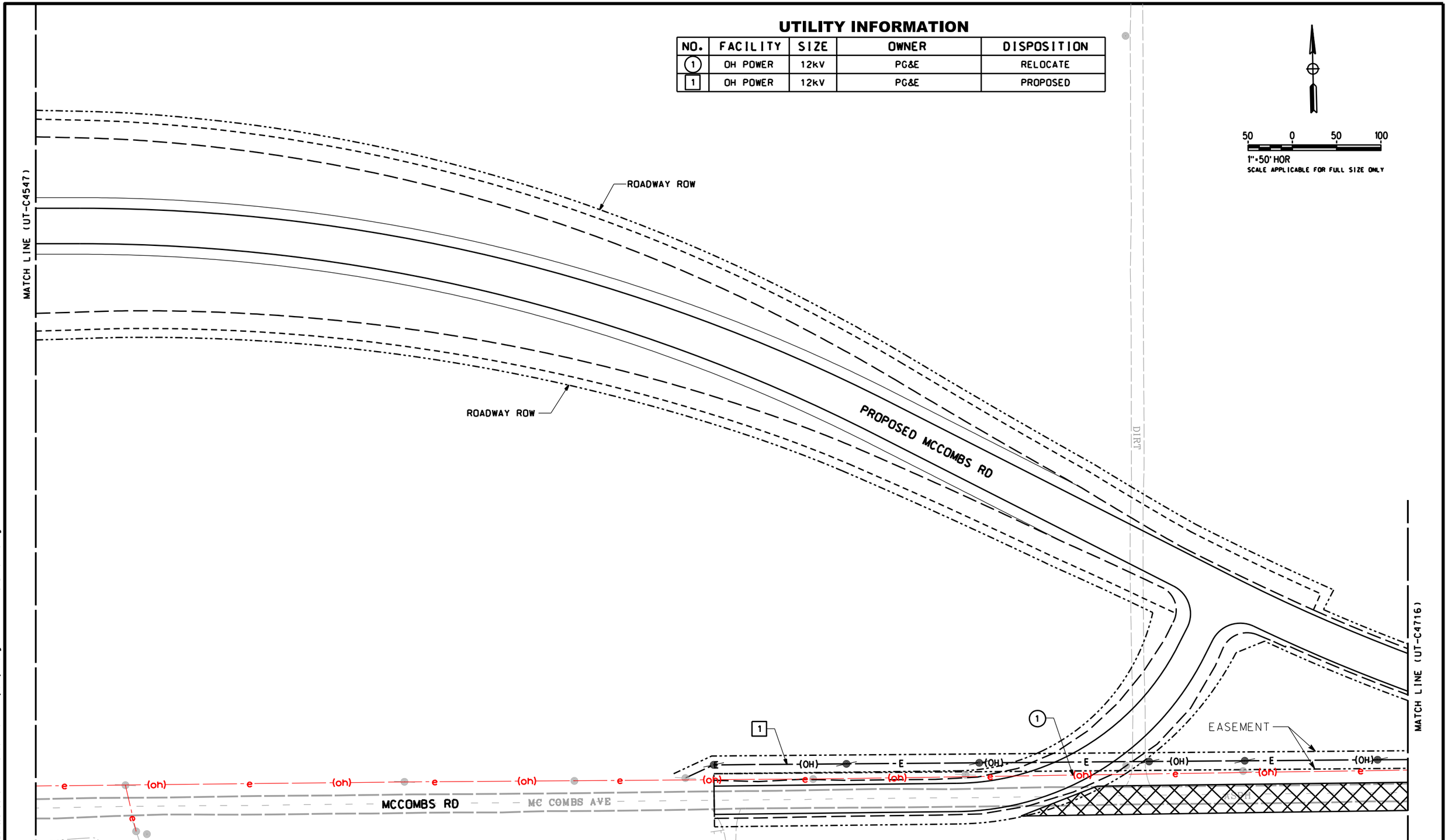
UTILITY INFORMATION

NO.	FACILITY	SIZE	OWNER	DISPOSITION
1	OH POWER	12kV	PG&E	RELOCATE
1	OH POWER	12kV	PG&E	PROPOSED



REV	DATE	BY	CHK	APP	DESCRIPTION

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CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
PACKAGE 4 - ALIGNMENT WS1
UTILITIES
COMPOSITE UTILITY PLAN
MCCOMBS ROAD

CONTRACT NO. HSR 06-0003
DRAWING NO. UT-C4715
SCALE AS SHOWN
SHEET NO. 123 OF 163

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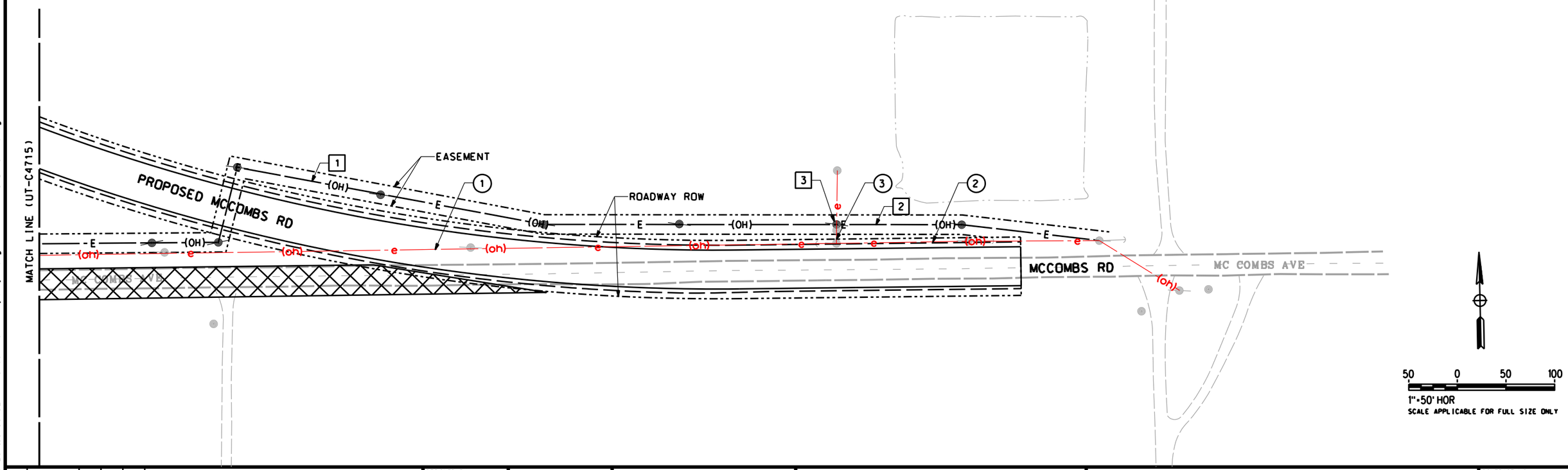
UTILITY INFORMATION

NO.	FACILITY	SIZE	OWNER	DISPOSITION
1	OH POWER	12kV	PG&E	RELOCATE
1	OH POWER	12kV	PG&E	PROPOSED
2	OH POWER	480V	PG&E	RELOCATE
2	OH POWER	480V	PG&E	PROPOSED
3	OH POWER	NA	PG&E	RELOCATE
3	OH POWER	NA	PG&E	PROPOSED



REV	DATE	BY	CHK	APP	DESCRIPTION

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CALIFORNIA HIGH-SPEED RAIL AUTHORITY

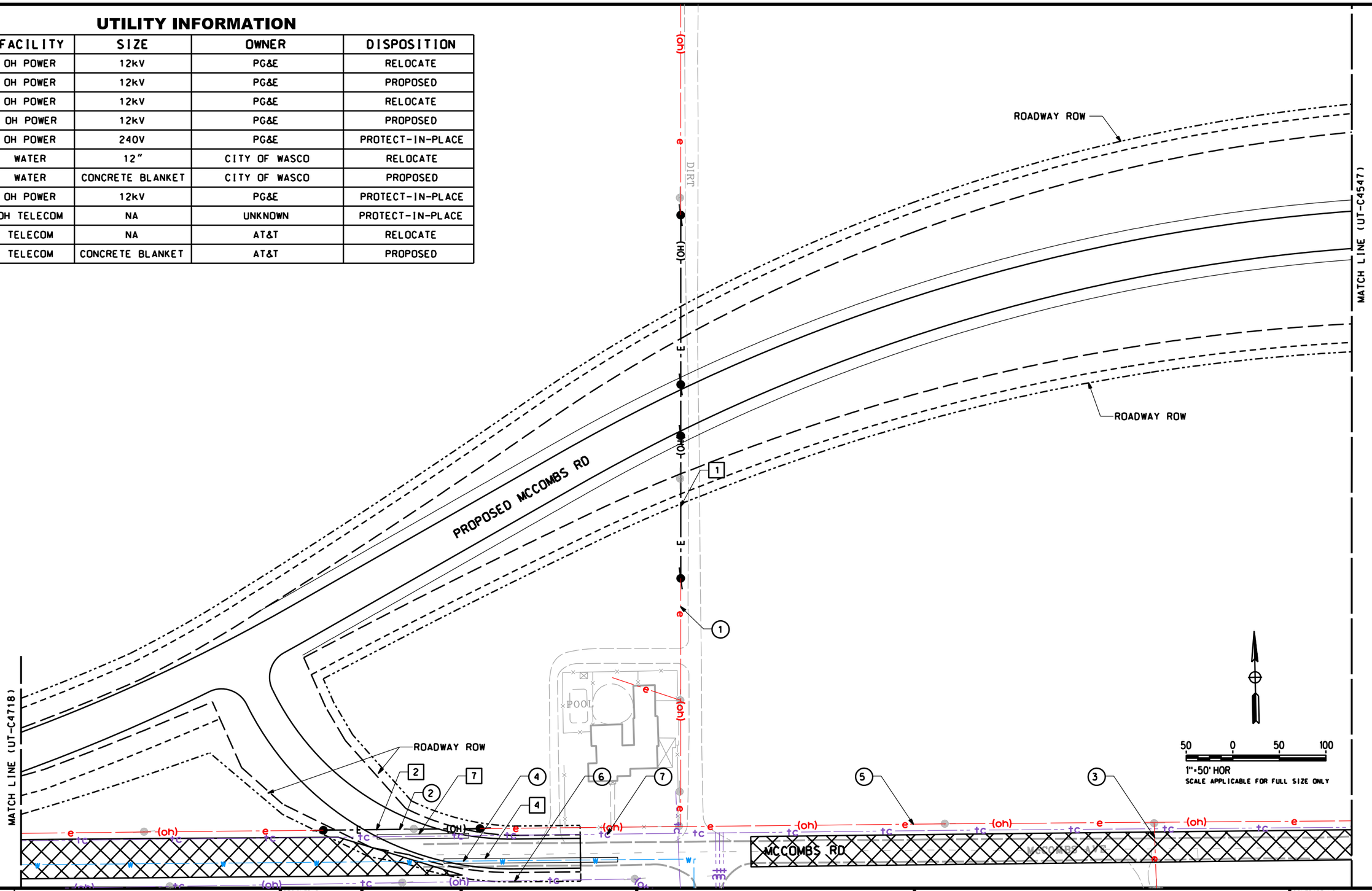
CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
PACKAGE 4 - ALIGNMENT WS1
UTILITIES
COMPOSITE UTILITY PLAN
MCCOMBS ROAD

CONTRACT NO. HSR 06-0003
DRAWING NO. UT-C4716
SCALE AS SHOWN
SHEET NO. 124 OF 163

S-UT-C4716.dgn pdf.pltcfg stcol.tbl 11/20/2015 03:58:52 PM Sylvie

UTILITY INFORMATION

NO.	FACILITY	SIZE	OWNER	DISPOSITION
1	OH POWER	12kV	PG&E	RELOCATE
[1]	OH POWER	12kV	PG&E	PROPOSED
2	OH POWER	12kV	PG&E	RELOCATE
[2]	OH POWER	12kV	PG&E	PROPOSED
3	OH POWER	240V	PG&E	PROTECT-IN-PLACE
4	WATER	12"	CITY OF WASCO	RELOCATE
[4]	WATER	CONCRETE BLANKET	CITY OF WASCO	PROPOSED
5	OH POWER	12kV	PG&E	PROTECT-IN-PLACE
6	OH TELECOM	NA	UNKNOWN	PROTECT-IN-PLACE
7	TELECOM	NA	AT&T	RELOCATE
[7]	TELECOM	CONCRETE BLANKET	AT&T	PROPOSED



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CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
PACKAGE 4 - ALIGNMENT WS1
UTILITIES
COMPOSITE UTILITY PLAN
MCCOMBS ROAD

CONTRACT NO. HSR 06-0003
DRAWING NO. UT-C4717
SCALE AS SHOWN
SHEET NO. 125 OF 163

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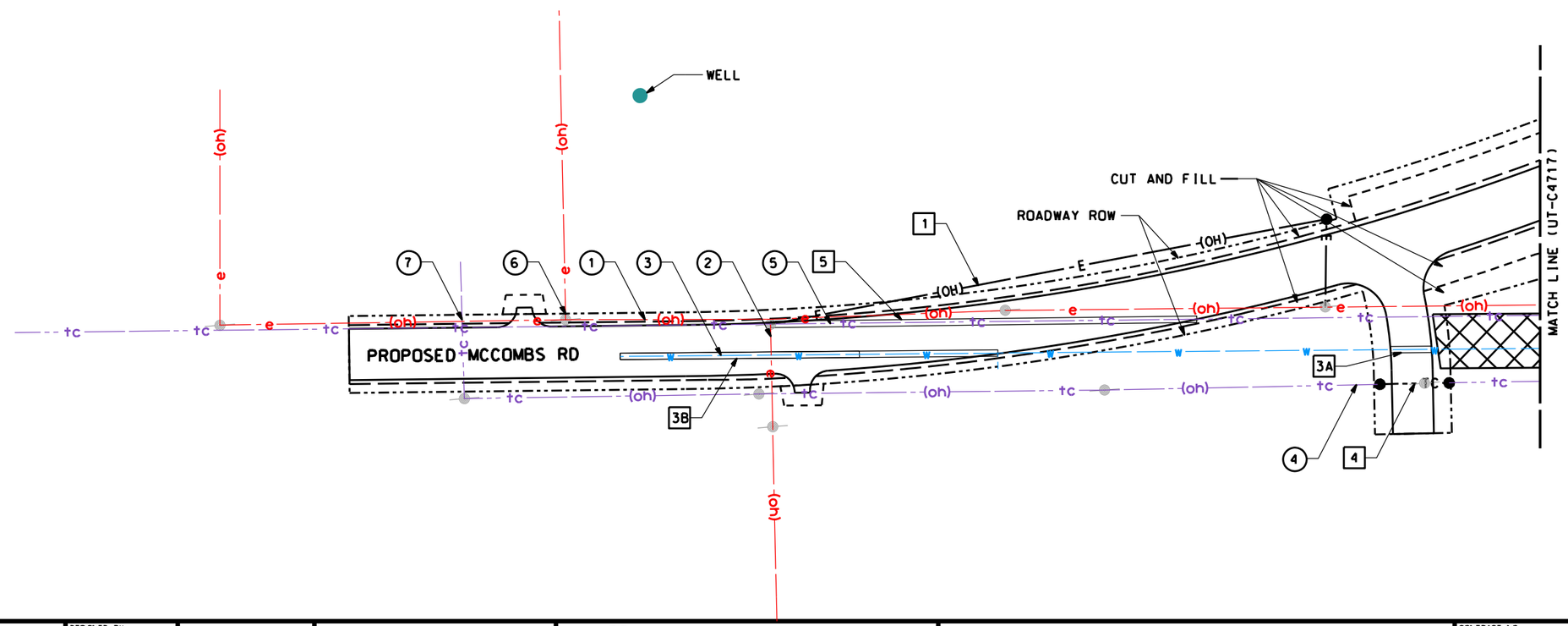
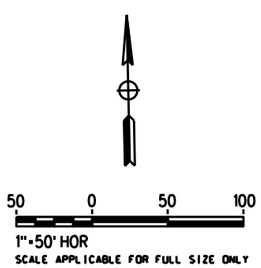
UTILITY INFORMATION

NO.	FACILITY	SIZE	OWNER	DISPOSITION
1	OH POWER	12kV	PG&E	RELOCATE
1	OH POWER	12kV	PG&E	PROPOSED
2	OH POWER	12kV	PG&E	PROTECT-IN-PLACE
3	WATER	12"	CITY OF WASCO	RELOCATE
3A	WATER	CONCRETE BLANKET	CITY OF WASCO	PROPOSED
3B	WATER	CONCRETE BLANKET	CITY OF WASCO	PROPOSED
4	OH TELECOM	NA	UNKNOWN	RELOCATE
4	OH TELECOM	NA	UNKNOWN	PROPOSED
5	UG TELECOM	NA	AT&T	RELOCATE
5	UG TELECOM	CONCRETE BLANKET	AT&T	PROPOSED
6	OH POWER	NA	UNKNOWN	PROTECT-IN-PLACE
7	OH TELECOM	NA	UNKNOWN	PROTECT-IN-PLACE





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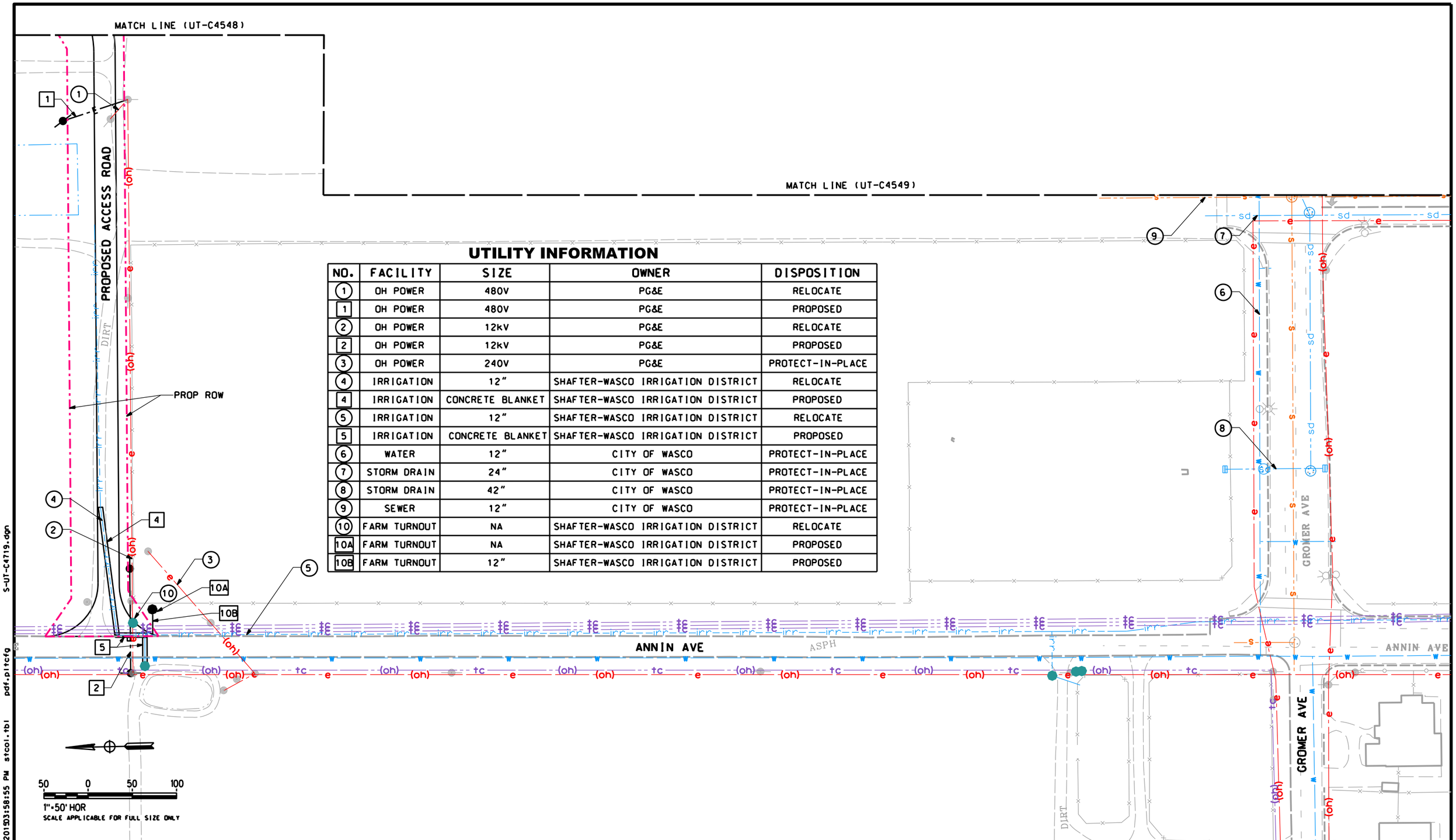
CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
PACKAGE 4 - ALIGNMENT WS1
UTILITIES
COMPOSITE UTILITY PLAN
MCCOMBS ROAD

CONTRACT NO. HSR 06-0003
DRAWING NO. UT-C4718
SCALE AS SHOWN
SHEET NO. 126 OF 163

S-UT-C4718.dgn pdf.pltcfg stcol.tbl 11/20/2015 03:58:54 PM Sylvie



UTILITY INFORMATION

NO.	FACILITY	SIZE	OWNER	DISPOSITION
1	OH POWER	480V	PG&E	RELOCATE
[1]	OH POWER	480V	PG&E	PROPOSED
2	OH POWER	12kV	PG&E	RELOCATE
[2]	OH POWER	12kV	PG&E	PROPOSED
3	OH POWER	240V	PG&E	PROTECT-IN-PLACE
4	IRRIGATION	12"	SHAFTER-WASCO IRRIGATION DISTRICT	RELOCATE
[4]	IRRIGATION	CONCRETE BLANKET	SHAFTER-WASCO IRRIGATION DISTRICT	PROPOSED
5	IRRIGATION	12"	SHAFTER-WASCO IRRIGATION DISTRICT	RELOCATE
[5]	IRRIGATION	CONCRETE BLANKET	SHAFTER-WASCO IRRIGATION DISTRICT	PROPOSED
6	WATER	12"	CITY OF WASCO	PROTECT-IN-PLACE
7	STORM DRAIN	24"	CITY OF WASCO	PROTECT-IN-PLACE
8	STORM DRAIN	42"	CITY OF WASCO	PROTECT-IN-PLACE
9	SEWER	12"	CITY OF WASCO	PROTECT-IN-PLACE
10	FARM TURNOUT	NA	SHAFTER-WASCO IRRIGATION DISTRICT	RELOCATE
[10A]	FARM TURNOUT	NA	SHAFTER-WASCO IRRIGATION DISTRICT	PROPOSED
[10B]	FARM TURNOUT	12"	SHAFTER-WASCO IRRIGATION DISTRICT	PROPOSED

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CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
PACKAGE 4 - ALIGNMENT WS1
UTILITIES
COMPOSITE UTILITY PLAN
ANNIN AVE ACCESS ROAD

CONTRACT NO. HSR 06-0003
DRAWING NO. UT-C4719
SCALE AS SHOWN
SHEET NO. 127 OF 163

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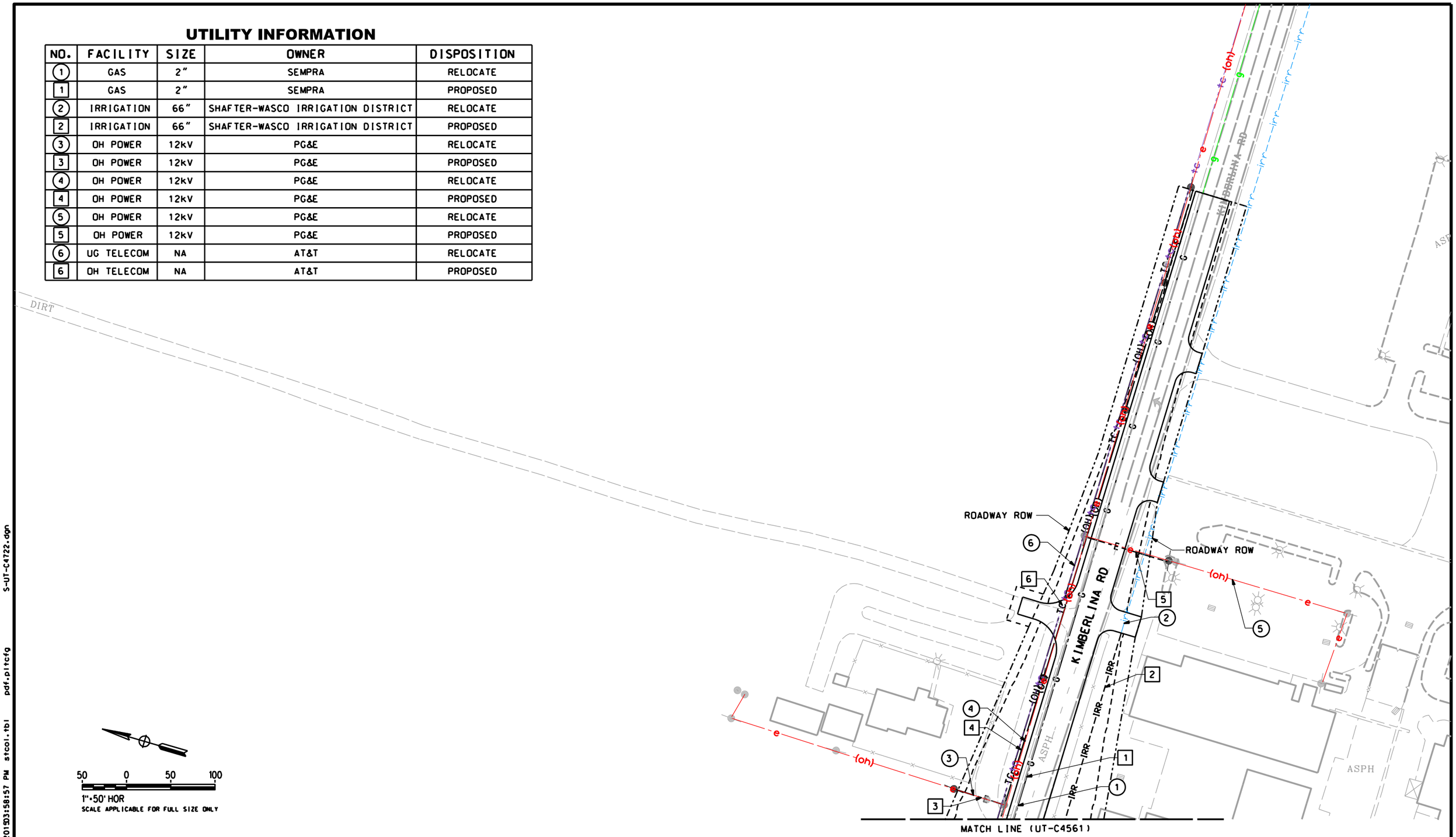
UTILITY INFORMATION

NO.	FACILITY	SIZE	OWNER	DISPOSITION
(1)	GAS	2"	SEMPRA	RELOCATE
[1]	GAS	2"	SEMPRA	PROPOSED
(2)	IRRIGATION	66"	SHAFTER-WASCO IRRIGATION DISTRICT	RELOCATE
[2]	IRRIGATION	66"	SHAFTER-WASCO IRRIGATION DISTRICT	PROPOSED
(3)	OH POWER	12kV	PG&E	RELOCATE
[3]	OH POWER	12kV	PG&E	PROPOSED
(4)	OH POWER	12kV	PG&E	RELOCATE
[4]	OH POWER	12kV	PG&E	PROPOSED
(5)	OH POWER	12kV	PG&E	RELOCATE
[5]	OH POWER	12kV	PG&E	PROPOSED
(6)	UG TELECOM	NA	AT&T	RELOCATE
[6]	OH TELECOM	NA	AT&T	PROPOSED



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IN CHARGE S. BURGES
DATE 09/30/14

PROPOSED PRELIMINARY DESIGN

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CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
PACKAGE 4 - ALIGNMENT WS1
UTILITIES
COMPOSITE UTILITY PLAN
KIMBERLINA ROAD

CONTRACT NO. HSR 06-0003
DRAWING NO. UT-C4722
SCALE AS SHOWN
SHEET NO. 130 OF 163

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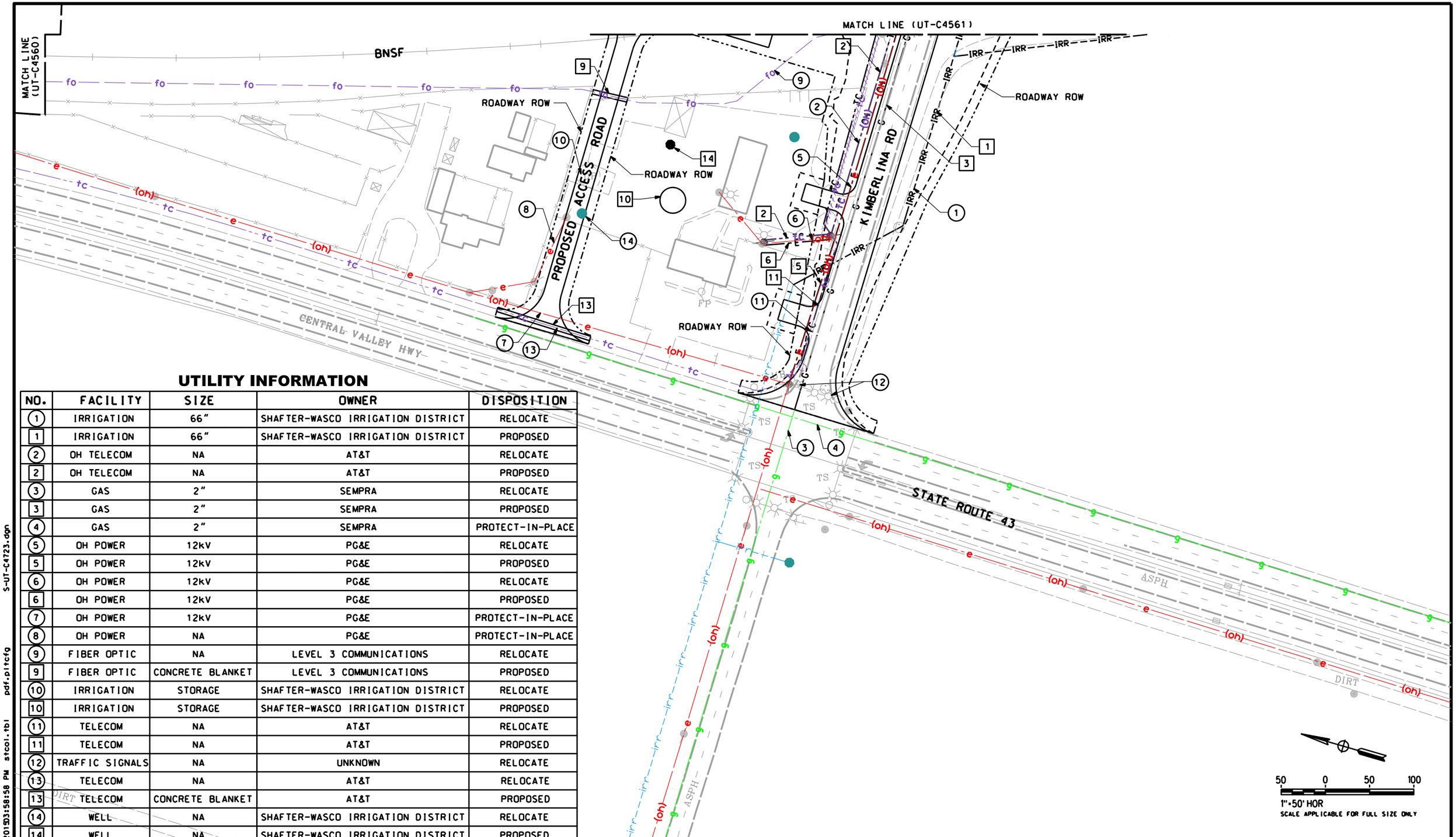

UTILITY INFORMATION

NO.	FACILITY	SIZE	OWNER	DISPOSITION
1	IRRIGATION	66"	SHAFTER-WASCO IRRIGATION DISTRICT	RELOCATE
1	IRRIGATION	66"	SHAFTER-WASCO IRRIGATION DISTRICT	PROPOSED
2	OH TELECOM	NA	AT&T	RELOCATE
2	OH TELECOM	NA	AT&T	PROPOSED
3	GAS	2"	SEMPRA	RELOCATE
3	GAS	2"	SEMPRA	PROPOSED
4	GAS	2"	SEMPRA	PROTECT-IN-PLACE
5	OH POWER	12kV	PG&E	RELOCATE
5	OH POWER	12kV	PG&E	PROPOSED
6	OH POWER	12kV	PG&E	RELOCATE
6	OH POWER	12kV	PG&E	PROPOSED
7	OH POWER	12kV	PG&E	PROTECT-IN-PLACE
8	OH POWER	NA	PG&E	PROTECT-IN-PLACE
9	FIBER OPTIC	NA	LEVEL 3 COMMUNICATIONS	RELOCATE
9	FIBER OPTIC	CONCRETE BLANKET	LEVEL 3 COMMUNICATIONS	PROPOSED
10	IRRIGATION	STORAGE	SHAFTER-WASCO IRRIGATION DISTRICT	RELOCATE
10	IRRIGATION	STORAGE	SHAFTER-WASCO IRRIGATION DISTRICT	PROPOSED
11	TELECOM	NA	AT&T	RELOCATE
11	TELECOM	NA	AT&T	PROPOSED
12	TRAFFIC SIGNALS	NA	UNKNOWN	RELOCATE
13	TELECOM	NA	AT&T	RELOCATE
13	TELECOM	CONCRETE BLANKET	AT&T	PROPOSED
14	WELL	NA	SHAFTER-WASCO IRRIGATION DISTRICT	RELOCATE
14	WELL	NA	SHAFTER-WASCO IRRIGATION DISTRICT	PROPOSED

REV	DATE	BY	CHK	APP	DESCRIPTION

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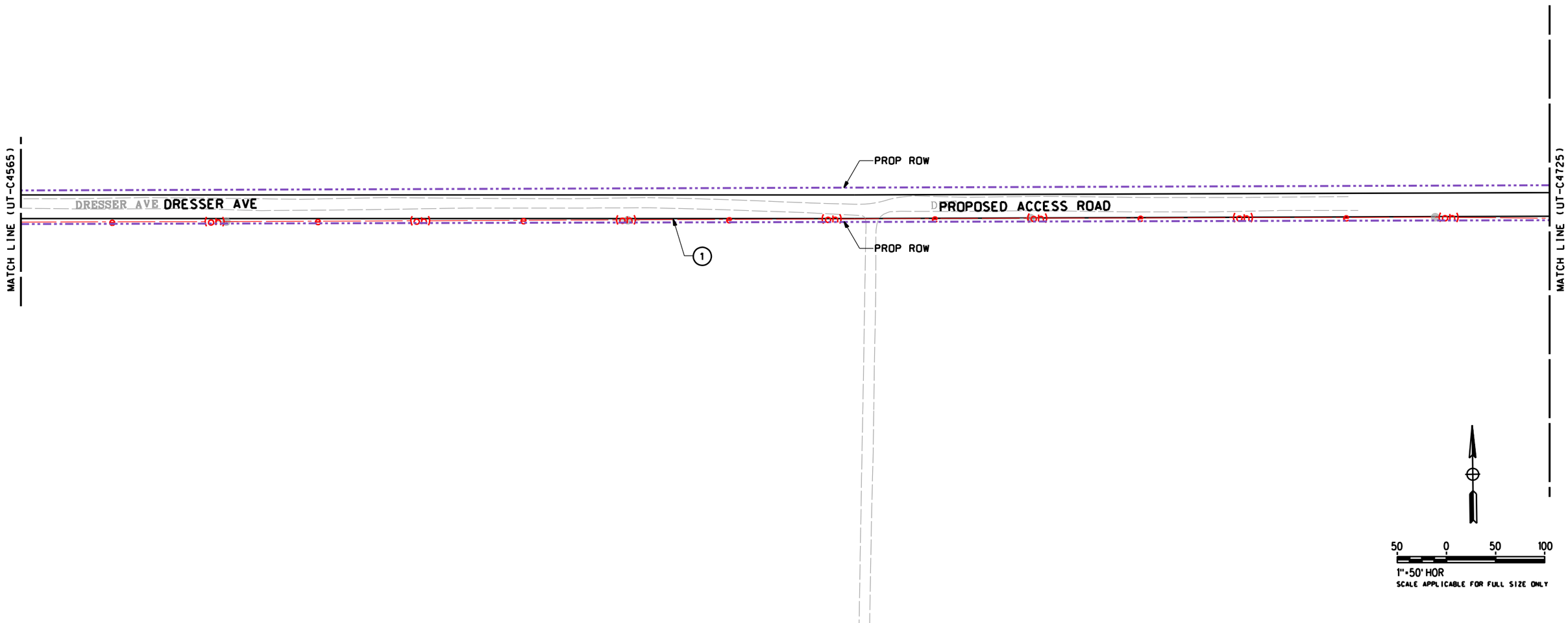
CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
PACKAGE 4 - ALIGNMENT WS1
UTILITIES
COMPOSITE UTILITY PLAN
KIMBERLINA ROAD

CONTRACT NO. HSR 06-0003
DRAWING NO. UT-C4723
SCALE AS SHOWN
SHEET NO. 131 OF 163

S-UT-C4723.dgn pdf.pltcfg stcol.tbl 11/20/2015 3:58:58 PM Sylvie

UTILITY INFORMATION

NO.	FACILITY	SIZE	OWNER	DISPOSITION
1	OH POWER	12kV	PG&E	PROTECT-IN-PLACE



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CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
PACKAGE 4 - ALIGNMENT WS1
UTILITIES
COMPOSITE UTILITY PLAN
DRESSER AVENUE ACCESS ROAD

CONTRACT NO. HSR 06-0003
DRAWING NO. UT-C4724
SCALE AS SHOWN
SHEET NO. 132 OF 163

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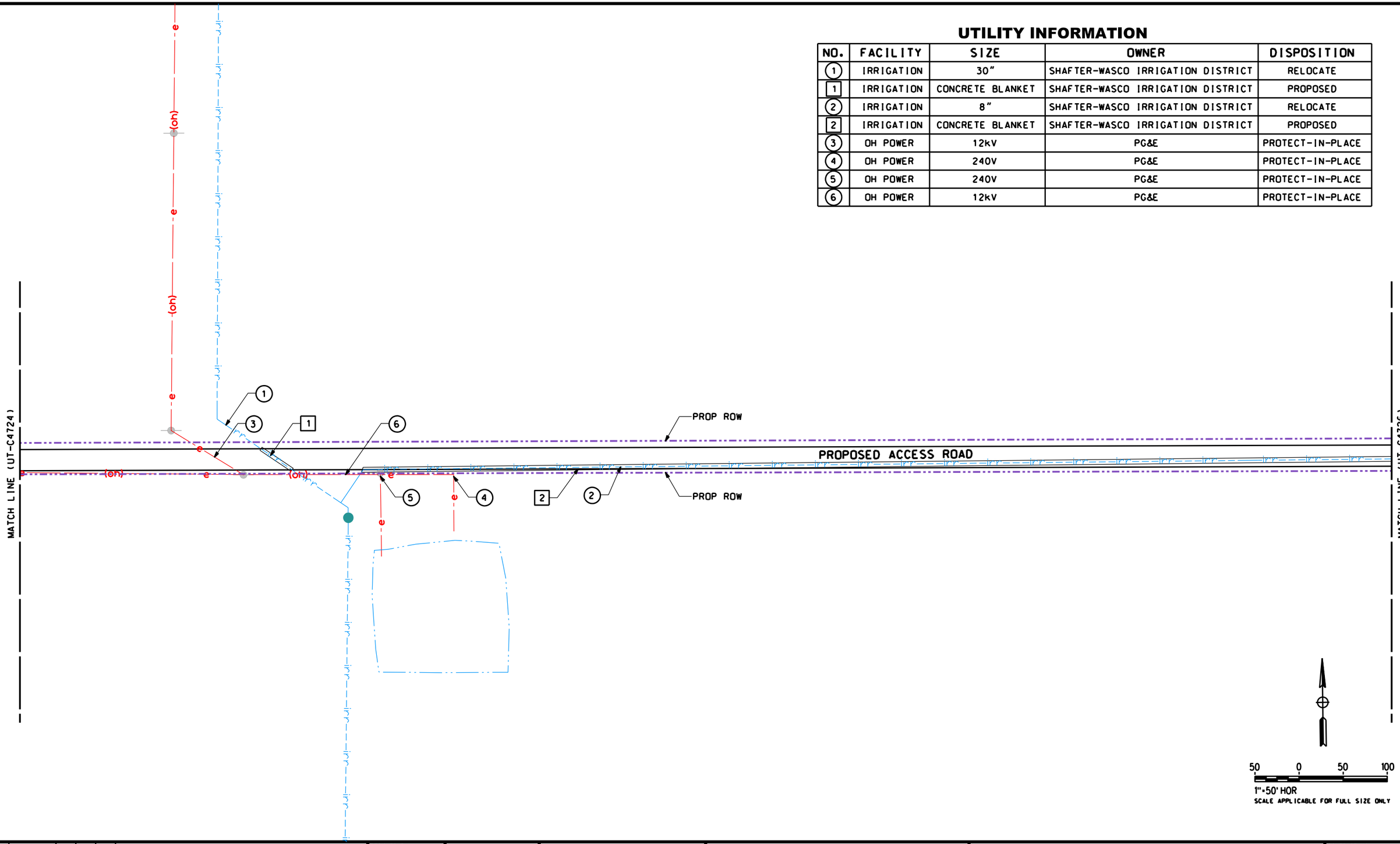
UTILITY INFORMATION

NO.	FACILITY	SIZE	OWNER	DISPOSITION
1	IRRIGATION	30"	SHAFTER-WASCO IRRIGATION DISTRICT	RELOCATE
[1]	IRRIGATION	CONCRETE BLANKET	SHAFTER-WASCO IRRIGATION DISTRICT	PROPOSED
2	IRRIGATION	8"	SHAFTER-WASCO IRRIGATION DISTRICT	RELOCATE
[2]	IRRIGATION	CONCRETE BLANKET	SHAFTER-WASCO IRRIGATION DISTRICT	PROPOSED
3	OH POWER	12kV	PG&E	PROTECT-IN-PLACE
4	OH POWER	240V	PG&E	PROTECT-IN-PLACE
5	OH POWER	240V	PG&E	PROTECT-IN-PLACE
6	OH POWER	12kV	PG&E	PROTECT-IN-PLACE



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY T. RAMIL
DRAWN BY V. ORTEGA
CHECKED BY T. GRAU
IN CHARGE S. BURGES
DATE 09/30/14

PROPOSED PRELIMINARY DESIGN

NOT FOR CONSTRUCTION

MARRS

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

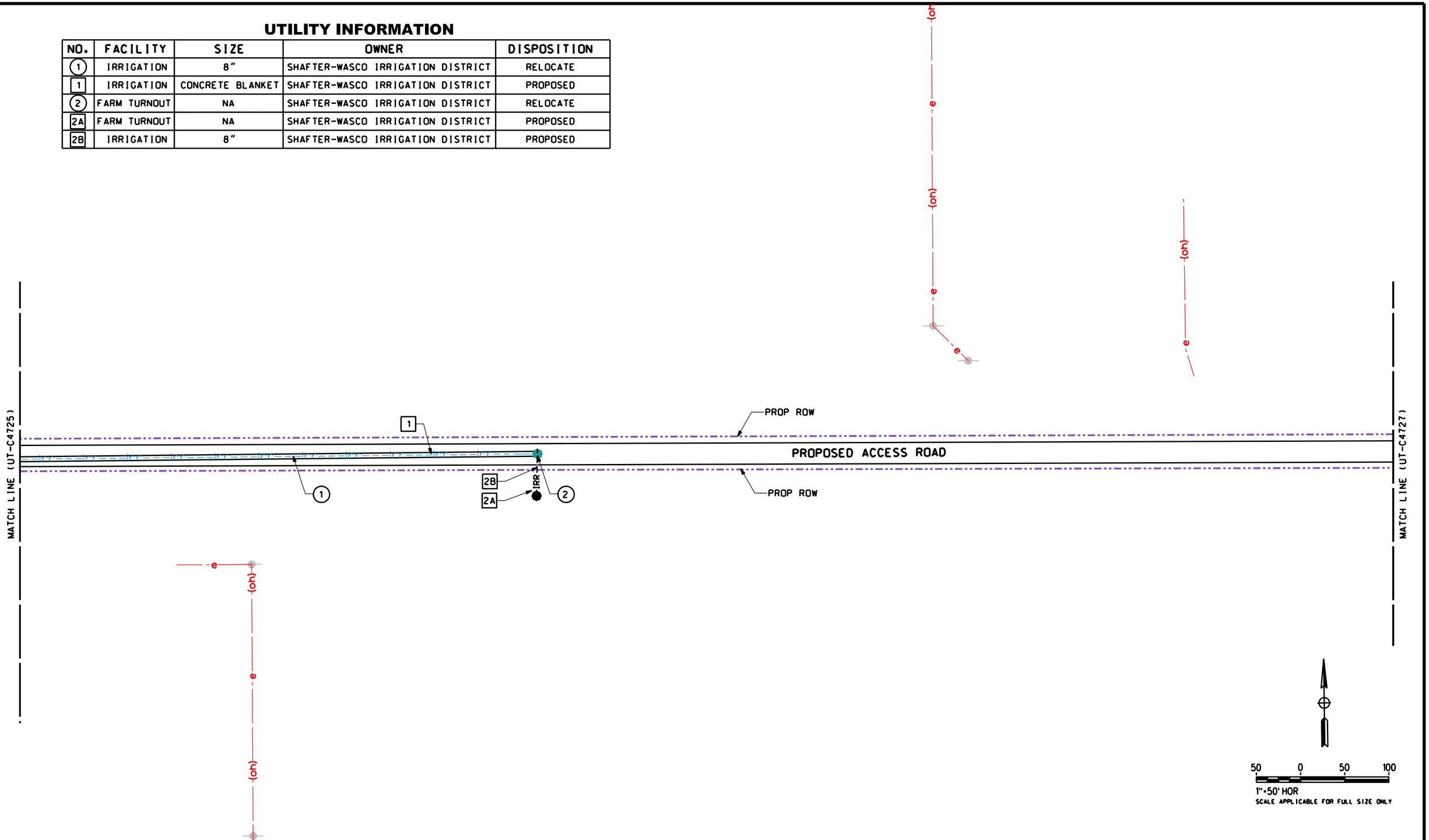
CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
PACKAGE 4 - ALIGNMENT WS1
UTILITIES
COMPOSITE UTILITY PLAN
DRESSER AVENUE ACCESS ROAD

CONTRACT NO. HSR 06-0003
DRAWING NO. UT-C4725
SCALE AS SHOWN
SHEET NO. 133 OF 163

Sylvie 11/20/2015 03:59:00 PM stcol.tbl pdf.pltcfg S-UT-C4725.dgn

UTILITY INFORMATION

NO.	FACILITY	SIZE	OWNER	DISPOSITION
1	IRRIGATION	8"	SHAFTER-WASCO IRRIGATION DISTRICT	RELOCATE
1	IRRIGATION	CONCRETE BLANKET	SHAFTER-WASCO IRRIGATION DISTRICT	PROPOSED
2	FARM TURNOUT	NA	SHAFTER-WASCO IRRIGATION DISTRICT	RELOCATE
2A	FARM TURNOUT	NA	SHAFTER-WASCO IRRIGATION DISTRICT	PROPOSED
2B	IRRIGATION	8"	SHAFTER-WASCO IRRIGATION DISTRICT	PROPOSED



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY T. RAMIL
DRAWN BY V. ORTEGA
CHECKED BY T. GRAU
IN CHARGE S. BURGES
DATE 09/30/14

PROPOSED PRELIMINARY DESIGN

NOT FOR CONSTRUCTION

MARRS

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

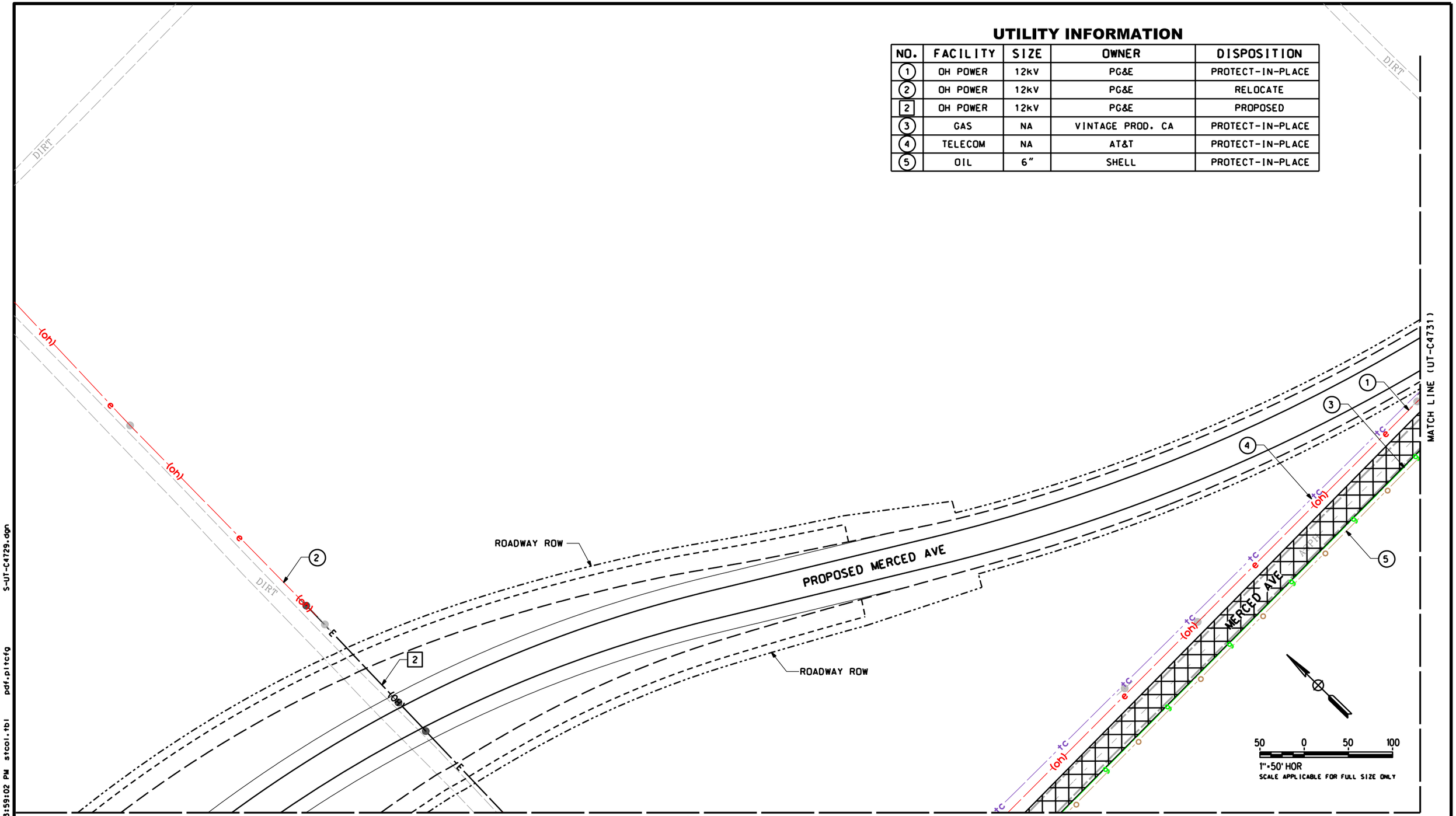
CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
PACKAGE 4 - ALIGNMENT WS1
UTILITIES
COMPOSITE UTILITY PLAN
DRESSER AVENUE ACCESS ROAD

CONTRACT NO. HSR 06-0003
DRAWING NO. UT-C4726
SCALE AS SHOWN
SHEET NO. 134 OF 163

S-UT-C4726.dgn pdf.pltcfg stcol.tbl PM 11/20/2015 3:59:01 Sylvie

UTILITY INFORMATION

NO.	FACILITY	SIZE	OWNER	DISPOSITION
1	OH POWER	12kV	PG&E	PROTECT-IN-PLACE
2	OH POWER	12kV	PG&E	RELOCATE
2	OH POWER	12kV	PG&E	PROPOSED
3	GAS	NA	VINTAGE PROD. CA	PROTECT-IN-PLACE
4	TELECOM	NA	AT&T	PROTECT-IN-PLACE
5	OIL	6"	SHELL	PROTECT-IN-PLACE



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY T. RAMIL
DRAWN BY V. ORTEGA
CHECKED BY T. GRAU
IN CHARGE S. BURGES
DATE 09/30/14

PROPOSED PRELIMINARY DESIGN

NOT FOR CONSTRUCTION

MARRS

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
PACKAGE 4 - ALIGNMENT WS1
UTILITIES
COMPOSITE UTILITY PLAN
MERCED AVENUE

CONTRACT NO. HSR 06-0003
DRAWING NO. UT-C4729
SCALE AS SHOWN
SHEET NO. 137 OF 163

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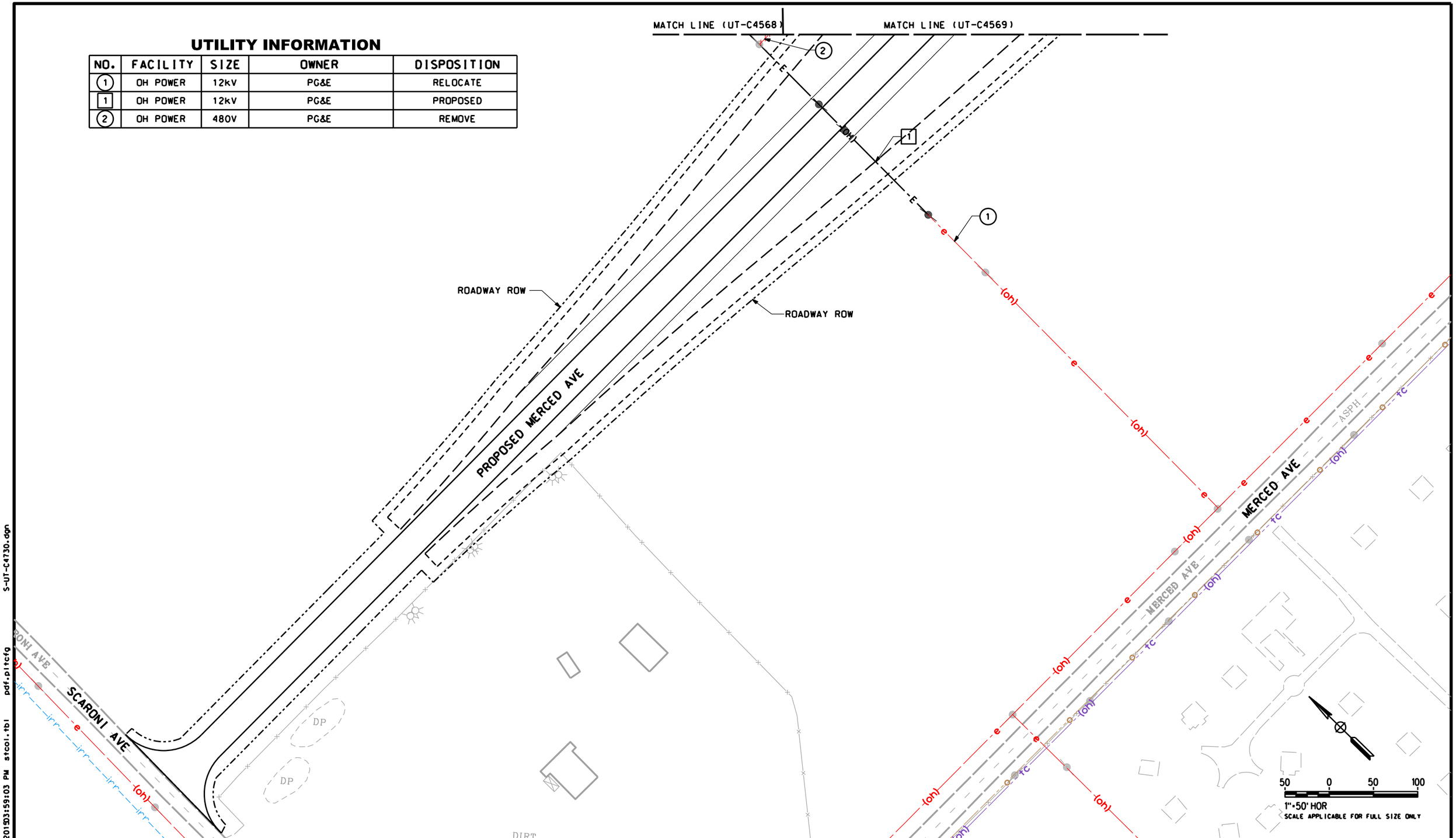
UTILITY INFORMATION

NO.	FACILITY	SIZE	OWNER	DISPOSITION
1	OH POWER	12kV	PG&E	RELOCATE
[1]	OH POWER	12kV	PG&E	PROPOSED
2	OH POWER	480V	PG&E	REMOVE



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY T. RAMIL
DRAWN BY V. ORTEGA
CHECKED BY T. GRAU
IN CHARGE S. BURGES
DATE 09/30/14

PROPOSED PRELIMINARY DESIGN

NOT FOR CONSTRUCTION

MARRS

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
PACKAGE 4 - ALIGNMENT WS1
UTILITIES
COMPOSITE UTILITY PLAN
MERCED AVE

CONTRACT NO. HSR 06-0003
DRAWING NO. UT-C4730
SCALE AS SHOWN
SHEET NO. 138 OF 163

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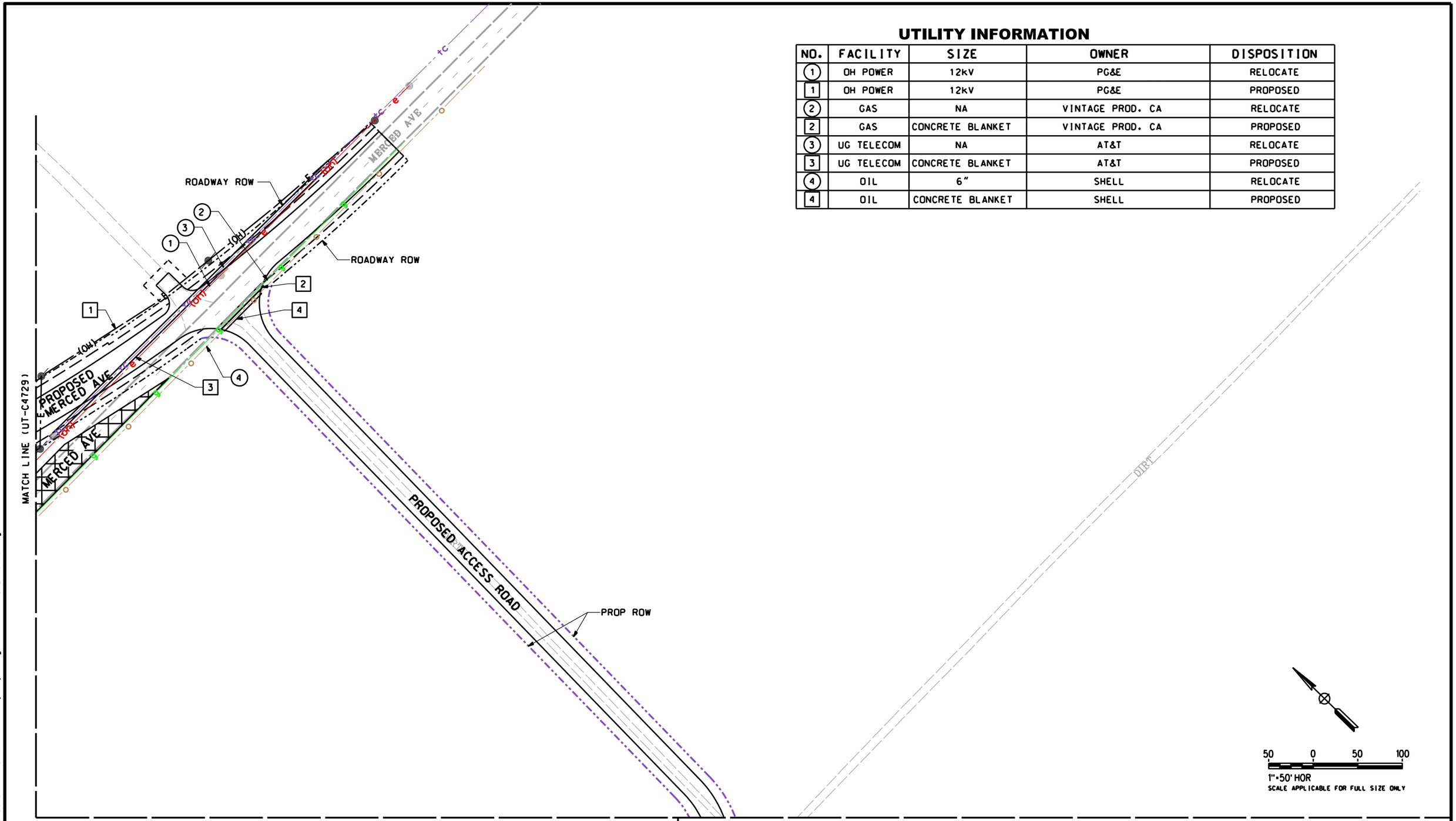


UTILITY INFORMATION

NO.	FACILITY	SIZE	OWNER	DISPOSITION
(1)	OH POWER	12kV	PG&E	RELOCATE
[1]	OH POWER	12kV	PG&E	PROPOSED
(2)	GAS	NA	VINTAGE PROD. CA	RELOCATE
[2]	GAS	CONCRETE BLANKET	VINTAGE PROD. CA	PROPOSED
(3)	UG TELECOM	NA	AT&T	RELOCATE
[3]	UG TELECOM	CONCRETE BLANKET	AT&T	PROPOSED
(4)	OIL	6"	SHELL	RELOCATE
[4]	OIL	CONCRETE BLANKET	SHELL	PROPOSED

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY T. RAMIL
DRAWN BY V. ORTEGA
CHECKED BY T. GRAU
IN CHARGE S. BURGES
DATE 09/30/14

PROPOSED PRELIMINARY DESIGN

NOT FOR CONSTRUCTION

MARRS

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
PACKAGE 4 - ALIGNMENT WS1
UTILITIES
COMPOSITE UTILITY PLAN
MERCED AVENUE

CONTRACT NO. HSR 06-0003
DRAWING NO. UT-C4731
SCALE AS SHOWN
SHEET NO. 139 OF 163

S-UT-C4731.dgn pdf.pltcfg stcol.tbl 11/20/2015 3:59:04 PM Sylvie

TYPICAL SECTIONS

CALIFORNIA
HIGH-SPEED RAIL PROJECT

Design-Build Contract for
CONSTRUCTION PACKAGE 4

Proposals | RFP Number: HSR 14-32

CALIFORNIA RAIL BUILDERS

TYPICAL SECTIONS

INDEX - TYPICAL SECTIONS - HIGH-SPEED RAIL TRACK

DRAWING No.	REV No.	DRAWING DESCRIPTION	SHEET No
2.06.01_01		TYPICAL SECTIONS - TWO TRACK - EMBANKMENT - OR CUT	1 OF 10
2.06.01_02		TYPICAL SECTIONS - TWO TRACK - RETAINED FILL	2 OF 10
2.06.01_03		TYPICAL SECTIONS - TWO TRACK - EMBANKMENT AND RETAINED FILL	3 OF 10
2.06.01_04		TYPICAL SECTIONS - TWO TRACK - LEFT SIDE EMBANKMENT AND RETAINED FILL - RIGHT SIDE EMBANKMENT	4 OF 10
2.06.01_05		TYPICAL SECTIONS - TWO TRACK - LEFT SIDE EMBANKMENT - RIGHT SIDE EMBANKMENT AND RETAINED FILL	5 OF 10
2.06.01_06		TYPICAL SECTIONS - TWO TRACK - LEFT SIDE RETAINED FILL - RIGHT SIDE EMBANKMENT	6 OF 10
2.06.01_07		TYPICAL SECTIONS - TWO TRACK - LEFT SIDE RETAINED FILL - RIGHT SIDE EMBANKMENT AND RETAINED FILL	7 OF 10
2.06.01_08		TYPICAL SECTIONS - TWO TRACK - AT.GRADE	8 OF 10
2.06.01_09		TYPICAL SECTIONS - TWO TRACK - STRUCTURES	9 OF 10
2.06.01_10		TYPICAL SECTIONS - TWO TRACK - STRUCTURES	10 OF 10

INDEX - TYPICAL SECTIONS - ROADWAYS

DRAWING No.	REV No.	DRAWING DESCRIPTION	SHEET No
2.06.02_01		ALLENSWORTH BYPASS SUBSECTION - ALIGNMENT A1 - THROUGH WASCO SUBSECTION - ALIGNMENT WS1 ROADWAY GRADE SEPARATION - TYPICAL CROSS SECTIONS	1 OF 3
2.06.02_02		THROUGH WASCO SUBSECTION - ALIGNMENT WS1 - ROADWAY GRADE SEPARATION - TYPICAL CROSS SECTIONS	2 OF 3
2.06.02_03		THROUGH WASCO SUBSECTION - ALIGNMENT WS1 - ROADWAY GRADE SEPARATION - TYPICAL CROSS SECTIONS	3 OF 3

- PRELIMINARY, SUBJECT TO CHANGE DURING DETAIL DESIGN.

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
DRAWN BY
CHECKED BY
IN CHARGE
DATE

ONLY FOR BIDDING PURPOSES - NOT FOR CONSTRUCTION

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA RAIL BUILDERS

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD

INDEX OF DRAWINGS
TYPICAL SECTIONS

CONTRACT NO.
DRAWING NO. 2.06
SCALE NO SCALE
SHEET NO. 1 OF 1

TYPICAL SECTIONS

HIGH-SPEED RAIL TRACK

CALIFORNIA
HIGH-SPEED RAIL PROJECT

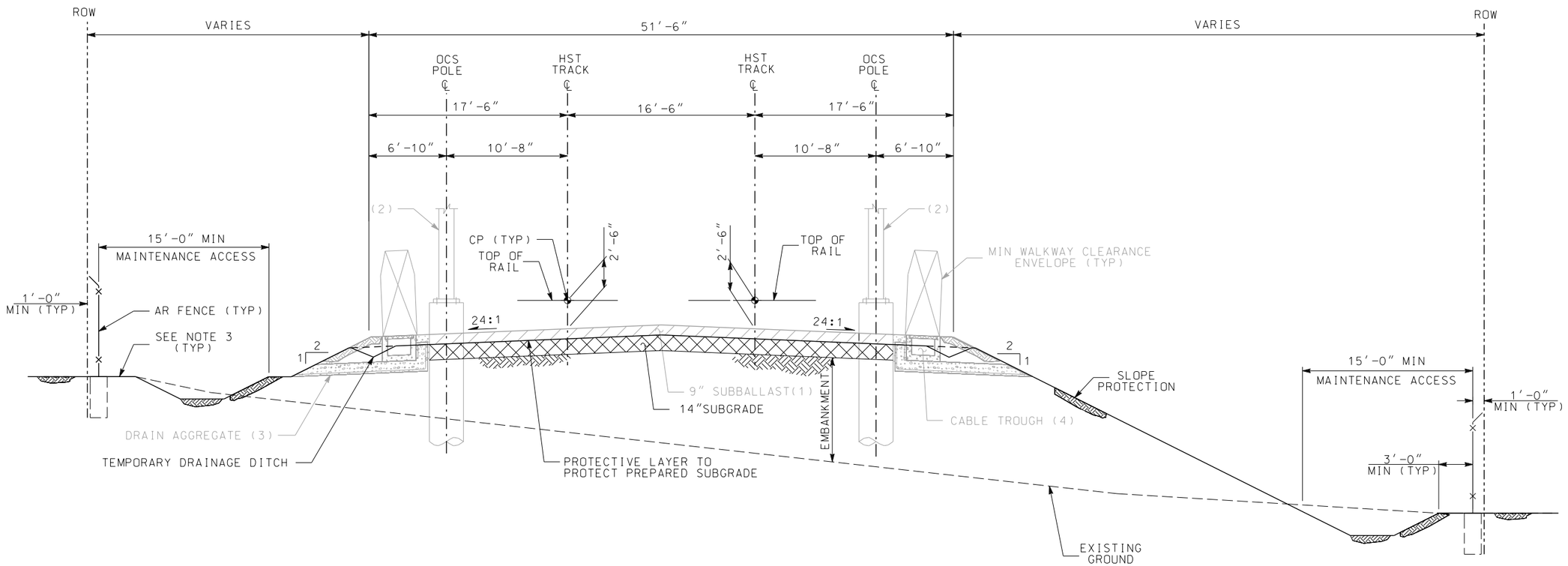
Design-Build Contract for
CONSTRUCTION PACKAGE 4

Proposal | RFP Number: HSR 14-32

CALIFORNIA RAIL BUILDERS

NOTES:

1. TRACK, SYSTEMS AND DRAINAGE ARE SCHEMATIC AND DO NOT REPRESENT DESIGN.
2. THE CONTROL POINT (CP) SHALL BE 2'-6" ABOVE THE TOP OF SUBBALLAST.
3. PROTECTIVE BARRIER, SUCH AS A BERM OR A DIKE, SHALL BE INSTALLED AT THE RIGHT-OF-WAY BOUNDARY TO INTERCEPT STORM WATER RUN OFF, WHERE THERE IS A POTENTIAL FOR STORM WATER RUN OFF TO ENTER CHST RIGHT-OF-WAY FROM ADJACENT PROPERTY.



WORK ELEMENTS NOT IN CONTRACT (NIC)
(1) SUBBALLAST
(2) OCS POLE AND FOUNDATION, ASSEMBLY, CONTACT WIRE, MESSENGER WIRE, NEGATIVE FEEDER, STATIC WIRE
(3) DRAIN AGGREGATE UNDER CABLE TROUGH WITH GEOFABRIC, INTERMITTENT DRAIN AGGREGATE LAYER
(4) CABLE TROUGH

SECTION 1

TWO TRACK
EMBANKMENT AND/OR CUT
STA 4435+50.00 THROUGH STA 4597+57.27
STA 4598+37.52 THROUGH STA 4786+06.00
STA 4787+06.80 THROUGH STA 4848+43.89
STA 4849+26.89 THROUGH STA 4925+33.36
STA 5154+50.00 THROUGH STA 5191+50.00
STA 5271+60.00 THROUGH STA 5291+86.00
STA 5713+17.00 THROUGH STA 5715+72.92
STA 5716+93.45 THROUGH STA 5879+93.88

5 0 5 10
SCALE: 1"=5'

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
DRAWN BY
CHECKED BY
IN CHARGE
DATE

ONLY FOR BIDDING PURPOSES - NOT FOR CONSTRUCTION

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA RAIL BUILDERS

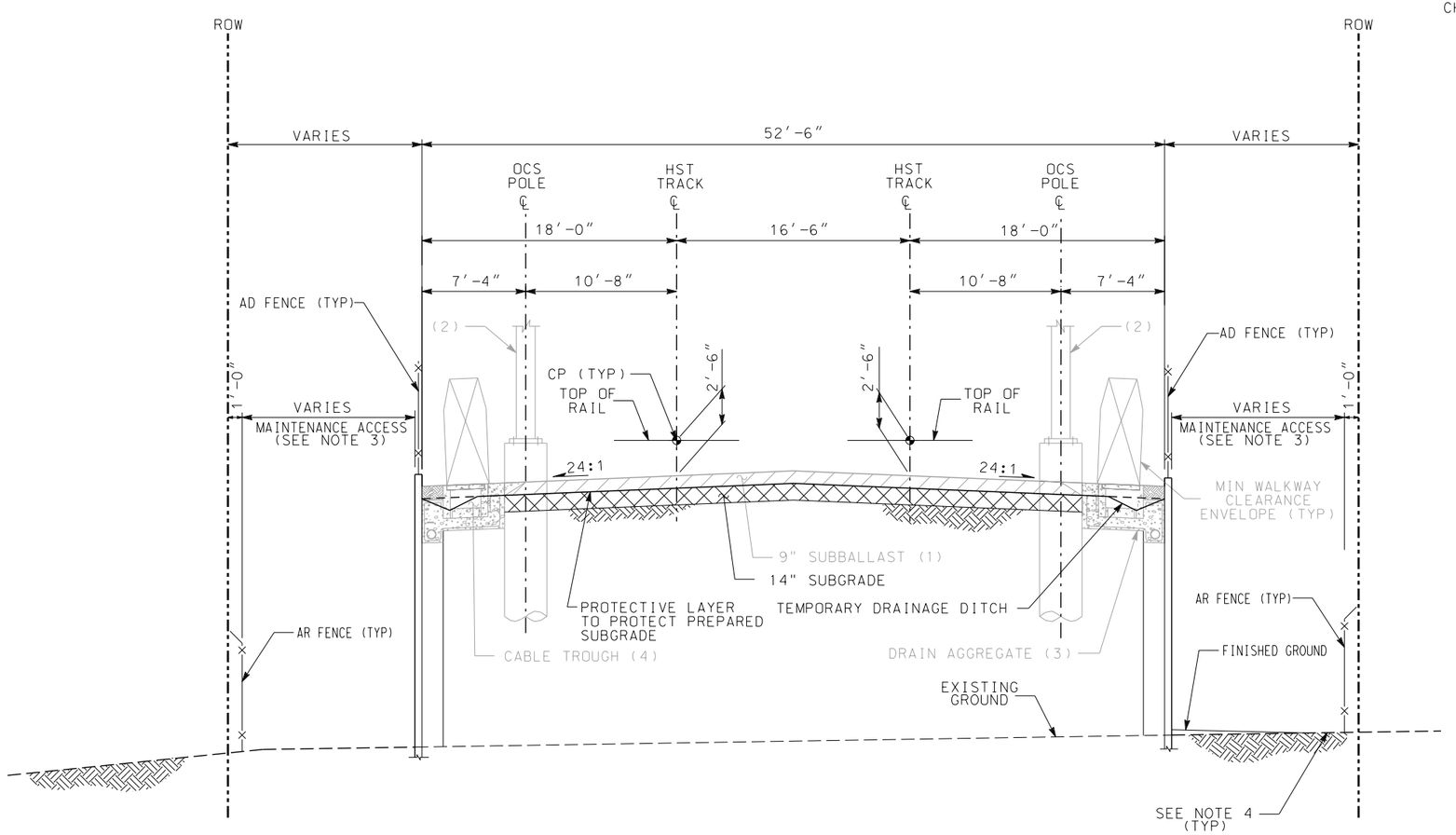
CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD

TYPICAL SECTIONS
TWO TRACK
EMBANKMENT AND/OR CUT

CONTRACT NO.
DRAWING NO. 2.06.01_01
SCALE AS SHOWN
SHEET NO. 1 OF 10

NOTES:

1. TRACK, SYSTEMS AND DRAINAGE ARE SCHEMATIC AND DO NOT REPRESENT DESIGN.
2. THE CONTROL POINT (CP) SHALL BE 2'-6" ABOVE THE TOP OF SUBBALLAST.
3. 10' MIN MAINTENANCE ACCESS REQUIRED WHEN THERE IS NO FENCE OR CONTINUOUS OBSTRUCTION.
4. PROTECTIVE BARRIER, SUCH AS A BERM OR A DIKE, SHALL BE INSTALLED AT THE RIGHT-OF-WAY BOUNDARY TO INTERCEPT STORM WATER RUN OFF, WHERE THERE IS A POTENTIAL FOR STORM WATER RUN OFF TO ENTER CHST RIGHT-OF-WAY FROM ADJACENT PROPERTY.



WORK ELEMENTS
NOT IN CONTRACT (NIC)

(1) SUBBALLAST

(2) OCS POLE AND FOUNDATION, ASSEMBLY, CONTACT WIRE, MESSENGER WIRE, NEGATIVE FEEDER, STATIC WIRE

(3) DRAIN AGGREGATE UNDER CABLE TROUGH WITH GEOFABRIC, INTERMITTENT DRAIN AGGREGATE LAYER

(4) CABLE TROUGH

SECTION 2

TWO TRACK
RETAINED FILL
STA 5525+00.00 THROUGH STA 5538+35.66
STA 5539+75.66 THROUGH STA 5556+48.00
STA 5557+68.00 THROUGH STA 5572+08.00
STA 5612+20.00 THROUGH STA 5654+45.00
STA 5678+90.00 THROUGH STA 5682+94.00

5 0 5 10
SCALE: 1"=5'

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
DRAWN BY
CHECKED BY
IN CHARGE
DATE

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CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA RAIL BUILDERS

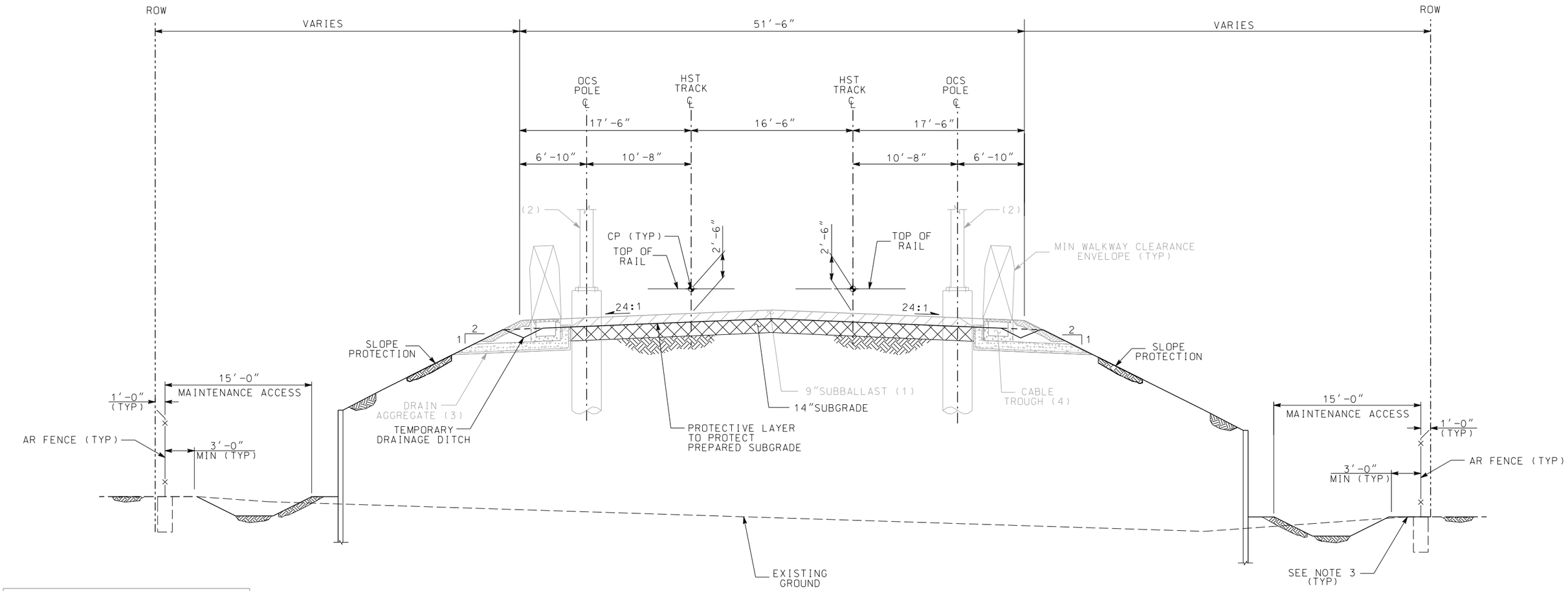
CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD

TYPICAL SECTIONS
TWO TRACK
RETAINED FILL

CONTRACT NO.
DRAWING NO. 2.06.01_02
SCALE AS SHOWN
SHEET NO. 2 OF 10

NOTES:

1. TRACK, SYSTEMS AND DRAINAGE ARE SCHEMATIC AND DO NOT REPRESENT DESIGN.
2. THE CONTROL POINT (CP) SHALL BE 2'-6" ABOVE THE TOP OF SUBBALLAST.
3. PROTECTIVE BARRIER, SUCH AS A BERM OR A DIKE, SHALL BE INSTALLED AT THE RIGHT-OF-WAY BOUNDARY TO INTERCEPT STORM WATER RUN OFF, WHERE THERE IS A POTENTIAL FOR STORM WATER RUN OFF TO ENTER CHST RIGHT-OF-WAY FROM ADJACENT PROPERTY.



WORK ELEMENTS NOT IN CONTRACT (NIC)
(1) SUBBALLAST
(2) OCS POLE AND FOUNDATION, ASSEMBLY, CONTACT WIRE, MESSENGER WIRE, NEGATIVE FEEDER, STATIC WIRE
(3) DRAIN AGGREGATE UNDER CABLE TROUGH WITH GEOFABRIC, INTERMITTENT DRAIN AGGREGATE LAYER
(4) CABLE TROUGH

SECTION 3

TWO TRACK
EMBANKMENT AND RETAINED FILL
STA 5191+50.00 THROUGH STA 5225+53.00
STA 5227+67.00 THROUGH STA 5271+60.00

5 0 5 10
SCALE: 1"=5'

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
DRAWN BY
CHECKED BY
IN CHARGE
DATE

ONLY FOR BIDDING PURPOSES - NOT FOR CONSTRUCTION

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA RAIL BUILDERS

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD

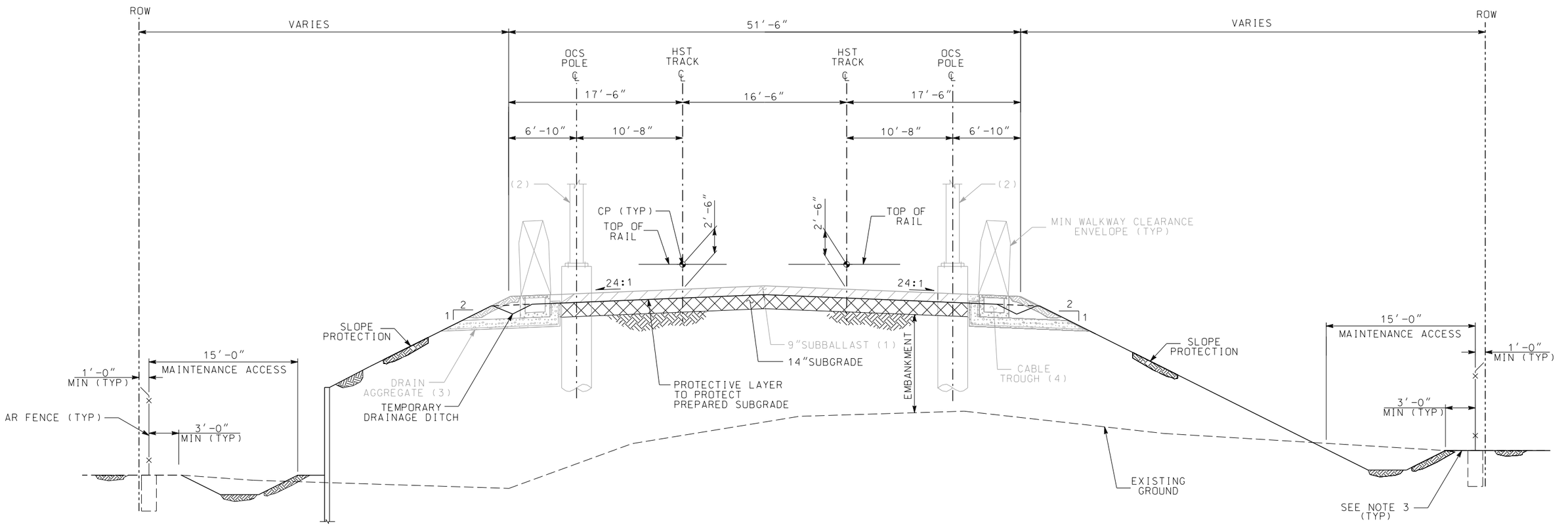
TYPICAL SECTIONS
TWO TRACK
EMBANKMENT AND RETAINED FILL

CONTRACT NO.
DRAWING NO. 2.06.01_03
SCALE AS SHOWN
SHEET NO. 3 OF 10

WORK ELEMENTS NOT IN CONTRACT (NIC)
(1) SUBBALLAST
(2) OCS POLE AND FOUNDATION, ASSEMBLY, CONTACT WIRE, MESSENGER WIRE, NEGATIVE FEEDER, STATIC WIRE
(3) DRAIN AGGREGATE UNDER CABLE TROUGH WITH GEOFABRIC, INTERMITTENT DRAIN AGGREGATE LAYER
(4) CABLE TROUGH

NOTES:

1. TRACK, SYSTEMS AND DRAINAGE ARE SCHEMATIC AND DO NOT REPRESENT DESIGN.
2. THE CONTROL POINT (CP) SHALL BE 2'-6" ABOVE THE TOP OF SUBBALLAST.
3. PROTECTIVE BARRIER, SUCH AS A BERM OR A DIKE, SHALL BE INSTALLED AT THE RIGHT-OF-WAY BOUNDARY TO INTERCEPT STORM WATER RUN OFF, WHERE THERE IS A POTENTIAL FOR STORM WATER RUN OFF TO ENTER CHST RIGHT-OF-WAY FROM ADJACENT PROPERTY.



SECTION 4

TWO TRACK
LEFT SIDE EMBANKMENT AND RETAINED FILL
RIGHT SIDE EMBANKMENT
STA 5291+86.00 THROUGH STA 5298+50.00

5 0 5 10
SCALE: 1"=5'

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
DRAWN BY
CHECKED BY
IN CHARGE
DATE

ONLY FOR BIDDING PURPOSES - NOT FOR CONSTRUCTION

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA RAIL BUILDERS

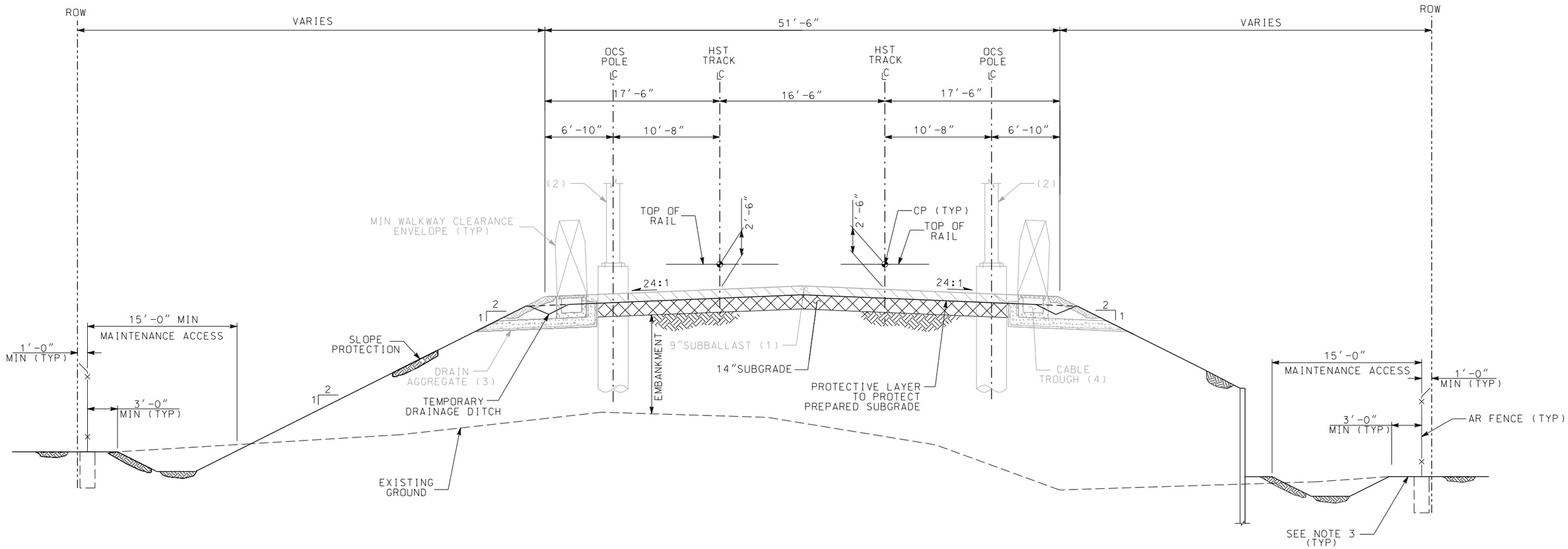
CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
TYPICAL SECTIONS
TWO TRACK
LEFT SIDE EMBANKMENT AND RETAINED FILL
RIGHT SIDE EMBANKMENT

CONTRACT NO.
DRAWING NO. 2.06.01_04
SCALE AS SHOWN
SHEET NO. 4 OF 10

WORK ELEMENTS NOT IN CONTRACT (NIC)
(1) SUBBALLAST
(2) OCS POLE AND FOUNDATION, ASSEMBLY, CONTACT WIRE, MESSENGER WIRE, NEGATIVE FEEDER, STATIC WIRE
(3) DRAIN AGGREGATE UNDER CABLE TROUGH WITH GEOFABRIC, INTERMITTENT DRAIN AGGREGATE LAYER
(4) CABLE TROUGH

NOTES:

1. TRACK, SYSTEMS AND DRAINAGE ARE SCHEMATIC AND DO NOT REPRESENT DESIGN.
2. THE CONTROL POINT (CP) SHALL BE 2'-6" ABOVE THE TOP OF SUBBALLAST.
3. PROTECTIVE BARRIER, SUCH AS A BERM OR A DIKE, SHALL BE INSTALLED AT THE RIGHT-OF-WAY BOUNDARY TO INTERCEPT STORM WATER RUN OFF, WHERE THERE IS A POTENTIAL FOR STORM WATER RUN OFF TO ENTER CHST RIGHT-OF-WAY FROM ADJACENT PROPERTY.



SECTION 5

TWO TRACK
LEFT SIDE EMBANKMENT
RIGHT SIDE EMBANKMENT AND RETAINED FILL
STA 5709+48.00 THROUGH STA 5713+17.00

5 0 5 10
SCALE: 1"=5'

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
DRAWN BY
CHECKED BY
IN CHARGE
DATE

ONLY FOR BIDDING PURPOSES - NOT FOR CONSTRUCTION

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA RAIL BUILDERS

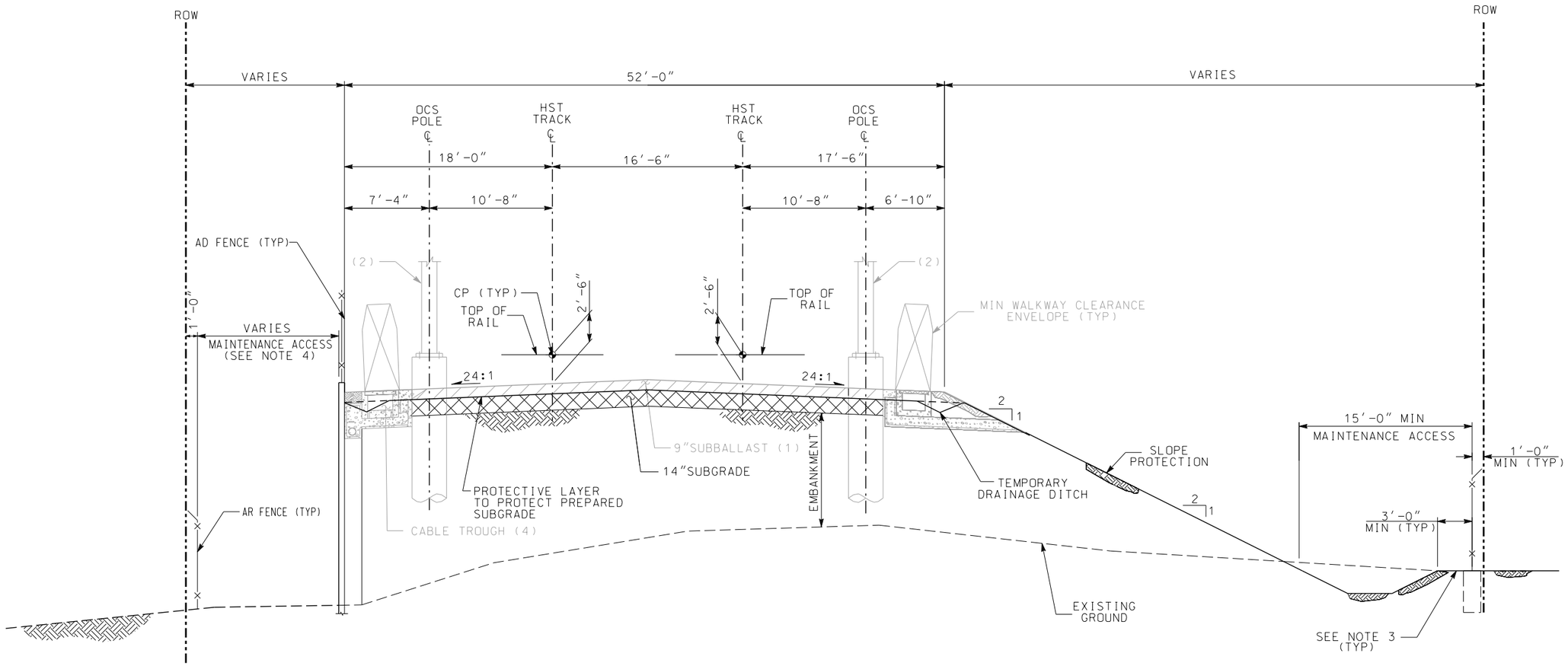
CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
TYPICAL SECTIONS
TWO TRACK
LEFT SIDE EMBANKMENT
RIGHT SIDE EMBANKMENT AND RETAINED FILL

CONTRACT NO.
DRAWING NO. 2.06.01_05
SCALE AS SHOWN
SHEET NO. 5 OF 10

WORK ELEMENTS NOT IN CONTRACT (NIC)
(1) SUBBALLAST
(2) OCS POLE AND FOUNDATION, ASSEMBLY, CONTACT WIRE, MESSENGER WIRE, NEGATIVE FEEDER, STATIC WIRE
(3) DRAIN AGGREGATE UNDER CABLE TROUGH WITH GEOFABRIC, INTERMITTENT DRAIN AGGREGATE LAYER
(4) CABLE TROUGH

NOTES:

1. TRACK, SYSTEMS AND DRAINAGE ARE SCHEMATIC AND DO NOT REPRESENT DESIGN.
2. THE CONTROL POINT (CP) SHALL BE 2'-6" ABOVE THE TOP OF SUBBALLAST.
3. PROTECTIVE BARRIER, SUCH AS A BERM OR A DIKE, SHALL BE INSTALLED AT THE RIGHT-OF-WAY BOUNDARY TO INTERCEPT STORM WATER RUN OFF, WHERE THERE IS A POTENTIAL FOR STORM WATER RUN OFF TO ENTER CHST RIGHT-OF-WAY FROM ADJACENT PROPERTY.
4. 10' MIN MAINTENANCE ACCESS REQUIRED WHEN THERE IS NO FENCE OR CONTINUOUS OBSTRUCTION.



SECTION 6

TWO TRACK
LEFT SIDE RETAINED FILL
RIGHT SIDE EMBANKMENT
STA 5298+50.00 THROUGH STA 5322+33.13
STA 5422+50.00 THROUGH STA 5505+70.00

5 0 5 10
SCALE: 1"=5'

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
DRAWN BY
CHECKED BY
IN CHARGE
DATE

ONLY FOR BIDDING PURPOSES - NOT FOR CONSTRUCTION

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA RAIL BUILDERS

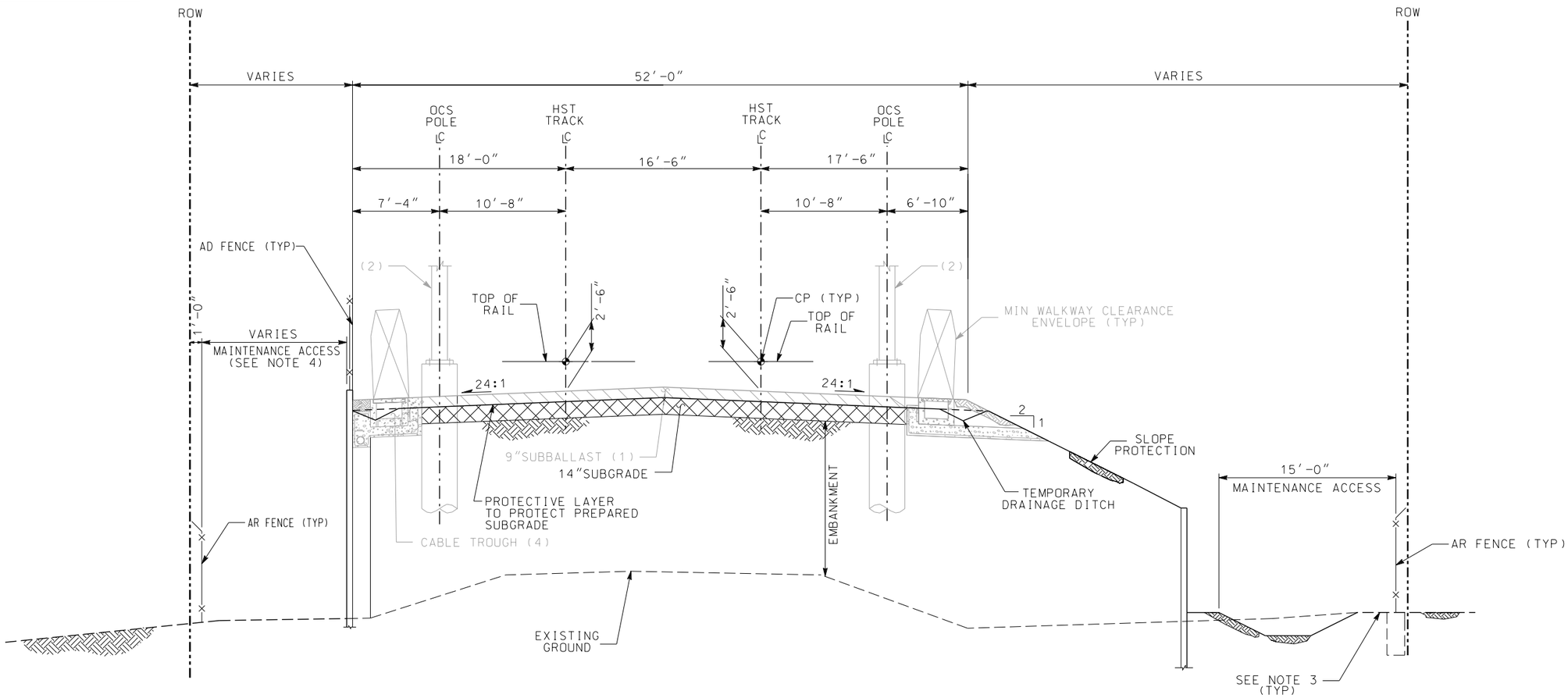
CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
TYPICAL SECTIONS
TWO TRACK
LEFT SIDE RETAINED FILL
RIGHT SIDE EMBANKMENT

CONTRACT NO.
DRAWING NO. 2.06.01_06
SCALE AS SHOWN
SHEET NO. 6 OF 10

WORK ELEMENTS NOT IN CONTRACT (NIC)
(1) SUBBALLAST
(2) OCS POLE AND FOUNDATION, ASSEMBLY, CONTACT WIRE, MESSENGER WIRE, NEGATIVE FEEDER, STATIC WIRE
(3) DRAIN AGGREGATE UNDER CABLE TROUGH WITH GEOFABRIC, INTERMITTENT DRAIN AGGREGATE LAYER
(4) CABLE TROUGH

NOTES:

1. TRACK, SYSTEMS AND DRAINAGE ARE SCHEMATIC AND DO NOT REPRESENT DESIGN.
2. THE CONTROL POINT (CP) SHALL BE 2'-6" ABOVE THE TOP OF SUBBALLAST.
3. PROTECTIVE BARRIER, SUCH AS A BERM OR A DIKE, SHALL BE INSTALLED AT THE RIGHT-OF-WAY BOUNDARY TO INTERCEPT STORM WATER RUN OFF, WHERE THERE IS A POTENTIAL FOR STORM WATER RUN OFF TO ENTER CHST RIGHT-OF-WAY FROM ADJACENT PROPERTY.
4. 10' MIN MAINTENANCE ACCESS REQUIRED WHEN THERE IS NO FENCE OR CONTINUOUS OBSTRUCTION.



SECTION 7

TWO TRACK
LEFT SIDE RETAINED FILL
RIGHT SIDE EMBANKMENT AND RETAINED FILL
STA 5505+70.00 THROUGH STA 5525+00.00
STA 5682+94.00 THROUGH STA 5709+48.00

5 0 5 10
SCALE: 1"=5'

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
DRAWN BY
CHECKED BY
IN CHARGE
DATE

ONLY FOR BIDDING PURPOSES - NOT FOR CONSTRUCTION

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

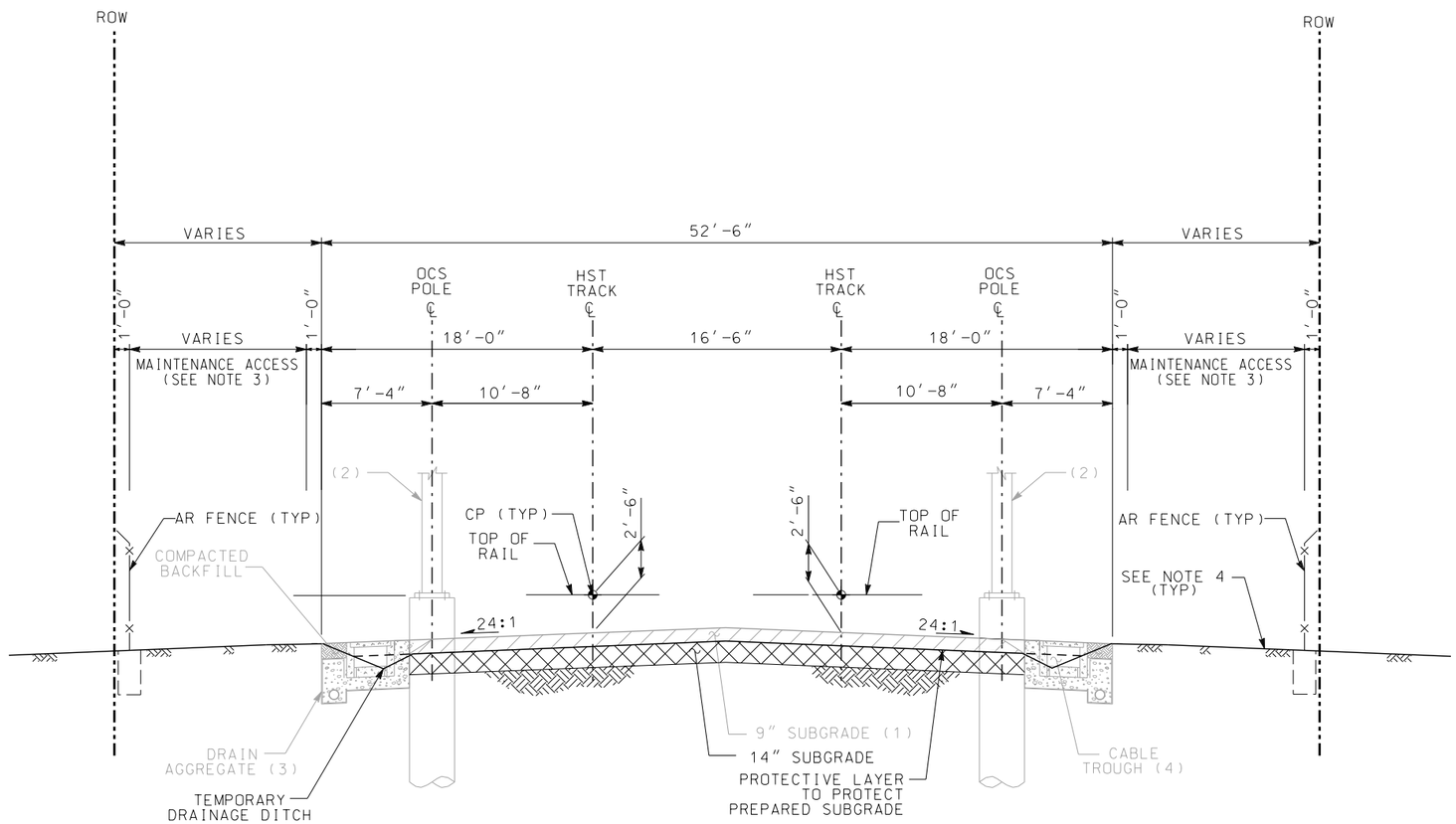
CALIFORNIA RAIL BUILDERS

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
TYPICAL SECTIONS
TWO TRACK
LEFT SIDE RETAINED FILL
RIGHT SIDE EMBANKMENT AND RETAINED FILL

CONTRACT NO.
DRAWING NO. 2.06.01_07
SCALE AS SHOWN
SHEET NO. 7 OF 10

NOTES:

1. TRACK, SYSTEMS AND DRAINAGE ARE SCHEMATIC AND DO NOT REPRESENT DESIGN.
2. THE CONTROL POINT (CP) SHALL BE 2'-6" ABOVE THE TOP OF SUBBALLAST.
3. 10' MIN MAINTENANCE ACCESS REQUIRED WHEN THERE IS NO FENCE OR CONTINUOUS OBSTRUCTION.
4. PROTECTIVE BARRIER, SUCH AS A BERM OR A DIKE, SHALL BE INSTALLED AT THE RIGHT-OF-WAY BOUNDARY TO INTERCEPT STORM WATER RUN OFF, WHERE THERE IS A POTENTIAL FOR STORM WATER RUN OFF TO ENTER CHST RIGHT-OF-WAY FROM ADJACENT PROPERTY.



WORK ELEMENTS NOT IN CONTRACT (NIC)
(1) SUBBALLAST
(2) OCS POLE AND FOUNDATION, ASSEMBLY, CONTACT WIRE, MESSENGER WIRE, NEGATIVE FEEDER, STATIC WIRE
(3) DRAIN AGGREGATE UNDER CABLE TROUGH WITH GEOFABRIC, INTERMITTENT DRAIN AGGREGATE LAYER
(4) CABLE TROUGH

SECTION 8

TWO TRACK
AT GRADE
STA 5572+08.00 THROUGH STA 5578+39.25
STA 5578+69.75 THROUGH STA 5609+57.25
STA 5609+87.75 THROUGH STA 5612+20.00

5 0 5 10
SCALE: 1"=5'

REV	DATE	BY	CHK	APP	DESCRIPTION

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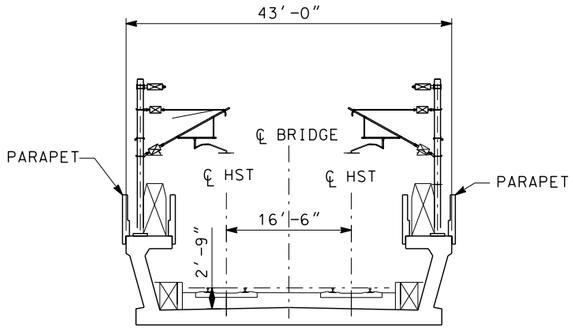
CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA RAIL BUILDERS

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD

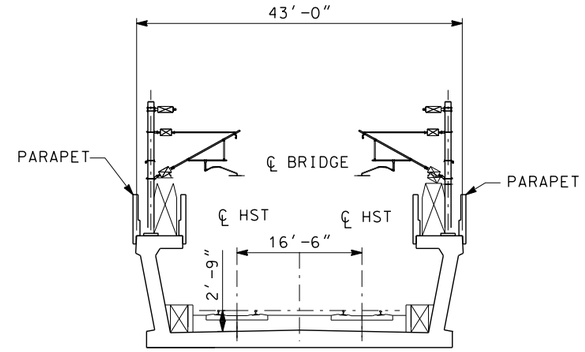
TYPICAL SECTIONS
TWO TRACK
AT GRADE

CONTRACT NO.
DRAWING NO. 2.06.01_08
SCALE AS SHOWN
SHEET NO. 8 OF 10



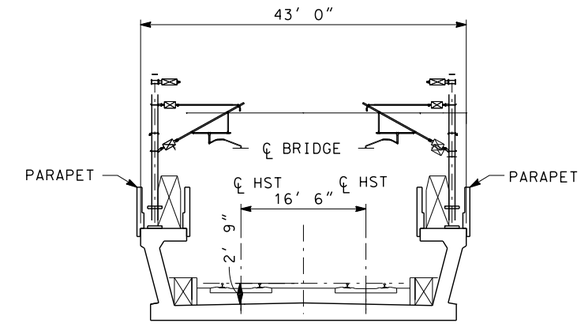
SECTION 9

VIADUCT OVER GARCES HWY
STA 4597+57.27 THROUGH STA 4598+37.52



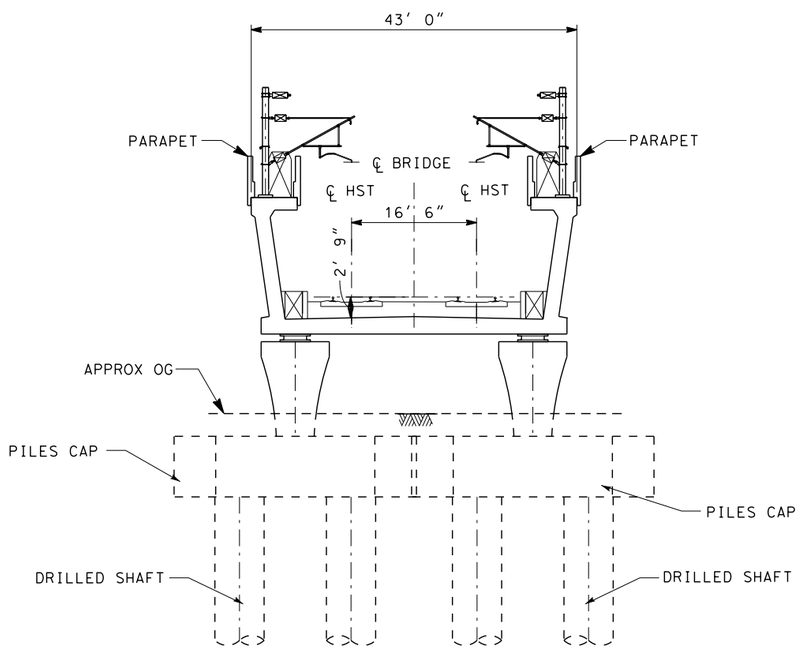
SECTION 10

VIADUCT OVER POND RD
STA 4786+06.00 THROUGH STA 4787+06.80



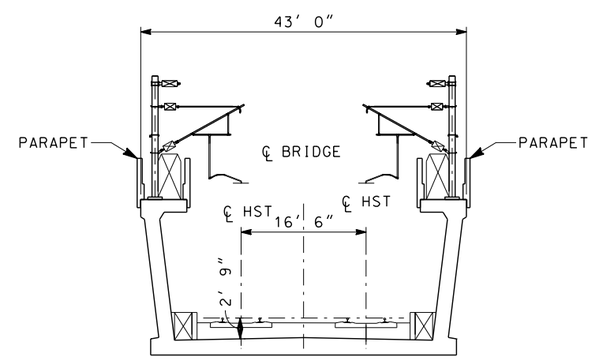
SECTION 11

VIADUCT OVER PETERSON RD
STA 4848+43.89 THROUGH STA 4849+26.89



SECTION 12

VIADUCT OVER POSO CREEK
STA 5225+53 THROUGH STA 5227+67.00



SECTION 13

VIADUCT OVER SUNNYGEM
STA 5538+35.66 THROUGH STA 5539+75.66

10 0 10 20
SCALE: 1"=10'

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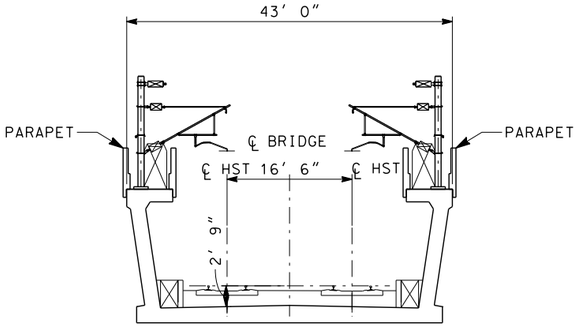
CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA RAIL BUILDERS

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD

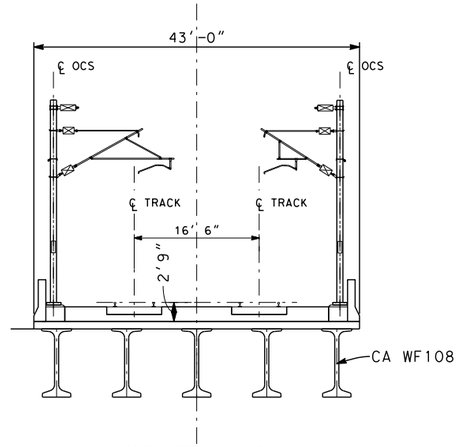
TYPICAL SECTIONS
STRUCTURES

CONTRACT NO.
DRAWING NO. 2.06.01_09
SCALE AS SHOWN
SHEET NO. 9 OF 10



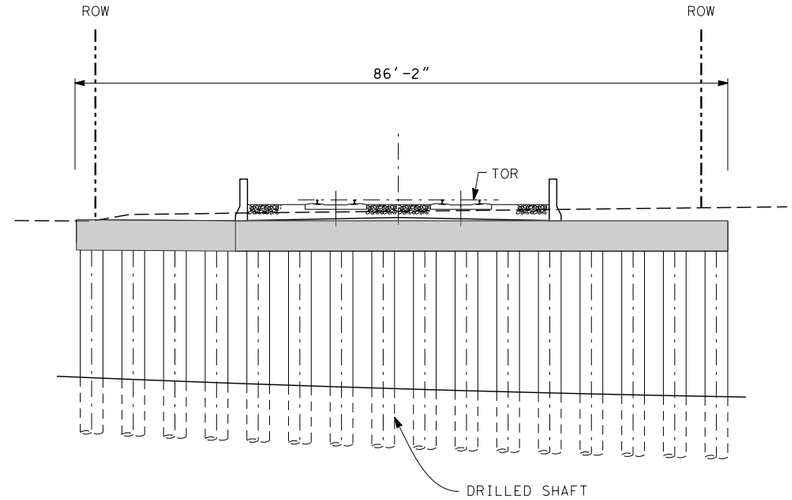
SECTION 14

VIADUCT OVER SR46
STA 5556+48.00 THROUGH STA 5557+68.00



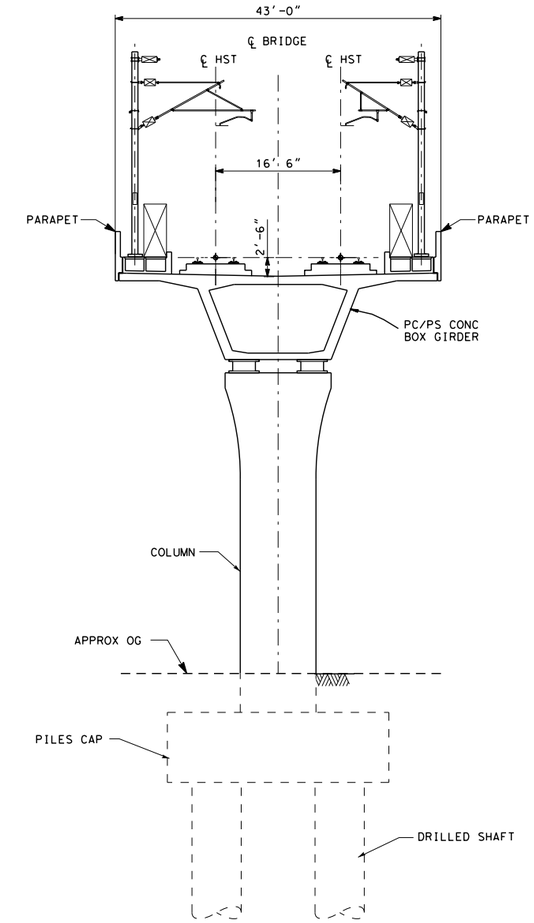
SECTION 19

VIADUCT OVER KIMBERLINA
STA 5715+72.92 THROUGH STA 5716+93.45



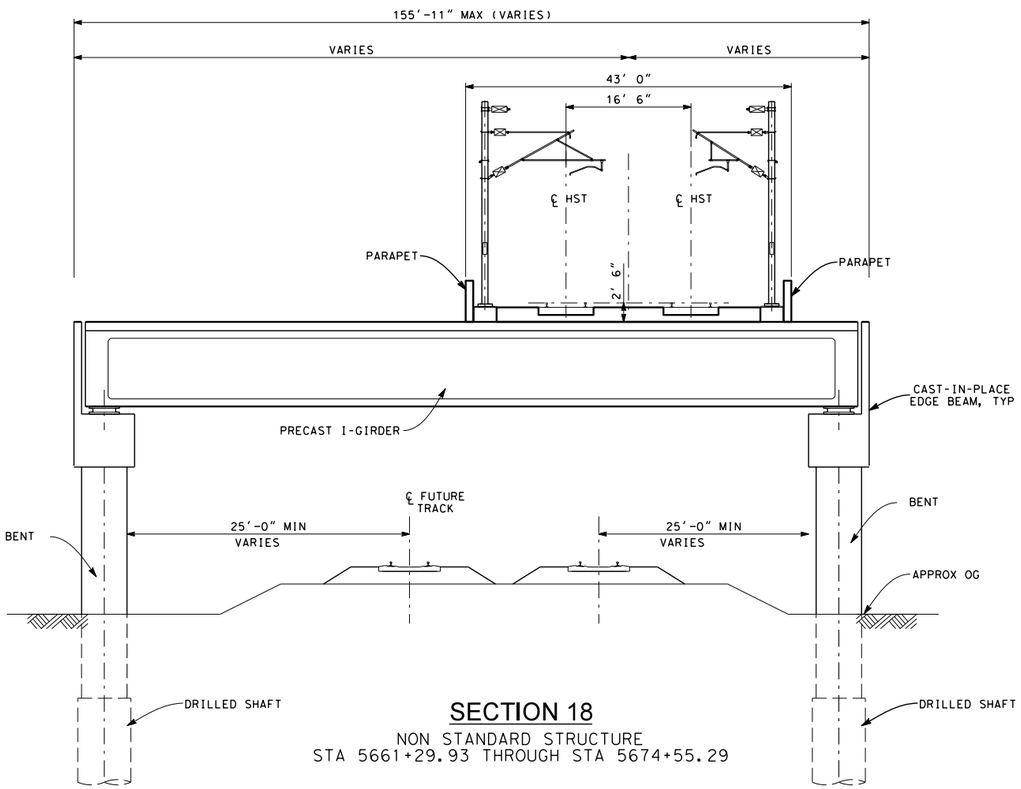
SECTION 15

SLABS OVER 6TH STREET
STA 5578+39.25 THROUGH STA 5578+69.75



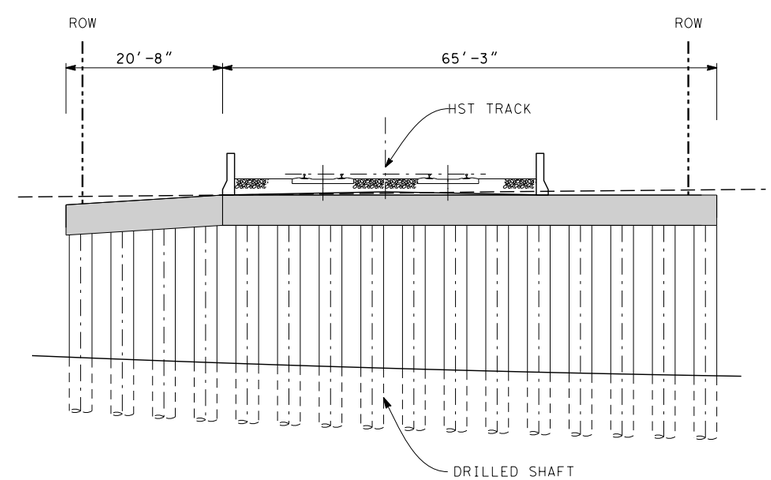
SECTION 17

WASCO VIADUCT
STA 5654+45.00 THROUGH STA 5661+29.93
STA 5674+55.29 THROUGH STA 5678+90.00



SECTION 18

NON STANDARD STRUCTURE
STA 5661+29.93 THROUGH STA 5674+55.29



SECTION 16

SLABS OVER POSO AV
STA 5609+57.25 THROUGH STA 5609+87.75

10 0 10 20
SCALE: 1"=10'

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CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA RAIL BUILDERS

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD

TYPICAL SECTIONS
STRUCTURES

CONTRACT NO.
DRAWING NO. 2.06.01_10
SCALE AS SHOWN
SHEET NO. 10 OF 10

TYPICAL SECTIONS
ROADWAYS

CALIFORNIA
HIGH-SPEED RAIL PROJECT

Design-Build Contract for
CONSTRUCTION PACKAGE 4

Proposal | RFP Number: HSR 14-32

CALIFORNIA RAIL BUILDERS

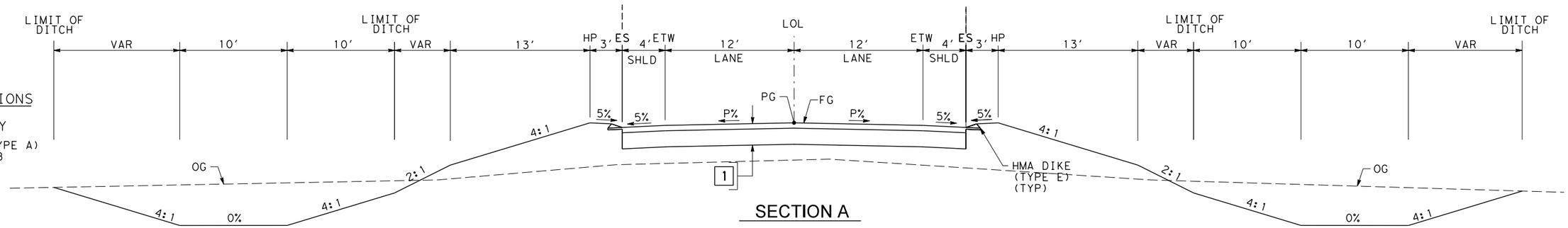
NOTES:

1. SUPERELEVATION AS SHOWN OR AS DIRECTED BY THE ENGINEER.

STRUCTURAL SECTIONS

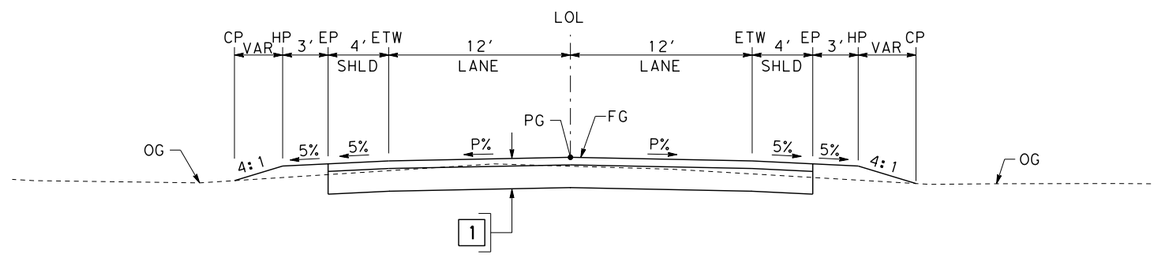
TYPICAL ROADWAY

1 — 0.30' HMA (TYPE A)
1.40' CL 2 AB



SECTION A

"MER" 2+98.435 TO 14+43.250
"MER" 19+28.590 TO 40+00.000



SECTION B

"SCO" 11+00.000 TO 78+62.800
"MAG" 10+00.000 TO 43+80.431
"MCAC" 20+00.000 TO 26+78.870
"AMCC" 0+00.000 TO 4+63.234
"MER" 0+10.000 TO 2+98.435
"MER" 40+00.000 TO 43+90.950

TABLE OF DESIGN SPEEDS

STREET NAME	ALIGNMENT DESIGNATION	DESIGN SPEED	CRITERIA / JURISDICTION
SCOFIELD AVE	SCO	45	KERN COUNTY/KERN COUNTY
MAGNOLIA AVE	MAG	45	KERN COUNTY/KERN COUNTY
ANNIN CONNECTOR AND MCCOMBS CONNECTOR	AMCC/MCAC	25	KERN COUNTY/KERN COUNTY
MERCED AVE	MER	55	CITY OF SHAFTER/CITY OF SHAFTER

5 0 5 10
SCALE: 1"=5'

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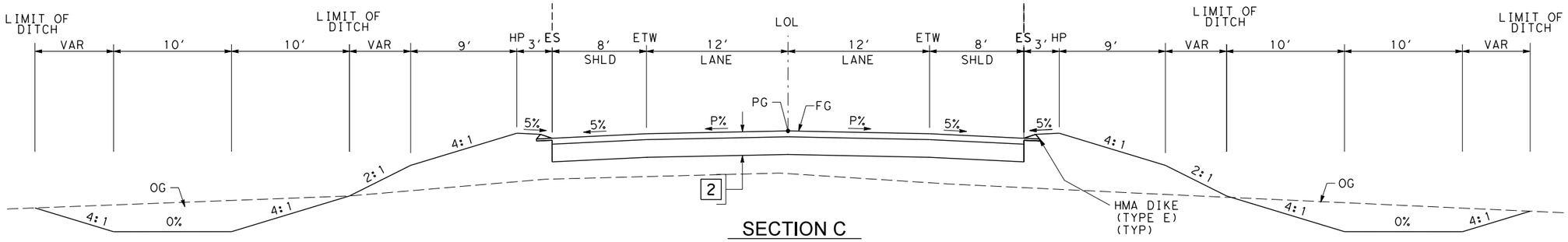
CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA RAIL BUILDERS

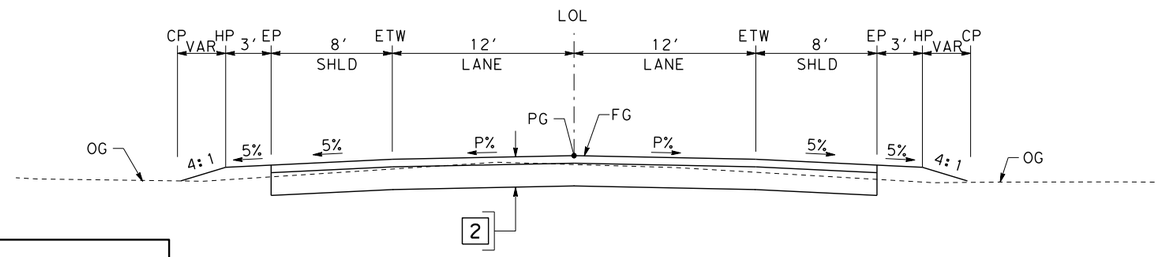
CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
ALLENSWORTH BYPASS SUBSECTION - ALIGNMENT A1
THROUGH WASCO SUBSECTION - ALIGNMENT WS1
ROADWAY/GRADE SEPARATION
TYPICAL CROSS SECTIONS

CONTRACT NO.
DRAWING NO. 2.06.02_01
SCALE AS SHOWN
SHEET NO. 1 OF 3



SECTION C

"MCA" 23+03.592 TO 41+62.040
"MCA" 44+72.200 TO 61+63.479

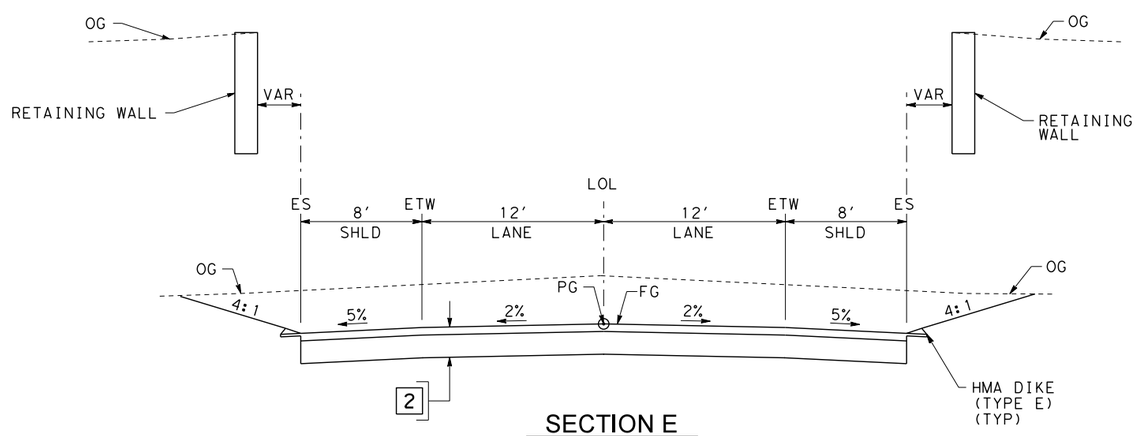


SECTION D

"MCA" 13+00.000 TO 23+03.592
"MCA" 61+63.479 TO 73+50.000

TABLE OF DESIGN SPEEDS

STREET NAME	ALIGNMENT DESIGNATION	DESIGN SPEED	CRITERIA/JURISDICTION
MCCOMBS AVE	MCA	65	KERN COUNTY/KERN COUNTY
KIMBERLINA RD	KBA	55	KERN COUNTY/KERN COUNTY



SECTION E

"KBA" 6+92.00 TO 28+00.00

STRUCTURAL SECTIONS

TYPICAL ROADWAY

2 — 0.50' HMA (TYPE A)
1.50' CL 2 AB

5 0 5 10
SCALE: 1"=5'

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CALIFORNIA HIGH-SPEED RAIL AUTHORITY

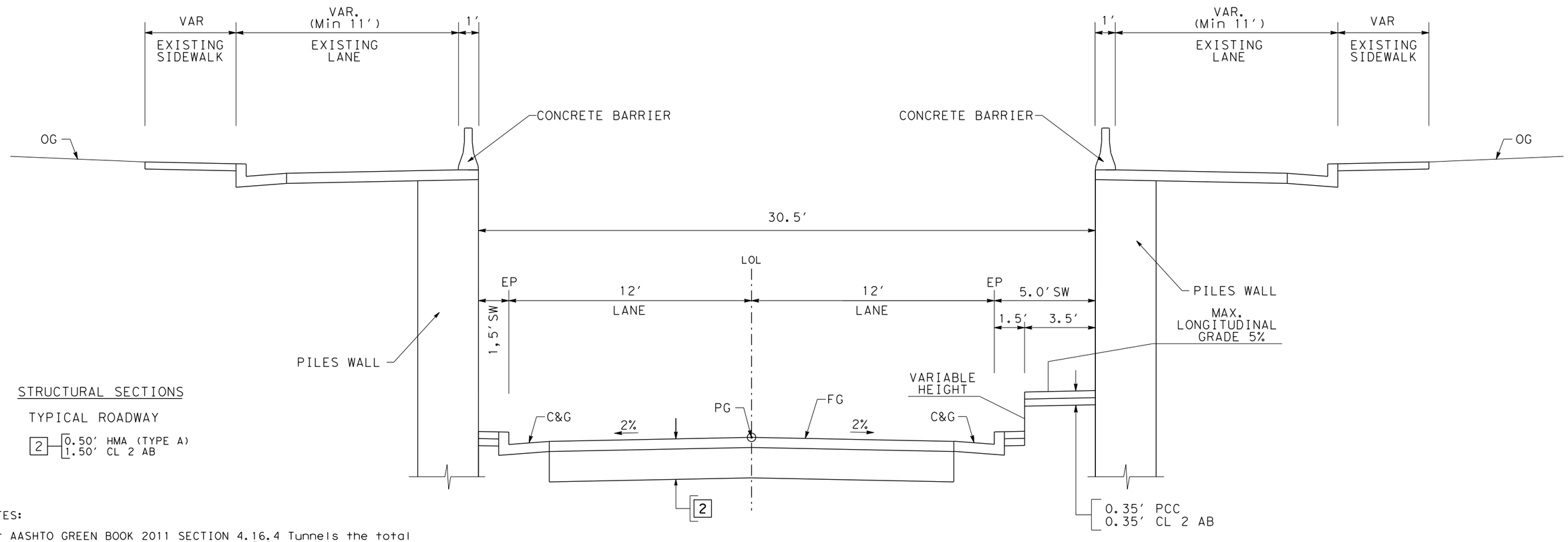
CALIFORNIA RAIL BUILDERS

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
THROUGH WASCO SUBSECTION
ALIGNMENT WS1
ROADWAY GRADE SEPARATION
TYPICAL CROSS SECTIONS

CONTRACT NO.
DRAWING NO. 2.06.02_02
SCALE AS SHOWN
SHEET NO. 2 OF 3

TABLE OF DESIGN SPEEDS

STREET NAME	ALIGNMENT DESIGNATION	DESIGN SPEED	CRITERIA/JURISDICTION
6TH STREET	"6TH"	30	CITY OF WASCO/CITY OF WASCO
POSO AVE	"POS"	30	CITY OF WASCO/CITY OF WASCO
J. STREET (WASCO AVE)	"JST"	30	CITY OF WASCO/CITY OF WASCO



STRUCTURAL SECTIONS

TYPICAL ROADWAY

2 — 0.50' HMA (TYPE A)
1.50' CL 2 AB

NOTES:

Per AASHTO GREEN BOOK 2011 SECTION 4.16.4 Tunnels the total clearance between walls should be a minimum of 30 feet. The minimum sidewalk should be 1.5 feet.

Per 2010 ADA (American with Disabilities Act) Standards for Accessible Design Section 403.5.1 clear width minimum should be 3 feet providing passing spaces.

Per AASHTO GREEN BOOK 2011 SECTION 4.3 lanes 11 feet wide are allowed.

Per Caltrans 309.1 Minimum horizontal Clearance 1.5 Ft.

Per 2010 ADA (American with Disabilities Act) Standards for Accessible Design Section 403.3, the running slope of walking surfaces shall not be steeper than 1:20 (5%).

SECTION F

"6TH" 7+94.567 TO 19+35.00
"POS" 8+00.000 TO 14+53.00
"JST" 3+80.000 TO 15+30.00

2.5 0 2.5 5
SCALE: 1"=2.5'

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CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA RAIL BUILDERS

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
THROUGH WASCO SUBSECTION
ALIGNMENT WS1
ROADWAY GRADE SEPARATION
TYPICAL CROSS SECTIONS

CONTRACT NO.
DRAWING NO. 2.06.02_03
SCALE AS SHOWN
SHEET NO. 3 OF 3

CALIFORNIA
RAIL BUILDERS

CALIFORNIA RAIL BUILDERS
5670 Wilshire Boulevard, Suite 600
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(323) 302-4222