

INDEX OF PLANS	
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CALTRANS STANDARD DRAWINGS

A20A	A86	RS1
A20B	D79	RS2
A24D	D94A	RS3
A62F	D94B	RS4

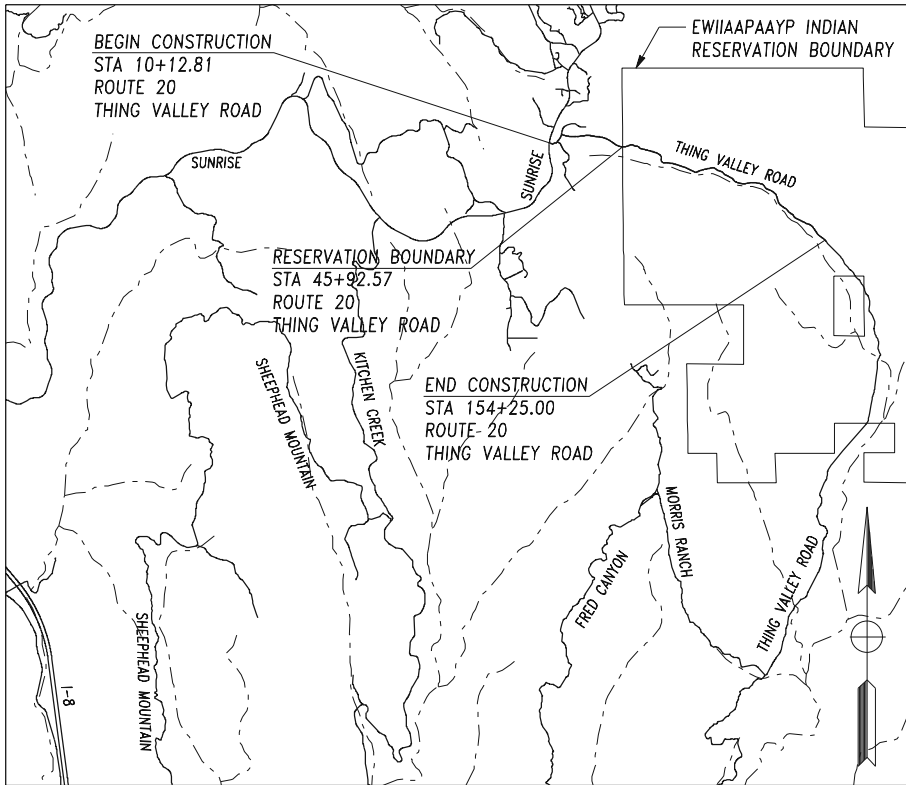
90% PLANS
NOT FOR
CONSTRUCTION

DESIGN CRITERIA		
Design Speed	15 mph	25 mph
Posted Speed	15 mph	25 mph
Minimum Radius	60 ft	105 ft
Maximum Gradient	15%	15%
Min Stopping Sight Distance	65 ft	115 ft
R.O.W. Width	50 ft	50 ft
Min. K Value (Crest)	2	7
Min. K Value (Sag)	10	26
E Max	8.0%	8.0%

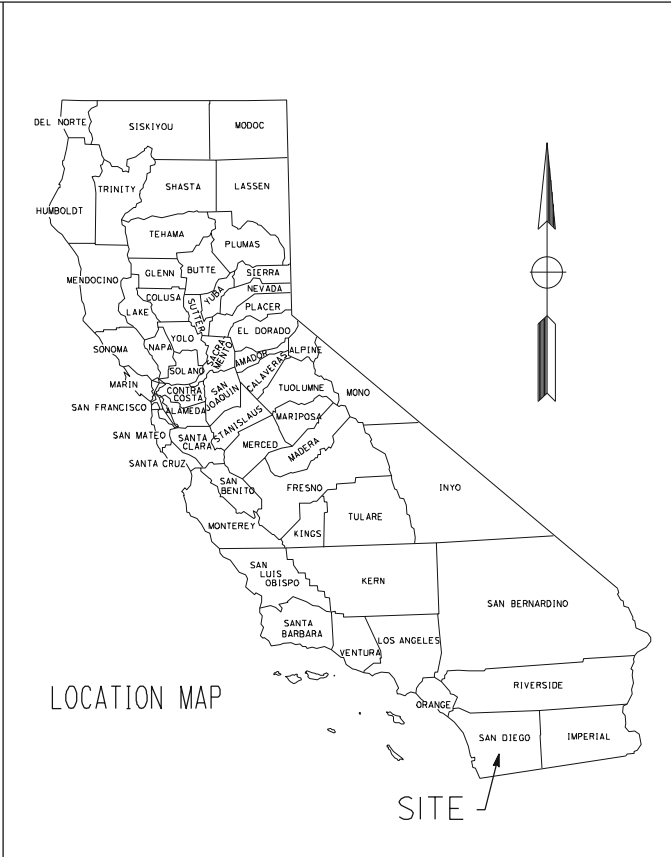
LEGEND	
⊙	MONUMENT
⊕	BENCH MARK REBAR W/ BRASS CAP
X1360.13	FINISHED TOP OF PAVEMENT ELEVATION
C1	CURVE NUMBER DESIGNATION
L1	LINE NUMBER DESIGNATION
○ C0	EXISTING CLEANOUT
△ CV	EXISTING CHECK VALVE
■ DI	EXISTING DRAINAGE INLET
⊗ EV	EXISTING ELECTRIC VAULT
+⊕ FH	EXISTING FIRE HYDRANT
✕ LP	EXISTING LIGHT POLE
● PL	EXISTING POLE
⬮ PP	EXISTING POWER POLE
+ SIGN	EXISTING SIGN
⊗ SSMH	EXISTING SANITARY SEWER MANHOLE
⊖ SV	EXISTING SANITARY SEWER VAULT
□ TR	EXISTING TELEPHONE RISER
□ TV	EXISTING TELEPHONE VAULT
□ UB	EXISTING UTILITY BOX
⊖ UV	EXISTING UTILITY VAULT
⊥	PROPOSED ROADWAY SIGN
— 1380 —	EXISTING CONTOUR
---	EXISTING GRAVEL ROAD
----	EXISTING PAVED ROAD
----	EXISTING CMP
----	EXISTING ROW
→ → →	EXISTING DITCH FLOWLINE
—+—+—	PROPOSED C ROADWAY
— PROP. R/W —	PROPOSED RIGHT OF WAY
—+—+—	PROPOSED EDGE OF ROADWAY
→ - - - →	PROPOSED DITCH FLOWLINE
----	PROPOSED CUT SLOPE LIMITS
----	PROPOSED FILL SLOPE LIMITS
~~~~~	TREE LINE
(TBR)	TO BE REMOVED

THE CONTRACTOR SHALL POSSESS THE CLASS (OR CLASSES)  
OF LICENSE AS SPECIFIED IN THE "NOTICE TO BIDDERS."

UNITED STATES DEPARTMENT OF THE INTERIOR  
BUREAU OF INDIAN AFFAIRS  
PACIFIC REGIONAL OFFICE,  
DIVISION OF TRANSPORTATION  
SOUTHERN CALIFORNIA AGENCY  
PLANS FOR CONSTRUCTION OF ROADS  
BIA ROUTE NO. 20 – THING VALLEY ROAD  
PROJECT NO. XXXXXX  
EWIIAAPAAPYP  
INDIAN RESERVATION  
SAN DIEGO COUNTY, CALIFORNIA



VICINITY MAP  
NOT TO SCALE

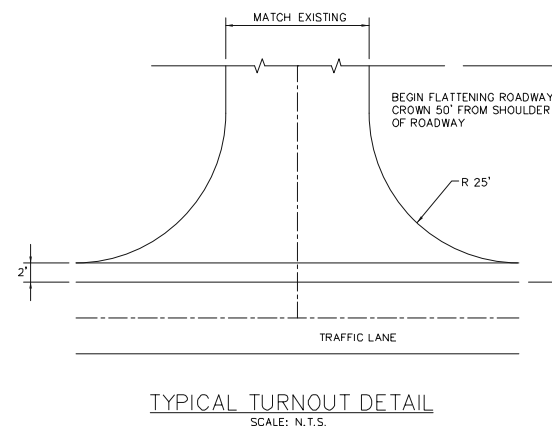
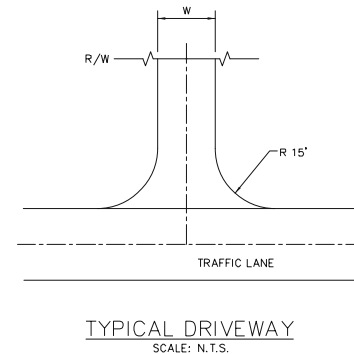
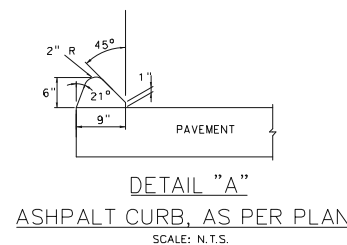
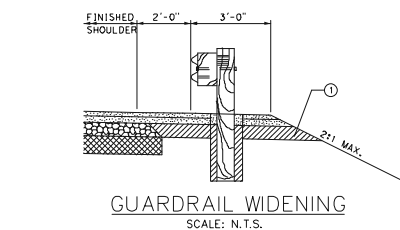
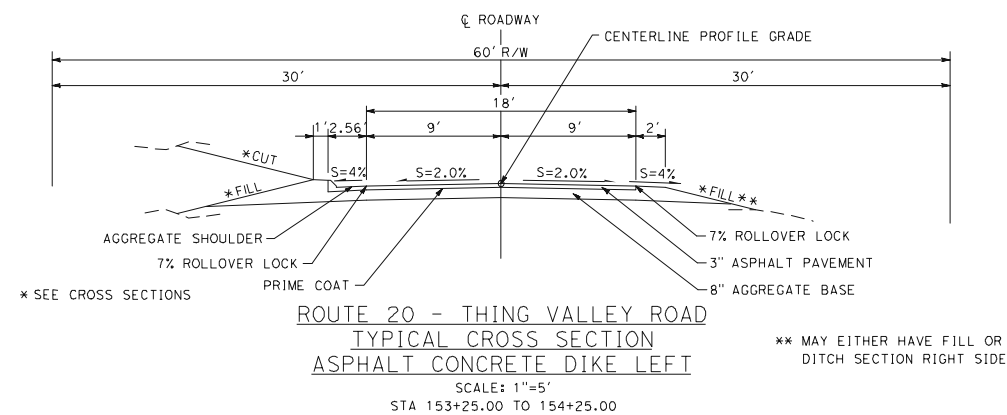


PROJECT INFORMATION			
STATION TO STATION		TYPE	MILES
10+12.81 TO 154+25.00	THING VALLEY ROAD	NEW CONSTRUCTION	2.76
TOTAL			2.76

ROUTE	CURRENT ADT 2012	PROJECTED ADT 2032
THING VALLEY ROAD	50	74

U.S. DEPARTMENT OF THE INTERIOR BUREAU OF INDIAN AFFAIRS PACIFIC REGION	
REGIONAL ROAD ENGINEER	DATE
REGIONAL DIRECTOR	DATE
U.S. DEPARTMENT OF TRANSPORTATION FEDERAL HIGHWAY ADMINISTRATION	
DIVISION ADMINISTRATOR	DATE

ENGINEER OF RECORD	
BUREAU OF INDIAN AFFAIRS PACIFIC REGION, SACRAMENTO PROJECT NO:	
REVISION HISTORY	DESCRIPTION
MARK	DATE
DRAWN BY:	APPROVED BY:
Ewiaapaayp Indian Reservation	
ROUTE 20 - THING VALLEY RD	
TITLE SHEET	
PROJECT NO. 12400.000 DGN FILE: DATE: JUNE 6, 2012	
01 SHT:	55 OF



OF



SIGNS						
LOCATION	APPROXIMATE STATION	MUTCD CODE	NEW SIGN			SIGN MESSAGE
			PANEL SIZE (in)	WOOD POST LENGTH		
				4" x 4" 1 POST	4" x 6" 1 POST	
THING VALLEY ROAD	10+30 LT	R1-1	30" X 30"	13.5		STOP
THING VALLEY ROAD	10+50 RT	W1-5	30" X 30"	13.5		WINDING ROAD
THING VALLEY ROAD	10+60 RT	R2-1	24" X 30"	13.5		SPEED LIMIT 25
THING VALLEY ROAD	12+00 RT	W13-5	24" X 30"	13.5		CURVE 15 MPH
THING VALLEY ROAD	14+40 LT	W13-5	24" X 30"	13.5		CURVE 15 MPH
THING VALLEY ROAD	16+40 RT	W1-2A	30" X 30"	13.5		CURVE LEFT SPEED 15
THING VALLEY ROAD	19+20 LT	W1-2A	30" X 30"	13.5		CURVE RIGHT SPEED 15
THING VALLEY ROAD	41+00 RT	W1-5	30" X 30"	13.5		WINDING ROAD
THING VALLEY ROAD	55+20 LT	W1-5	30" X 30"	13.5		WINDING ROAD
THING VALLEY ROAD	63+20 RT	W1-5	30" X 30"	13.5		WINDING ROAD
THING VALLEY ROAD	70+80 LT	W1-5	30" X 30"	13.5		WINDING ROAD
THING VALLEY ROAD	89+25 RT	W1-5	30" X 30"	13.5		WINDING ROAD
THING VALLEY ROAD	104+20 LT	W1-5	30" X 30"	13.5		WINDING ROAD
THING VALLEY ROAD	114+00 RT	W1-5	30" X 30"	13.5		WINDING ROAD
THING VALLEY ROAD	125+00 LT	W1-5	30" X 30"	13.5		WINDING ROAD
THING VALLEY ROAD	154+00 LT	R2-1	24" X 30"	13.5		SPEED LIMIT 25
TOTALS	16					

ASPHALT CONCRETE DIKE				
THING VALLEY ROAD	STATION TO STATION	LT	RT	ASPHALT CURB (L.F.)
	36+09 - 41+10	X		501
	TOTAL			2,768

DRIVEWAYS				
LOCATION		ASPHALT DRIVEWAY		
		LENGTH (ft)	WIDTH (ft)	AREA (ft²)
THING VALLEY ROAD	11+95 RT	31	12	473
	13+25 RT	86	12	1,454
	17+45 LT	53	12	715
	67+85 RT	81	12	1,118
	95+30 LT	31	12	392
	137+00 RT	61	12	844
	152+40 RT	41	12	819
TOTALS				5,815

REMOVE & RESET FENCE				
THING VALLEY ROAD	STATION TO STATION	LT	RT	LENGTH (FT)
	10+95 - 10+99	X		29
	10+98 - 10+98		X	14
	153+19 - 154+25		X	104
	TOTAL			147

DRAINAGE PIPES TO BE REMOVED		
LOCATION	APPROXIMATE STATION	DESCRIPTION
THING VALLEY ROAD	49+78 LT	UNKNOWN
THING VALLEY ROAD	52+70	UNKNOWN
THING VALLEY ROAD	71+98	UNKNOWN
THING VALLEY ROAD	115+05 LT	UNKNOWN
THING VALLEY ROAD	139+56	48" CMP
THING VALLEY ROAD	144+05	48" CMP
THING VALLEY ROAD	146+79	24" CMP
THING VALLEY ROAD	149+68	54" CMP
TOTALS	8	

GUARDRAIL				
LOCATION		SIDE	LENGTH (LF)	FLARED END (EA)
THING VALLEY ROAD	28+85 - 35+50.44	RT	587.5	2
	37+35 - 50+73.23	RT	1,262.5	2
	49+10 - 50+16.38	LT	37.5	2
	52+81.70 - 60+20	RT	662.5	2
	68+31.03 - 69+45	RT	37.5	2
TOTAL			2,587.5	10

DRAINAGE QUANTITIES (DRIVEWAY PIPES)			
LOCATION		CORRUGATED METAL 2.667 x 0.5 INCH CORRUGATIONS	
		PIPE CULVERT (LF)	END SECTION (EA)
		18"	18"
THING VALLEY ROAD	11+80 - 12+50 RT	40	2
	17+30 - 17+65 LT	44	2
	95+18 - 95+42 LT	28	2
	136+79 - 137+15 RT	40	2
	TOTALS	152	8

DRAINAGE QUANTITIES (CROSS DRAINS)

DRAINAGE QUANTITIES (CROSS DRAINS)																	
LOCATION		REINFORCED CONCRETE												RIP RAP, CLASS 3			
		PIPE CULVERT (LF)						END SECTION (EA)									
		18"	24"	30"	48"	24" EQ.	36" EQ.	18"	24"	30"	48"	24" EQ.	36" EQ.				
THING VALLEY ROAD	13+45.00			44						2				10	10	1	3.7
	28+90.00	92						2						10	10	1	3.7
	34+60.00	185						2						10	10	1	3.7
	50+00.00		168						2					10	10	1	3.7
	52+71.00	60						2						10	10	1	3.7
	*72+65.00					72						4		27	15	1	15.0
	*91+10.00						76						4	12	20	1	8.9
	*95+00.00				104						2			20	20	1	14.8
	115+15.00				64						2			10	10	1	3.7
	119+70.00		44						2					12	10	1	4.4
	130+90.00			36						2				10	10	1	3.7
	139+55.00		44						2					10	10	1	3.7
	144+00.00			40						2				10	10	1	3.7
	149+65.00		56						2					10	10	1	3.7
TOTALS		337	312	120	168	72	76	6	8	6	4	4	4				80.1

* INDICATES A DOUBLE PIPE

UTILITIES SUMMARY				
THING VALLEY ROAD	ITEM	APPROXIMATE LOCATION		REMARKS
		STATION	OFFSET	
	UTILITY POLE	141+05	16.7' LT	WATER METER

ENGINEER OF RECORD

BUREAU OF INDIAN AFFAIRS  
PACIFIC REGION, SACRAMENTO  
PROJECT NO:

REVISION HISTORY

MARK

DATE

DESIGNED BY:

DRAWN BY:

APPROVED BY:

Ewiaapaayp Indian Reservation

ROUTE 20 - THING VALLEY RD

QUANTITY TABLES

PROJECT NO. 12400.000  
DGN FILE:  
DATE: JUNE 6, 2012

05  
SHT:

55  
OF

☉ SUNRISE ROAD =  
STA 10+00.00 THING VALLEY ROAD  
N= 1891456.1278  
E= 6508495.5059

BEGIN CONSTRUCTION  
STA 10+12.81  
N= 1891451.1891  
E= 6508507.3256

SUPERELEVATION RATES THING VALLEY ROAD		
STATION	RATE LEFT	RATE RIGHT
10+12.81	-2.00%	-2.00%
10+16.14	-2.00%	-2.00%
10+41.86	-2.00%	0.00%
10+67.57	-2.00%	2.00%
11+17.71	-5.90%	5.90%
11+33.22	-5.90%	5.90%
11+83.35	-2.00%	2.00%
12+09.06	0.00%	0.00%
12+34.77	2.00%	-2.00%
12+54.28	3.52%	-3.52%
12+73.79	2.00%	-2.00%
12+99.50	0.00%	0.00%
13+25.21	-2.00%	2.00%
13+34.71	-2.74%	2.74%
13+44.21	-2.00%	2.00%
13+69.92	0.00%	0.00%
13+95.63	2.00%	-2.00%
14+02.00	2.50%	-2.50%
14+08.35	2.00%	-2.00%
14+33.99	0.00%	0.00%
14+59.70	-2.00%	2.00%
14+60.98	-2.10%	2.10%
16+48.35	-2.10%	2.10%
16+49.63	-2.00%	2.00%
16+75.34	0.00%	0.00%
17+01.05	2.00%	-2.00%
17+45.20	5.44%	-5.44%
17+89.35	2.00%	-2.00%
18+15.06	0.00%	0.00%
18+40.77	-2.00%	2.00%
18+56.19	-3.20%	3.20%
21+54.35	-3.20%	3.20%
21+69.78	-2.00%	2.00%
21+95.49	-2.00%	0.00%
22+21.21	-2.00%	-2.00%
24+31.11	-2.00%	-2.00%
24+56.83	-2.00%	0.00%
24+82.54	-2.00%	2.00%
24+97.97	-3.20%	3.20%
25+90.68	-3.20%	3.20%
26+06.11	-2.00%	2.00%
26+31.83	-2.00%	0.00%

SUPERELEVATION RATES THING VALLEY ROAD		
STATION	RATE LEFT	RATE RIGHT
26+57.54	-2.00%	-2.00%
27+28.31	-2.00%	-2.00%
27+54.02	0.00%	-2.00%
27+79.73	2.00%	-2.00%
27+95.16	3.20%	-3.20%
30+44.98	3.20%	-3.20%
30+60.41	2.00%	-2.00%
30+86.12	0.00%	-2.00%
31+11.84	-2.00%	-2.00%
34+14.70	-2.00%	-2.00%
34+40.42	0.00%	-2.00%
34+66.13	2.00%	-2.00%
34+81.56	3.20%	-3.20%
39+58.26	3.20%	-3.20%
39+73.69	2.00%	-2.00%
39+99.41	0.00%	-2.00%
40+25.12	-2.00%	-2.00%
41+67.53	-2.00%	-2.00%
41+93.25	-3.20%	0.00%
42+18.96	-2.00%	2.00%
42+53.67	-4.70%	4.70%
48+11.70	-4.70%	4.70%

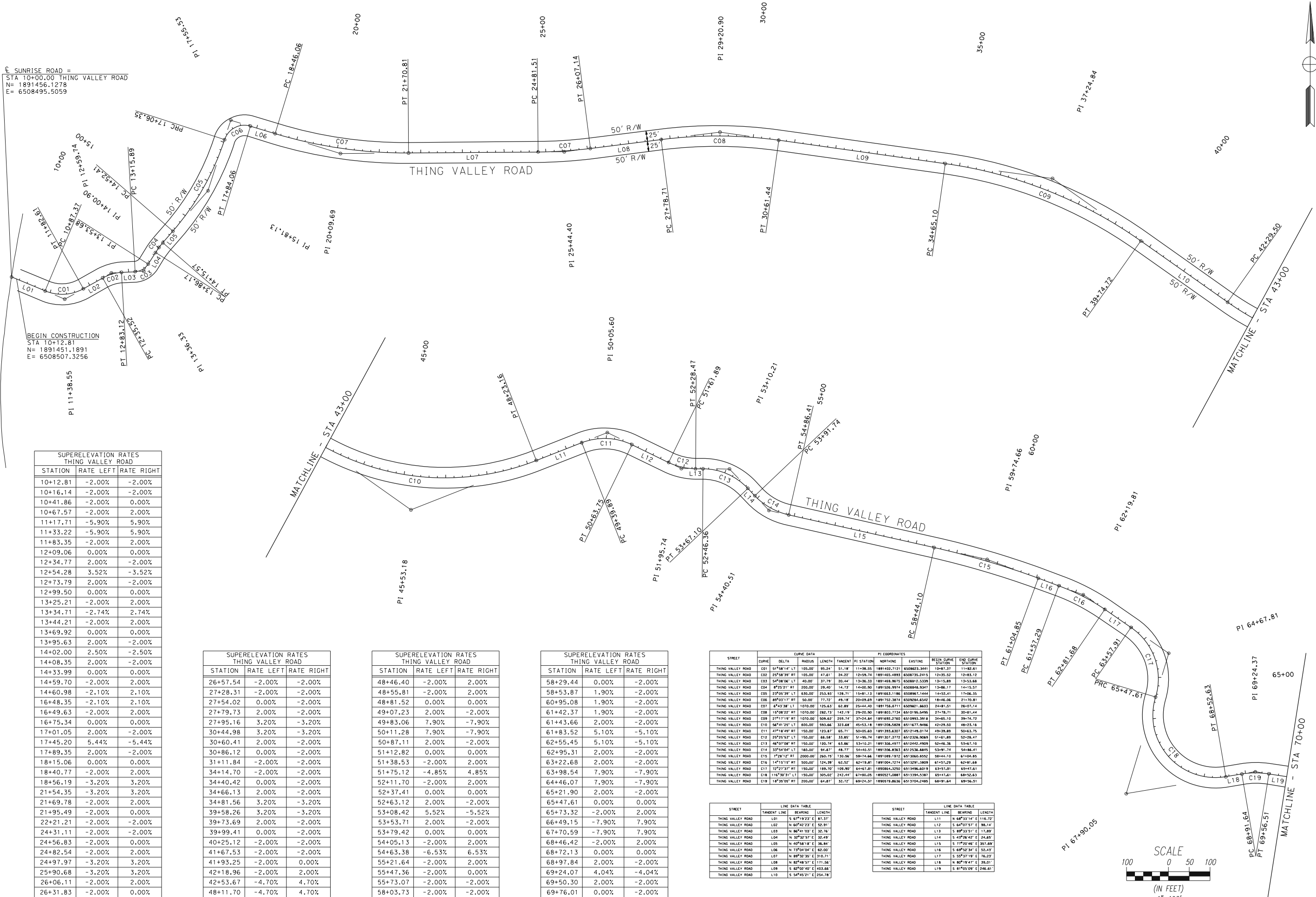
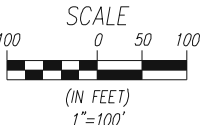
SUPERELEVATION RATES THING VALLEY ROAD		
STATION	RATE LEFT	RATE RIGHT
48+46.40	-2.00%	2.00%
48+55.81	-2.00%	2.00%
48+81.52	0.00%	0.00%
49+07.23	2.00%	-2.00%
49+83.06	7.90%	-7.90%
50+11.28	7.90%	-7.90%
50+87.11	2.00%	-2.00%
51+12.82	0.00%	0.00%
51+38.53	-2.00%	2.00%
51+75.12	-4.85%	4.85%
52+11.70	-2.00%	2.00%
52+37.41	0.00%	0.00%
52+63.12	2.00%	-2.00%
53+08.42	5.52%	-5.52%
53+53.71	2.00%	-2.00%
53+79.42	0.00%	0.00%
54+05.13	-2.00%	2.00%
54+63.38	-6.53%	6.53%
55+21.64	-2.00%	2.00%
55+47.36	-2.00%	0.00%
55+73.07	-2.00%	-2.00%
58+03.73	-2.00%	-2.00%

SUPERELEVATION RATES THING VALLEY ROAD		
STATION	RATE LEFT	RATE RIGHT
58+29.44	0.00%	-2.00%
58+53.87	1.90%	-2.00%
60+95.08	1.90%	-2.00%
61+42.37	1.90%	-2.00%
61+43.66	2.00%	-2.00%
61+83.52	5.10%	-5.10%
62+55.45	5.10%	-5.10%
62+95.31	2.00%	-2.00%
63+22.68	2.00%	-2.00%
63+98.54	7.90%	-7.90%
64+46.07	7.90%	-7.90%
65+21.90	2.00%	-2.00%
65+47.61	0.00%	0.00%
65+73.32	-2.00%	2.00%
66+49.15	-7.90%	7.90%
67+70.59	-7.90%	7.90%
68+46.42	-2.00%	2.00%
68+72.13	0.00%	0.00%
68+97.84	2.00%	-2.00%
69+24.07	4.04%	-4.04%
69+50.30	2.00%	-2.00%
69+76.01	0.00%	-2.00%

STREET	CURVE DATA				PI COORDINATES		BEGIN CURVE STATION	END CURVE STATION
	CURVE	DELTA	RADIUS	LENGTH	TANGENT	PI STATION	NORTHING	EASTING
THING VALLEY ROAD	C01	51°58'14" LT	105.00'	95.24'	51.18'	11+38.55	1891452.7121	6508823.3641
THING VALLEY ROAD	C02	25°58'39" RT	105.00'	47.81'	24.22'	12+09.74	1891455.4993	6508735.2415
THING VALLEY ROAD	C03	54°04'04" LT	40.00'	37.79'	20.44'	13+36.33	1891458.9873	6508812.5339
THING VALLEY ROAD	C04	8°25'21" RT	200.00'	29.40'	14.73'	14+00.90	1891526.9974	6508848.3347
THING VALLEY ROAD	C05	23°05'39" LT	630.00'	253.93'	128.71'	15+81.13	1891663.1186	6508987.1444
THING VALLEY ROAD	C06	89°05'17" RT	50.00'	77.72'	49.18'	20+09.89	1891752.3874	6509284.6542
THING VALLEY ROAD	C07	8°43'38" LT	1070.00'	125.63'	62.89'	25+44.40	1891758.8711	6509887.8603
THING VALLEY ROAD	C08	15°08'22" RT	1070.00'	182.13'	142.19'	29+20.90	1891803.7734	6510136.5695
THING VALLEY ROAD	C09	23°17'19" RT	1070.00'	509.62'	299.74'	37+24.84	1891692.2783	6510953.3818
THING VALLEY ROAD	C10	84°41'25" LT	800.00'	993.86'	323.68'	45+53.18	1891208.5828	6511677.9466
THING VALLEY ROAD	C11	27°18'49" RT	150.00'	123.87'	65.71'	50+05.80	1891393.6307	651249.0174
THING VALLEY ROAD	C12	25°25'53" LT	150.00'	66.58'	33.85'	51+95.74	1891307.3772	6513326.9069
THING VALLEY ROAD	C13	44°01'08" RT	150.00'	120.74'	63.86'	53+10.21	1891306.4977	6512482.0909
THING VALLEY ROAD	C14	33°54'04" LT	180.00'	84.87'	48.77'	54+40.51	1891206.8363	6512536.4845
THING VALLEY ROAD	C15	1°28'12" RT	2000.00'	260.79'	130.56'	59+74.86	1891089.1972	6513060.9502
THING VALLEY ROAD	C16	14°15'15" RT	500.00'	124.39'	62.52'	62+19.81	1891004.7274	6513291.5809
THING VALLEY ROAD	C17	72°27'37" RT	150.00'	189.70'	109.90'	64+67.81	1890884.3293	6513496.6019
THING VALLEY ROAD	C18	11°45'51" LT	150.00'	305.20'	242.44'	67+09.05	1890527.0867	6513595.2387
THING VALLEY ROAD	C19	18°38'05" RT	200.00'	64.87'	32.72'	69+24.37	1890579.8636	6513704.2485

STREET	LINE DATA TABLE		
	TANGENT LINE	BEARING	LENGTH
THING VALLEY ROAD	L01	S 67°19'23" E	87.37'
THING VALLEY ROAD	L02	N 60°42'23" E	52.91'
THING VALLEY ROAD	L03	N 86°41'03" E	32.76'
THING VALLEY ROAD	L04	N 38°42'57" E	32.49'
THING VALLEY ROAD	L05	N 40°58'18" E	36.84'
THING VALLEY ROAD	L06	N 73°04'04" E	62.00'
THING VALLEY ROAD	L07	N 89°30'35" E	310.71'
THING VALLEY ROAD	L08	N 82°48'37" E	171.58'
THING VALLEY ROAD	L09	S 89°50'40" E	458.86'
THING VALLEY ROAD	L10	S 54°45'21" E	254.78'

STREET	LINE DATA TABLE		
	TANGENT LINE	BEARING	LENGTH
THING VALLEY ROAD	L11	N 68°33'14" E	116.72'
THING VALLEY ROAD	L12	S 64°07'57" E	98.14'
THING VALLEY ROAD	L13	S 89°33'51" E	17.89'
THING VALLEY ROAD	L14	S 49°26'27" E	24.85'
THING VALLEY ROAD	L15	S 77°20'46" E	357.69'
THING VALLEY ROAD	L16	S 69°52'34" E	52.43'
THING VALLEY ROAD	L17	S 55°37'19" E	76.23'
THING VALLEY ROAD	L18	N 80°19'47" E	35.01'
THING VALLEY ROAD	L19	S 81°05'09" E	246.81'



ENGINEER OF RECORD

BUREAU OF INDIAN AFFAIRS  
PACIFIC REGION, SACRAMENTO  
PROJECT NO:

REVISION HISTORY


MARK

DATE

DESIGNED BY:

DRAWN BY:

APPROVED BY:

Ewilaapaayp Indian Reservation  
ROUTE 20 - THING VALLEY RD  
SURVEY CONTROL DIAGRAM  
SHEET 1 OF 3

PROJECT NO. 12400.000  
DGN FILE:  
DATE:

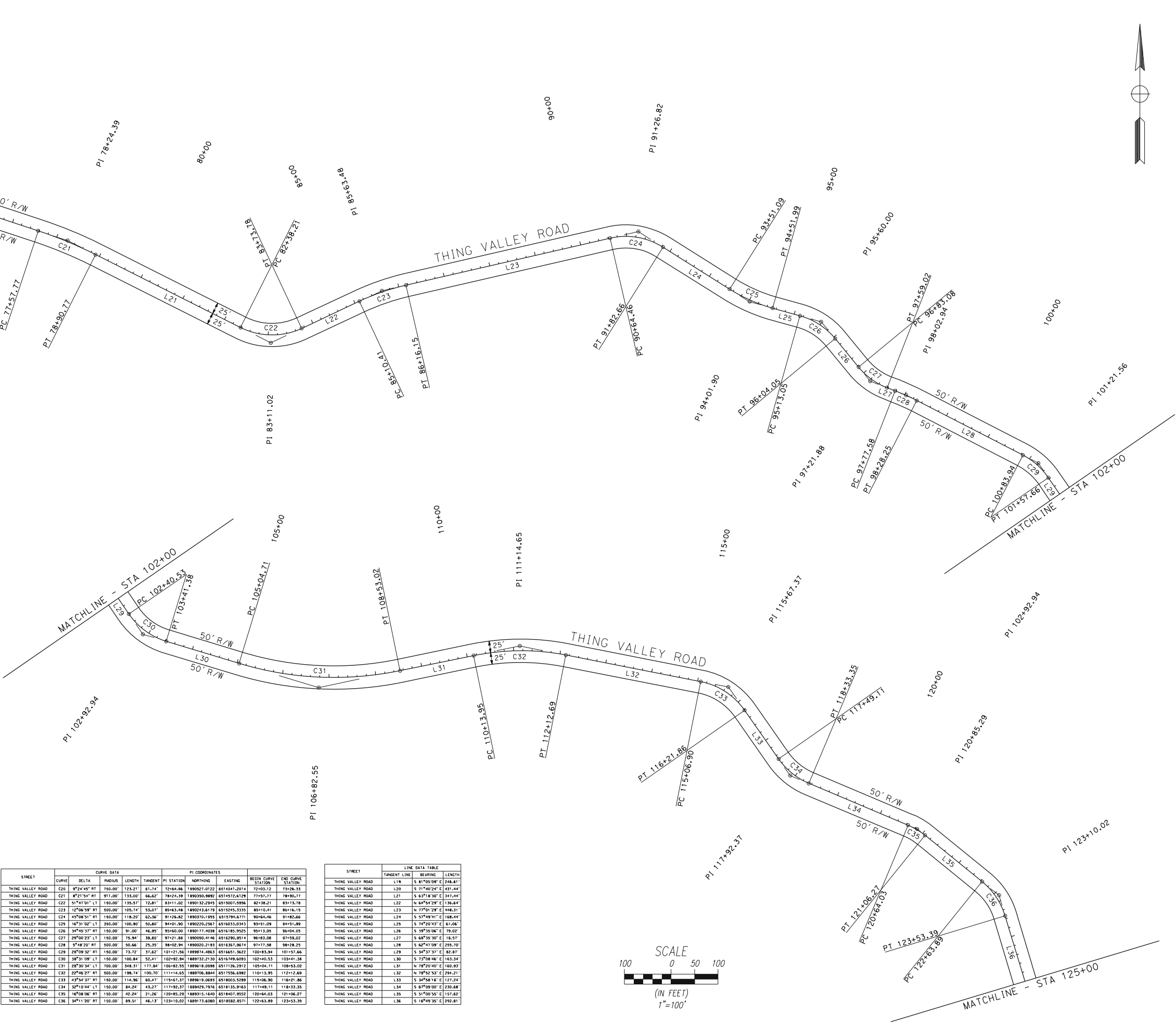
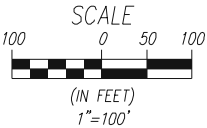
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SUPERELEVATION RATES THING VALLEY ROAD		
STATION	RATE LEFT	RATE RIGHT
70+01.72	-2.00%	-2.00%
71+45.78	-2.00%	-2.00%
71+71.49	0.00%	-2.00%
71+97.21	2.00%	-2.00%
72+24.21	4.10%	-4.10%
73+05.24	4.10%	-4.10%
73+32.24	2.00%	-2.00%
73+57.96	0.00%	-2.00%
73+83.67	-2.00%	-2.00%
77+04.29	-2.00%	-2.00%
77+30.00	0.00%	-2.00%
77+55.71	2.00%	-2.00%
77+76.29	3.60%	-3.60%
78+72.26	3.60%	-3.60%
78+92.83	2.00%	-2.00%
79+18.54	0.00%	-2.00%
79+44.26	-2.00%	-2.00%
81+51.55	-2.00%	-2.00%
81+77.27	-2.00%	0.00%
82+02.98	-2.00%	2.00%
82+78.84	-7.90%	7.90%
83+14.84	-7.90%	7.90%
83+90.68	-2.00%	2.00%
84+16.38	-2.00%	0.00%
84+42.09	-2.00%	-2.00%
84+67.80	0.00%	-2.00%
84+93.50	2.00%	-2.00%
85+33.35	5.10%	-5.10%
85+89.92	5.10%	-5.10%
86+29.78	2.00%	-2.00%
86+55.49	0.00%	-2.00%
86+81.21	-2.00%	-2.00%
89+77.81	-2.00%	-2.00%
90+03.52	0.00%	-2.00%
90+29.24	2.00%	-2.00%
91+05.09	7.90%	-7.90%
91+42.03	7.90%	-7.90%
92+17.89	2.00%	-2.00%
92+43.60	0.00%	-2.00%
92+69.32	-2.00%	-2.00%
92+79.09	-2.00%	-2.00%
93+04.81	-2.00%	0.00%
93+30.52	-2.00%	2.00%
93+81.95	-6.00%	6.00%
94+05.40	-6.00%	6.00%
94+56.81	-2.00%	2.00%
94+82.52	0.00%	0.00%
95+08.23	2.00%	-2.00%
95+63.04	6.26%	-6.26%
96+17.85	2.00%	-2.00%
96+43.56	0.00%	0.00%
96+69.27	-2.00%	2.00%
96+99.51	-2.00%	2.00%
97+21.05	-3.68%	3.68%
97+42.59	-2.00%	2.00%
97+68.30	0.00%	0.00%
97+94.01	2.00%	-2.00%

SUPERELEVATION RATES THING VALLEY ROAD		
STATION	RATE LEFT	RATE RIGHT
98+02.91	2.69%	-2.69%
98+11.81	2.00%	-2.00%
98+41.88	2.00%	-2.00%
98+67.59	0.00%	-2.00%
98+93.30	-2.00%	-2.00%
100+16.80	-2.00%	-2.00%
100+42.51	0.00%	-2.00%
100+68.22	2.00%	-2.00%
101+20.80	6.09%	-6.09%
101+73.38	2.00%	-2.00%
101+99.09	0.00%	0.00%
102+24.80	-2.00%	2.00%
102+90.95	-7.15%	7.15%
103+57.10	-2.00%	2.00%
103+82.81	-2.00%	0.00%
104+08.52	-2.00%	-2.00%
104+45.83	-2.00%	-2.00%
104+71.54	-2.00%	0.00%
104+97.26	-2.00%	2.00%
105+26.83	-4.30%	4.30%
108+30.91	-4.30%	4.30%
108+60.48	-2.00%	2.00%
108+86.19	-2.00%	0.00%
109+11.91	-2.00%	-2.00%
109+48.90	-2.00%	-2.00%
109+74.61	0.00%	-2.00%
110+00.32	2.00%	-2.00%
110+40.18	5.10%	-5.10%
111+86.47	5.10%	-5.10%
112+26.32	2.00%	-2.00%
112+52.04	0.00%	-2.00%
112+77.75	-2.00%	-2.00%
114+20.25	-2.00%	-2.00%
114+45.96	0.00%	-2.00%
114+71.68	2.00%	-2.00%
115+47.53	7.90%	-7.90%
115+83.94	7.90%	-7.90%
116+59.77	2.00%	-2.00%
116+85.48	0.00%	0.00%
117+11.19	-2.00%	2.00%
117+87.02	-7.90%	7.90%
117+92.72	-7.90%	7.90%
118+68.58	-2.00%	2.00%
118+94.29	-2.00%	0.00%
119+20.01	-2.00%	-2.00%
119+77.37	-2.00%	-2.00%
120+03.09	0.00%	-2.00%
120+28.80	2.00%	-2.00%
120+85.15	6.38%	-6.38%
121+41.50	2.00%	-2.00%
122+28.66	2.00%	-2.00%
123+04.52	7.90%	-7.90%
123+12.76	7.90%	-7.90%
123+88.62	2.00%	-2.00%
124+14.34	0.00%	-2.00%
124+40.05	-2.00%	-2.00%

STREET	CURVE DATA				PI COORDINATES					
	CURVE	DELTA	RADIUS	LENGTH	TANGENT	PI STATION	NORTHING	EASTING	BEGIN CURVE STATION	END CURVE STATION
THING VALLEY ROAD	C20	9°24'48" RT	150.00'	125.21'	81.74'	72+44.96	189097.0732	6518441.2014	72+03.12	73+26.33
THING VALLEY ROAD	C21	8°21'54" RT	971.00'	133.00'	86.80'	78+24.38	1890390.9892	6514572.6128	77+57.77	78+99.17
THING VALLEY ROAD	C22	51°47'01" LT	150.00'	135.97'	72.81'	83+11.02	1890132.2945	6515007.9996	82+38.21	83+75.78
THING VALLEY ROAD	C23	12°06'59" RT	500.00'	105.74'	53.07'	85+63.48	1890213.6178	6515245.5355	85+10.41	86+16.15
THING VALLEY ROAD	C24	45°08'51" RT	150.00'	118.20'	62.36'	91+26.82	1890370.1955	6515784.6771	90+64.46	91+82.66
THING VALLEY ROAD	C25	16°31'02" LT	350.00'	100.90'	50.80'	94+01.90	1890255.2567	6516053.0943	93+51.09	94+51.99
THING VALLEY ROAD	C26	54°45'37" RT	150.00'	91.00'	46.90'	104+60.00	1890117.4038	6516185.9025	94+13.09	94+54.03
THING VALLEY ROAD	C27	29°00'23" LT	150.00'	75.94'	38.80'	97+21.88	1890050.4146	6516290.9514	96+83.08	97+59.02
THING VALLEY ROAD	C28	5°18'20" RT	500.00'	50.66'	25.35'	98+02.94	1890020.2193	6516367.9614	97+77.58	98+28.25
THING VALLEY ROAD	C29	28°09'32" RT	150.00'	73.72'	37.62'	101+21.56	1889874.4883	6516651.3627	100+83.94	101+57.66
THING VALLEY ROAD	C30	38°31'09" LT	150.00'	100.84'	52.41'	102+82.94	1889152.2130	6516749.6093	102+40.53	103+41.38
THING VALLEY ROAD	C31	28°30'34" LT	150.00'	548.31'	117.84'	108+82.50	1889618.0988	6517126.2912	105+04.11	109+53.02
THING VALLEY ROAD	C32	22°46'27" RT	500.00'	198.74'	100.70'	111+14.65	1889706.8844	6517556.6982	110+13.95	112+12.69
THING VALLEY ROAD	C33	43°54'37" RT	150.00'	114.96'	60.47'	115+67.37	1889619.0693	6518003.5289	115+06.90	116+21.86
THING VALLEY ROAD	C34	32°10'44" LT	150.00'	84.24'	43.27'	117+82.37	1889479.7876	6518135.9183	117+49.11	118+33.35
THING VALLEY ROAD	C35	16°08'06" RT	150.00'	42.24'	21.26'	120+85.29	1889315.1640	6518467.9552	120+64.03	121+06.27
THING VALLEY ROAD	C36	34°11'20" RT	150.00'	89.51'	46.13'	123+15.00	1889173.6060	6518582.8571	122+63.89	123+53.39

STREET	LINE DATA TABLE		
	TANGENT LINE	BEARING	LENGTH
THING VALLEY ROAD	L18	S 81°05'09" E	248.81'
THING VALLEY ROAD	L19	S 77°40'24" E	491.44'
THING VALLEY ROAD	L21	S 63°18'30" E	347.44'
THING VALLEY ROAD	L22	N 64°54'29" E	136.64'
THING VALLEY ROAD	L23	N 77°01'29" E	448.31'
THING VALLEY ROAD	L24	S 57°49'41" E	168.44'
THING VALLEY ROAD	L25	S 74°20'43" E	61.86'
THING VALLEY ROAD	L26	S 10°35'06" E	78.02'
THING VALLEY ROAD	L27	S 68°35'30" E	18.57'
THING VALLEY ROAD	L28	S 82°41'09" E	235.70'
THING VALLEY ROAD	L29	S 34°37'37" E	82.87'
THING VALLEY ROAD	L30	S 73°08'46" E	163.34'
THING VALLEY ROAD	L31	N 18°50'00" E	160.93'
THING VALLEY ROAD	L32	N 78°52'53" E	294.21'
THING VALLEY ROAD	L33	S 34°58'16" E	127.24'
THING VALLEY ROAD	L34	S 67°09'00" E	230.68'
THING VALLEY ROAD	L35	S 51°00'55" E	157.82'
THING VALLEY ROAD	L36	S 14°49'35" E	292.87'



ENGINEER OF RECORD

BUREAU OF INDIAN AFFAIRS  
PACIFIC REGION, SACRAMENTO  
PROJECT NO:

REVISION HISTORY

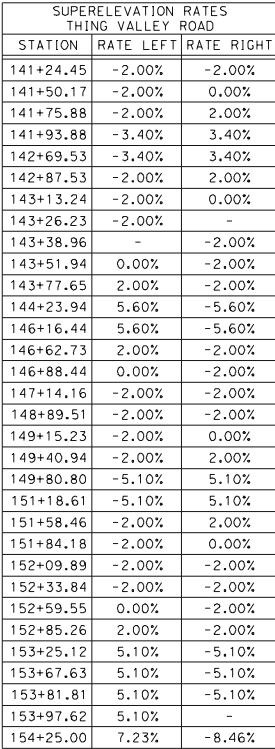
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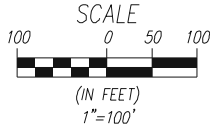
Ewiaapaayp Indian Reservation  
ROUTE 20 - THING VALLEY RD  
SURVEY CONTROL DIAGRAM  
SHEET 2 OF 3

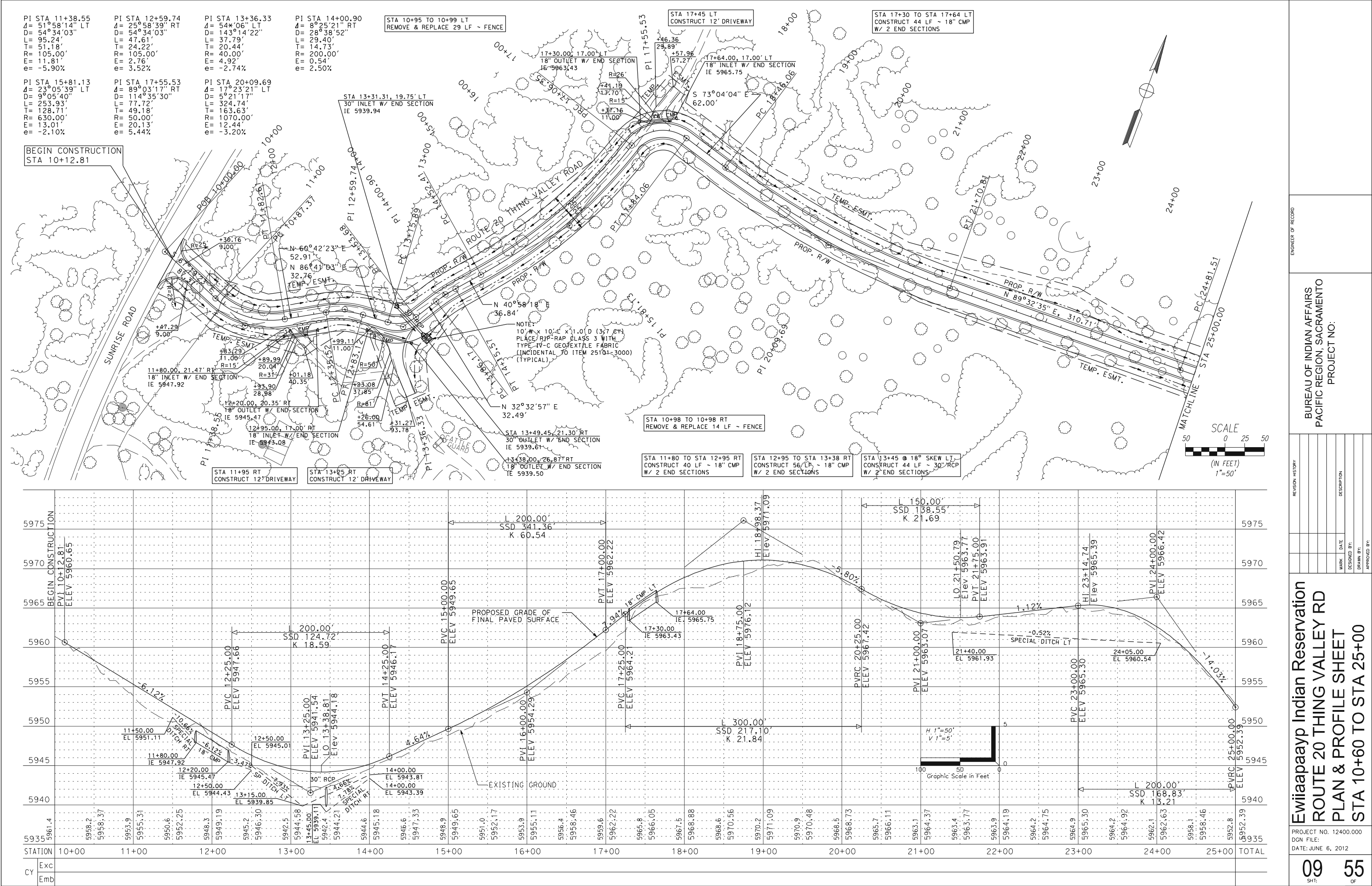
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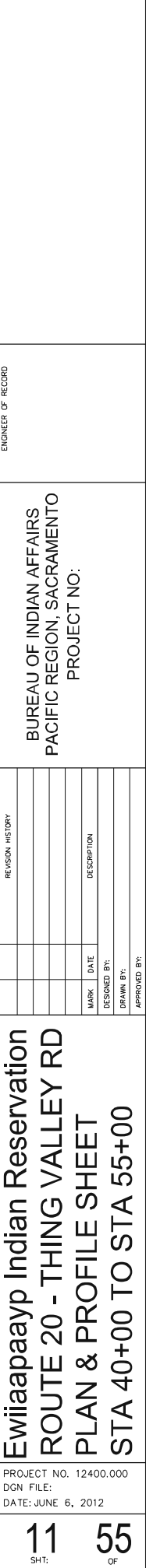
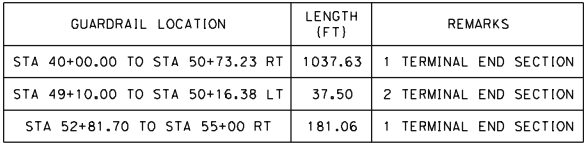


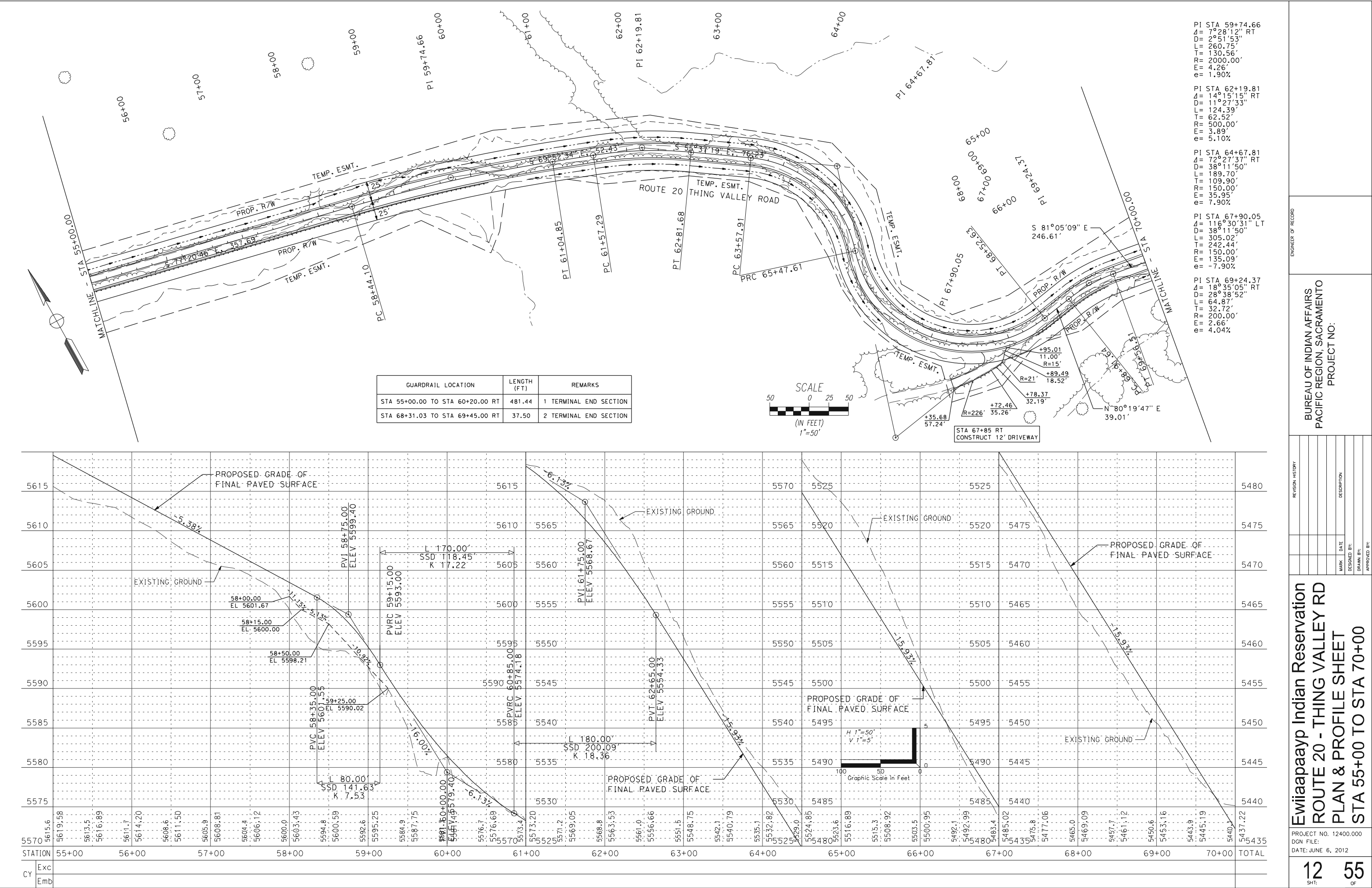
STREET	LINE DATA TABLE		
	TANGENT LINE	BEARING	LENGTH
THING VALLEY ROAD	L36	S 16°49'35" E	292.81'
THING VALLEY ROAD	L37	S 51°24'45" E	200.75'
THING VALLEY ROAD	L38	S 55°35'13" E	98.74'
THING VALLEY ROAD	L39	S 37°04'24" E	75.13'
THING VALLEY ROAD	L40	S 63°27'29" E	421.72'
THING VALLEY ROAD	L41	S 69°47'46" E	108.12'
THING VALLEY ROAD	L42	S 33°58'18" E	309.33'
THING VALLEY ROAD	L43	S 55°46'28" E	154.06'
THING VALLEY ROAD	L44	S 44°53'33" E	106.15'











PI STA 59+74.66  
Δ= 7°28'12" RT  
D= 2°51'53"  
L= 260.75'  
T= 130.56'  
R= 2000.00'  
E= 4.26'  
e= 1.90%

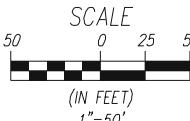
PI STA 62+19.81  
Δ= 14°15'15" RT  
D= 11°27'33"  
L= 124.39'  
T= 62.52'  
R= 500.00'  
E= 3.89'  
e= 5.10%

PI STA 64+67.81  
Δ= 72°27'37" RT  
D= 38°11'50"  
L= 189.70'  
T= 109.90'  
R= 150.00'  
E= 35.95'  
e= 7.90%

PI STA 67+90.05  
Δ= 116°30'31" LT  
D= 38°11'50"  
L= 305.02'  
T= 242.44'  
R= 150.00'  
E= 135.09'  
e= -7.90%

PI STA 69+24.37  
Δ= 18°35'05" RT  
D= 28°38'52"  
L= 64.87'  
T= 32.72'  
R= 200.00'  
E= 2.66'  
e= 4.04%

GUARDRAIL LOCATION	LENGTH (FT)	REMARKS
STA 55+00.00 TO STA 60+20.00 RT	481.44	1 TERMINAL END SECTION
STA 68+31.03 TO STA 69+45.00 RT	37.50	2 TERMINAL END SECTION



STA 67+85 RT  
CONSTRUCT 12' DRIVEWAY

ENGINEER OF RECORD

BUREAU OF INDIAN AFFAIRS  
PACIFIC REGION, SACRAMENTO  
PROJECT NO:

REVISION HISTORY

Ewiaapaayp Indian Reservation  
ROUTE 20 - THING VALLEY RD  
PLAN & PROFILE SHEET  
STA 55+00 TO STA 70+00

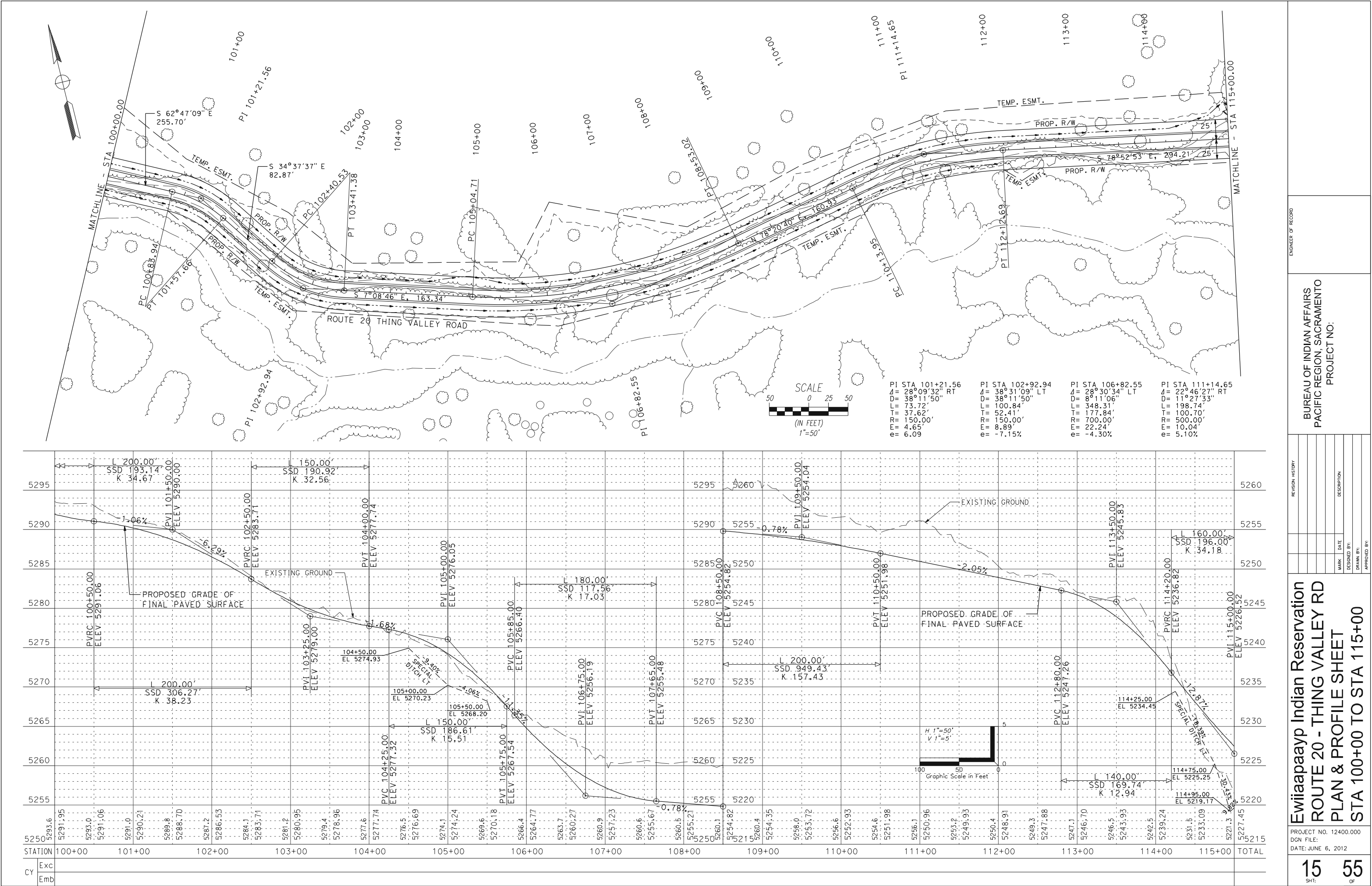
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DATE: JUNE 6, 2012

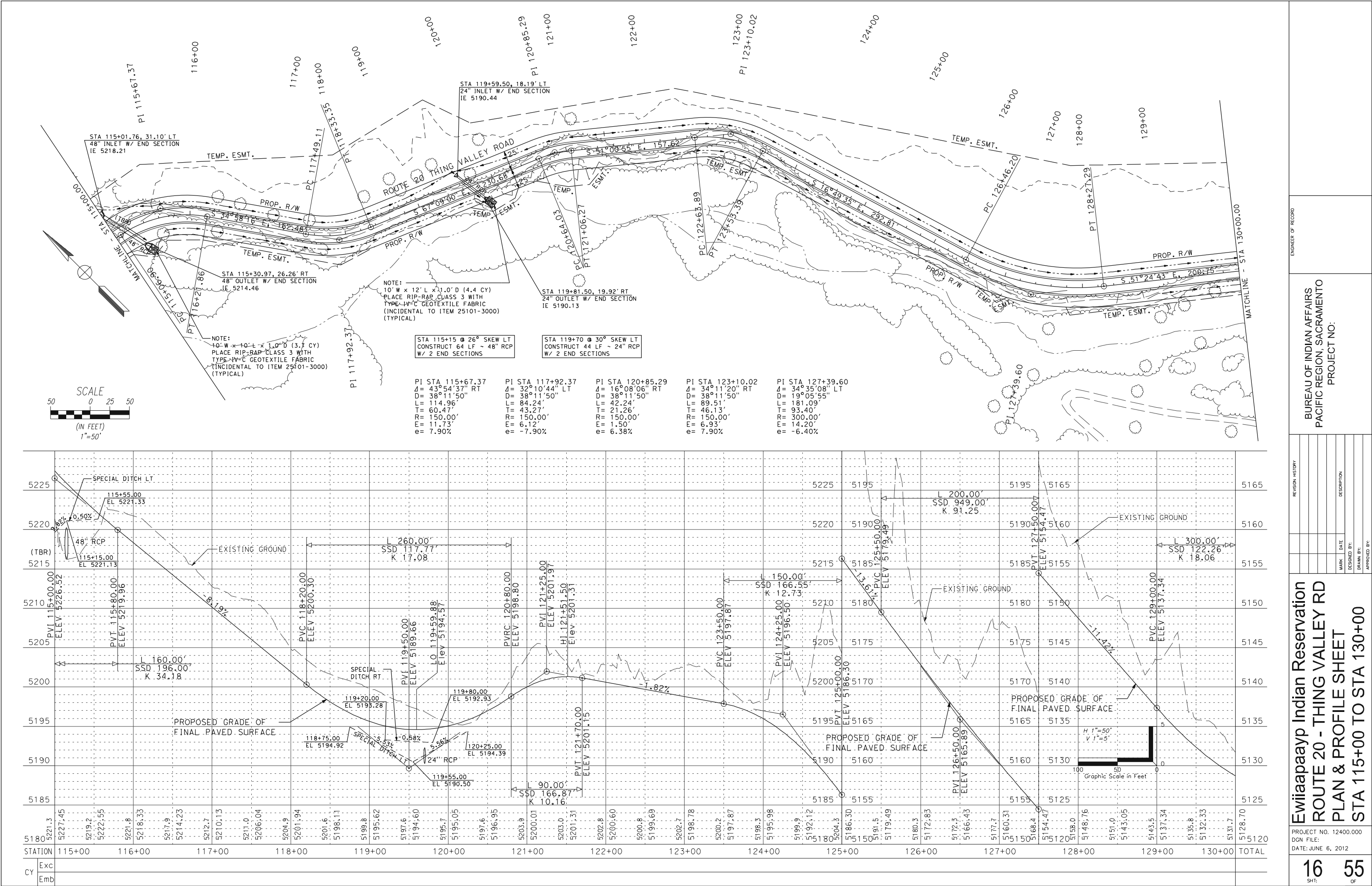
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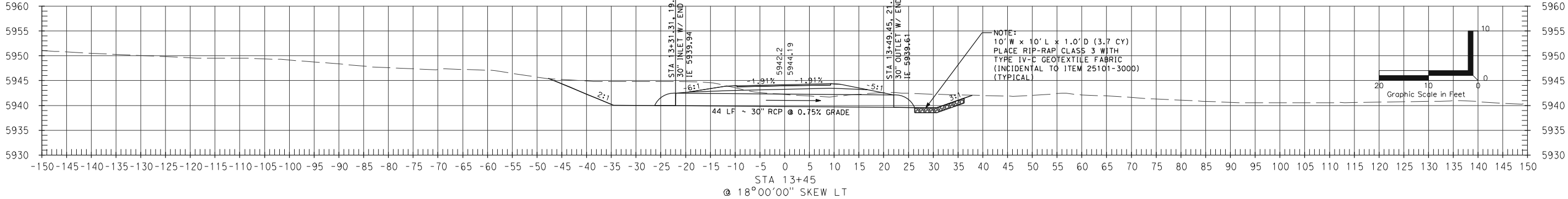
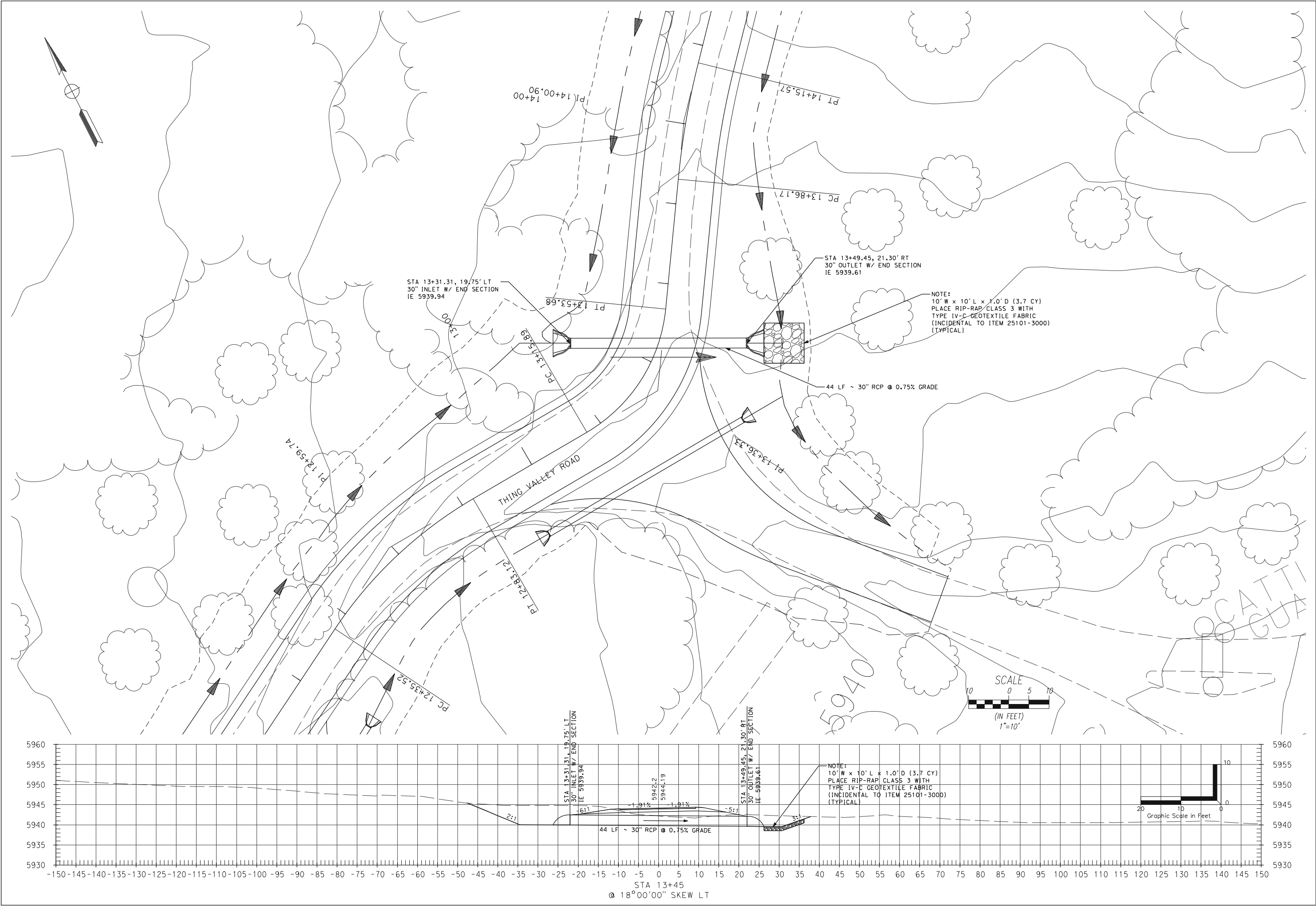




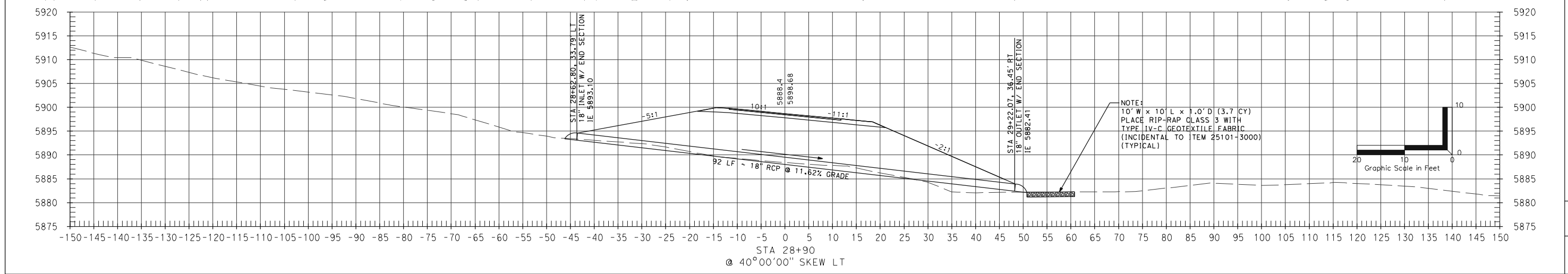




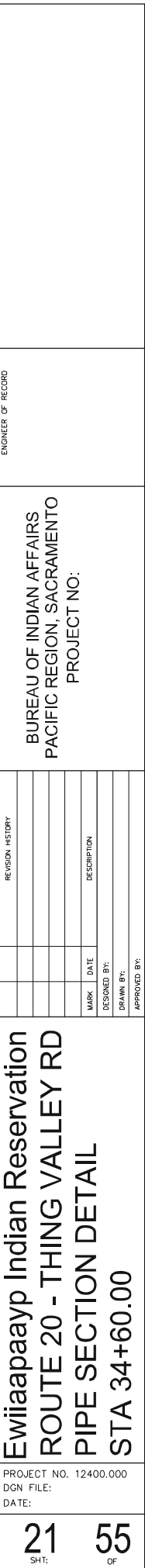


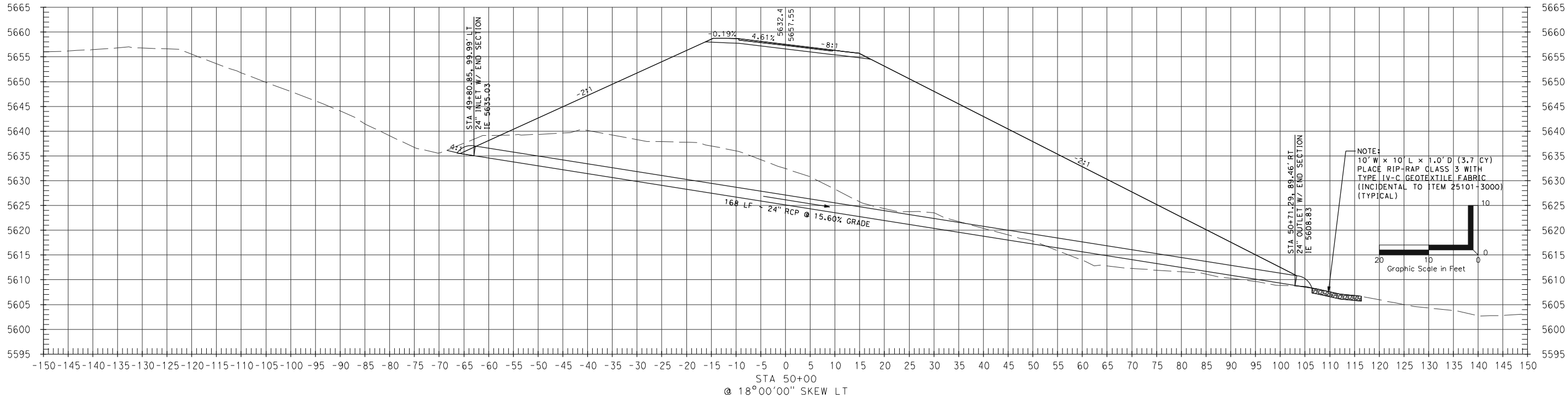
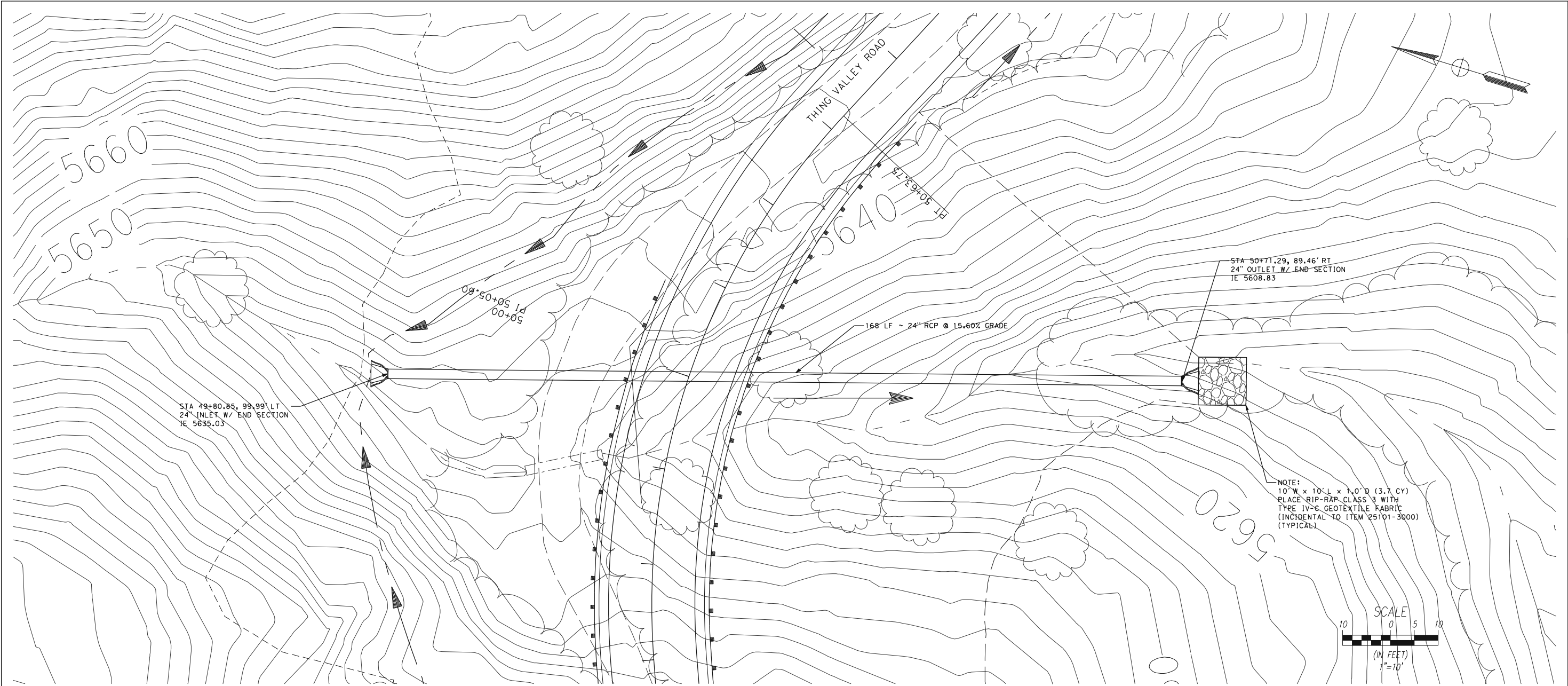


ENGINEER OF RECORD		BUREAU OF INDIAN AFFAIRS PACIFIC REGION, SACRAMENTO PROJECT NO:																																		
REVISION HISTORY		<table border="1"> <thead> <tr> <th>MARK</th> <th>DATE</th> <th>DESCRIPTION</th> </tr> </thead> <tbody> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> </tbody> </table>		MARK	DATE	DESCRIPTION																														
MARK	DATE	DESCRIPTION																																		
PROJECT NO. 12400.000 DGN FILE: DATE:		Ewiaapaayp Indian Reservation ROUTE 20 - THING VALLEY RD PIPE SECTION DETAIL STA 13+45.00																																		
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<b>BUREAU OF INDIAN AFFAIRS</b> <b>PACIFIC REGION, SACRAMENTO</b>  <b>PROJECT NO:</b>		ENGINEER'S RECORD
REVISION HISTORY		
MARK	DATE	DESCRIPTION
DESIGNED BY:		
DRAWN BY:		
APPROVED BY:		





ENGINEER OF RECORD

BUREAU OF INDIAN AFFAIRS  
PACIFIC REGION, SACRAMENTO  
PROJECT NO:

REVISION HISTORY	
MARK	DATE

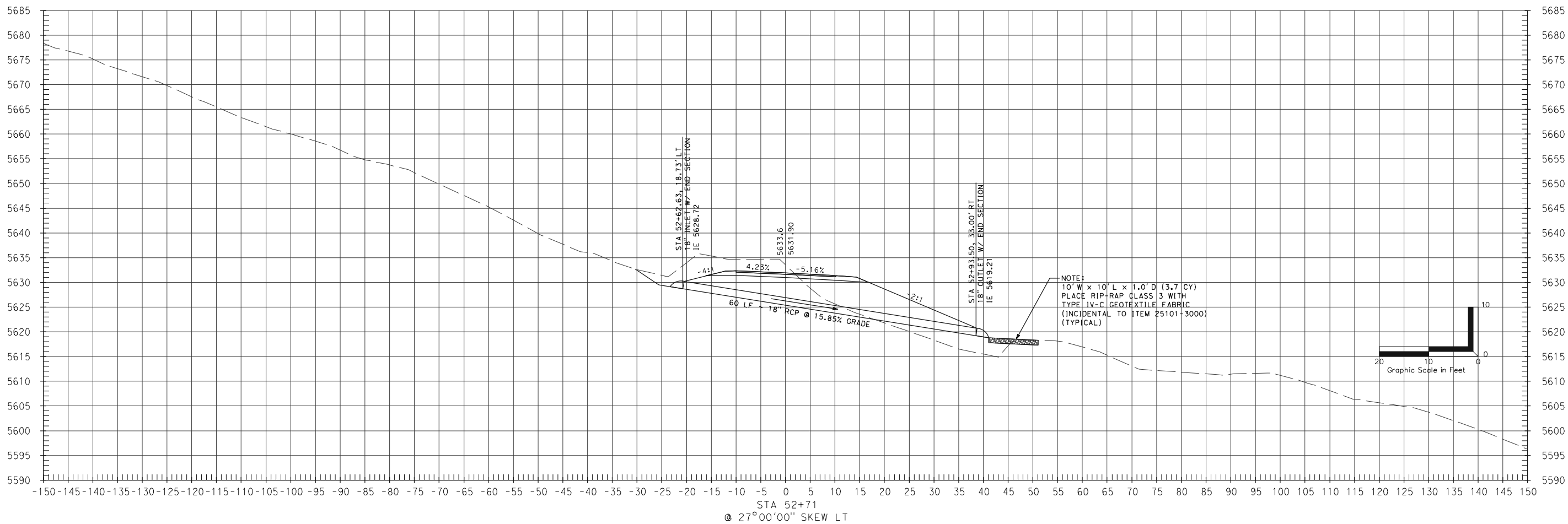
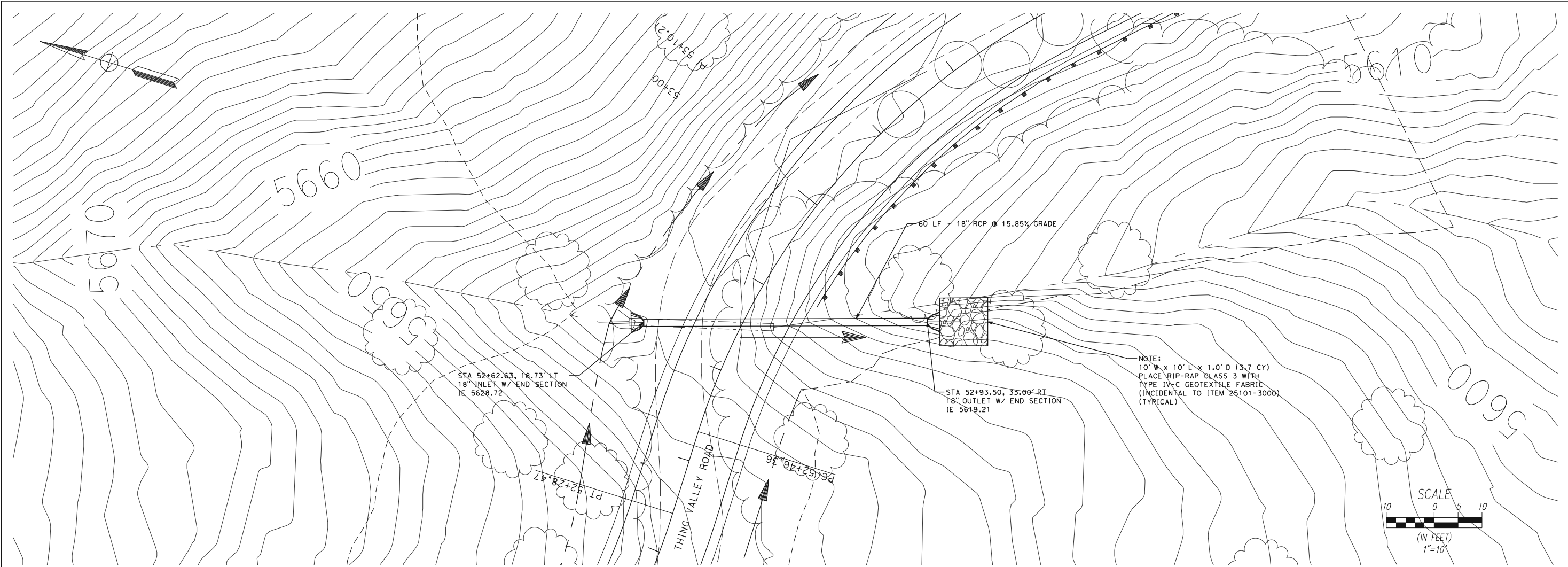
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Ewiaapaayp Indian Reservation  
ROUTE 20 - THING VALLEY RD  
PIPE SECTION DETAIL  
STA 50+00.00

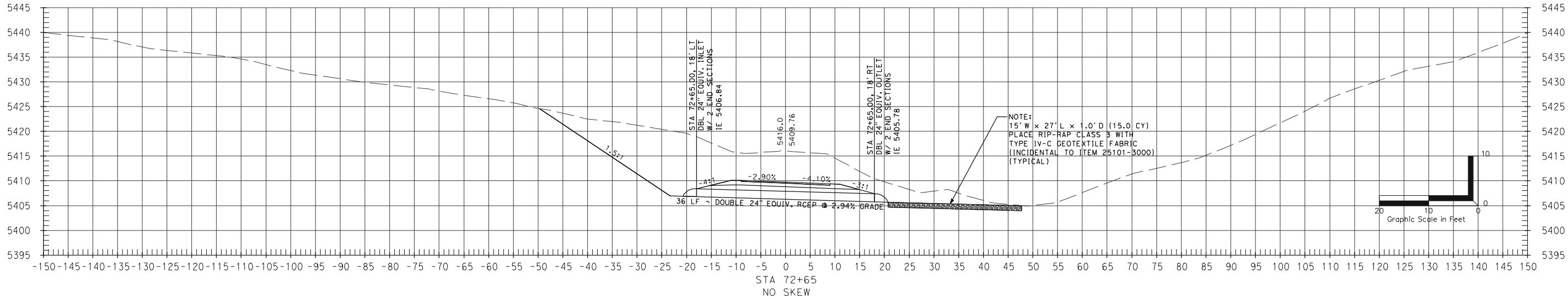
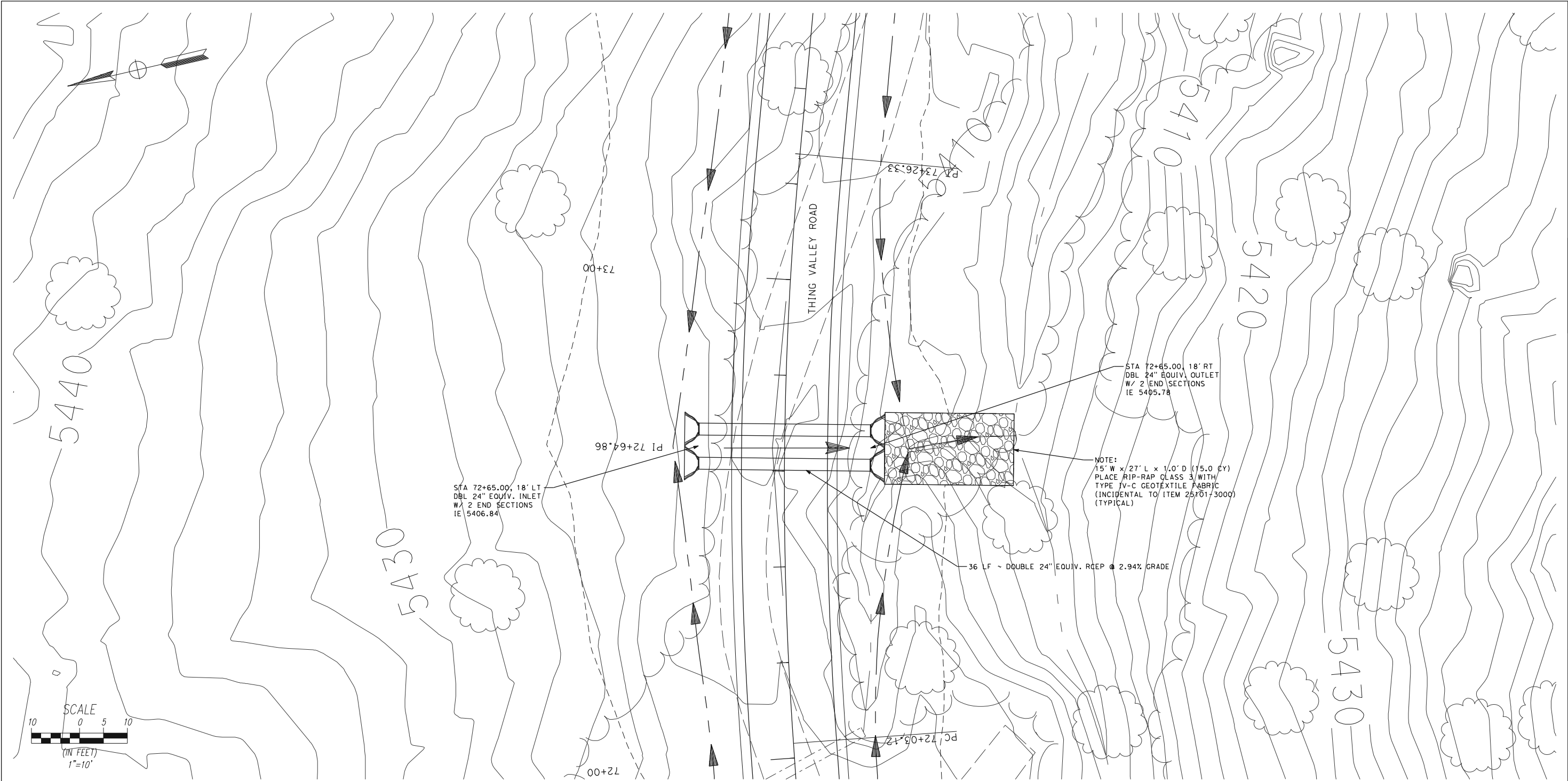
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ENGINEER OF RECORD		BUREAU OF INDIAN AFFAIRS PACIFIC REGION, SACRAMENTO PROJECT NO:	
REVISION HISTORY		Ewilaapaayp Indian Reservation ROUTE 20 - THING VALLEY RD PIPE SECTION DETAIL STA 52+71.00	
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PACIFIC REGION, SACRAMENTO  
PROJECT NO:

REVISION HISTORY

MARK	DATE	DESCRIPTION

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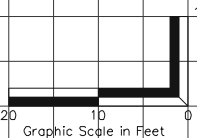
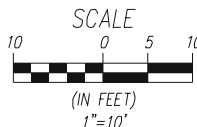
Ewiaapaayp Indian Reservation  
ROUTE 20 - THING VALLEY RD  
PIPE SECTION DETAIL  
STA 72+65.00

PROJECT NO. 12400.000  
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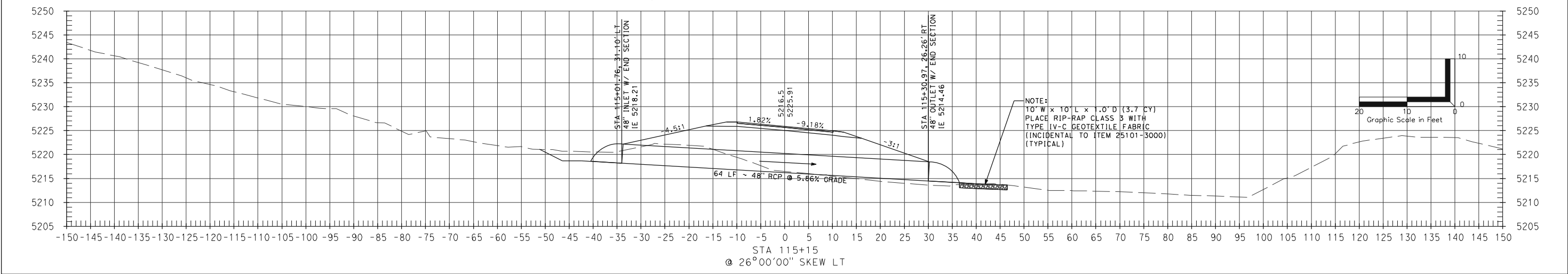
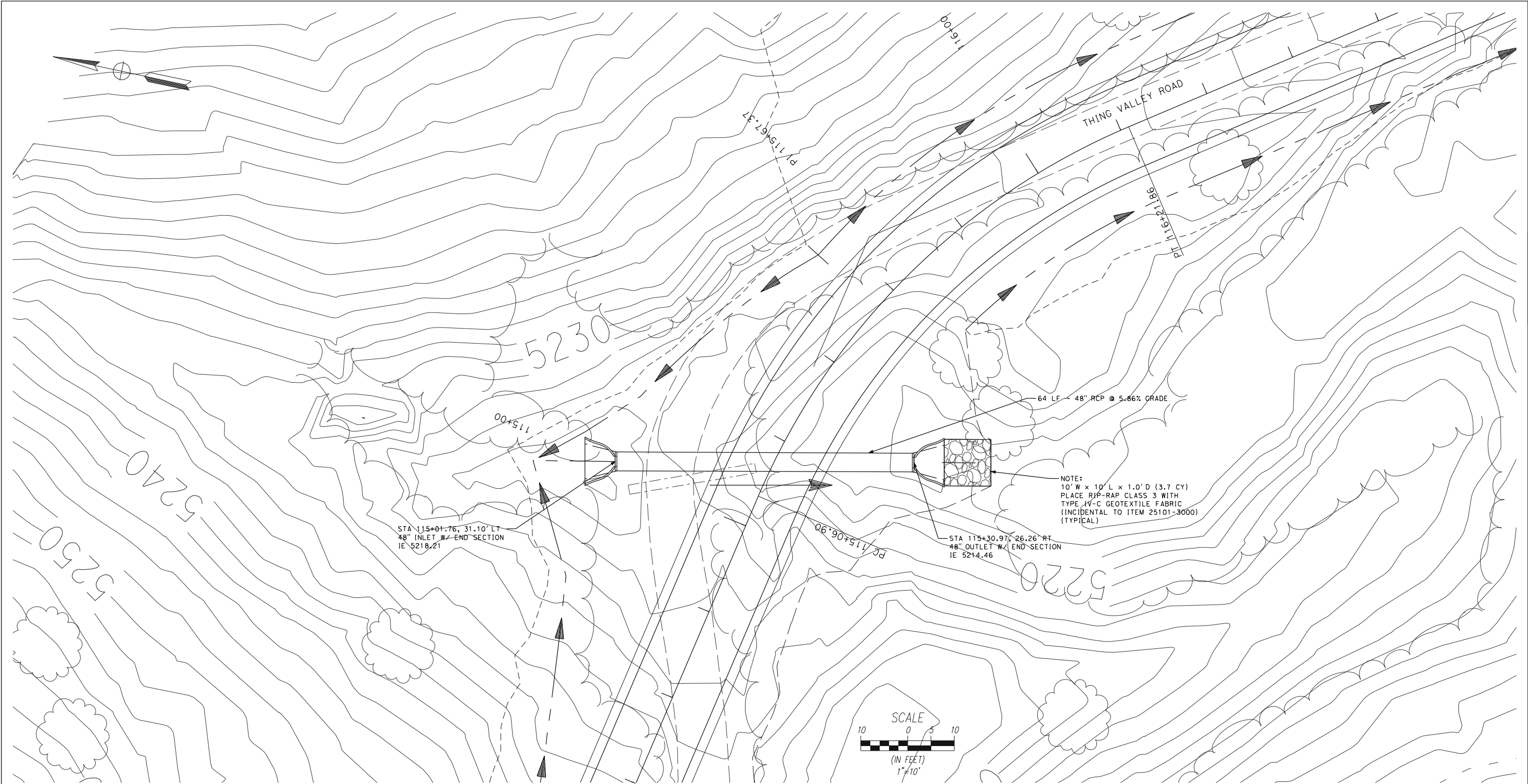
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PACIFIC REGION, SACRAMENTO  
PROJECT NO:

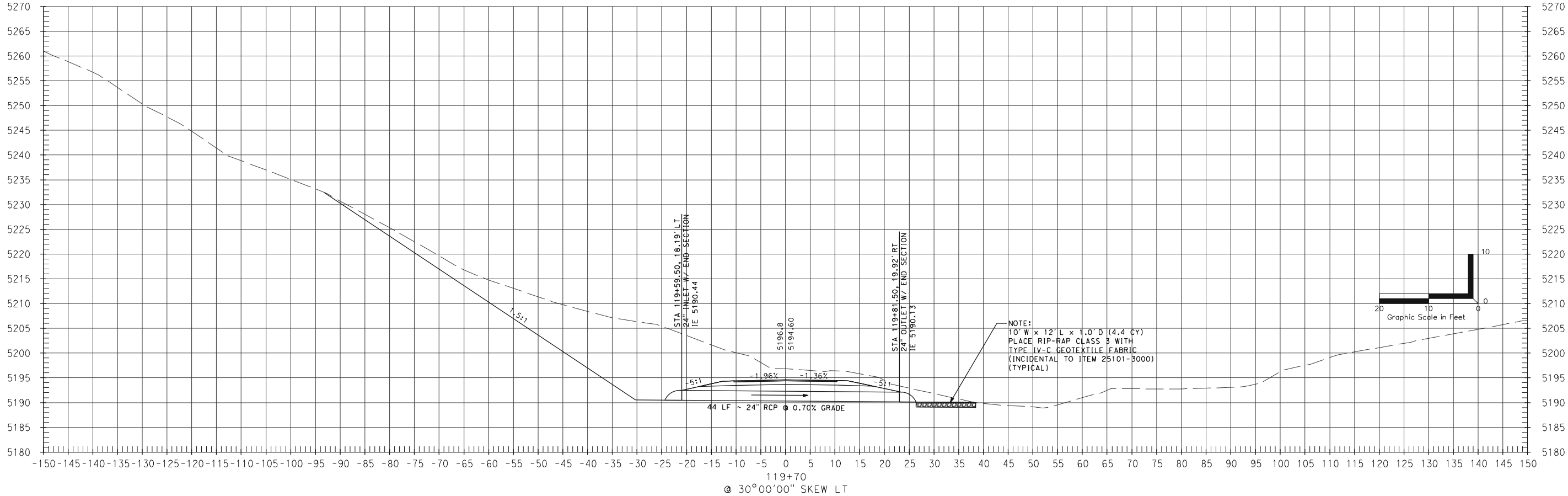
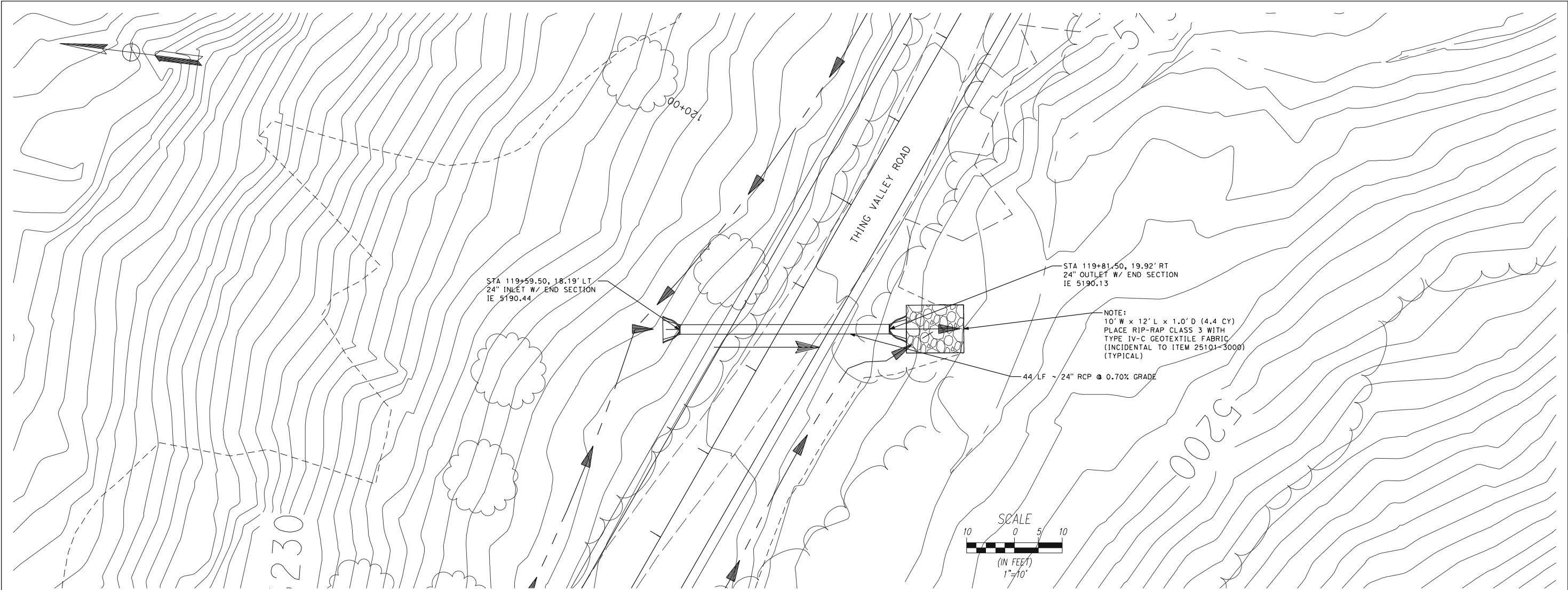
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MARK	DATE

DESIGNED BY:  
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APPROVED BY:

Ewiaapaayp Indian Reservation  
ROUTE 20 - THING VALLEY RD  
PIPE SECTION DETAIL  
STA 115+15.00

PROJECT NO. 12400.000  
DGN FILE:  
DATE:

27 55  
SHT: OF



ENGINEER OF RECORD

BUREAU OF INDIAN AFFAIRS  
PACIFIC REGION, SACRAMENTO  
PROJECT NO:

REVISION HISTORY	
MARK	DATE
DESIGNED BY:	
DRAWN BY:	
APPROVED BY:	

Ewiaapaayp Indian Reservation

ROUTE 20 - THING VALLEY RD

PIPE SECTION DETAIL

STA 119+70.00

PROJECT NO. 12400.000

DGN FILE:

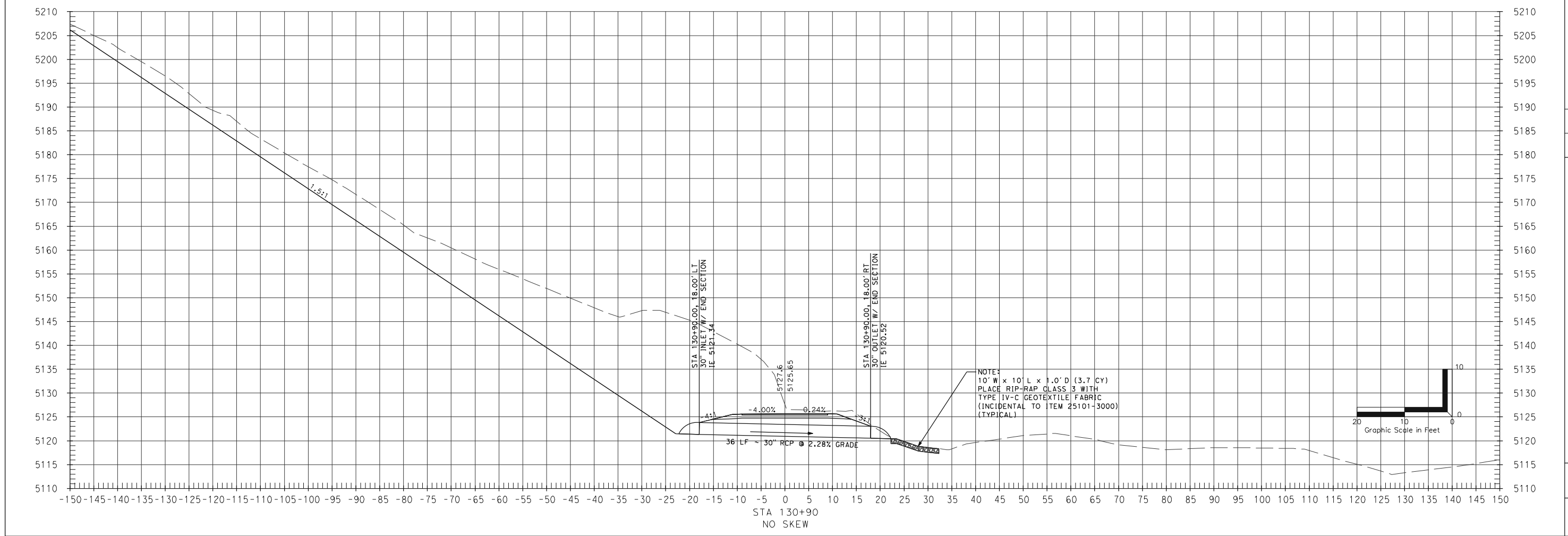
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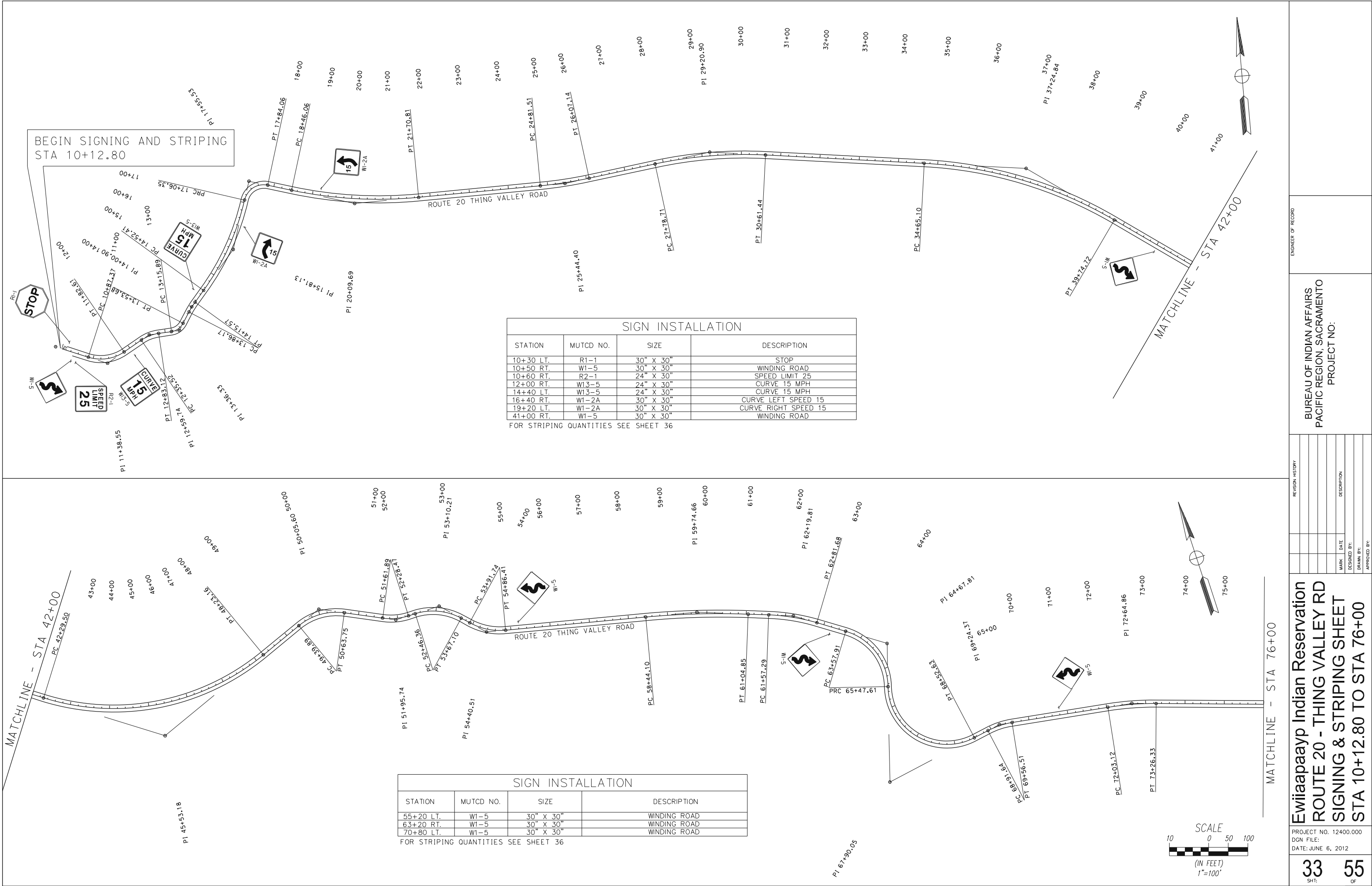
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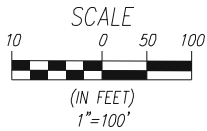






SIGN INSTALLATION			
STATION	MUTCD NO.	SIZE	DESCRIPTION
10+30 LT.	R1-1	30" X 30"	STOP
10+50 RT.	W1-5	30" X 30"	WINDING ROAD
10+60 RT.	R2-1	24" X 30"	SPEED LIMIT 25
12+00 RT.	W13-5	24" X 30"	CURVE 15 MPH
14+40 LT.	W13-5	24" X 30"	CURVE 15 MPH
16+40 RT.	W1-2A	30" X 30"	CURVE LEFT SPEED 15
19+20 LT.	W1-2A	30" X 30"	CURVE RIGHT SPEED 15
41+00 RT.	W1-5	30" X 30"	WINDING ROAD

SIGN INSTALLATION			
STATION	MUTCD NO.	SIZE	DESCRIPTION
55+20 LT.	W1-5	30" X 30"	WINDING ROAD
63+20 RT.	W1-5	30" X 30"	WINDING ROAD
70+80 LT.	W1-5	30" X 30"	WINDING ROAD



FOR STRIPING QUANTITIES SEE SHEET 36

Ewiiaapaayp Indian Reservation  
ROUTE 20 - THING VALLEY RD  
SIGNING & STRIPING SHEET  
STA 76+00 TO STA 110+00

34 SHT: 55 OF

ENGINEER OF RECORD

BUREAU OF INDIAN AFFAIRS  
PACIFIC REGION, SACRAMENTO  
PROJECT NO:

Ewiiaapaayp Indian Reservation  
ROUTE 20 - THING VALLEY RD  
SIGNING & STRIPING SHEET  
STA 76+00 TO STA 110+00



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BUREAU OF INDIAN AFFAIRS  
PACIFIC REGION, SACRAMENTO  
PROJECT NO:

REVISION HISTORY

NO.	DATE	DESCRIPTION

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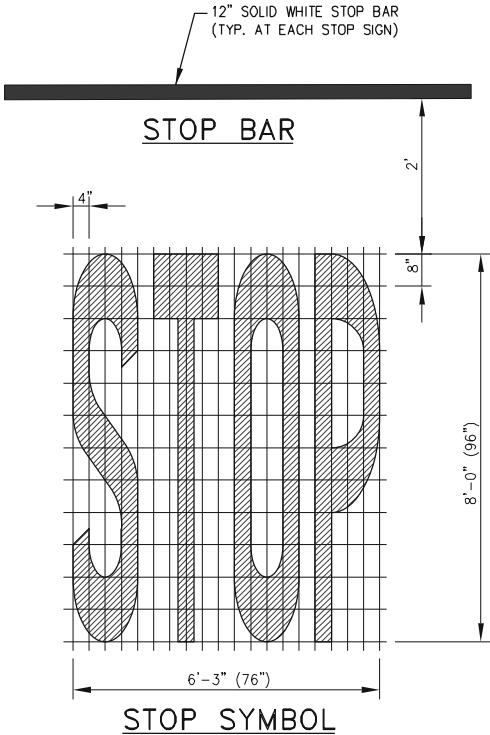
Ewiaapaayp Indian Reservation  
ROUTE 20 - THING VALLEY RD  
SIGNING & STRIPING SHEET  
STA 110+00 TO STA 154+25

PROJECT NO. 12400.000  
DGN FILE:  
DATE: JUNE 6, 2012

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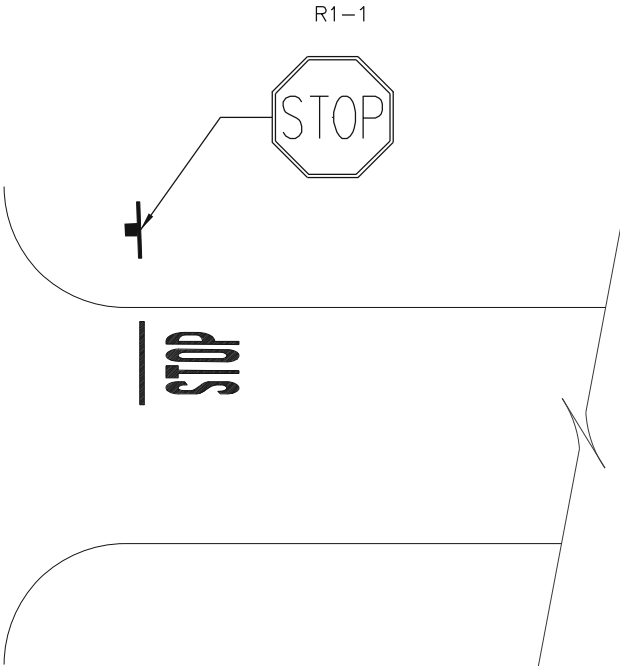
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OF

PAVEMENT MARKINGS						
THERMOPLASTIC STRIPING, SYMBOLS & LETTERING						
STREET	APPROXIMATE STATIONS	STOP BAR (LF)	"STOP" (SF)	MARKING	STATION LENGTH (LF)	ACTUAL LENGTH (LF)
THING VALLEY ROAD	10+16.5	12	22			
THING VALLEY ROAD	10+17 to 154+25			SOLID DOUBLE YELLOW CENTERLINE	14,408	28,816
THING VALLEY ROAD	10+28 to 154+25 LT			SOLID SINGLE WHITE EDGE LINE	14,391	14,400
THING VALLEY ROAD	10+47 to 154+25 RT			SOLID SINGLE WHITE EDGE LINE	14,378	14,375
TOTALS		12	22			
				SOLID DOUBLE YELLOW CENTERLINE		28,816
				SOLID SINGLE WHITE EDGE LINE		28,775



NOTES:

1. MINOR VARIATIONS IN DIMENSIONS MAY BE ACCEPTED BY THE COR.
2. PORTIONS OF A LETTER, NUMBER OR SYMBOL MAY BE SEPARATED BY CONNECTING SEGMENTS NOT TO EXCEED (2") IN WIDTH.
3. ALL WORK SHALL CONFORM TO THE LATEST EDITION OF MUTCD.
4. ALL PAVEMENT MARKINGS WILL REQUIRE A DOUBLE COAT OF PAINT.



NOTES:

1. THE STATIONS ARE AT CENTER OF STOP  
BAR PER DETAIL ON THIS SHEET
2. LOCATIONS ABOVE ARE APPROXIMATE. FINAL  
LOCATIONS TO BE DETERMINED IN THE FIELD BY THE COR.

ENGINEER OF RECORD

BUREAU OF INDIAN AFFAIRS  
PACIFIC REGION, SACRAMENTO  
PROJECT NO:  
J51-521-301,401,402,117,1161(466)2&3

REVISION HISTORY		MARK	DATE	DESCRIPTION
DESIGNED BY:				
DRAWN BY:				
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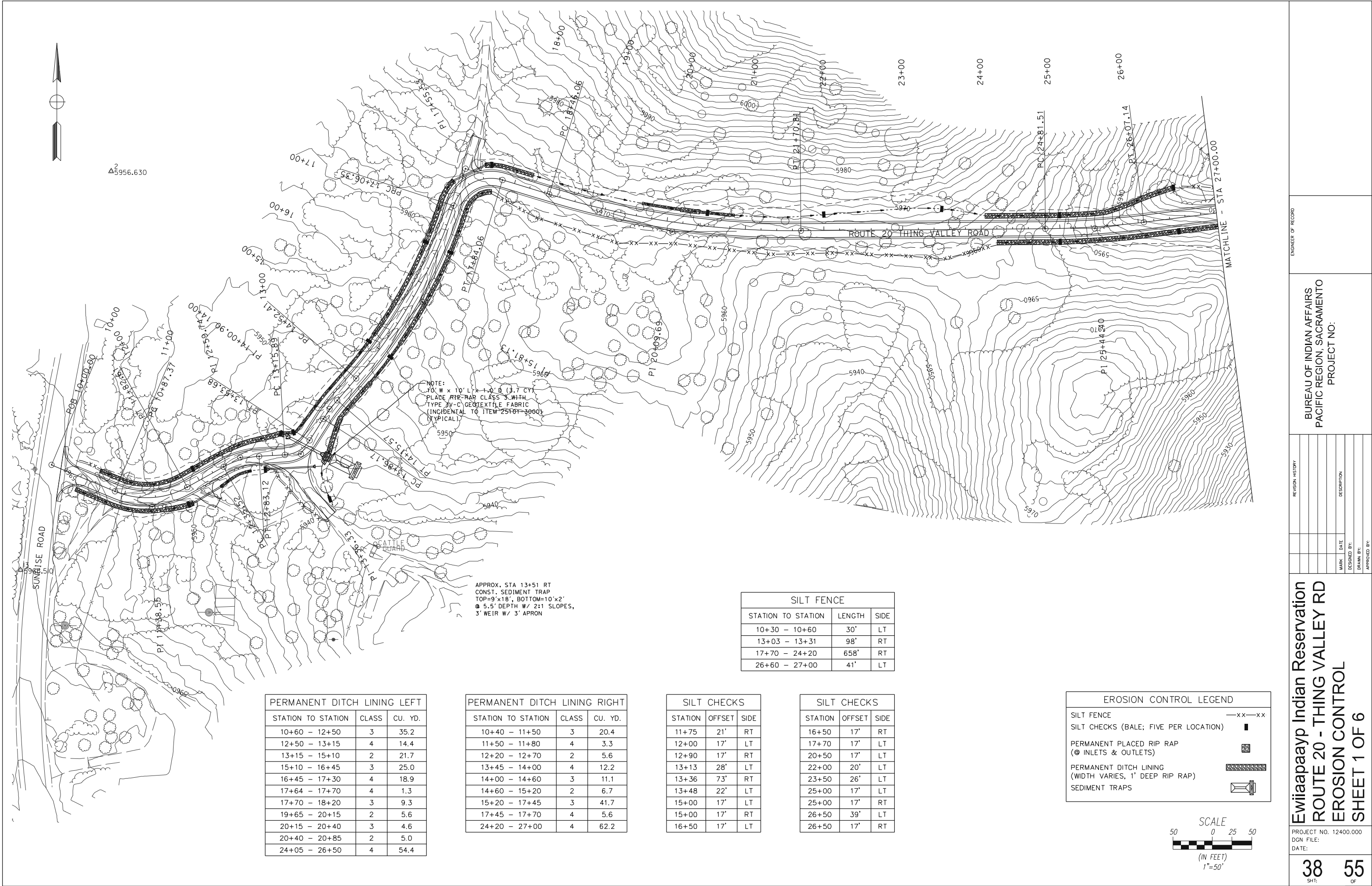
# Ewiiaapaayp Indian Reservation ROUTE 20 - THING VALLEY RD PAVEMENT MARKINGS DETAILS & QUANTITIES

PROJECT NO. 12400.000  
DGN FILE:  
DATE:

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SHT:

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OF





PERMANENT DITCH LINING LEFT		
STATION TO STATION	CLASS	CU. YD.
10+60 - 12+50	3	35.2
12+50 - 13+15	4	14.4
13+15 - 15+10	2	21.7
15+10 - 16+45	3	25.0
16+45 - 17+30	4	18.9
17+64 - 17+70	4	1.3
17+70 - 18+20	3	9.3
19+65 - 20+15	2	5.6
20+15 - 20+40	3	4.6
20+40 - 20+85	2	5.0
24+05 - 26+50	4	54.4

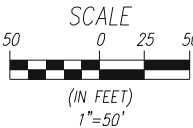
PERMANENT DITCH LINING RIGHT			
STATION TO STATION	CLASS	CU. YD.	
10+40 - 11+50	3	20.4	
11+50 - 11+80	4	3.3	
12+20 - 12+70	2	5.6	
13+45 - 14+00	4	12.2	
14+00 - 14+60	3	11.1	
14+60 - 15+20	2	6.7	
15+20 - 17+45	3	41.7	
17+45 - 17+70	4	5.6	
24+20 - 27+00	4	62.2	

SILT FENCE		
STATION TO STATION	LENGTH	SIDE
10+30 - 10+60	30'	LT
13+03 - 13+31	98'	RT
17+70 - 24+20	658'	RT
26+60 - 27+00	41'	LT

SILT CHECKS		
STATION	OFFSET	SIDE
11+75	21'	RT
12+00	17'	LT
12+90	17'	RT
13+13	28'	LT
13+36	73'	RT
13+48	22'	LT
15+00	17'	LT
15+00	17'	RT
16+50	17'	LT

SILT CHECKS		
STATION	OFFSET	SIDE
16+50	17'	RT
17+70	17'	LT
20+50	17'	LT
22+00	20'	LT
23+50	26'	LT
25+00	17'	LT
25+00	17'	RT
26+50	39'	LT
26+50	17'	RT

EROSION CONTROL LEGEND	
SILT FENCE	—xx—xx
SILT CHECKS (BALE; FIVE PER LOCATION)	■
PERMANENT PLACED RIP RAP (@ INLETS & OUTLETS)	■
PERMANENT DITCH LINING (WIDTH VARIES, 1' DEEP RIP RAP)	■
SEDIMENT TRAPS	■



ENGINEER OF RECORD

BUREAU OF INDIAN AFFAIRS  
PACIFIC REGION, SACRAMENTO  
PROJECT NO:

REVISION HISTORY

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DESIGNED BY:  
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APPROVED BY:

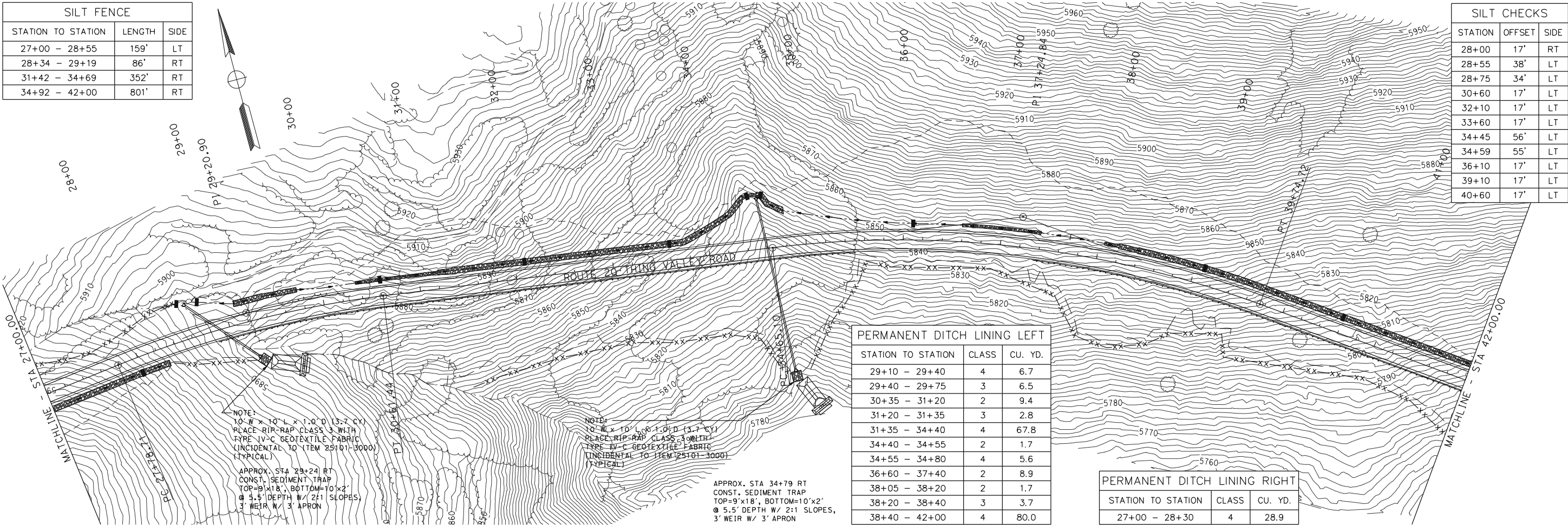
Ewiaapaayp Indian Reservation  
ROUTE 20 - THING VALLEY RD  
EROSION CONTROL  
SHEET 1 OF 6

PROJECT NO. 12400.000  
DGN FILE:  
DATE:

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SHT:

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OF

SILT FENCE		
STATION TO STATION	LENGTH	SIDE
27+00 - 28+55	159'	LT
28+34 - 29+19	86'	RT
31+42 - 34+69	352'	RT
34+92 - 42+00	801'	RT



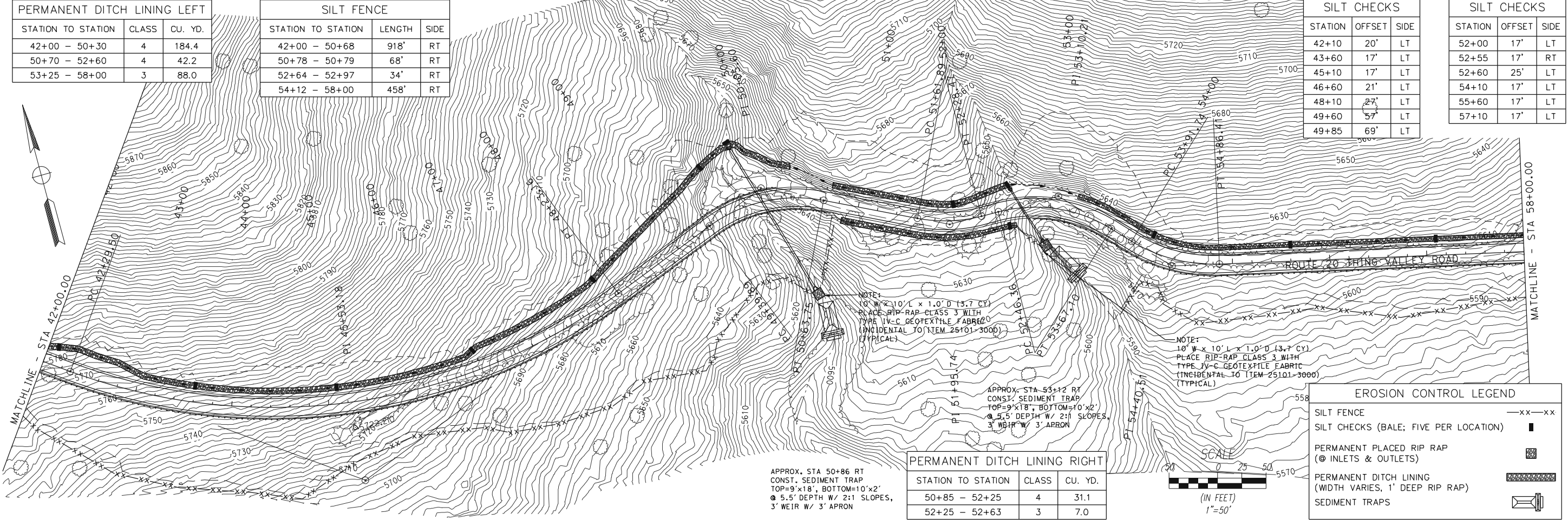
SILT CHECKS		
STATION	OFFSET	SIDE
28+00	17'	RT
28+55	38'	LT
28+75	34'	LT
30+60	17'	LT
32+10	17'	LT
33+60	17'	LT
34+45	56'	LT
34+59	55'	LT
36+10	17'	LT
39+10	17'	LT
40+60	17'	LT

PERMANENT DITCH LINING LEFT		
STATION TO STATION	CLASS	CU. YD.
29+10 - 29+40	4	6.7
29+40 - 29+75	3	6.5
30+35 - 31+20	2	9.4
31+20 - 31+35	3	2.8
31+35 - 34+40	4	67.8
34+40 - 34+55	2	1.7
34+55 - 34+80	4	5.6
36+60 - 37+40	2	8.9
38+05 - 38+20	2	1.7
38+20 - 38+40	3	3.7
38+40 - 42+00	4	80.0

PERMANENT DITCH LINING RIGHT		
STATION TO STATION	CLASS	CU. YD.
27+00 - 28+30	4	28.9

PERMANENT DITCH LINING LEFT		
STATION TO STATION	CLASS	CU. YD.
42+00 - 50+30	4	184.4
50+70 - 52+60	4	42.2
53+25 - 58+00	3	88.0

SILT FENCE		
STATION TO STATION	LENGTH	SIDE
42+00 - 50+68	918'	RT
50+78 - 50+79	68'	RT
52+64 - 52+97	34'	RT
54+12 - 58+00	458'	RT



SILT CHECKS		
STATION	OFFSET	SIDE
42+10	20'	LT
43+60	17'	LT
45+10	17'	LT
46+60	21'	LT
48+10	27'	LT
49+60	57'	LT
49+85	69'	LT

SILT CHECKS		
STATION	OFFSET	SIDE
52+00	17'	LT
52+55	17'	RT
52+60	25'	LT
54+10	17'	LT
55+60	17'	LT
57+10	17'	LT

PERMANENT DITCH LINING RIGHT		
STATION TO STATION	CLASS	CU. YD.
50+85 - 52+25	4	31.1
52+25 - 52+63	3	7.0

EROSION CONTROL LEGEND	
SILT FENCE	—xx—xx
SILT CHECKS (BALE; FIVE PER LOCATION)	■
PERMANENT PLACED RIP RAP (© INLETS & OUTLETS)	■
PERMANENT DITCH LINING (WIDTH VARIES, 1' DEEP RIP RAP)	■
SEDIMENT TRAPS	■

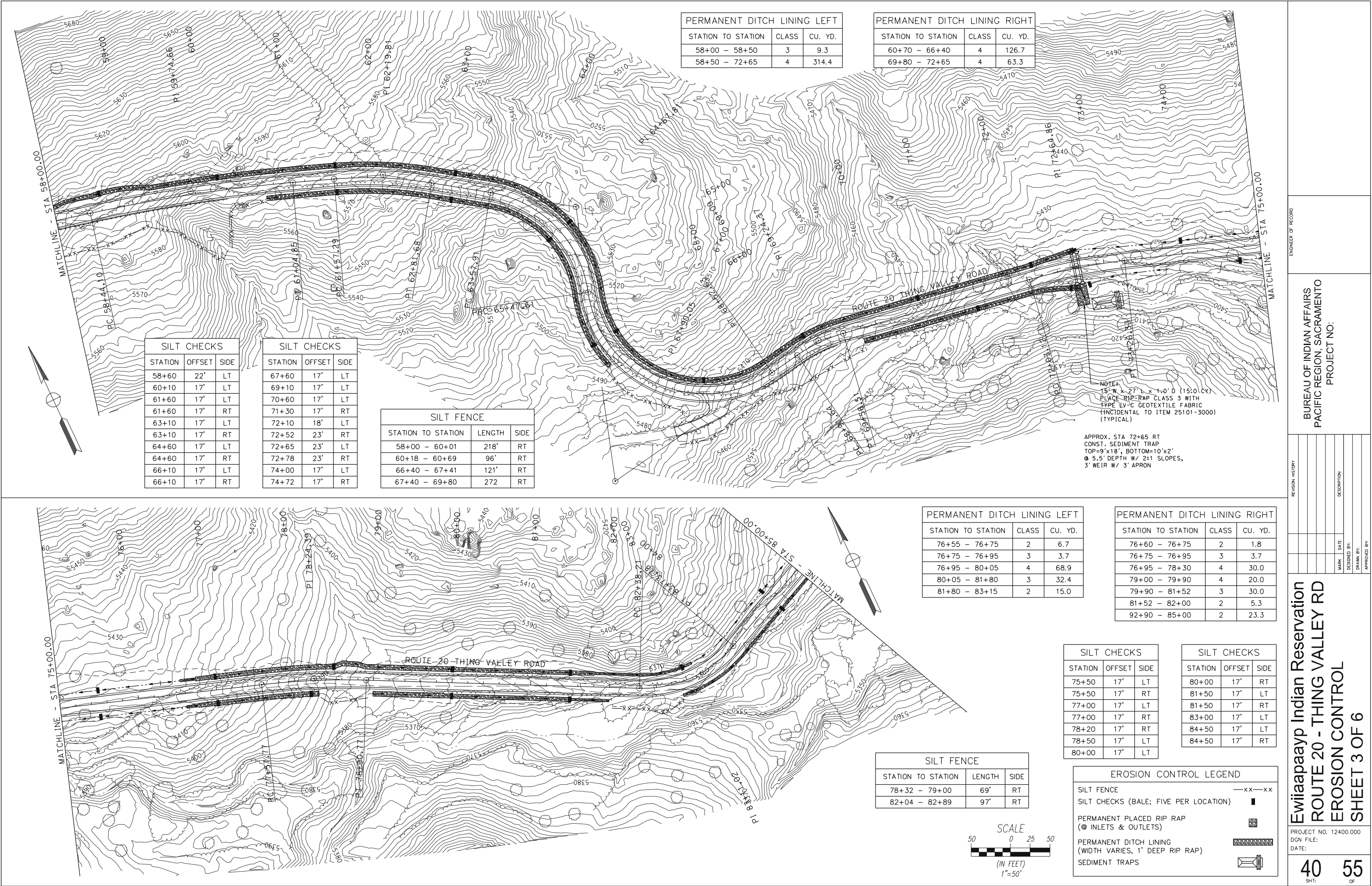
BUREAU OF INDIAN AFFAIRS  
PACIFIC REGION, SACRAMENTO  
PROJECT NO:

Ewilaapaayp Indian Reservation  
ROUTE 20 - THING VALLEY RD  
EROSION CONTROL  
SHEET 2 OF 6

PROJECT NO. 12400.000  
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DATE:

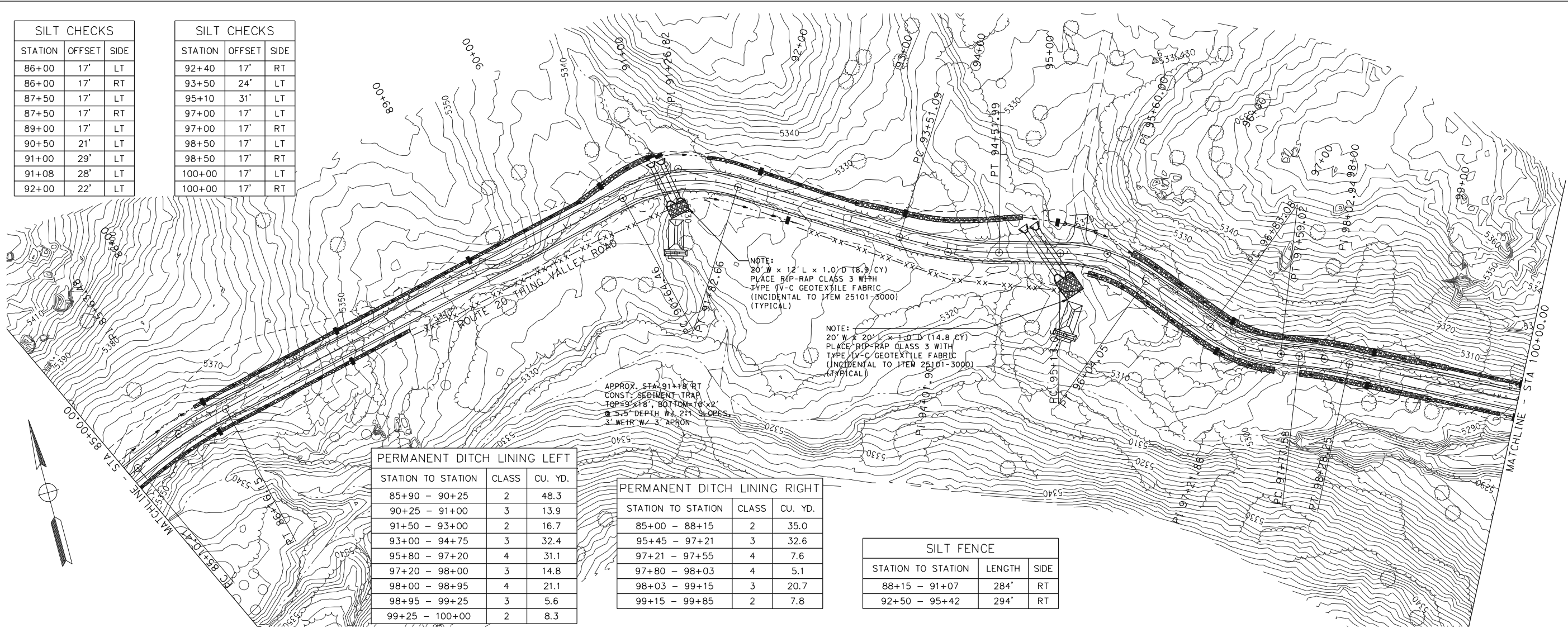
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OF



SILT CHECKS		
STATION	OFFSET	SIDE
86+00	17'	RT
86+00	17'	LT
87+50	17'	LT
87+50	17'	RT
89+00	17'	LT
90+50	21'	LT
91+00	29'	LT
91+08	28'	LT
92+00	22'	LT

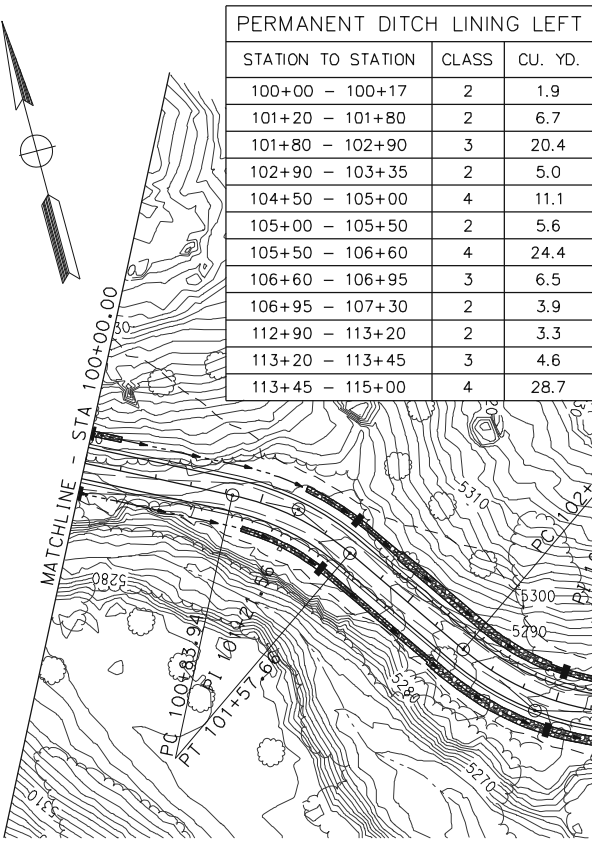
SILT CHECKS		
STATION	OFFSET	SIDE
92+40	17'	RT
93+50	24'	LT
95+10	31'	LT
97+00	17'	LT
97+00	17'	RT
98+50	17'	LT
98+50	17'	RT
100+00	17'	LT
100+00	17'	RT



PERMANENT DITCH LINING LEFT		
STATION TO STATION	CLASS	CU. YD.
85+90 - 90+25	2	48.3
90+25 - 91+00	3	13.9
91+50 - 93+00	2	16.7
93+00 - 94+75	3	32.4
95+80 - 97+20	4	31.1
97+20 - 98+00	3	14.8
98+00 - 98+95	4	21.1
98+95 - 99+25	3	5.6
99+25 - 100+00	2	8.3

PERMANENT DITCH LINING RIGHT		
STATION TO STATION	CLASS	CU. YD.
85+00 - 88+15	2	35.0
95+45 - 97+21	3	32.6
97+21 - 97+55	4	7.6
97+80 - 98+03	4	5.1
98+03 - 99+15	3	20.7
99+15 - 99+85	2	7.8

SILT FENCE		
STATION TO STATION	LENGTH	SIDE
88+15 - 91+07	284'	RT
92+50 - 95+42	294'	RT



PERMANENT DITCH LINING LEFT		
STATION TO STATION	CLASS	CU. YD.
100+00 - 100+17	2	1.9
101+20 - 101+80	2	6.7
101+80 - 102+90	3	20.4
102+90 - 103+35	2	5.0
104+50 - 105+00	4	11.1
105+00 - 105+50	2	5.6
105+50 - 106+60	4	24.4
106+60 - 106+95	3	6.5
106+95 - 107+30	2	3.9
112+90 - 113+20	2	3.3
113+20 - 113+45	3	4.6
113+45 - 115+00	4	28.7

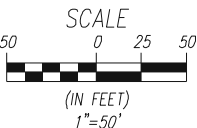
SILT CHECKS		
STATION	OFFSET	SIDE
101+50	17'	LT
101+50	17'	RT
103+00	17'	LT
103+00	17'	RT
104+50	17'	LT
104+50	17'	RT
106+00	17'	LT
106+00	17'	RT
107+50	17'	LT

SILT CHECKS		
STATION	OFFSET	SIDE
109+00	17'	LT
109+00	17'	RT
110+50	17'	LT
110+50	17'	RT
112+00	17'	LT
112+00	17'	RT
113+50	17'	LT
114+96	43'	LT

SILT FENCE		
STATION TO STATION	LENGTH	SIDE
106+55 - 107+08	56'	RT
112+20 - 115+00	284'	RT

PERMANENT DITCH LINING RIGHT		
STATION TO STATION	CLASS	CU. YD.
100+94 - 102+30	2	15.1
102+30 - 103+25	3	17.6
103+25 - 103+80	2	6.1
104+55 - 104+80	2	2.8
104+80 - 105+20	3	7.4
105+20 - 106+55	4	30.0
107+10 - 107+25	2	1.7

EROSION CONTROL LEGEND	
SILT FENCE	—xx—xx
SILT CHECKS (BALE; FIVE PER LOCATION)	■
PERMANENT PLACED RIP RAP (@ INLETS & OUTLETS)	■
PERMANENT DITCH LINING (WIDTH VARIES, 1' DEEP RIP RAP)	■
SEDIMENT TRAPS	■



ENGINEER OF RECORD

BUREAU OF INDIAN AFFAIRS  
PACIFIC REGION, SACRAMENTO  
PROJECT NO:

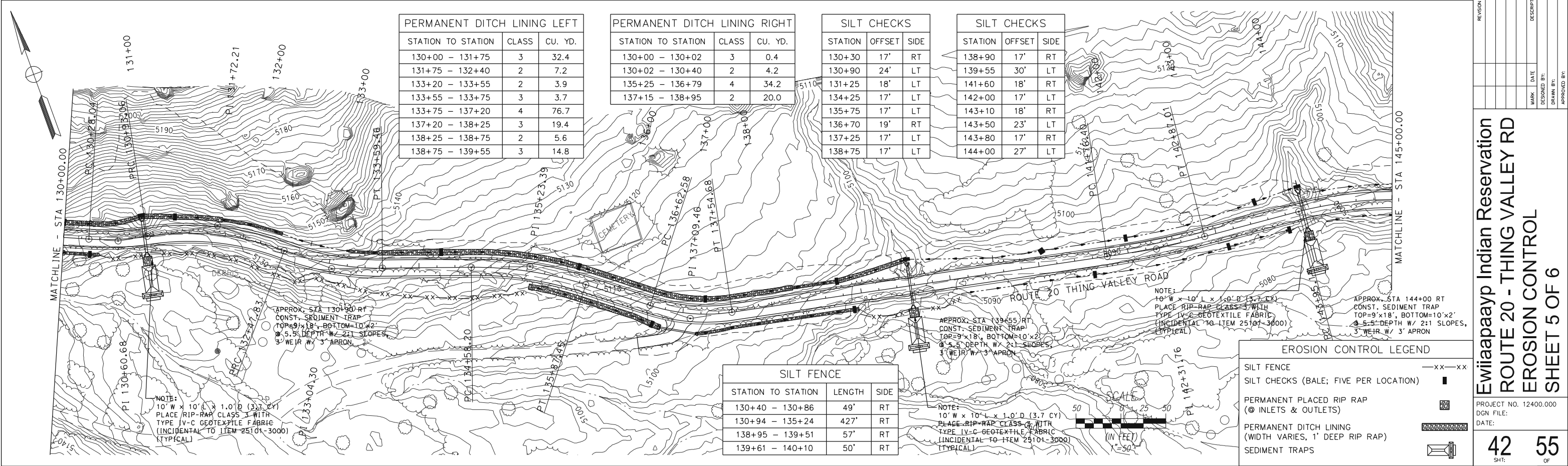
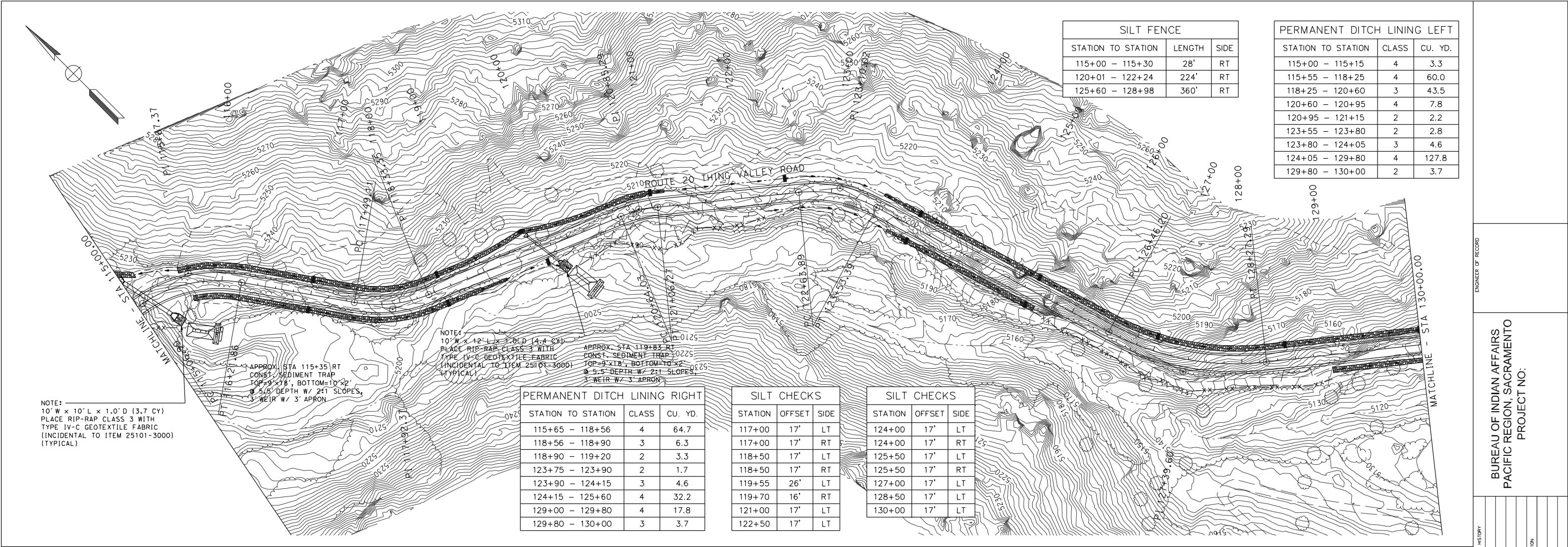
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Ewiaapaayp Indian Reservation  
ROUTE 20 - THING VALLEY RD  
EROSION CONTROL  
SHEET 4 OF 6

PROJECT NO. 12400.000  
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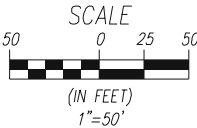
BUREAU OF INDIAN AFFAIRS  
PACIFIC REGION, SACRAMENTO  
PROJECT NO.:

REVISION HISTORY

MARK	DATE	DESCRIPTION

Ewiaapaayp Indian Reservation  
ROUTE 20 - THING VALLEY RD  
EROSION CONTROL  
SHEET 5 OF 6

PROJECT NO. 12400.000  
DGN FILE:  
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SHT: OF



PERMANENT DITCH LINING LEFT		
STATION TO STATION	CLASS	CU. YD.
145+80 - 146+75	2	10.6
146+75 - 148+75	3	37.0
148+75 - 149+60	4	18.9
149+60 - 150+50	3	16.7
150+50 - 152+75	2	25.0

SILT CHECKS		
STATION	OFFSET	SIDE
145+75	17'	LT
145+75	17'	RT
147+25	17'	LT
148+75	17'	LT
149+60	33'	LT
150+20	20'	LT
151+70	17'	LT

## EROSION CONTROL LEGEND

SILT FENCE	— x x — x x —
SILT CHECKS (BALE; FIVE PER LOCATION)	■
PERMANENT PLACED RIP RAP (@ INLETS & OUTLETS)	■
PERMANENT DITCH LINING (WIDTH VARIES, 1' DEEP RIP RAP)	■
SEDIMENT TRAPS	■