0660DEL_P210

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

PROJ. REFERENCE NO.	SHEET NO.
P-4405 K	X-1A

CROSS-SECTION SUMMARY

NOTE: EMBANKMENT COLUMN DOES NOT INCLUDE BACKFILL FOR UNDERCUT

Approximate quantities only. Clearing and Grubbing, Unclassified Excavation, Borrow Excavation, Fine Grading, and Removal of Existing Pavement will be paid for at the contract lump sum price for "Grading."

Station L	Uncl. Exc. (cu. yd.)	Embt (cu. yd.)
10+50.00	0	0
11+00.00	77	39
11+50.00	69	30
12+00.00	25	24
12+50.00	29	15
13+00.00	42	2
13+50.00	55	1
14+00.00	40	5
14+50.00	28	5
15+00.00	74	1
15+50.00	166	2
16+00.00	150	26
16+50.00	63	109
17+00.00	40	236
17+50.00	67	226
18+00.00	175	104
18+50.00	173	30
19+00.00	113	2
19+50.00	139	1
20+00.00	120	0
20+67.25	45	1

Station L	Uncl. Exc. (cu. yd.)	Embt (cu. yd.)
20+67.25	0	0
21+00.00	21	17
21+50.00	27	25
22+00.00	54	0
22+50.00	76	0
23+00.00	62	7
23+50.00	31	26
24+00.00	28	76
24+50.00	24	113
25+00.00	28	59
25+50.00	56	3
26+00.00	50	2
26+50.00	25	7
27+00.00	11	41
27+50.00	3	90
28+00.00	13	93
28+50.00	51	40
29+00.00	90	2
29+50.00	83	3
30+00.00	41	18
30+50.00	15	80
31+00.00	16	177

Station L	Uncl. Exc. (cu. yd.)	Embt (cu. yd.)
31+00.00	0	0
31+50.00	18	152

Station L	Uncl. Exc. (cu. yd.)	Embt (cu. yd.)
32+00.00	57	40
32+50.00	183	0
33+00.00	316	0
33+50.00	325	0
34+00.00	167	1
34+50.00	28	34
35+00.00	13	41
35+50.00	36	8
36+00.00	43	0
36+50.00	20	54
37+00.00	31	120
37+50.00	65	138
38+00.00	90	238
38+50.00	129	361
39+00.00	224	425
39+50.00	179	376
40+00.00	35	206
40+50.00	18	61
41+00.00	20	7
41+50.00	8	29
42+00.00	15	24
42+50.00	15	7
43+00.00	7	8
43+50.00	7	7
44+00.00	26	3
44+50.00	29	6
45+00.00	13	11
45+50.00	18	33
46+00.00	25	27
46+50.00	20	33
47+00.00	16	91
47+50.00	14	96
48+00.00	21	44
48+50.00	35	21
49+00.00	25	48
49+50.00	22	55
50+00.00	59	29
50+50.00	57	30
51+00.00	10	202
51+50.00	0	625

Station L	Uncl. Exc. (cu. yd.)	Embt (cu. yd.)
51+50.00	0	0
52+00.00	18	742
52+50.00	31	515
53+00.00	28	293
53+50.00	84	253
54+00.00	133	472

Station Dr1	Uncl. Exc. (cu. yd.)	Embt (cu. yd.)
9+72.87	0	0
10+00.00	63	31
10+50.00	160	4
11+00.00	229	40
11+50.00	308	71
12+00.00	229	31

Station Dr2	Uncl. Exc. (cu. yd.)	Embt (cu. yd.)
10+00.00	0	0
10+25.00	0	182
10+50.00	0	82
10+75.00	14	18
10+85.91	16	0

Station Y	Uncl. Exc. (cu. yd.)	Embt (cu. yd.)
12+58.43	0	0
12+74.00	28	0
12+96.00	74	0
13+11.75	24	0

Station Ey1	Uncl. Exc. (cu. yd.)	Embt (cu. yd.)
13+00.00	0	0
13+50.00	1	26
14+00.00	2	70
14+50.00	1	83
15+00.00	1	37
15+50.00	1	34
15+58.00	0	12
16+00.00	2	52
16+50.00	1	20

DGN 0660DEL_P210

0 2,5 5	PROJ. REFERENCE NO.	SHEET NO.
	P-4405 K	X-1

70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

650 645 640 635

2% 0.023 0.023 4%/2%

640.34

R/W EOT 639.06 R/W ESMT

11+50.00

650 645 640 635

2% 0.030 0.030 4% 2%

R/W 639.06 EOT EOT 635.85

11+00.00

650 645 640 635 630

2% 0.014 0.014 4% 2%

639.16

R/W EOT EOT 636.71

10+50.00

—L—

75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

2/18/2016
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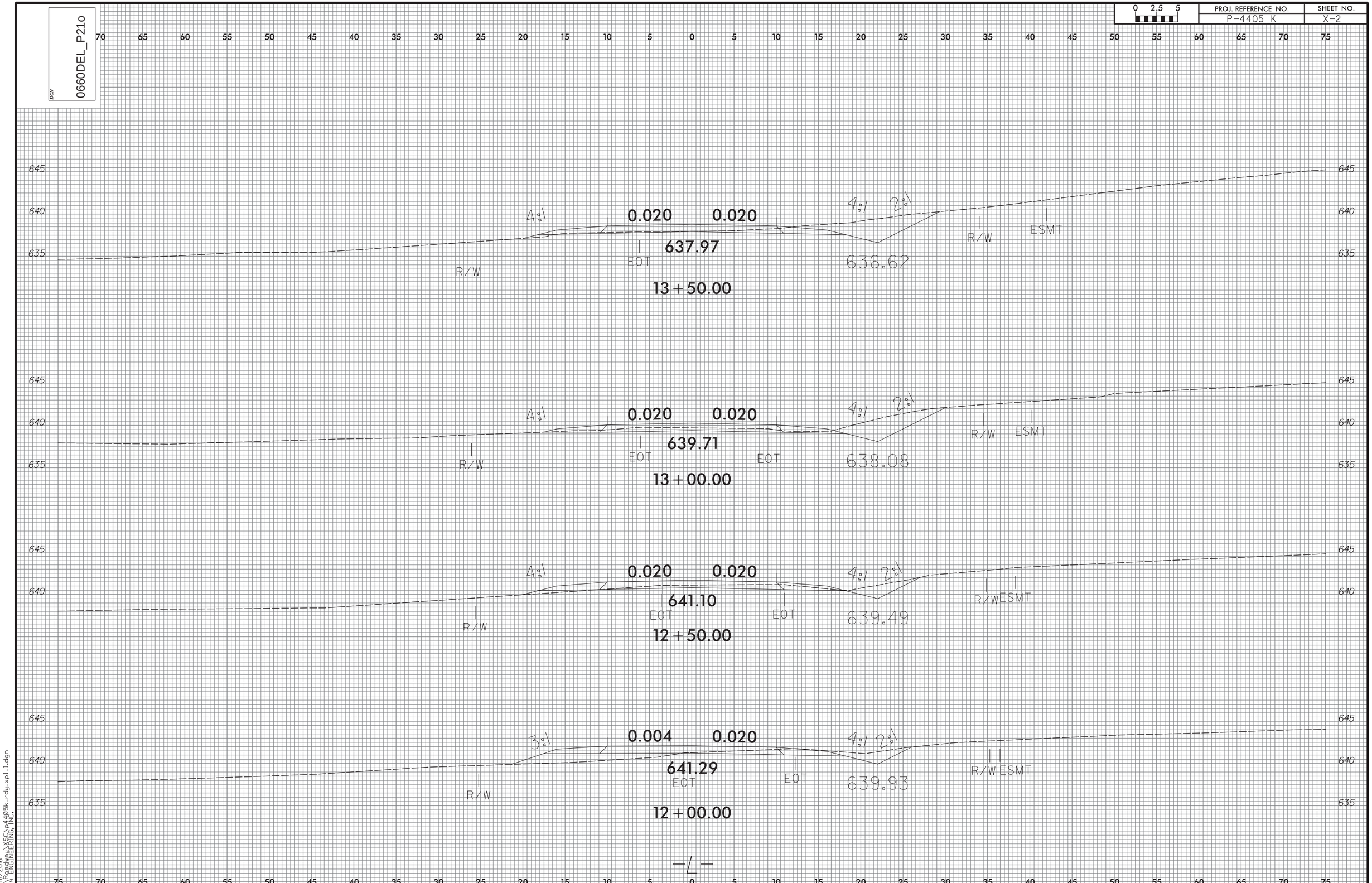
TCA ENGINEERING, INC.



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ICA ENGINEERING, INC.

DGN 0660DEL_P210

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	P-4405 K	X-3

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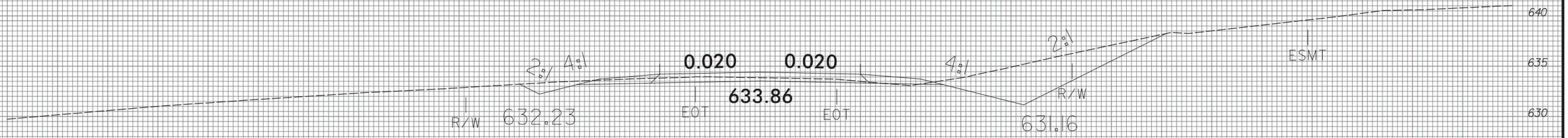
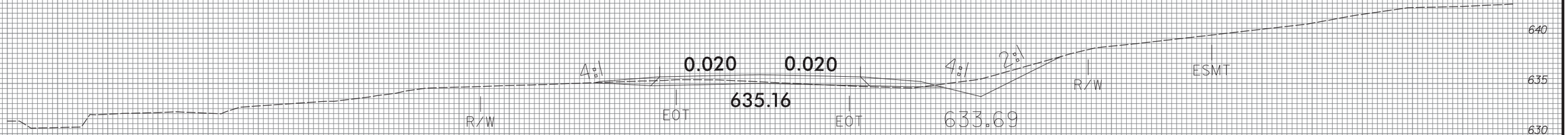
640 635 630 625 620



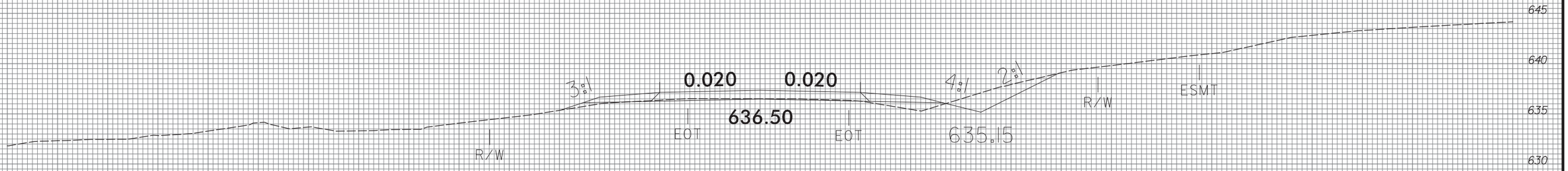
15+00.00

640 635 630 625



14+50.00

645 640 635 630



14+00.00

—L—

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2/18/2016
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CA ENGINEERING, INC.

DGN 0660DEL_P210

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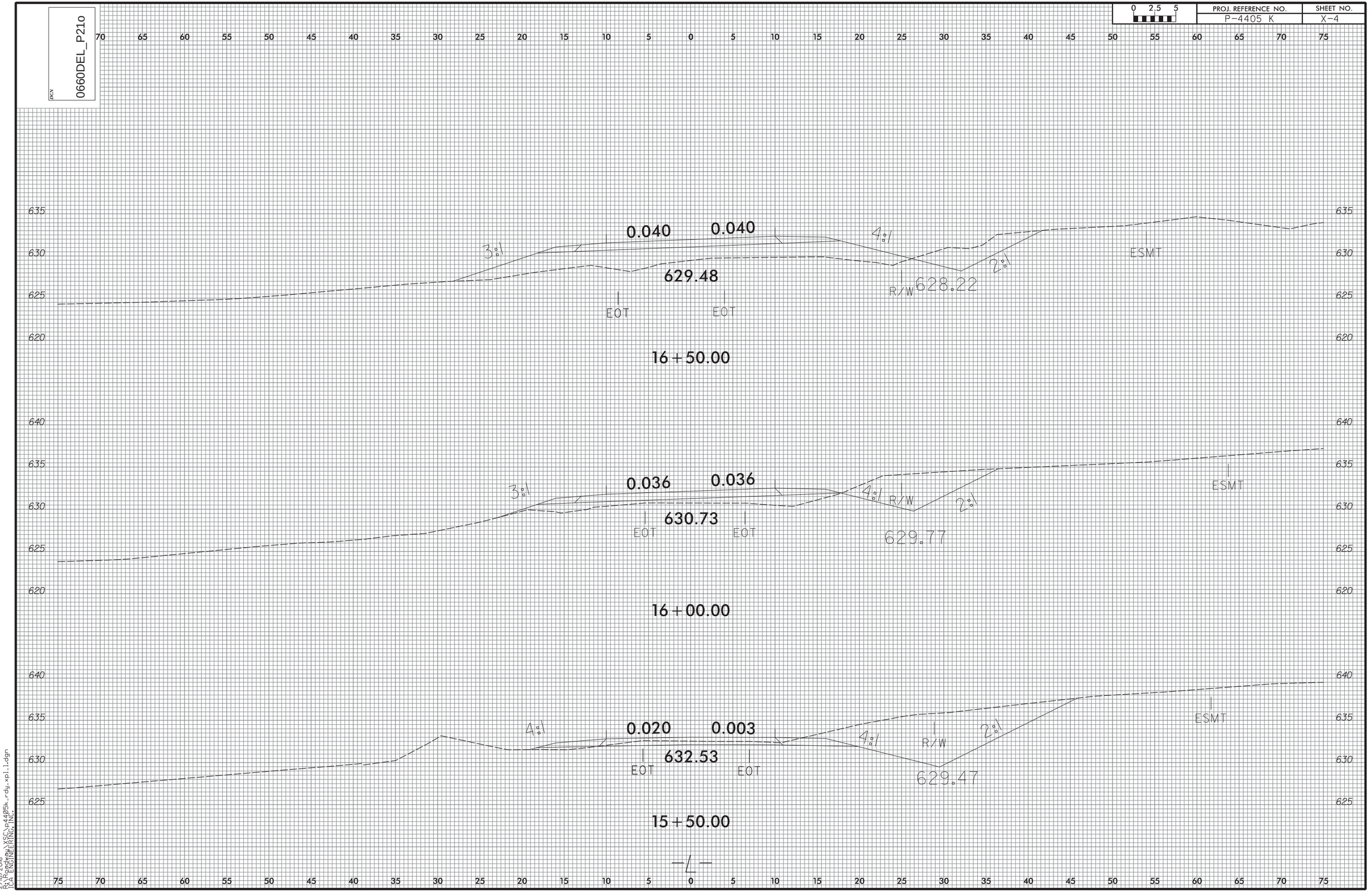
	P-4405 K	X-4



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TCA ENGINEERING, INC.

DGN 0660DEL_P210

0 2.5 5	PROJ. REFERENCE NO.	SHEET NO.
	P-4405 K	X-5

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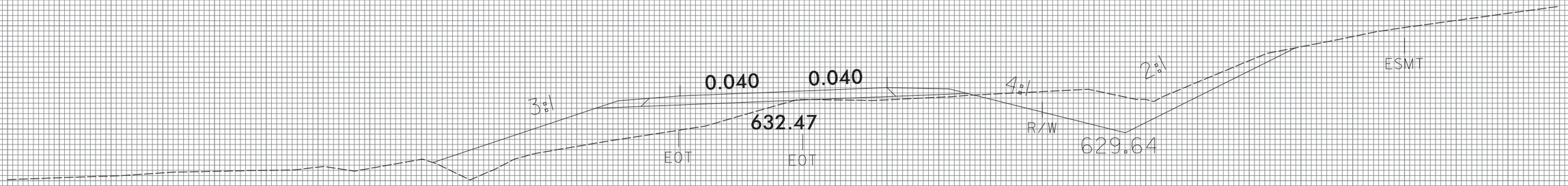
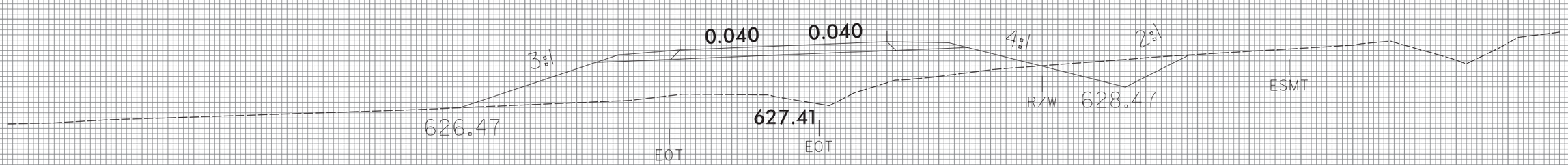
650 645 640 635 630 625 620



17+50.00



17+00.00

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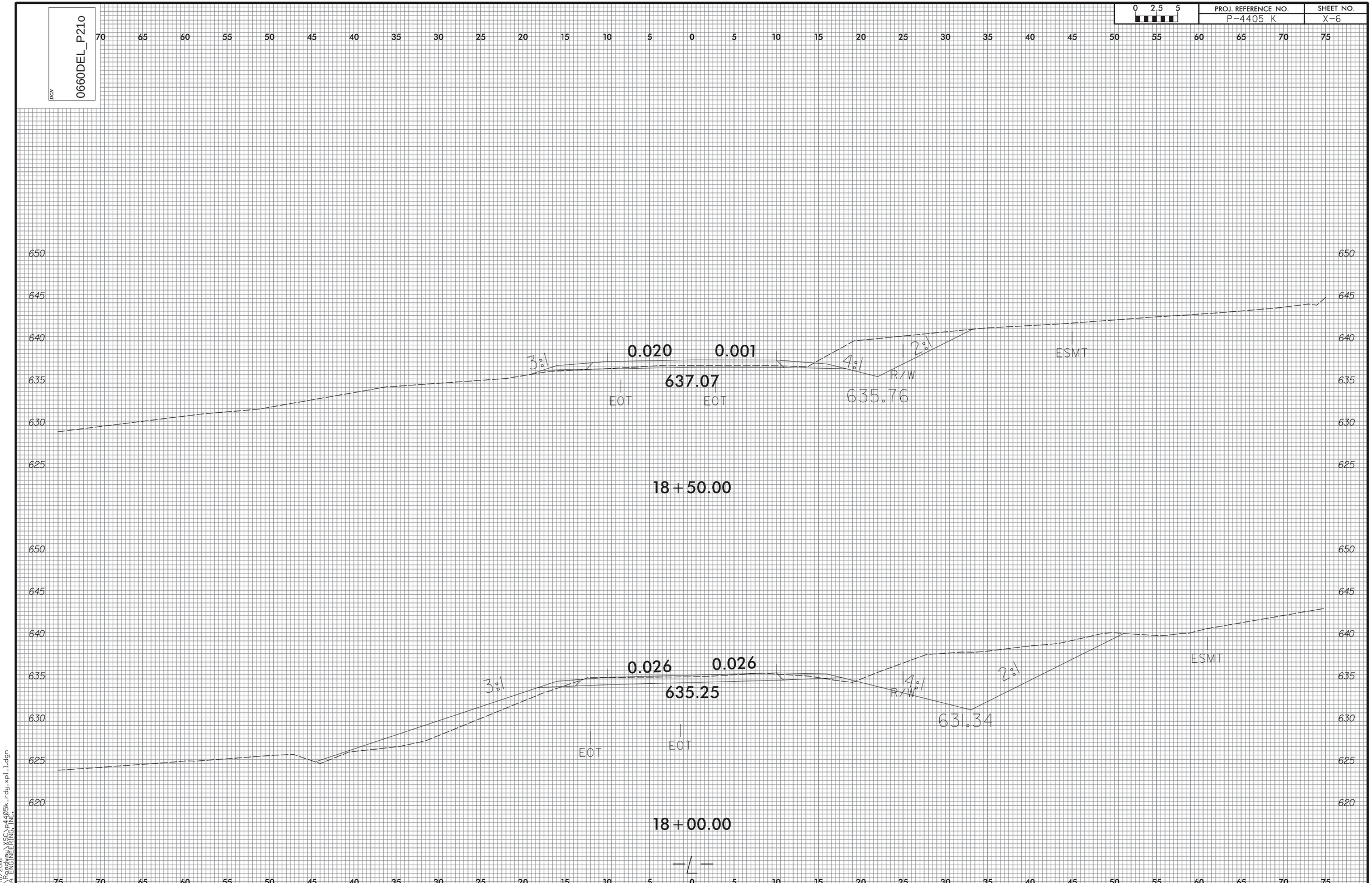
TCA ENGINEERING, INC.



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ICA ENGINEERING, INC.

DGN 0660DEL_P210

0 2.5 5	PROJ. REFERENCE NO.	SHEET NO.
	P-4405 K	X-7

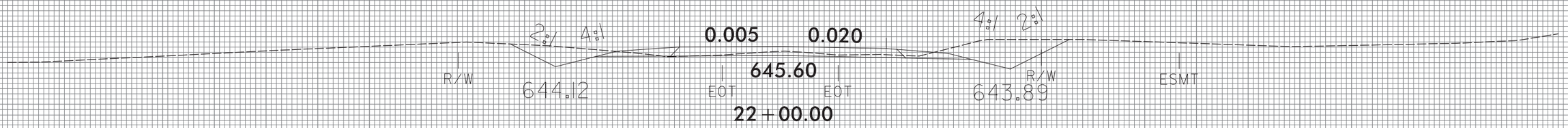
2/18/2016
P:\Projects\XSC\p4405k_rdy_xpl_1.dgn
CA ENGINEERING, INC.

0 2,5 5	PROJ. REFERENCE NO.	SHEET NO.
	P-4405 K	X-8

DGN 0660DEL_P21o

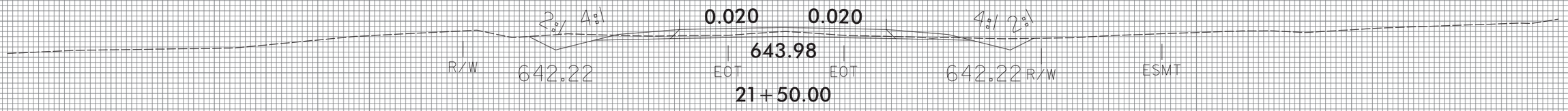
70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

650
645



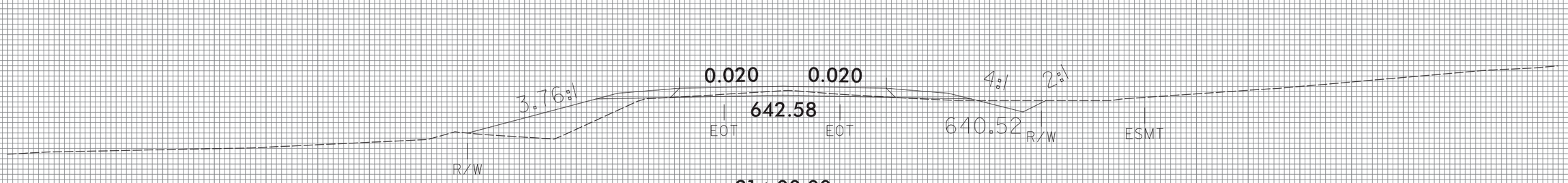
22+00.00

650
645
640



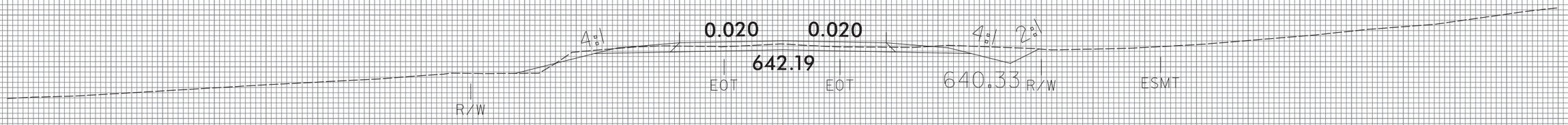
21+50.00

650
645
640
635



21+00.00

650
645
640
635



20+67.25

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75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

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CA ENGINEERING, INC.

DGN 0660DEL_P210

0 2,5 5	PROJ. REFERENCE NO.	SHEET NO.
	P-4405 K	X-9

70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

650 645 640 635

3% 4% 0.040 0.040 4% 2%

ESMT R/W EOT 642.96 EOT R/W 640.11 ESMT

24+00.00

650 645 640

4% 4% 0.040 0.040 4% 2%

EOT 643.42 EOT 642.49 R/W ESMT

23+50.00

650 645

2% 4% 0.040 0.040 4% 2%

R/W 644.06 EOT 645.25 EOT 643.79 R/W ESMT

23+00.00

650 645

2% 4% 0.022 0.022 4% 2%

R/W 645.27 EOT 646.39 EOT 644.58 R/W ESMT

22+50.00

℄

75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

2/18/2016
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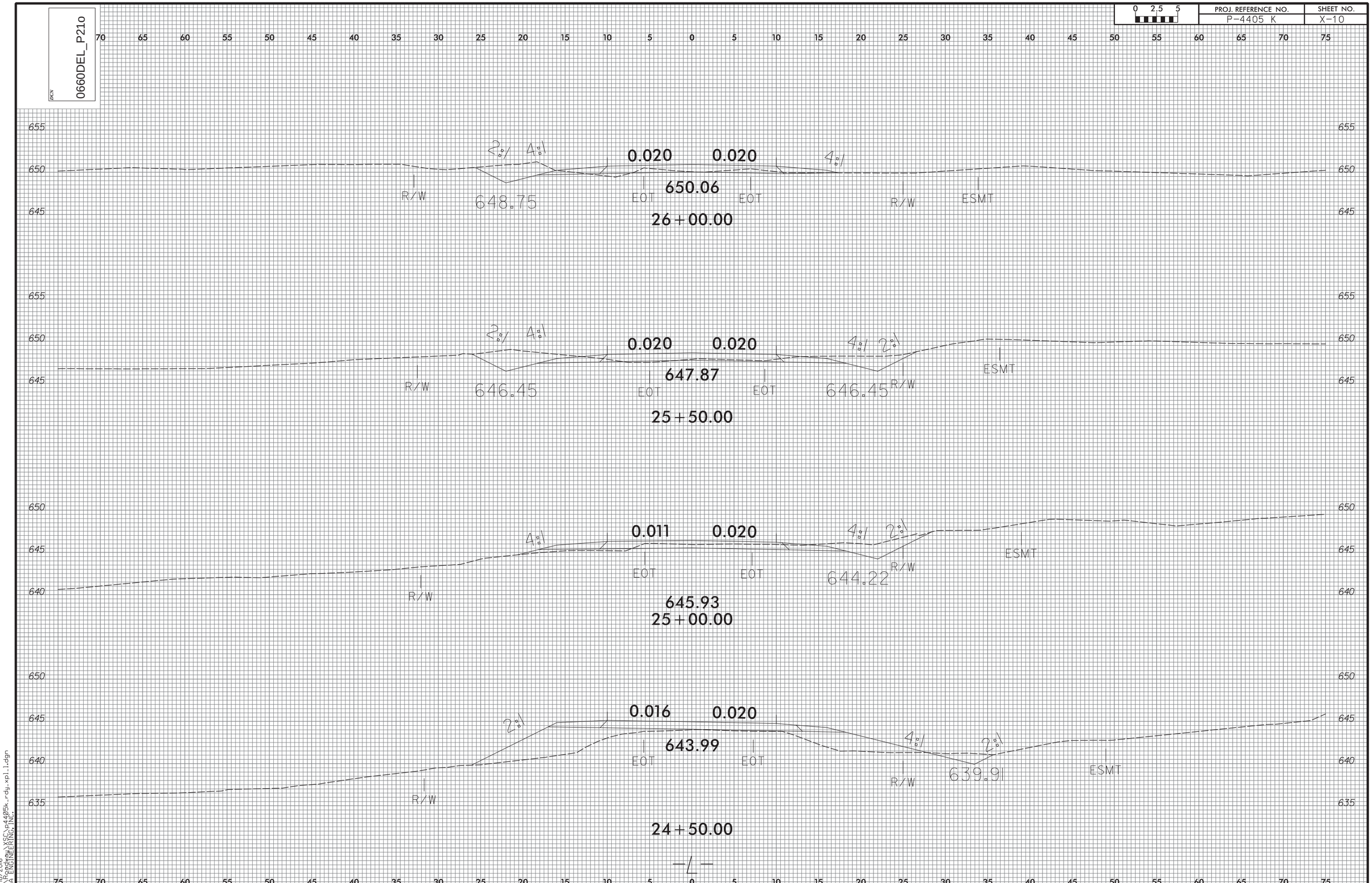
TCA ENGINEERING, INC.



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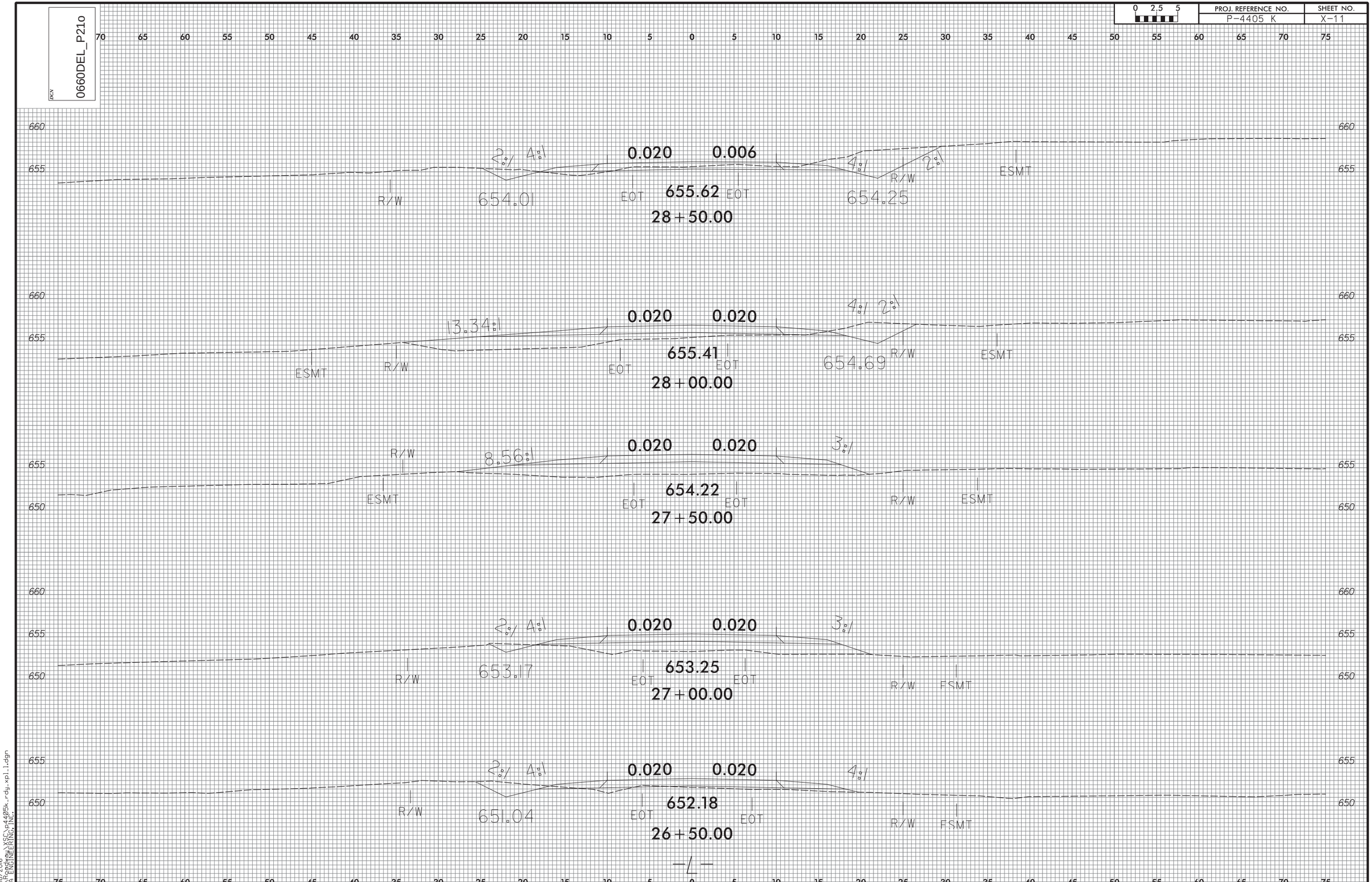
ICA ENGINEERING, INC.



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ICA ENGINEERING, INC.

0 2.5 5	PROJ. REFERENCE NO.	SHEET NO.
	P-4405 K	X-12

DGN 0660DEL_P210

70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

650
645

2% 4:1 | 0.040 | 0.040 | 2%

PUE | R/W 646.54 | 646.20 | R/W | ESMT

30+50.00

655
650
645

2% 4:1 | 0.040 | 0.040 | 3%

PUE | R/W 647.83 | 649.11 | R/W | EOT | ESMT | EOT

30+00.00

660
655
650

2% 4:1 | 0.040 | 0.040 | 4% 2:1

ESMT | R/W | EOT 649.79 | 651.70 | EOT | R/W 650.95 | PUE | ESMT

29+50.00

660
655
650

2% 4:1 | 0.022 | 0.022 | 4% 2:1

R/W | EOT 652.36 | 654.21 | EOT | R/W 653.05 | ESMT

29+00.00

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75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

2/18/2016
R:\Roadway\XSC\p4405k_rdy_xpl_1.dgn
CA ENGINEERING, INC.

DGN 0660DEL_P21o

0 2,5 5	PROJ. REFERENCE NO.	SHEET NO.
	P-4405 K	X-13

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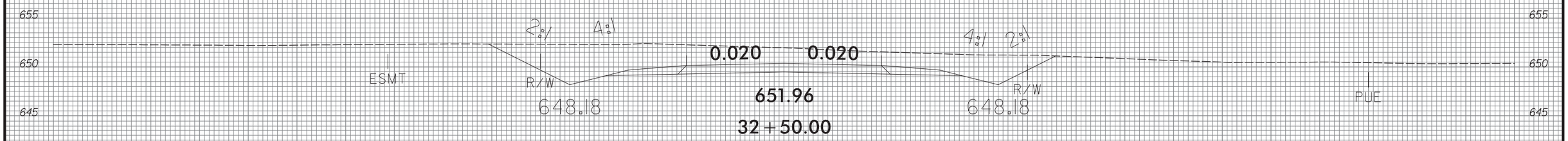

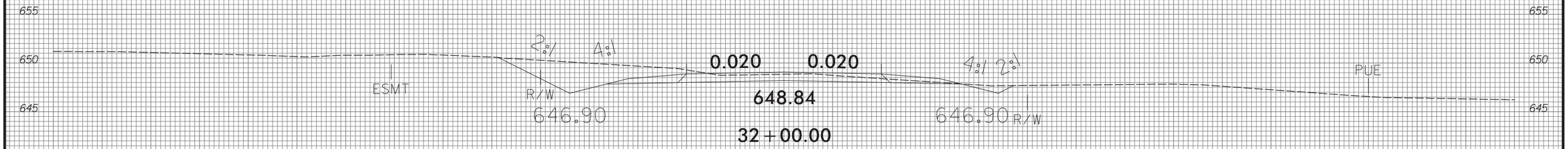

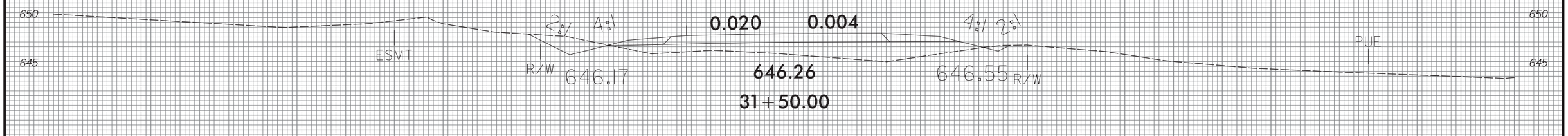

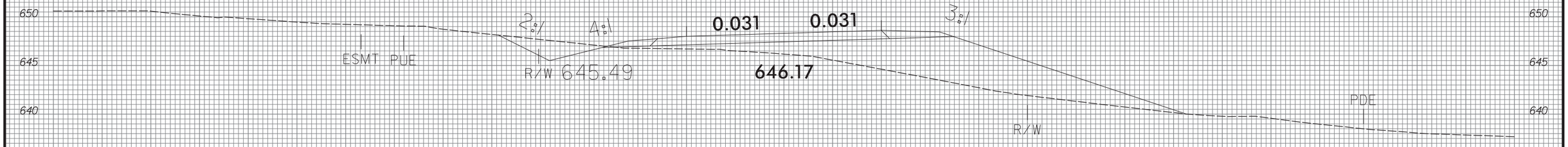

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2/18/2016
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CA ENGINEERING, INC.

0 2.5 5	PROJ. REFERENCE NO.	SHEET NO.
	P-4405 K	X-14

DGN 0660DEL_P210

70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

650 645 640

2% 4% 0.020 0.020 4%

PDE 64.48 R/W

642.85
34+50.00

R/W PUE

650 645

2% 4% 0.020 0.020 4%

PDE R/W 645.89

647.33
34+00.00

645.89 R/W PUE

655 650 645

ESMT 2% 4% 0.020 0.020 4% 2%

R/W 647.92

652.06
33+50.00

R/W 647.92 PUE

655 650 645

ESMT 2% 4% 0.020 0.020 4% 2%

R/W 648.69

653.49
33+00.00

R/W 648.69 PUE

—/—

75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

2/18/2016
R:\Projects\XSC\P4405k_rdy_xpl1.dgn
RCA ENGINEERING, INC.

DGN 0660DEL_P21o

0 2,5 5	PROJ. REFERENCE NO.	SHEET NO.
	P-4405 K	X-15

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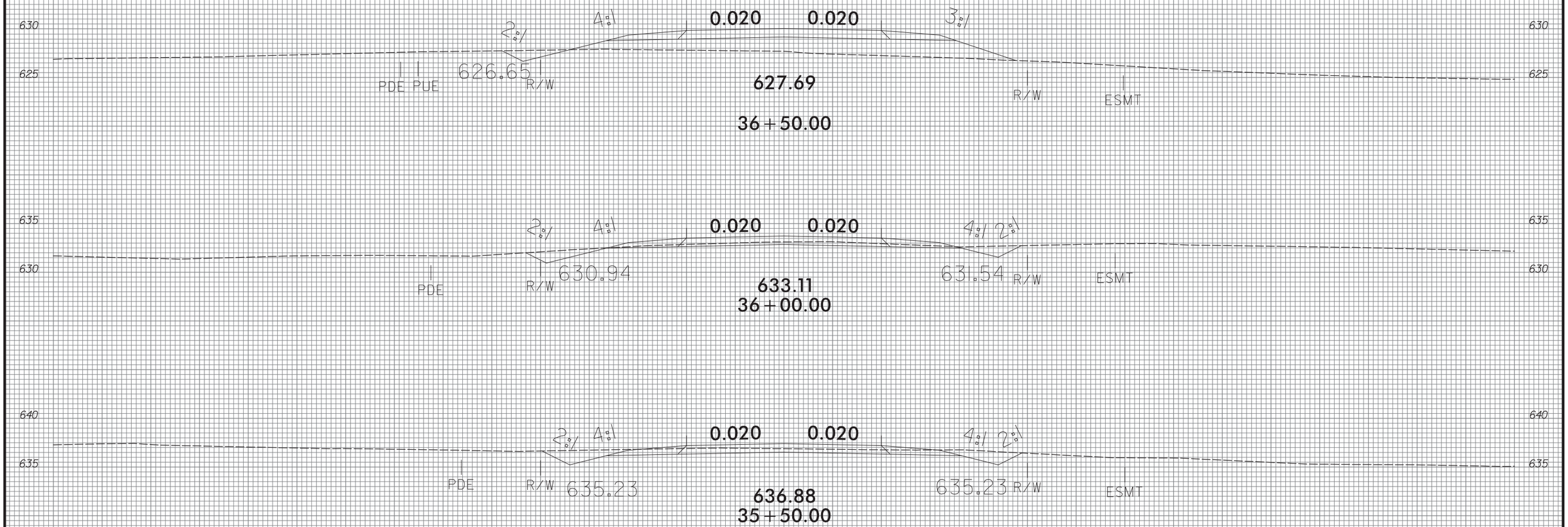

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TCA ENGINEERING, INC.

DGN 0660DEL_P210

0 2.5 5	PROJ. REFERENCE NO.	SHEET NO.
	P-4405 K	X-16

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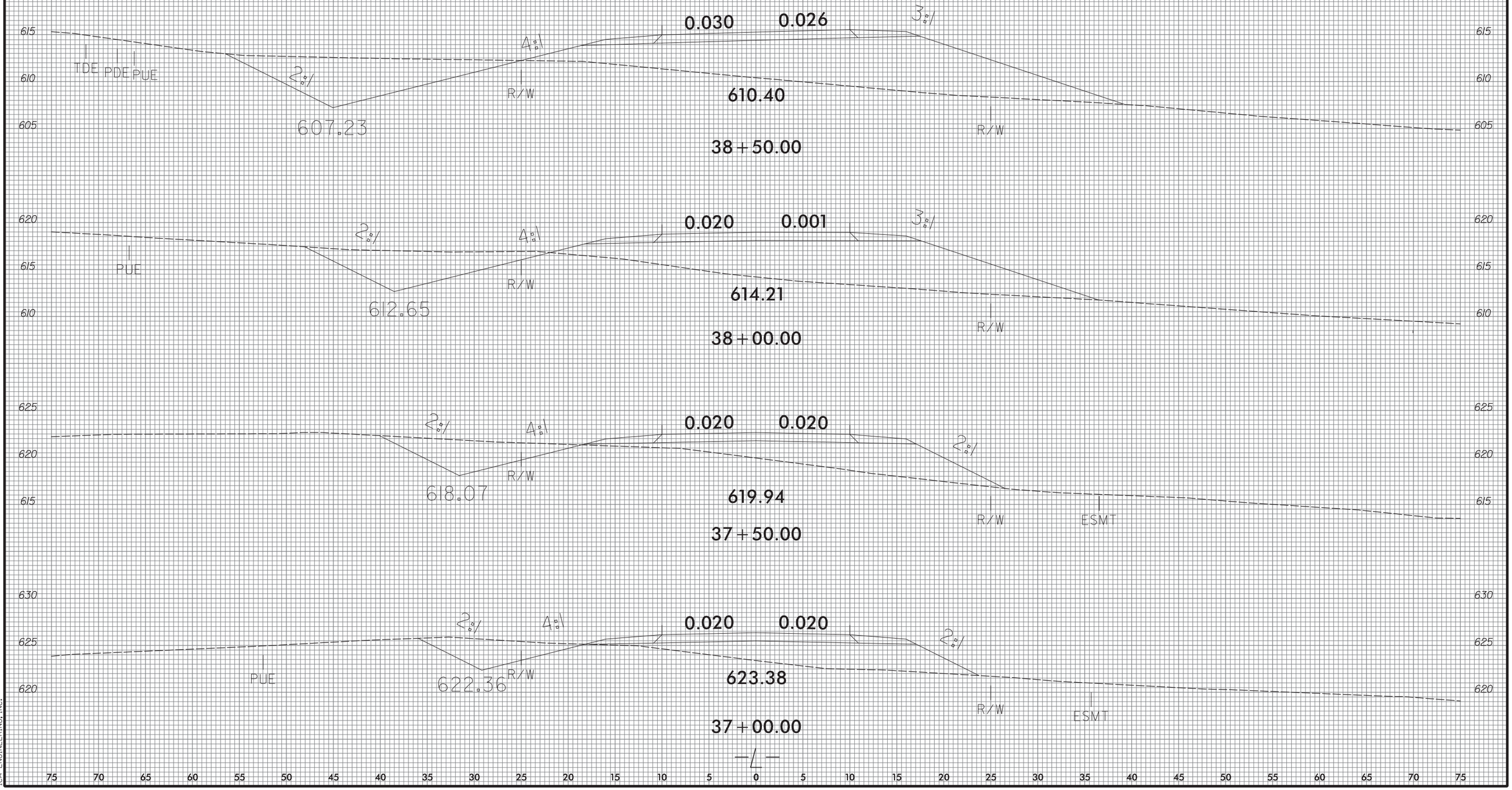

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2/18/2016
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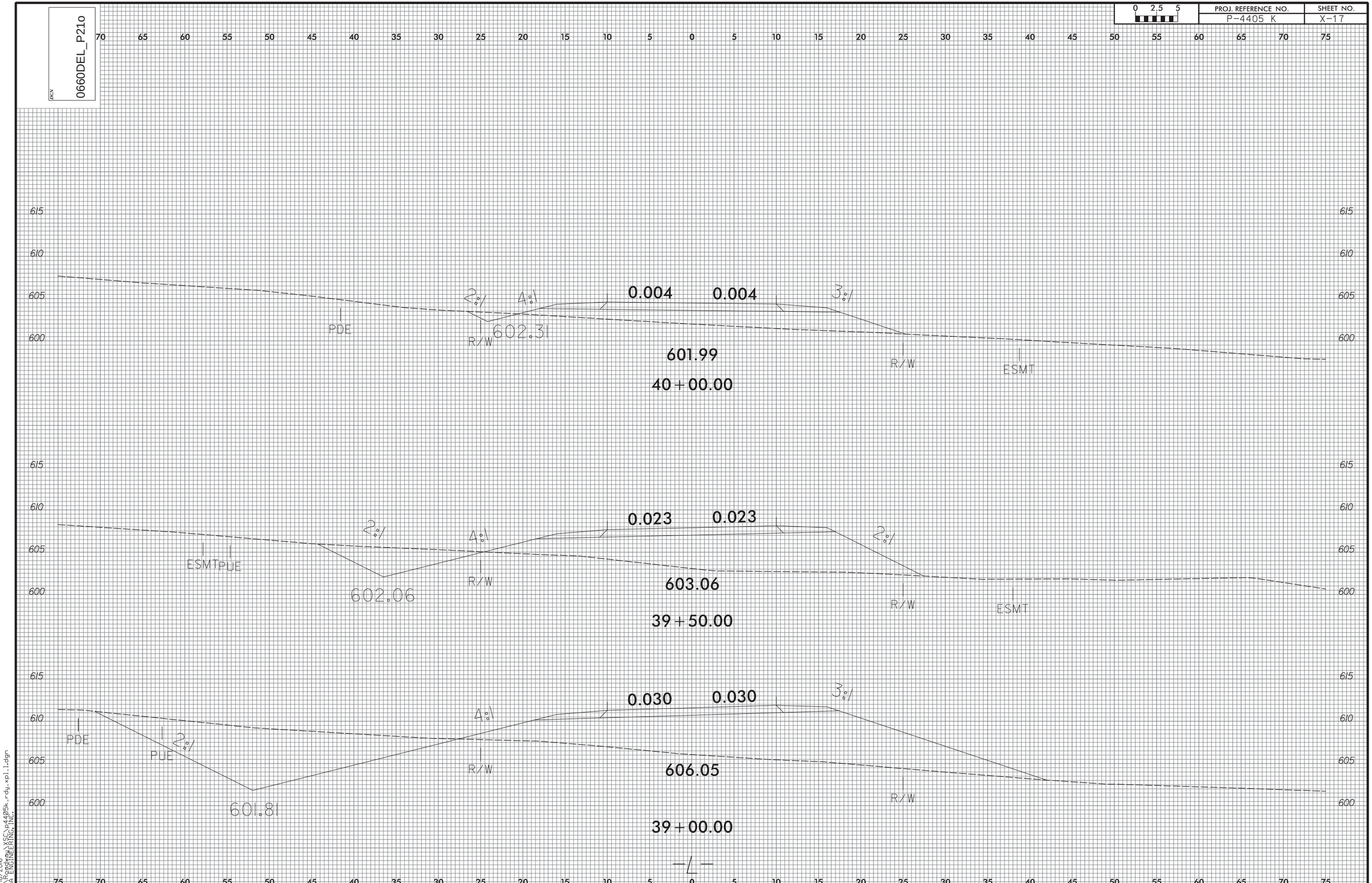
TCA ENGINEERING, INC.



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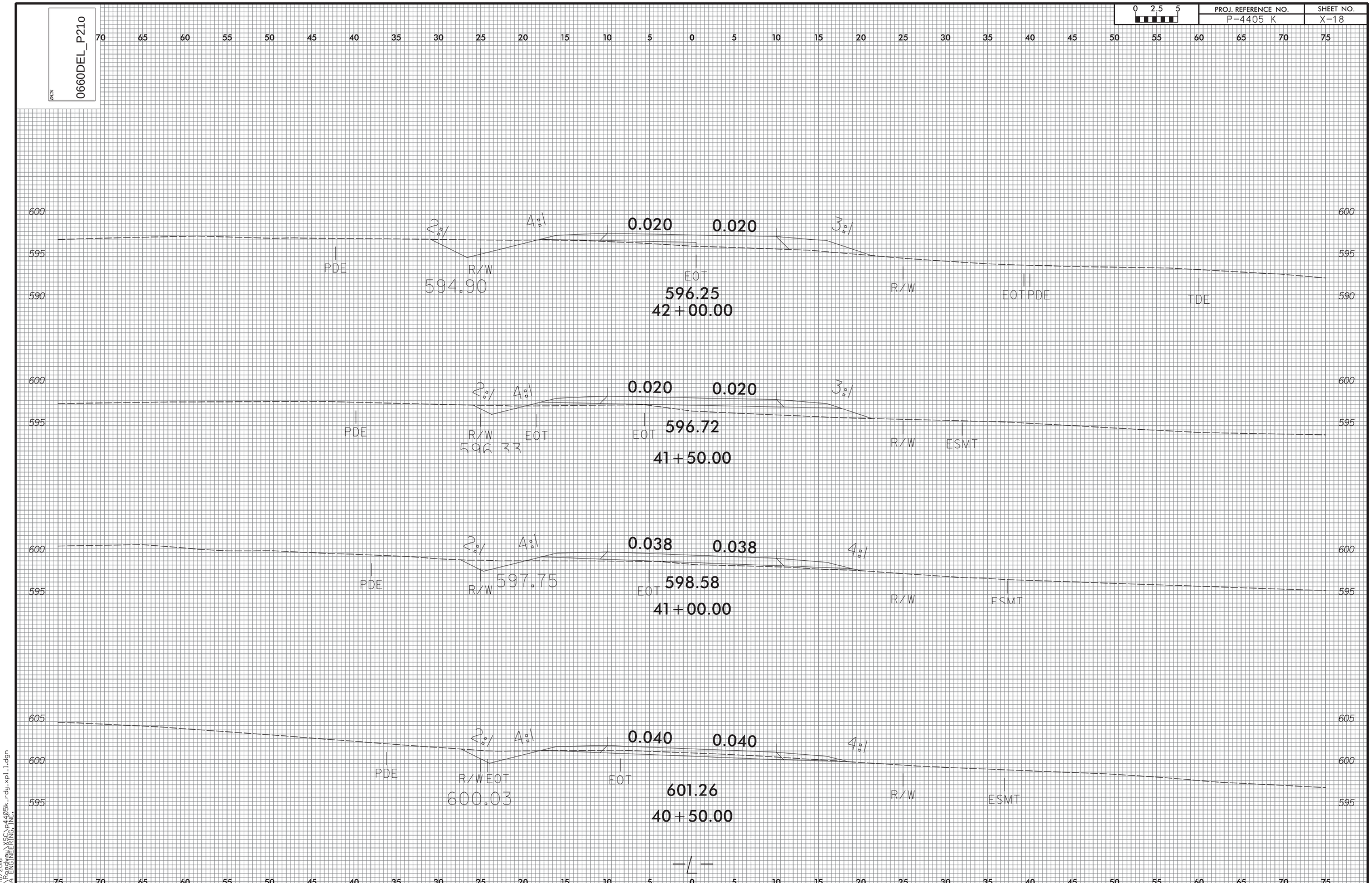
ICA ENGINEERING, INC.



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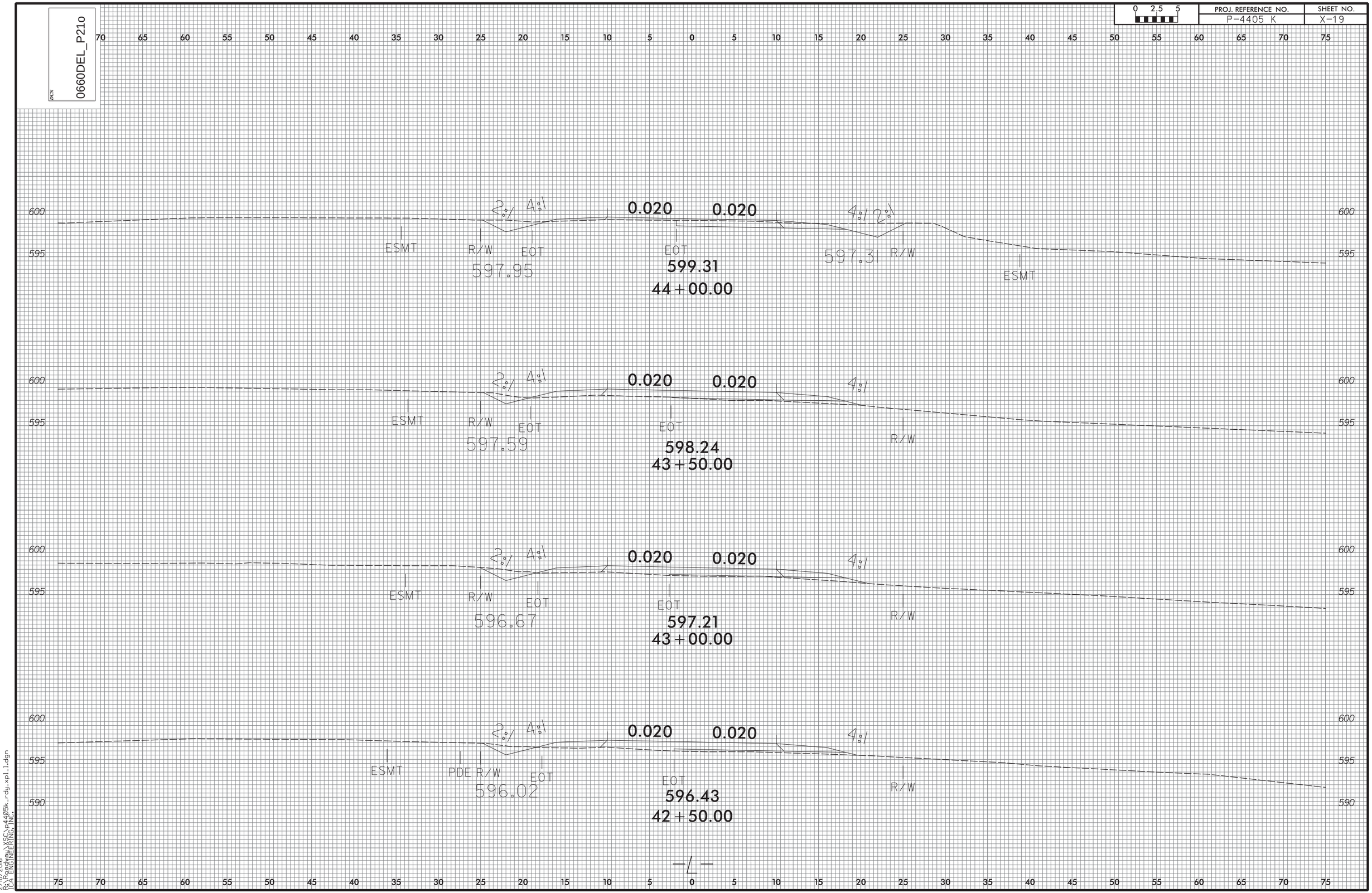

2/18/2016
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ICA ENGINEERING, INC.

0 2.5 5	PROJ. REFERENCE NO.	SHEET NO.
	P-4405 K	X-20

DGN 0660DEL_P21o

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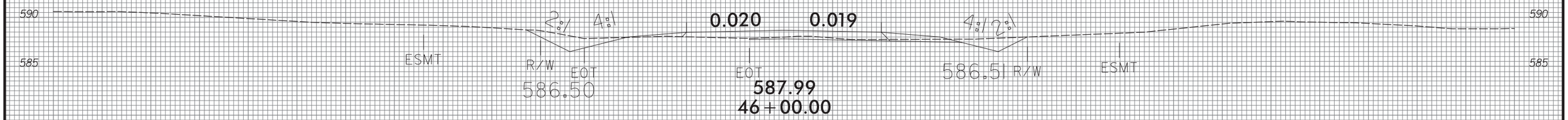

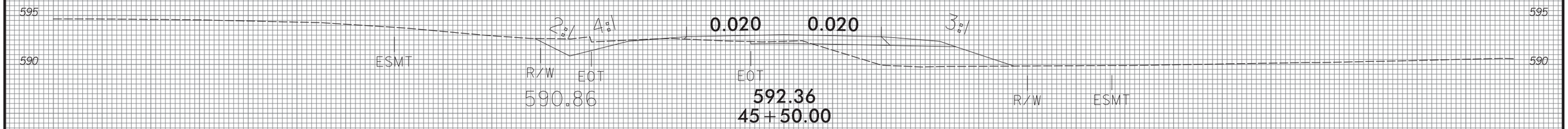

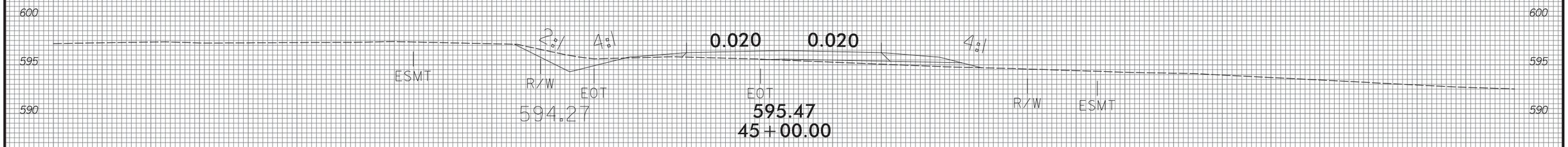

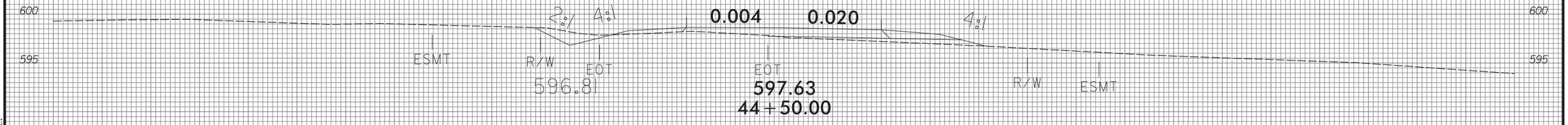

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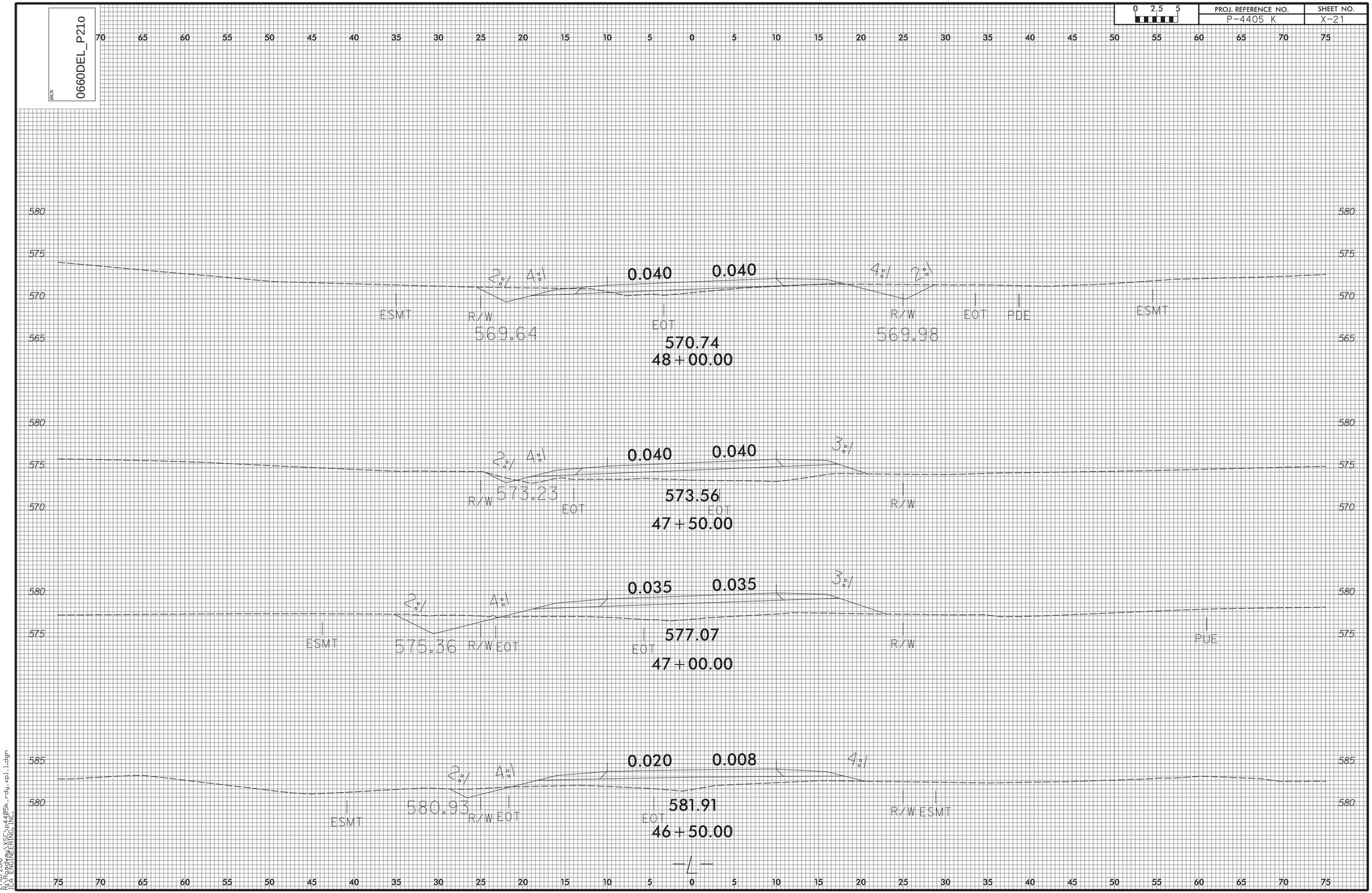
CA ENGINEERING, INC.



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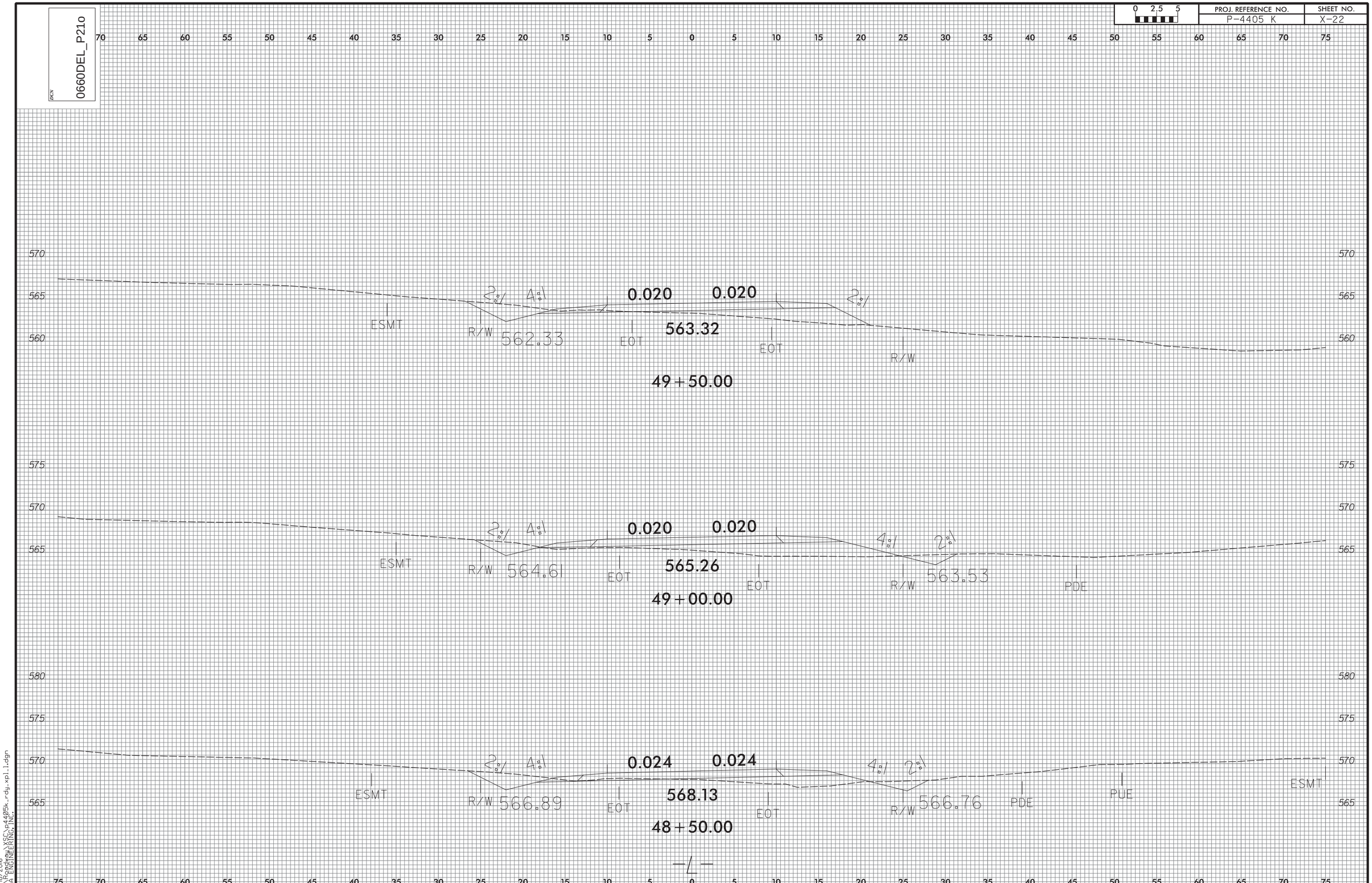

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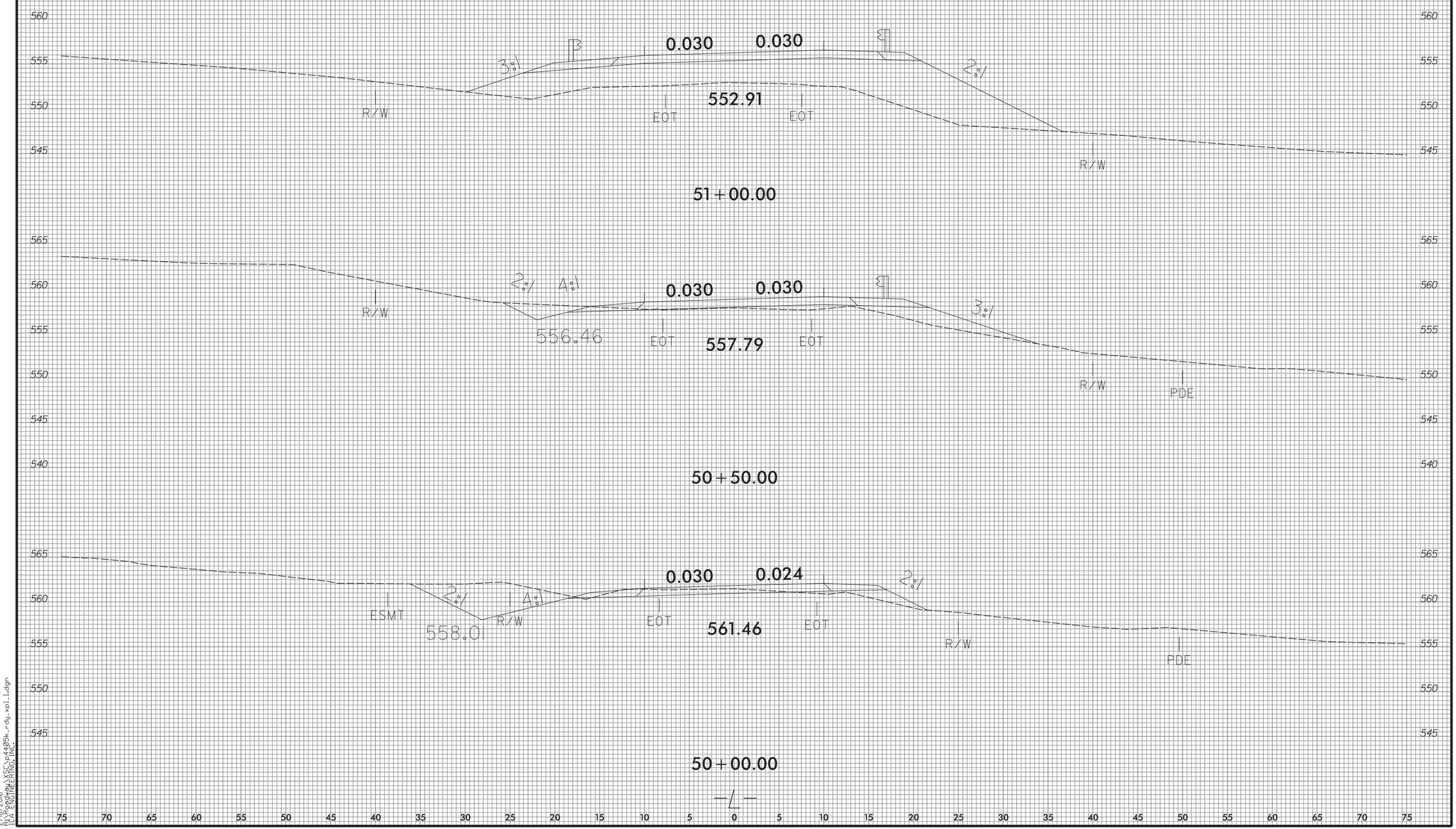
	P-4405 K	X-23

DGN 0660DEL_P21o



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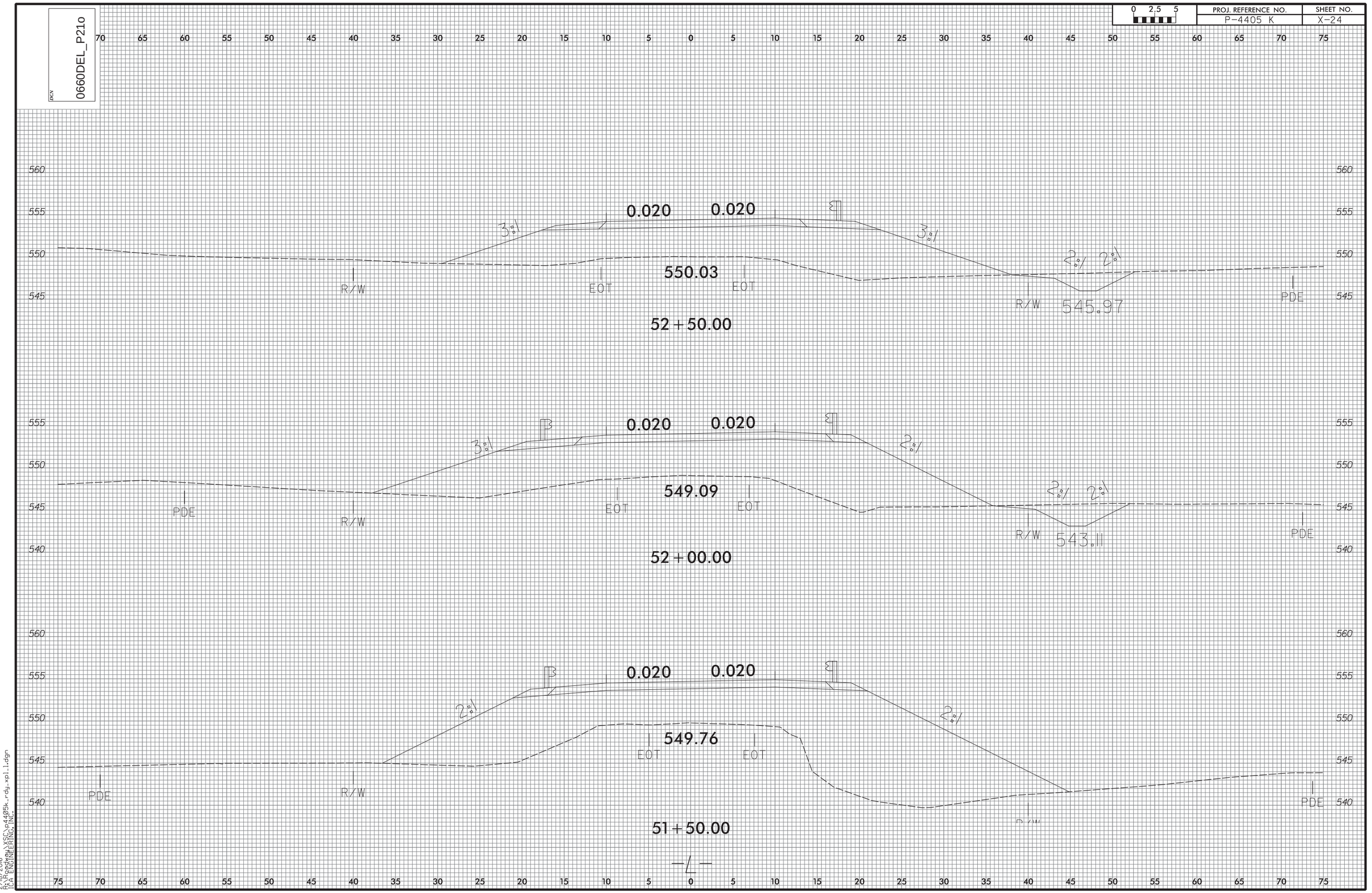
TCA ENGINEERING, INC.



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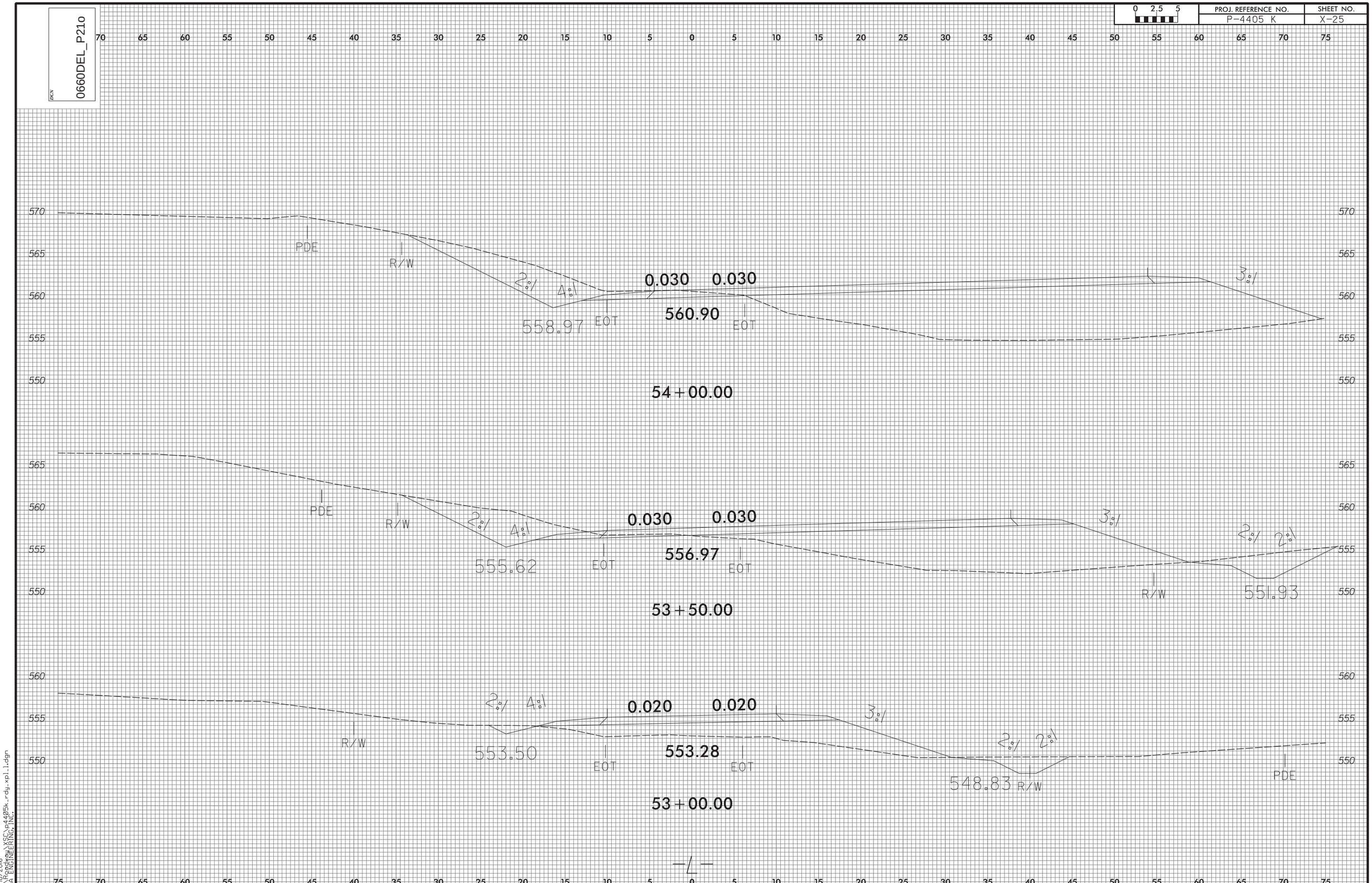

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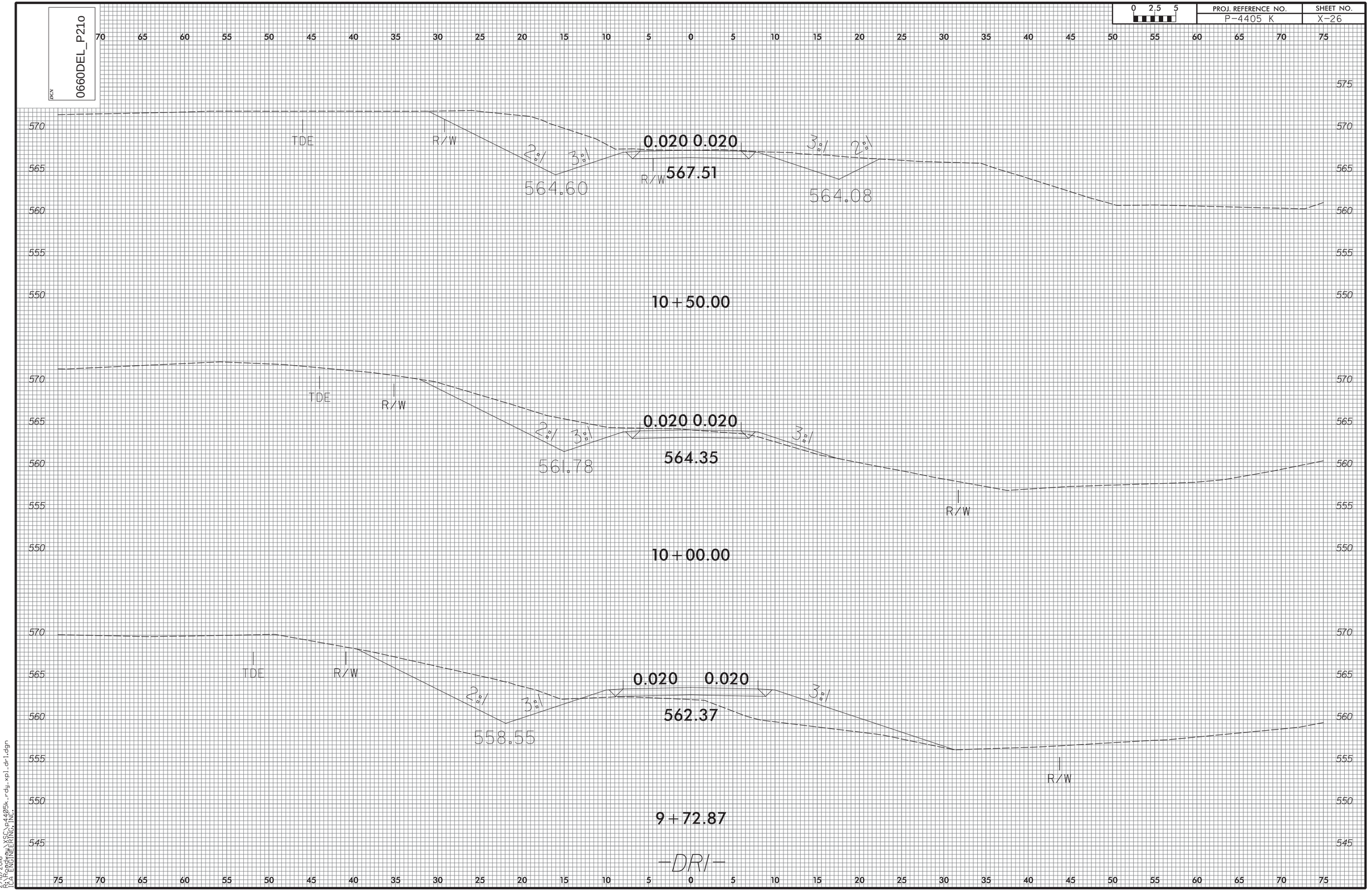

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ICA ENGINEERING, INC.

0 2.5 5	PROJ. REFERENCE NO.	SHEET NO.
	P-4405 K	X-27

DGN 0660DEL_P210

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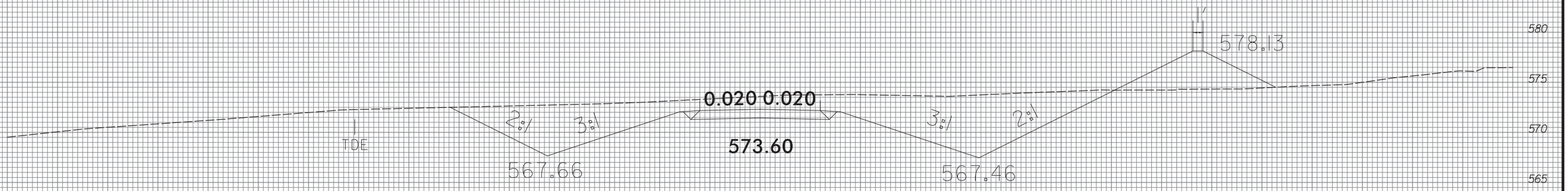
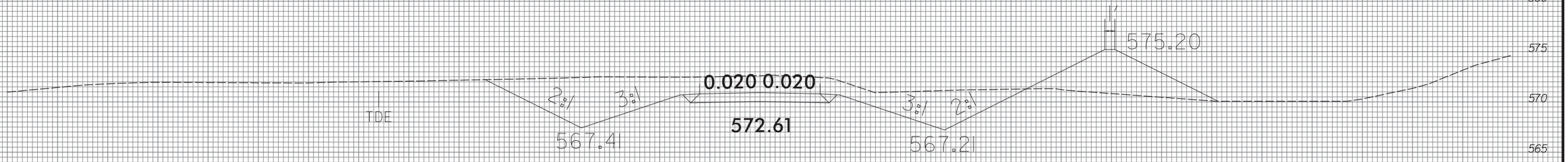
580 575 570 565 560 555 550



11+50.00



11+00.00

—DRI—

75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

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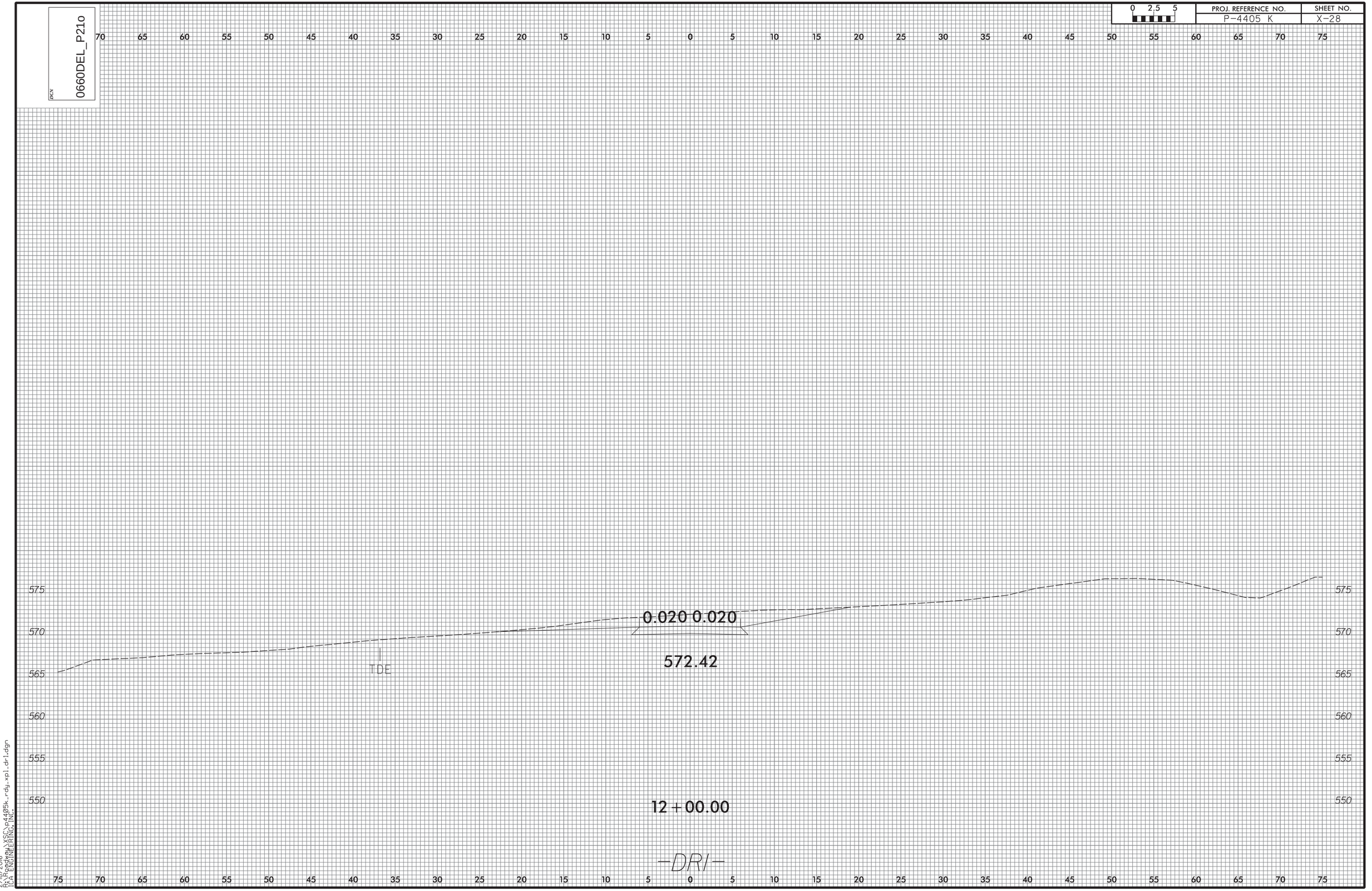
TCA ENGINEERING, INC.

0660DEL_P210	0 2.5 5	PROJ. REFERENCE NO. P-4405 K	SHEET NO. X-28



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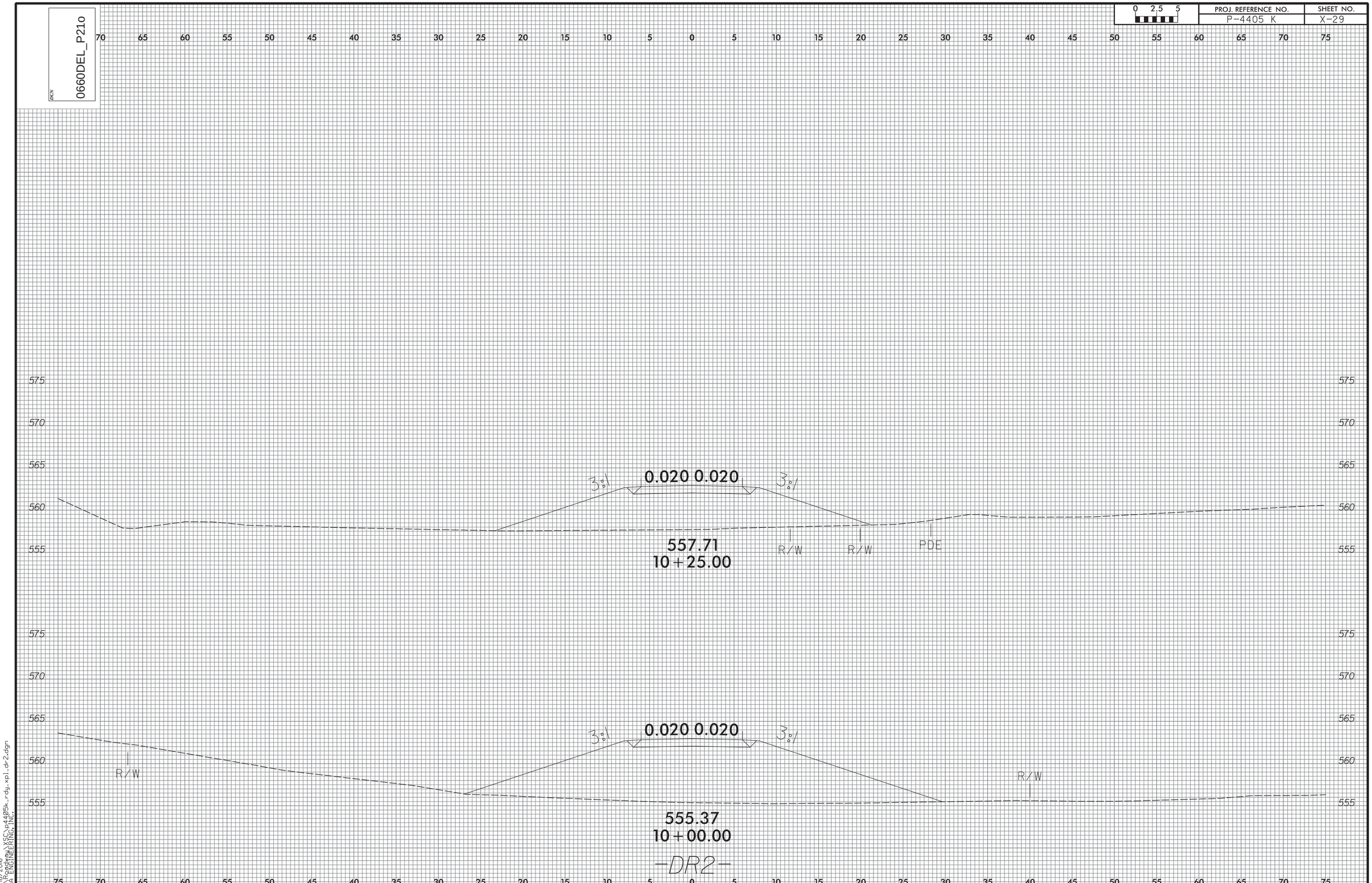
CA ENGINEERING, INC.



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ICA ENGINEERING, INC.

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	P-4405 K	X-30

DGN 0660DEL_P210

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570 565 560 555 550 545

2% / 3%

0.020 0.020

562.59

3% / 2%

561.28

561.28

PDE

10+75.00

575 570 565 560 555 550 545

3% / 3%

0.020 0.020

560.34

10+50.00

75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

—DR2—

2/18/2016
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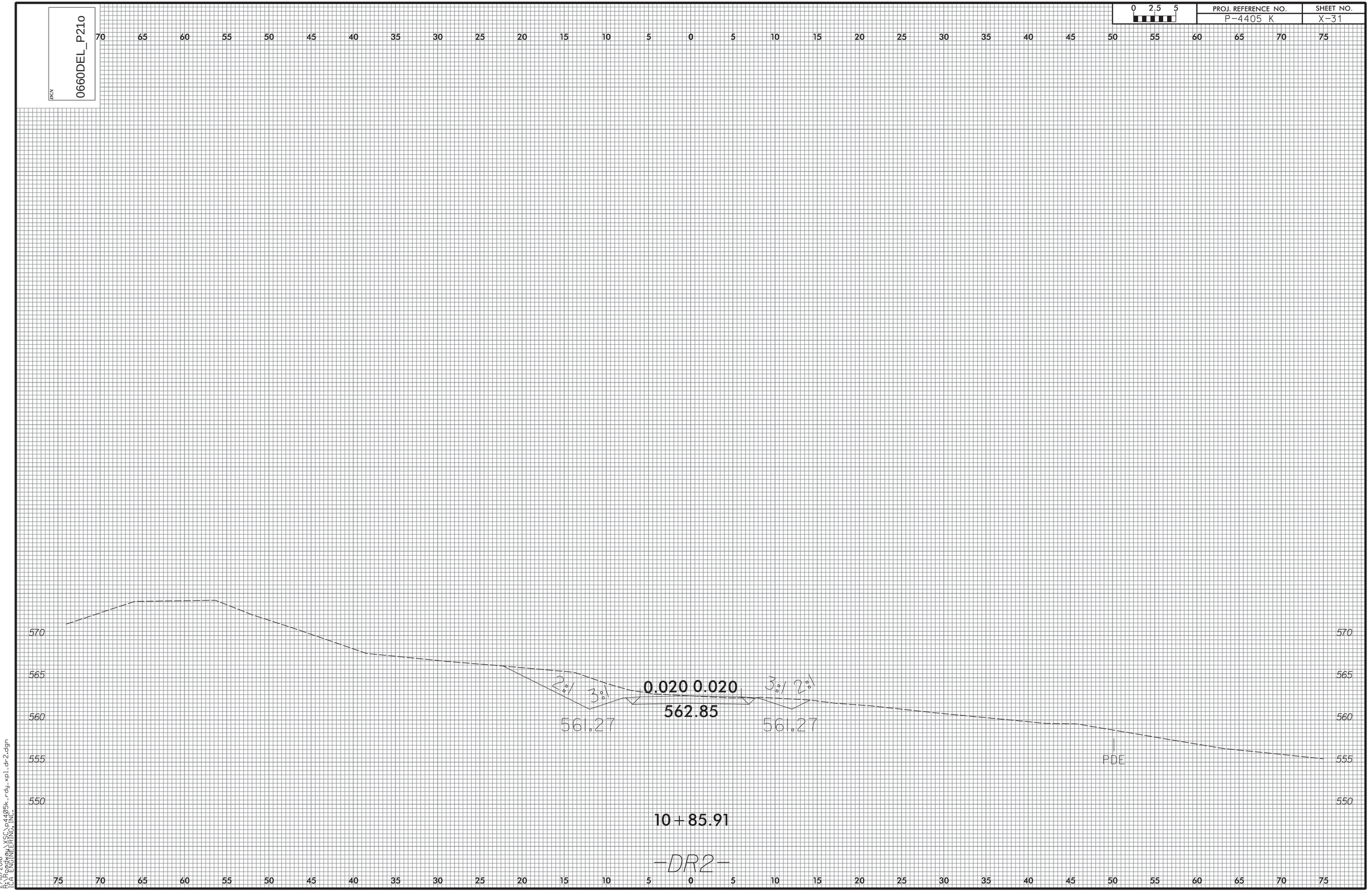
CA ENGINEERING, INC.



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ICA ENGINEERING, INC.

2/18/2016
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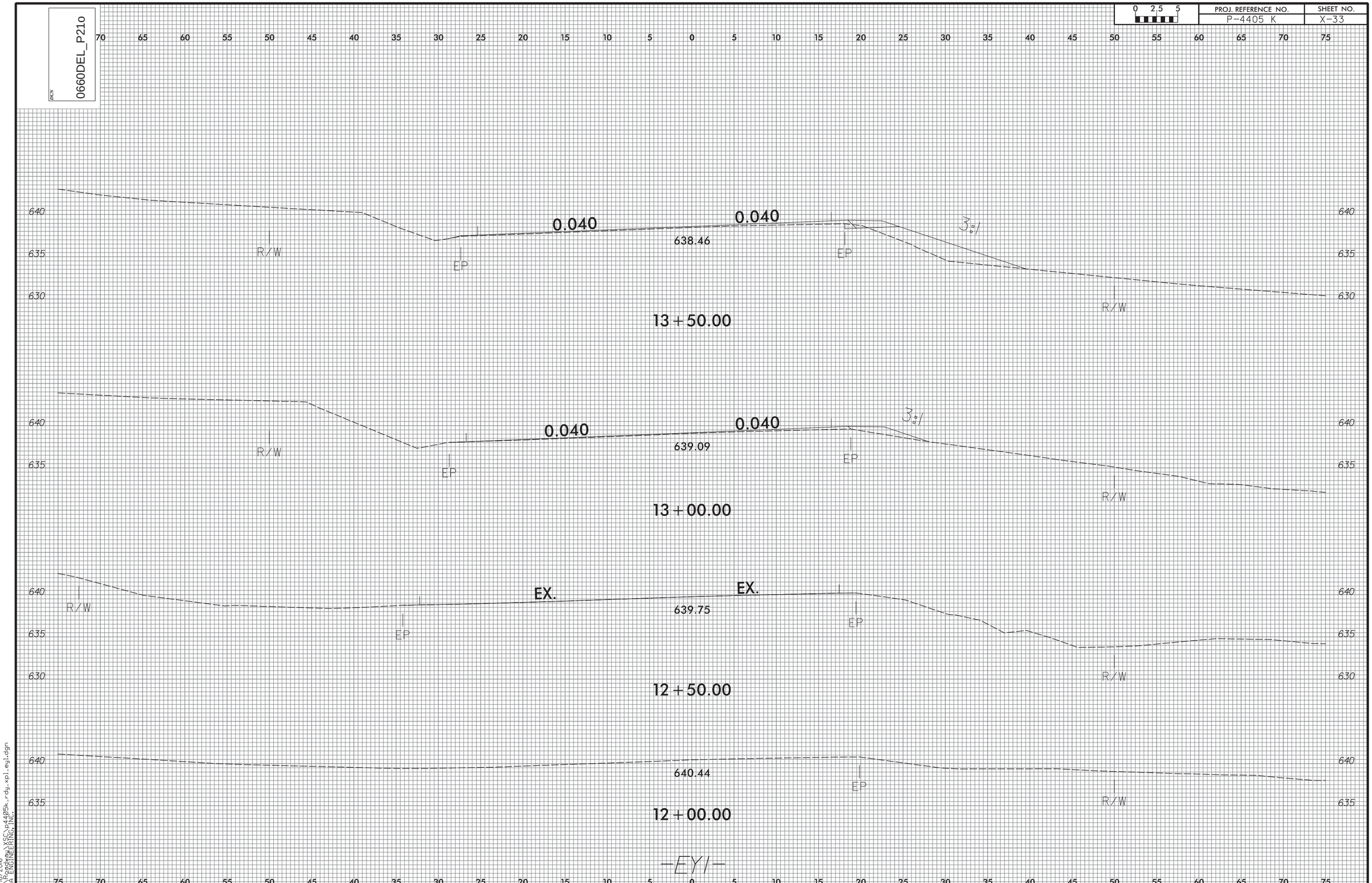
ICA ENGINEERING, INC.



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ICA ENGINEERING, INC.

0 2,5 5	PROJ. REFERENCE NO.	SHEET NO.
	P-4405 K	X-34

0660DEL_P210

70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

635
630
625

R/W
EP
0.040
0.040
636.56
EP
3:1
R/W

15+50.00

640
635
630

R/W
EP
0.040
0.040
636.98
EP
3:1
R/W

15+00.00

640
635
630

R/W
EP
0.040
0.040
637.46
EP
3:1
R/W
ESMT

14+50.00

640
635
630

R/W
EP
0.040
0.040
637.90
EP
3:1
R/W
ESMT

14+00.00

-EY1-

75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

2/18/2016
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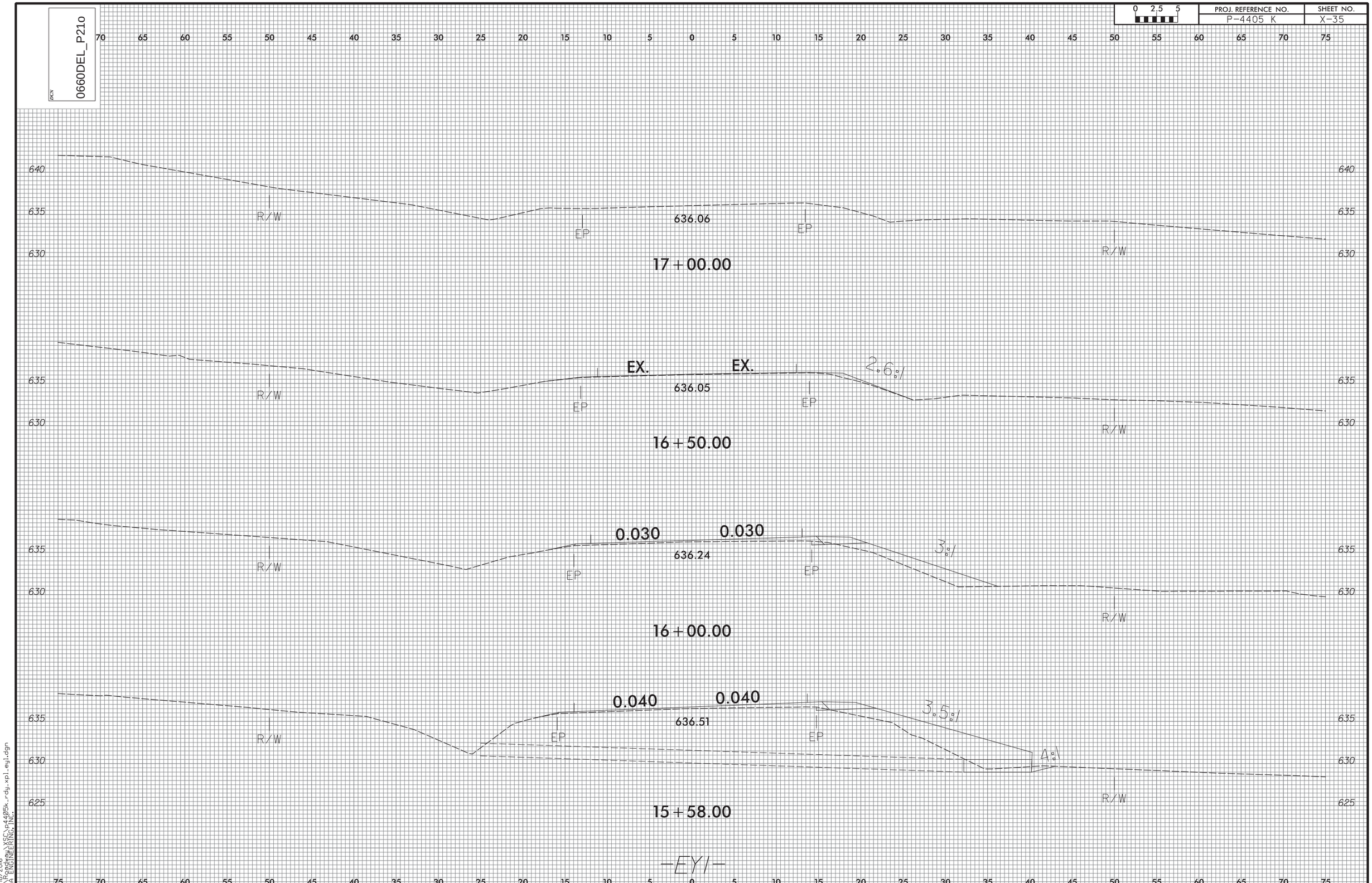

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ICA ENGINEERING, INC.