6/23/16

0 5 10	PROJ. REFERENCE NO.	SHEET NO.
	R-5709C	X-102

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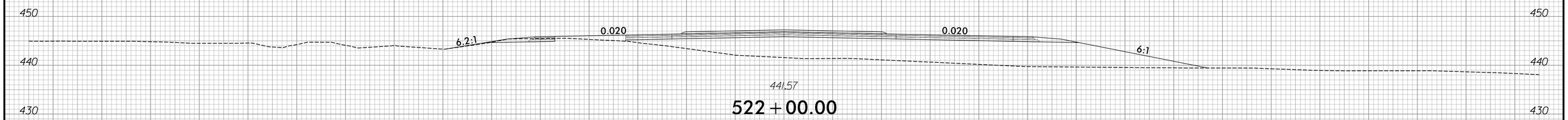
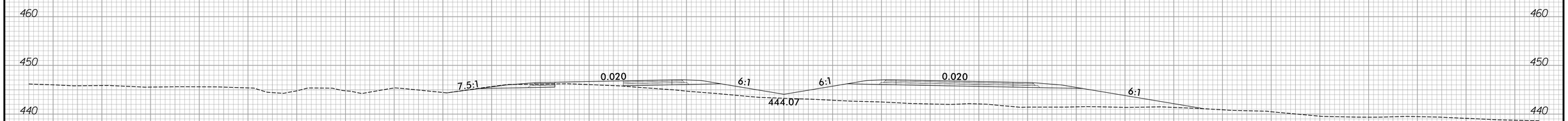
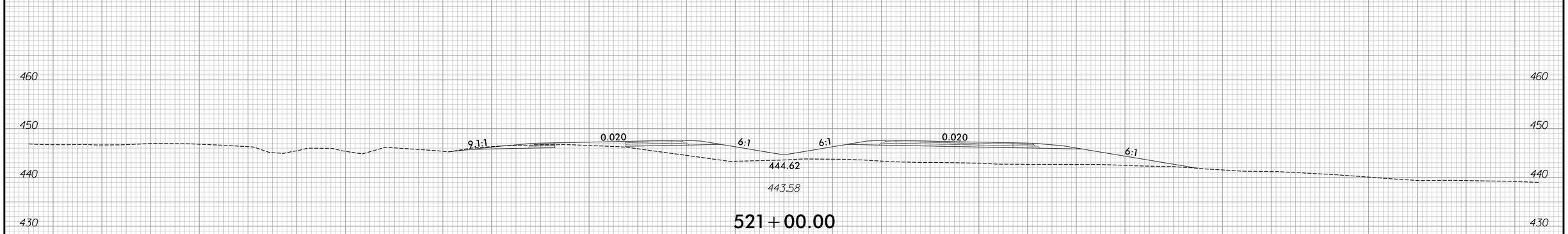


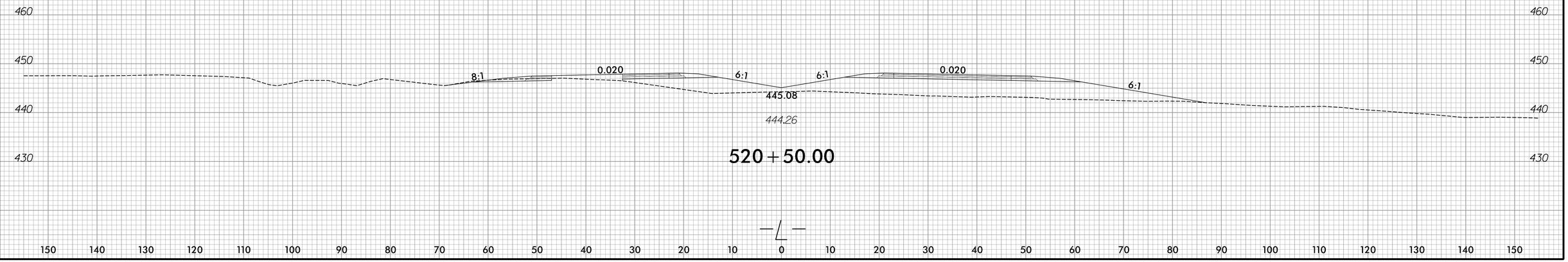
522 + 00.00



521 + 50.00



521 + 00.00



520 + 50.00

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150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

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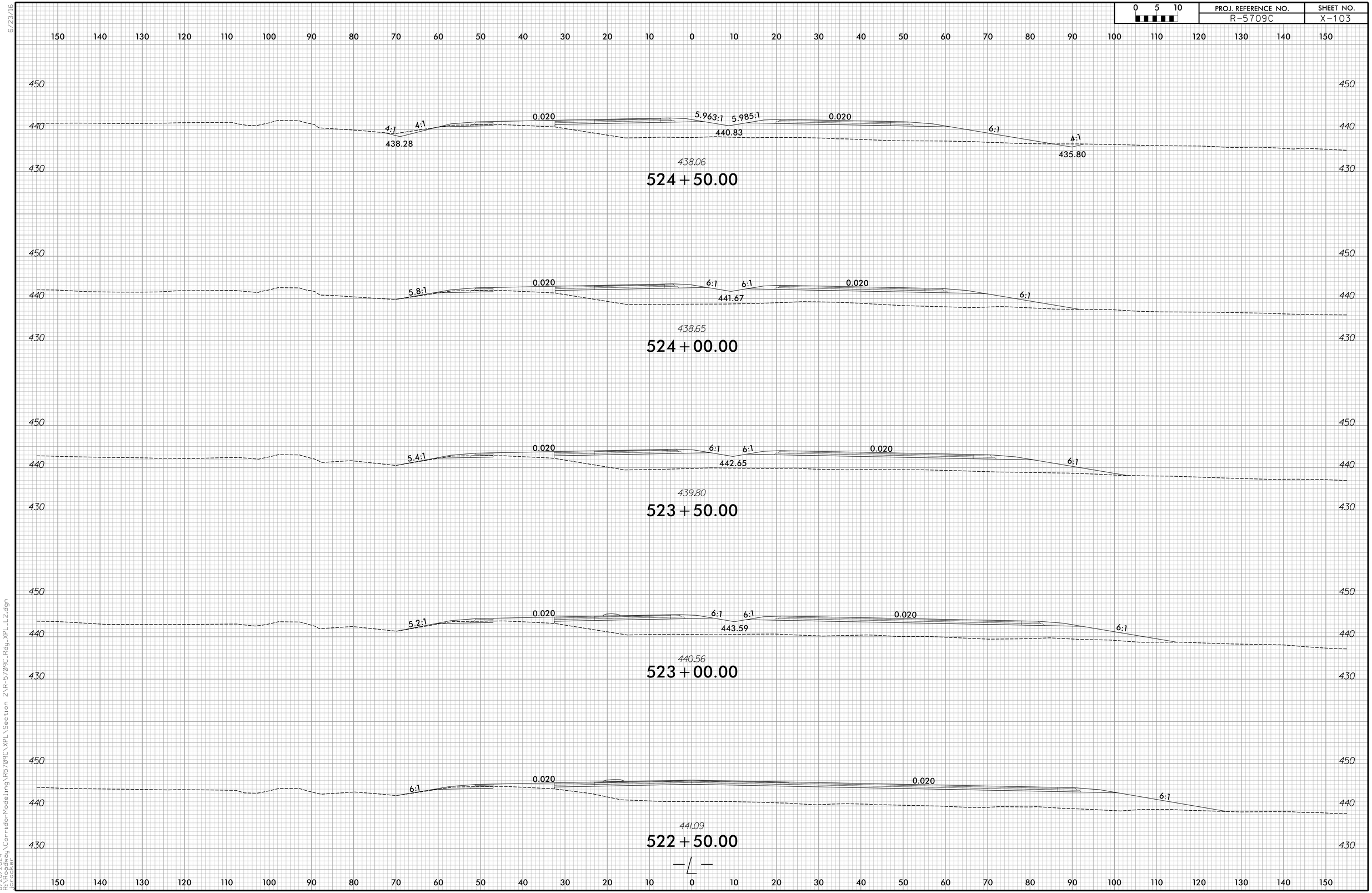
jcrocker

6/23/16

0 5 10	PROJ. REFERENCE NO.	SHEET NO.
	R-5709C	X-103



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jcrocker

0 5 10	PROJ. REFERENCE NO.	SHEET NO.
	R-5709C	X-104

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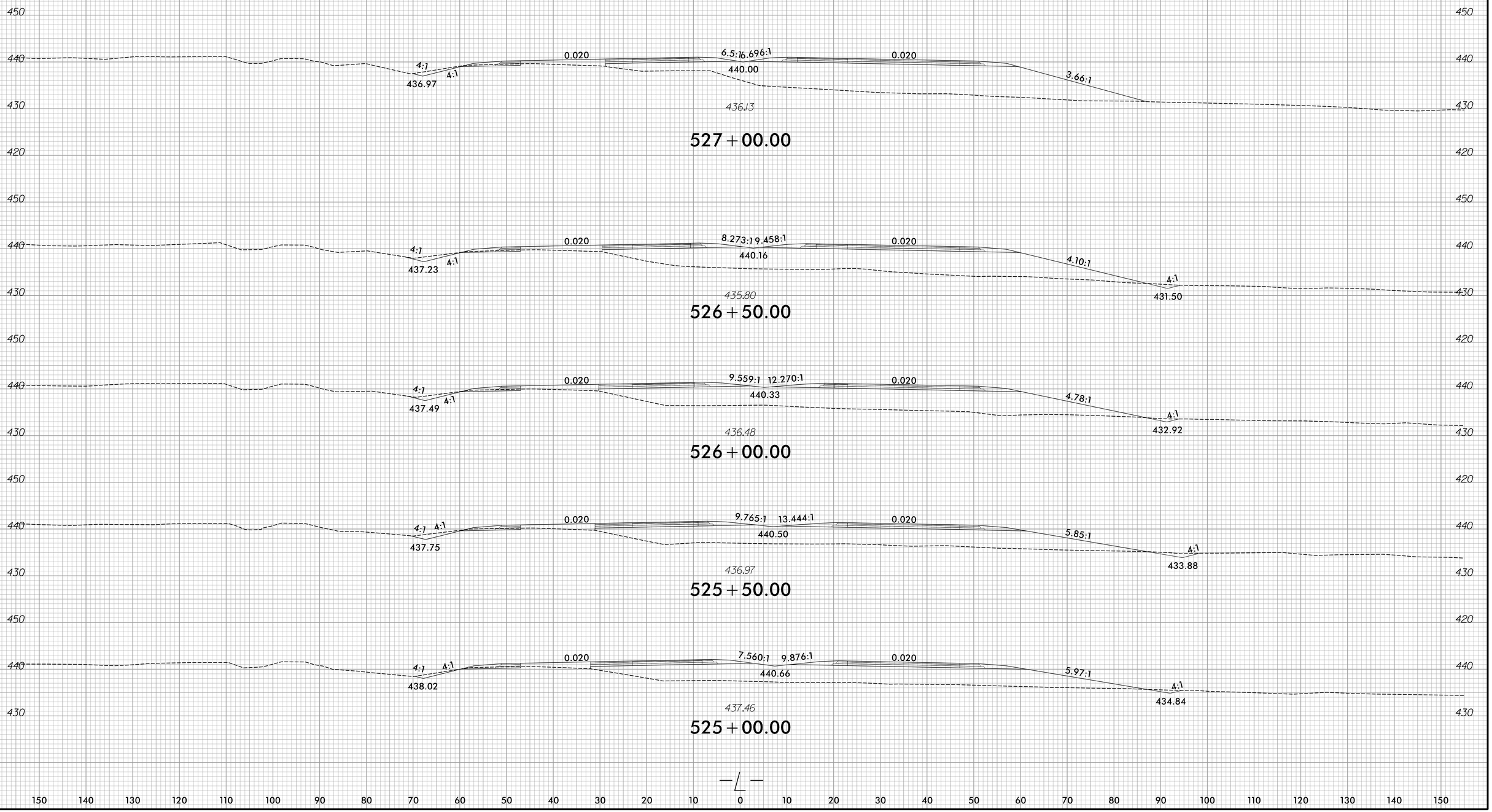
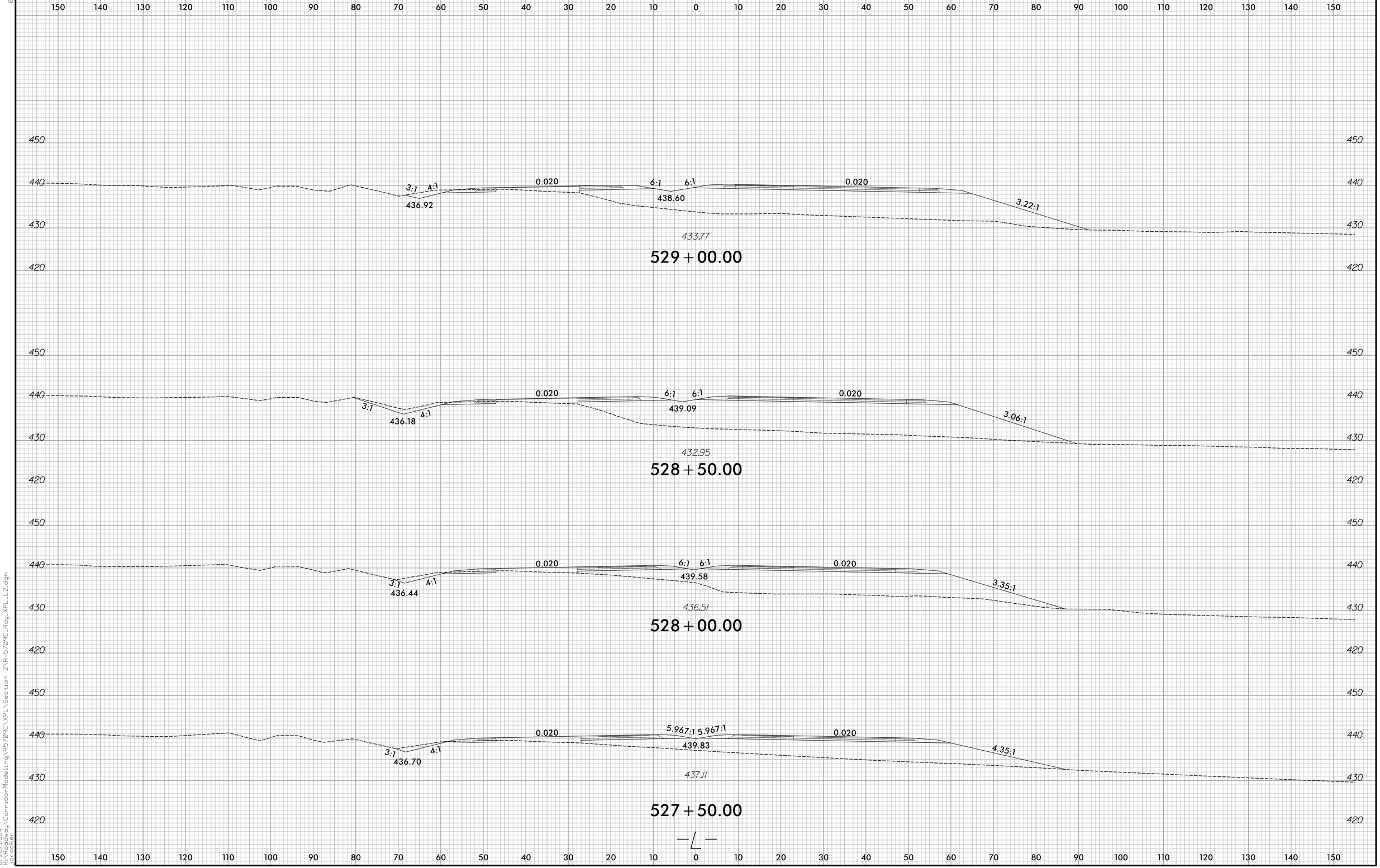
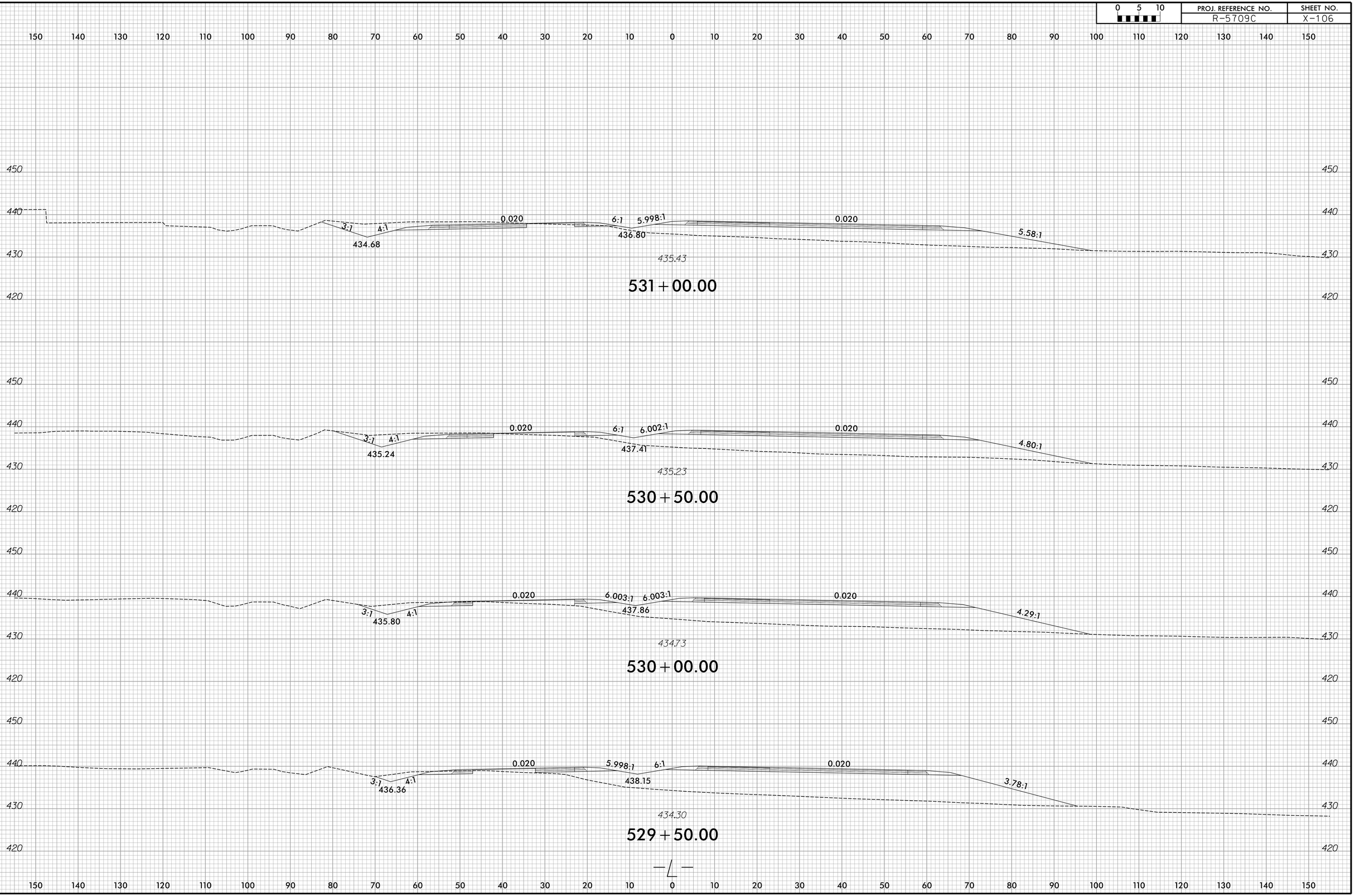


0 5 10	PROJ. REFERENCE NO.	SHEET NO.
	R-5709C	X-105



0 5 10	PROJ. REFERENCE NO.	SHEET NO.
	R-5709C	X-106



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amacpherson

0 5 10	PROJ. REFERENCE NO.	SHEET NO.
	R-5709C	X-107

150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

460 450 440 430 420

SHEAR LINE @ -L_/-Y17- INTERSECTION

0.020

435.09

SHEAR LINE @ -L_/-Y16- INTERSECTION

0.020

532+50.00

SHEAR LINE @ -L_/-Y17- INTERSECTION

0.020 6:1 6:1 435.34 0.020 5.89:1

435.49

532+00.00

3:1 4:1 434.12 0.020 5.997:1 5.998:1 436.07 0.020 5.85:1

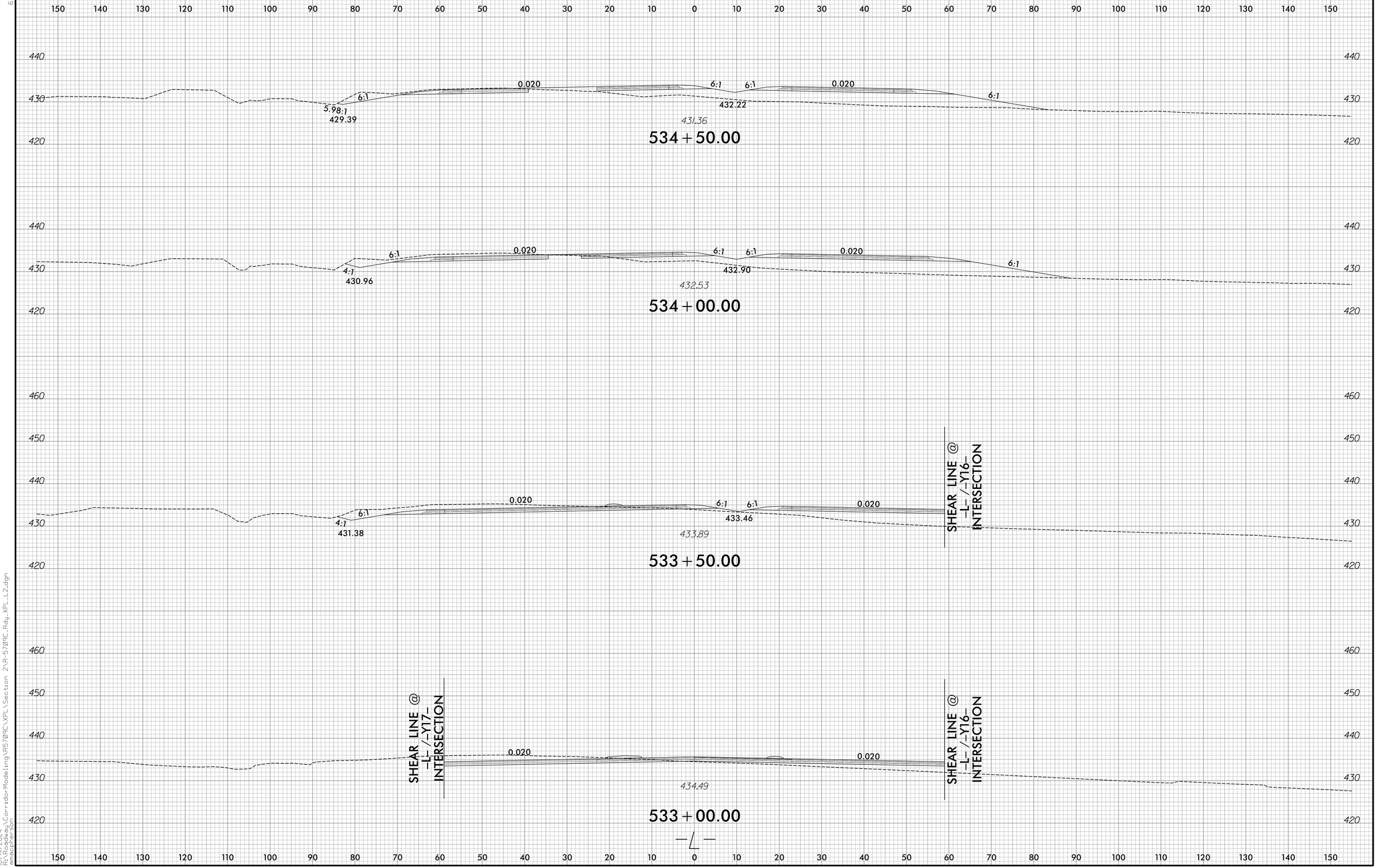
435.34

531+50.00

—L—

150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

0 5 10	PROJ. REFERENCE NO.	SHEET NO.
	R-5709C	X-108



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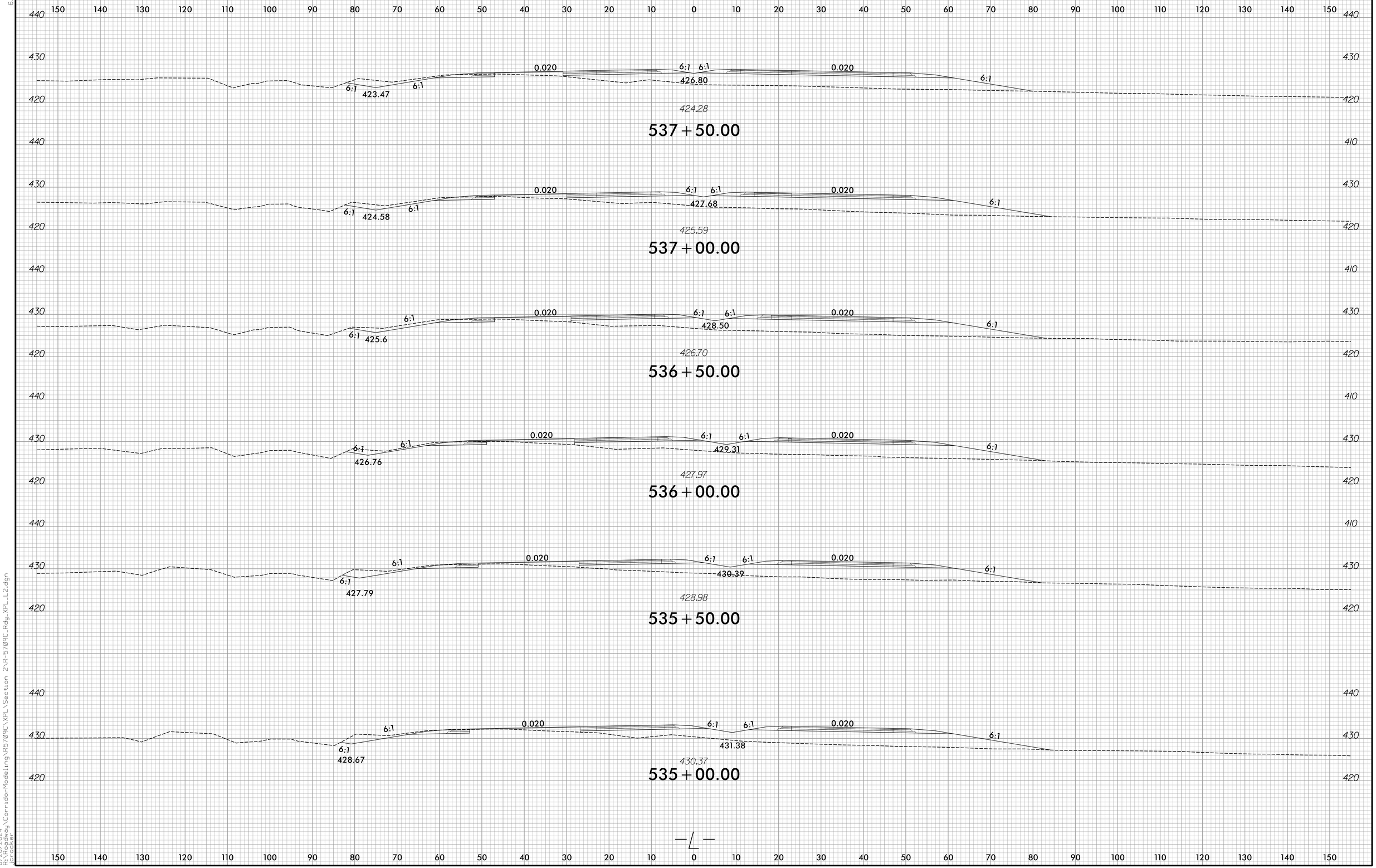
amacpherson

0 5 10	PROJ. REFERENCE NO.	SHEET NO.
	R-5709C	X-109



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8/28/2024
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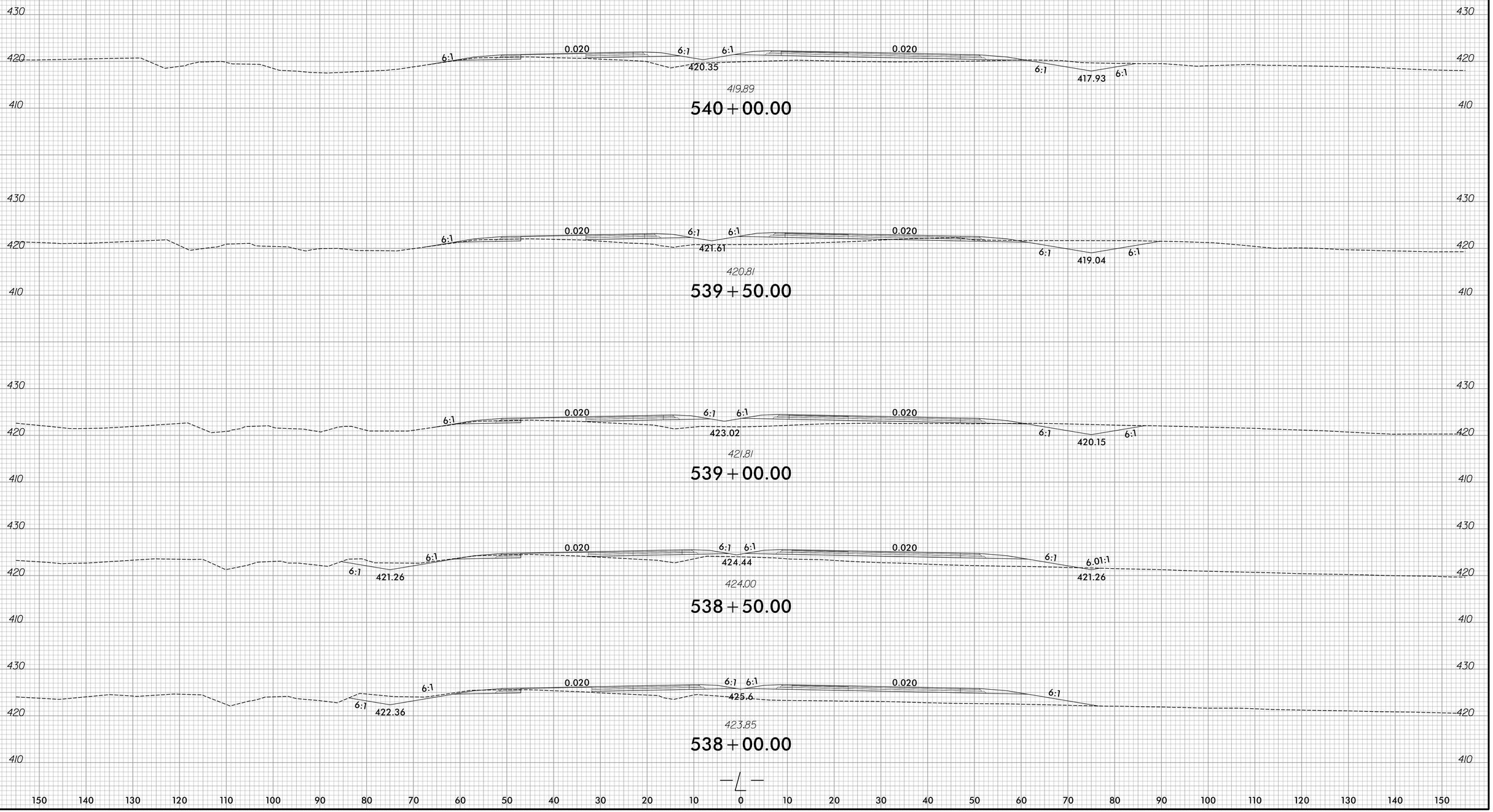
jcrocker

0 5 10	PROJ. REFERENCE NO.	SHEET NO.
	R-5709C	X-110



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8/28/2024
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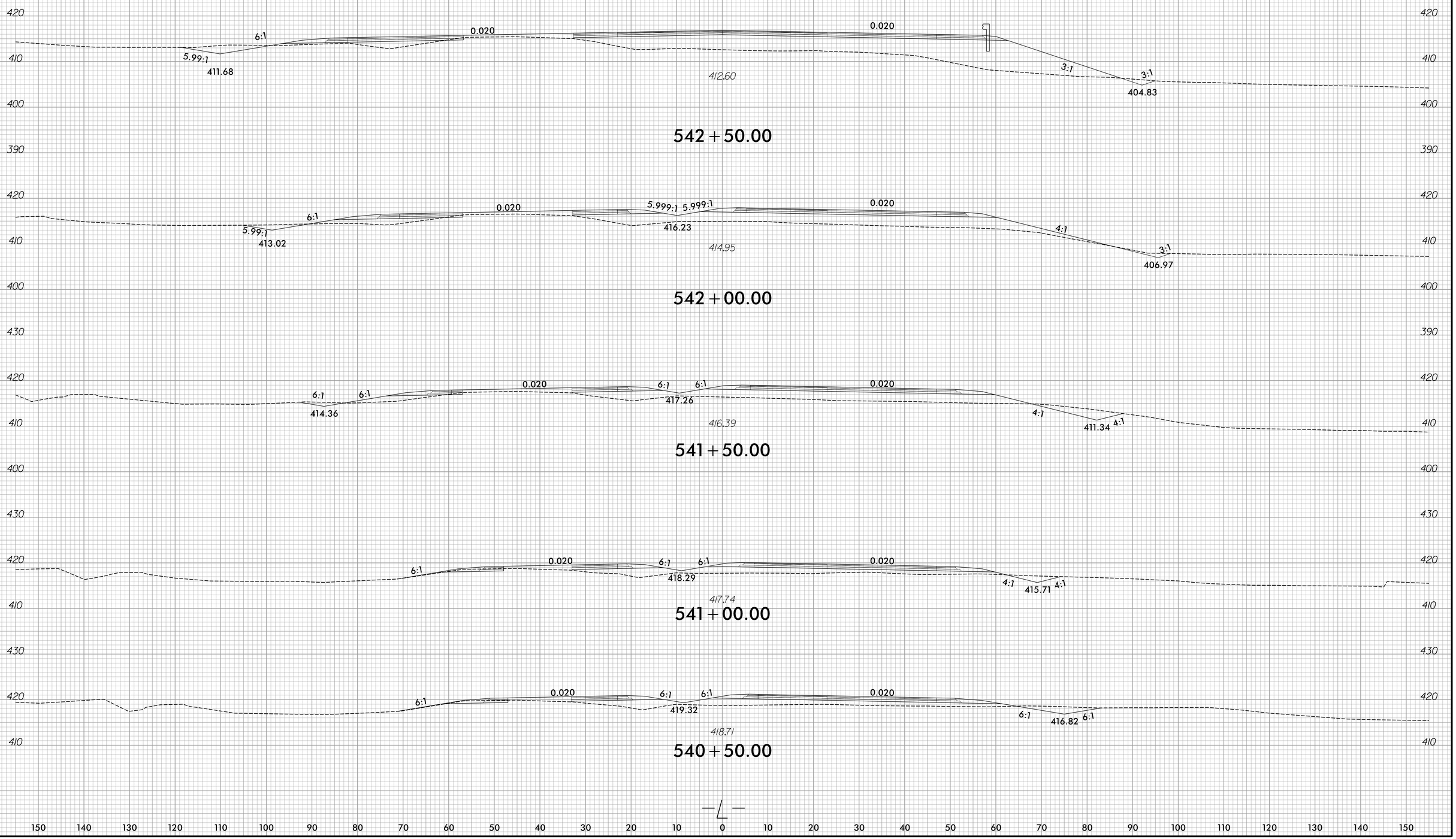
jcrocker

6/23/16

0 5 10	PROJ. REFERENCE NO.	SHEET NO.
	R-5709C	X-111

150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150



150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

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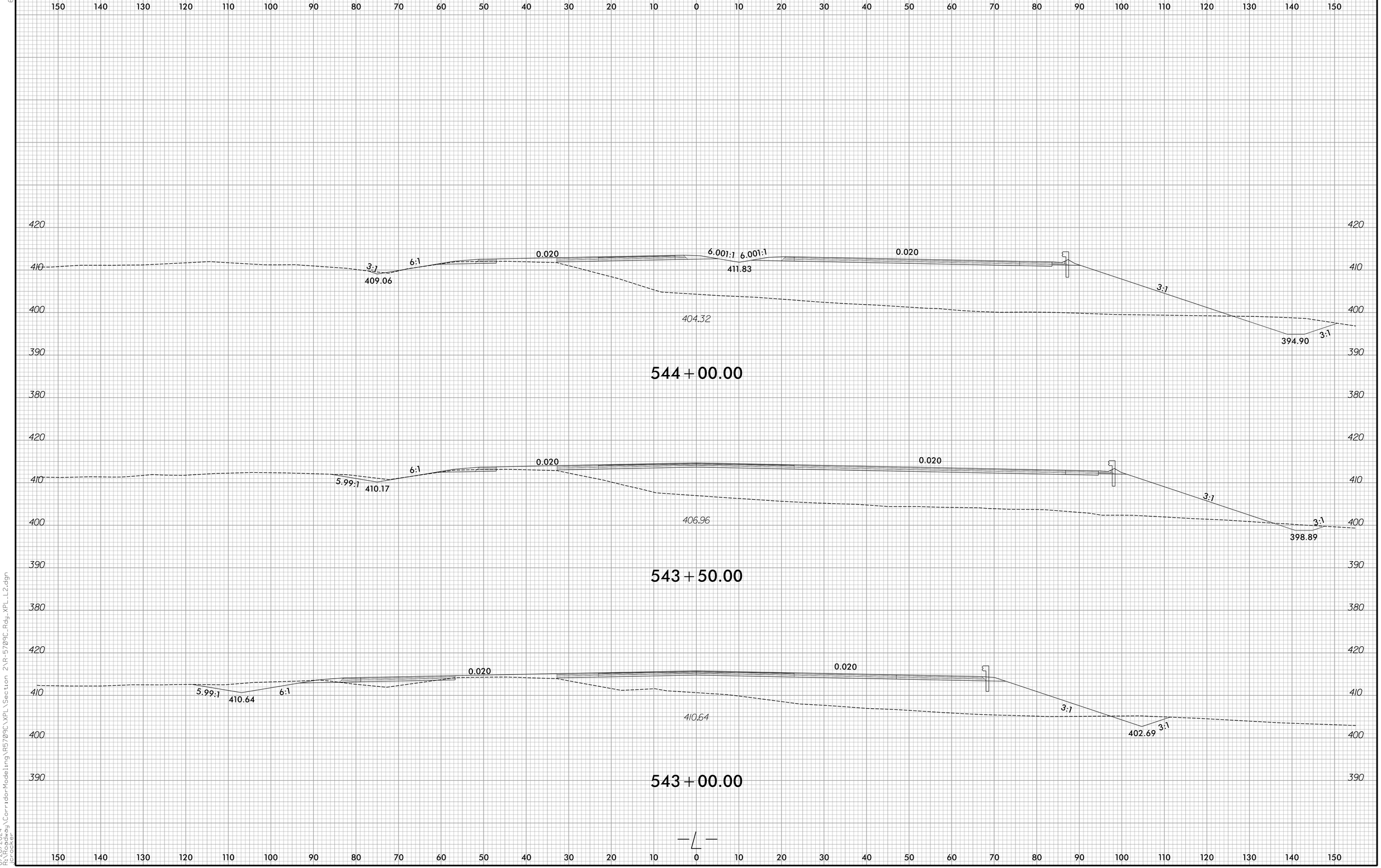
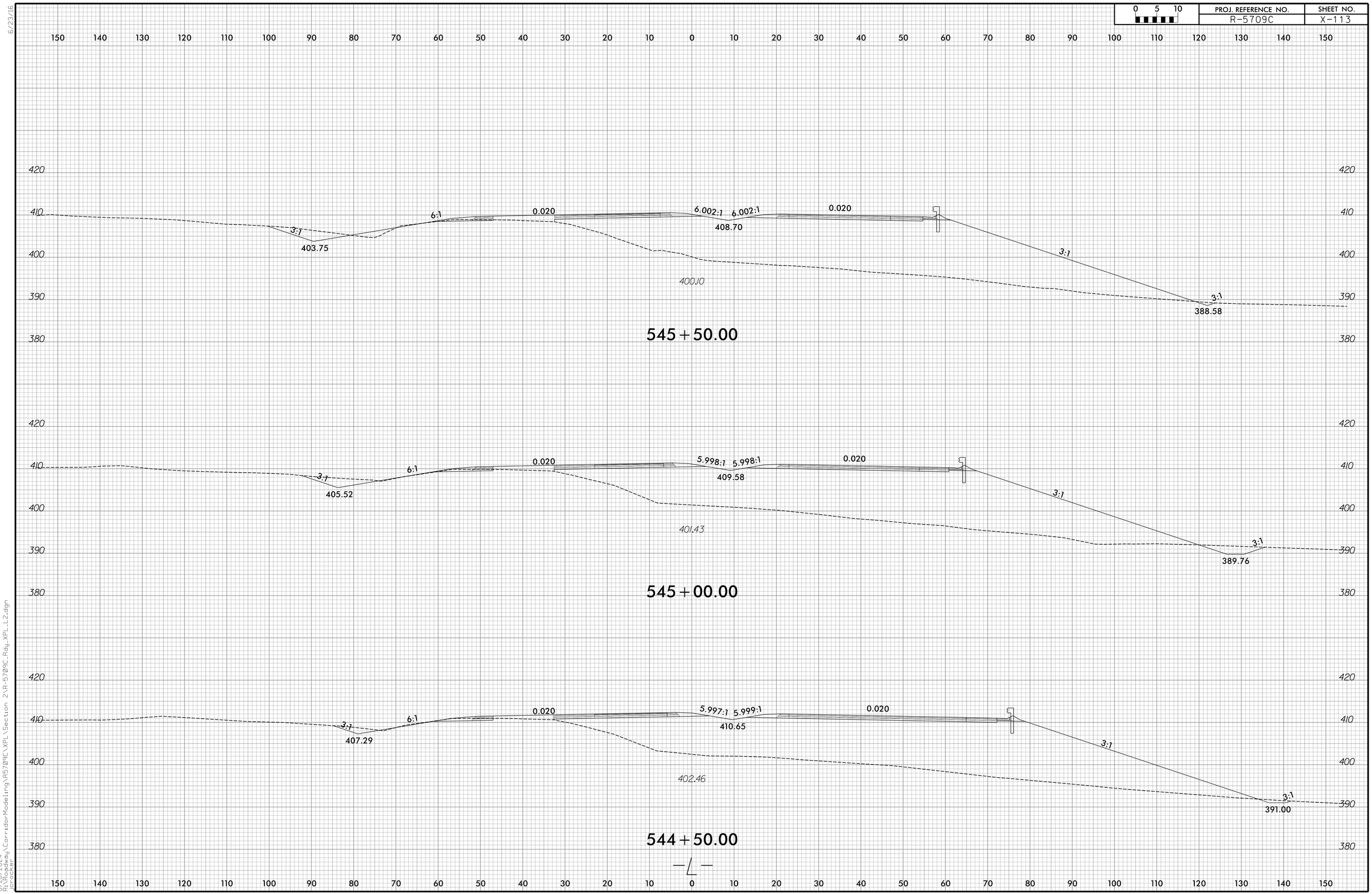
jcrocker

0 5 10	PROJ. REFERENCE NO.	SHEET NO.
	R-5709C	X-112





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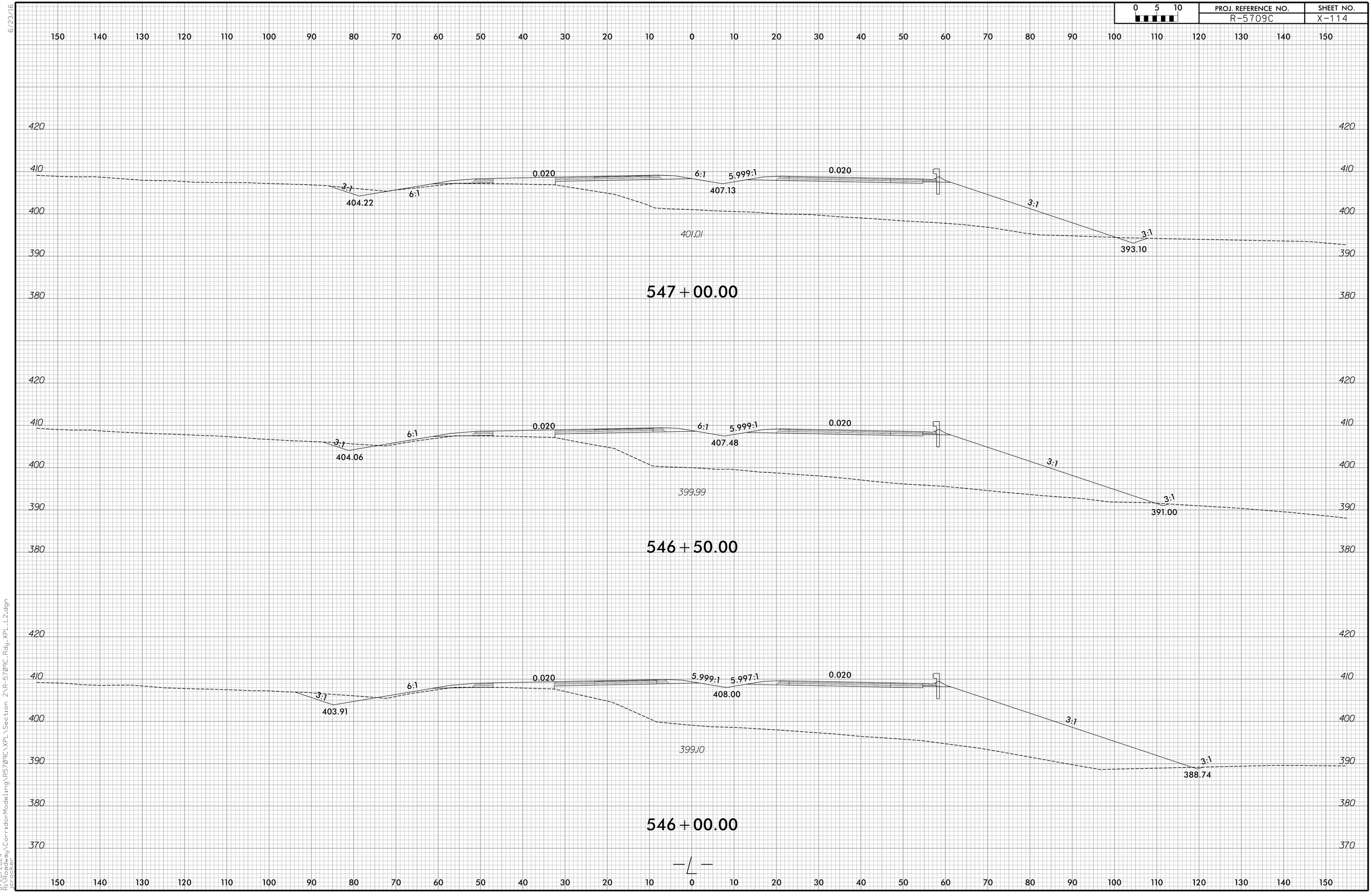
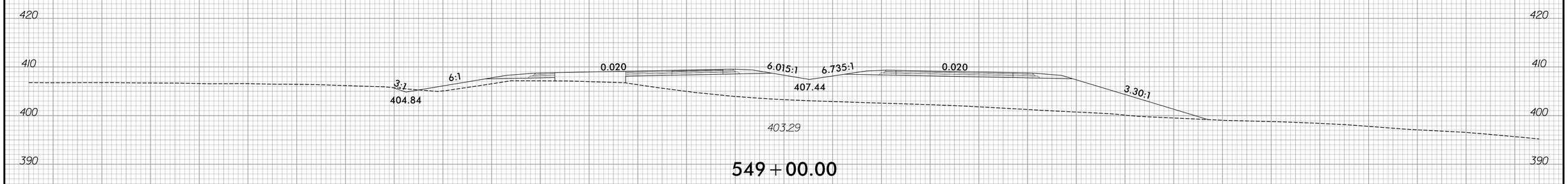
jcrocker


150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150
420
410
400
390
380
370
3:1
6:1
404.22
0.020
6:1
5.999:1
407.13
401.01
3:1
393.10
547+00.00
404.06
407.48
399.99
391.00
546+50.00
403.91
5.999:1
5.997:1
408.00
399.10
388.74
546+00.00

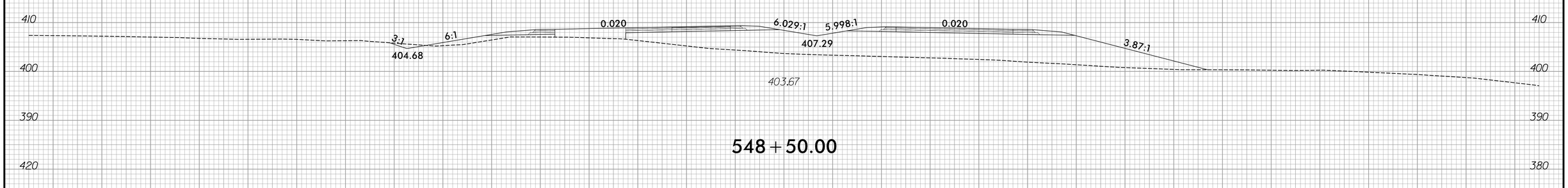
0 5 10

PROJ. REFERENCE NO.	SHEET NO.
R-5709C	X-115

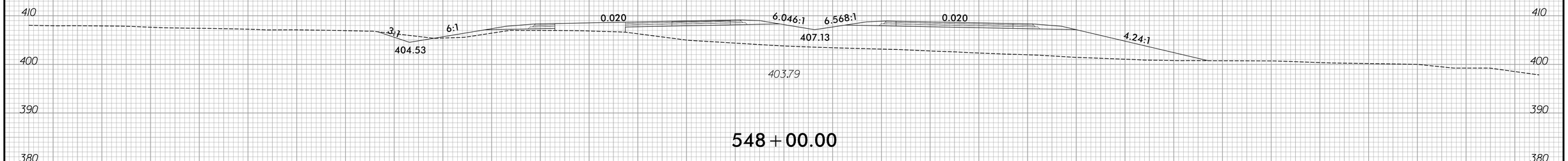
150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150



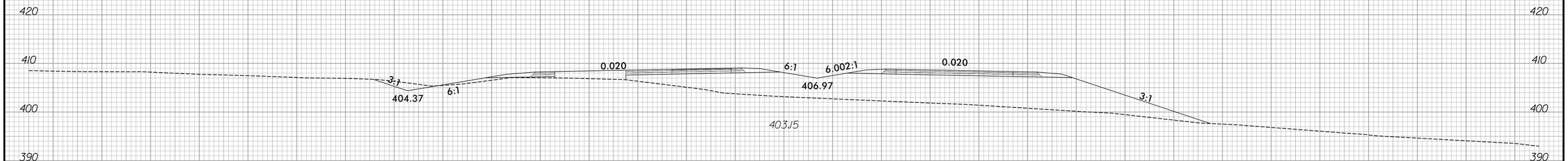
549+00.00



548+50.00



548+00.00



547+50.00

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150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

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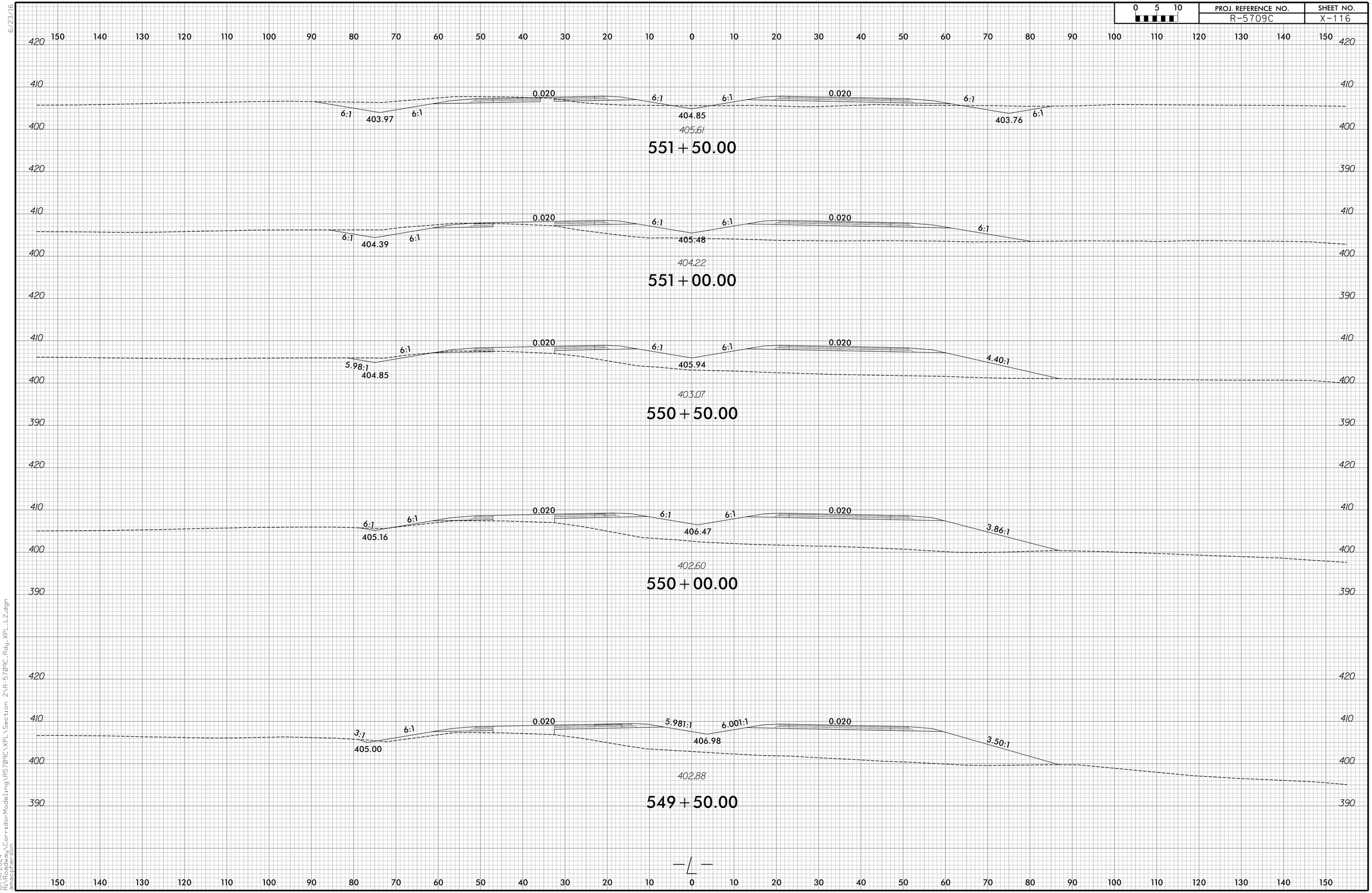
jcrocker



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10/14/2024
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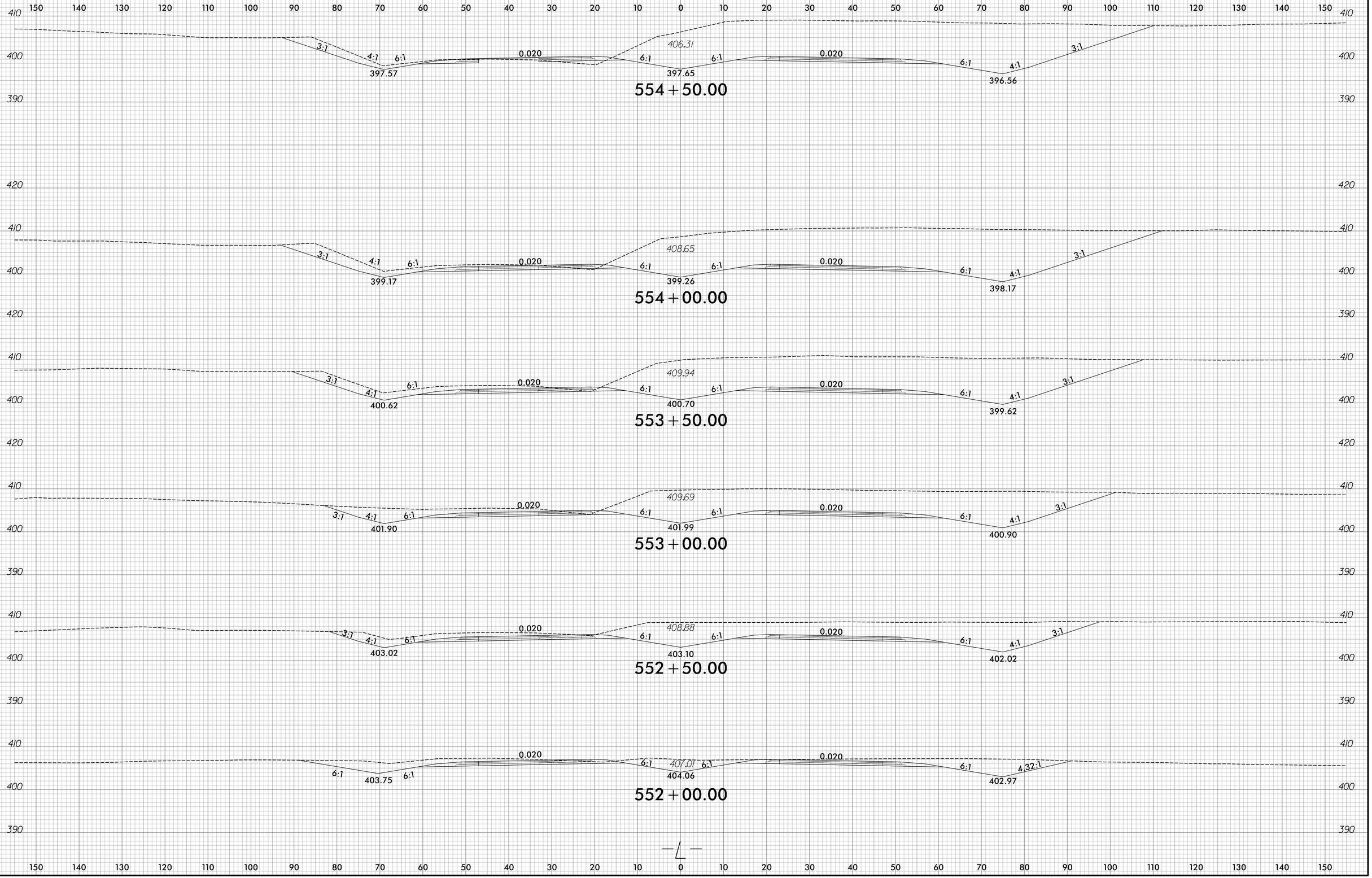
amacpherson

0 5 10	PROJ. REFERENCE NO.	SHEET NO.
	R-5709C	X-117



6/23/16
10/14/2024
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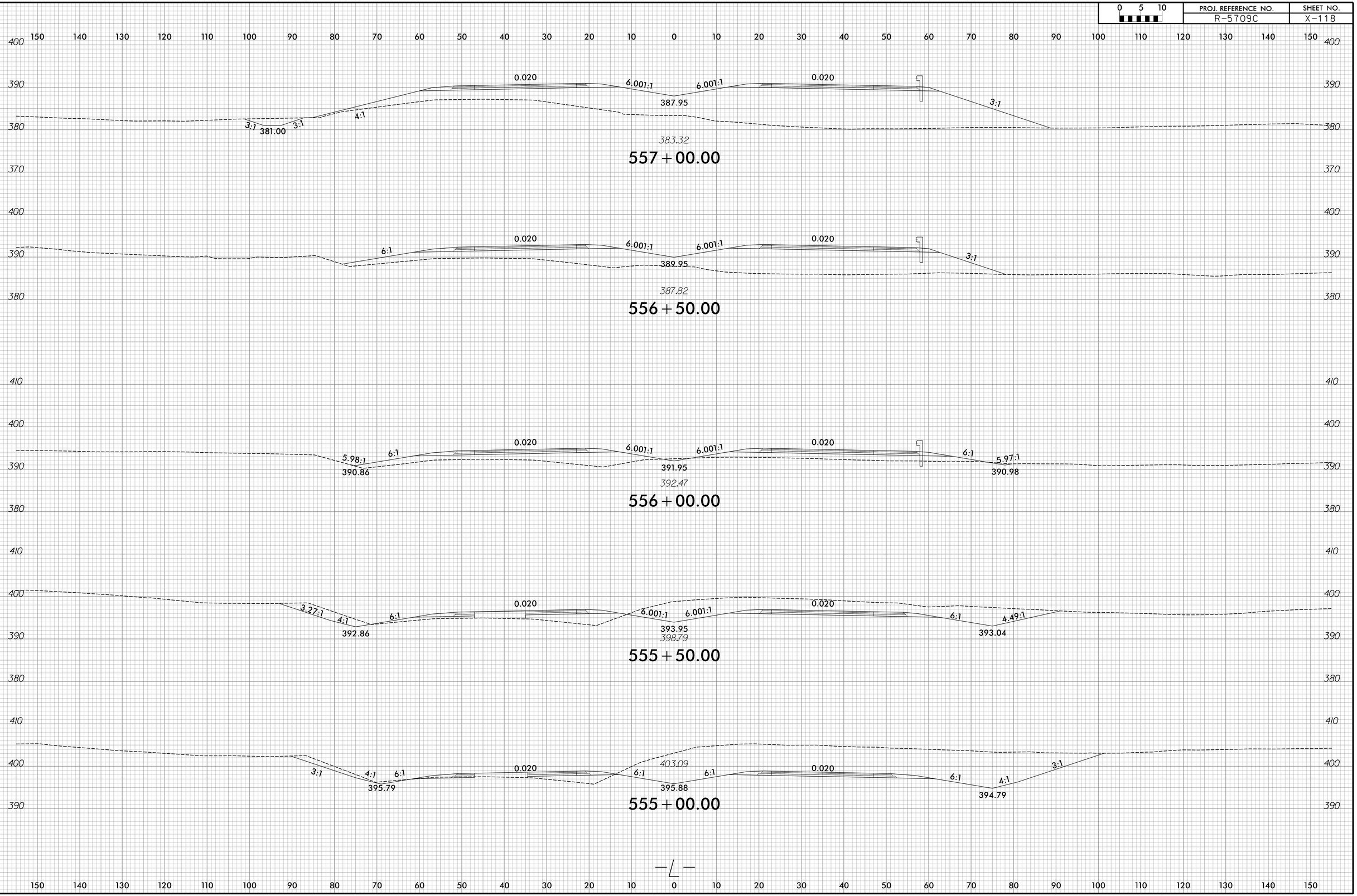
amacpherson



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10/14/2024
R:\Roadway\CorridorModeling\R5709C\XPL\Section 2\R-5709C_Rdy_XPL_L2.dgn
amacpherson

PROJ. REFERENCE NO.	SHEET NO.
R-5709C	X-119

0 5 10

150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

390 380 370 360 350

0.020 6.001:1 6.001:1 0.020

3:1 3:1

380.28

361.97

559+00.00

390 380 370 360 350

0.020 6.001:1 6.001:1 0.020

3:1 3:1

382.02

363.84

558+50.00

390 380 370 360 350

0.020 6.001:1 6.001:1 0.020

3:1 3:1

383.95

367.09

558+00.00

400 390 380 370 360 350

0.020 6.001:1 6.001:1 0.020

3:1 3:1 3:1

376.66 385.95

375.31

557+50.00

150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

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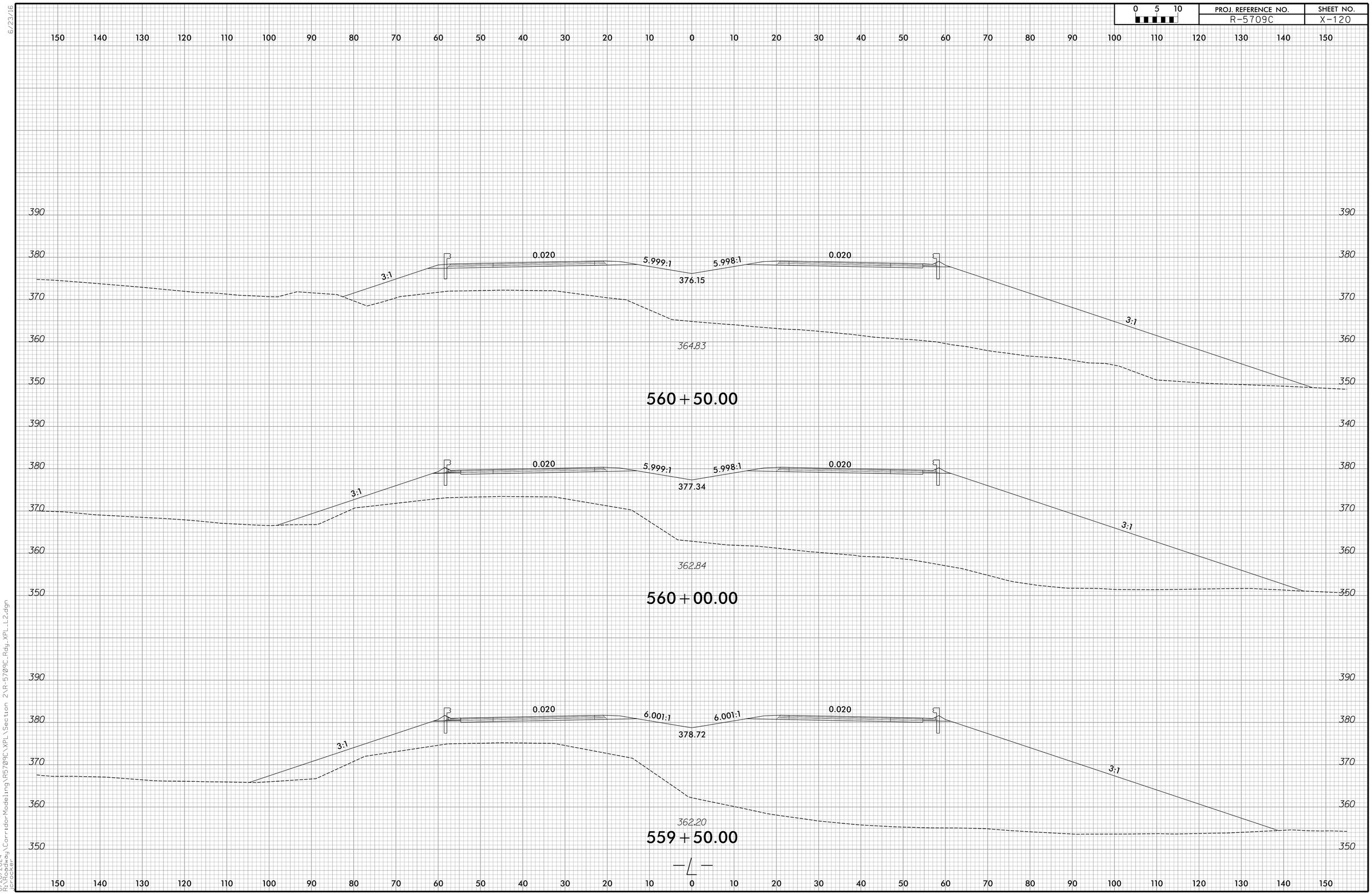
R:\Roadway\CorridorModeling\R5709C\XPL\Section 2\R-5709C_Rdy_XPL_L2.dgn
jcrocker



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8/28/2024
R:\Roadway\CorridorModeling\R5709C\XPL\Section 2\R-5709C_Rdy_XPL_L2.dgn
jcrocker

0 5 10	PROJ. REFERENCE NO.	SHEET NO.
	R-5709C	X-121

150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

390 380 370 360 350 340

3:1 | 0.020 | 6.001:1 | 6.001:1 | 0.020 | 3.71:1

373.67

374.34

562+00.00

390 380 370 360 350 340

3:1 | 0.020 | 5.998:1 | 5.999:1 | 0.020 | 3:1

374.31

371.00

561+50.00

390 380 370 360 350 340

6:1 | 0.020 | 6.001:1 | 6.001:1 | 0.020 | 3:1

375.14

368.07

561+00.00

150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

6/23/16

8/28/2024
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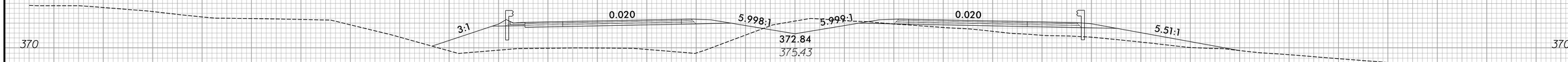
jcrocker

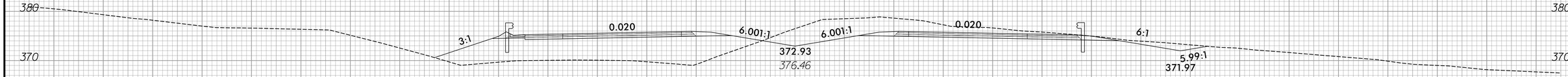
0 5 10	PROJ. REFERENCE NO.	SHEET NO.
	R-5709C	X-122

150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

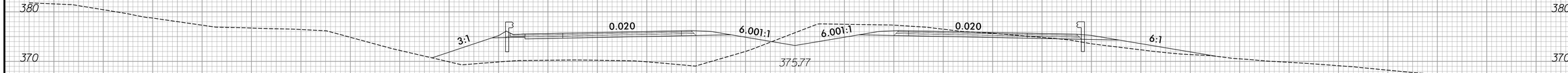
390
380
370
360
350
340



563+50.00



563+00.00



562+50.00

6/23/16
10/14/2024
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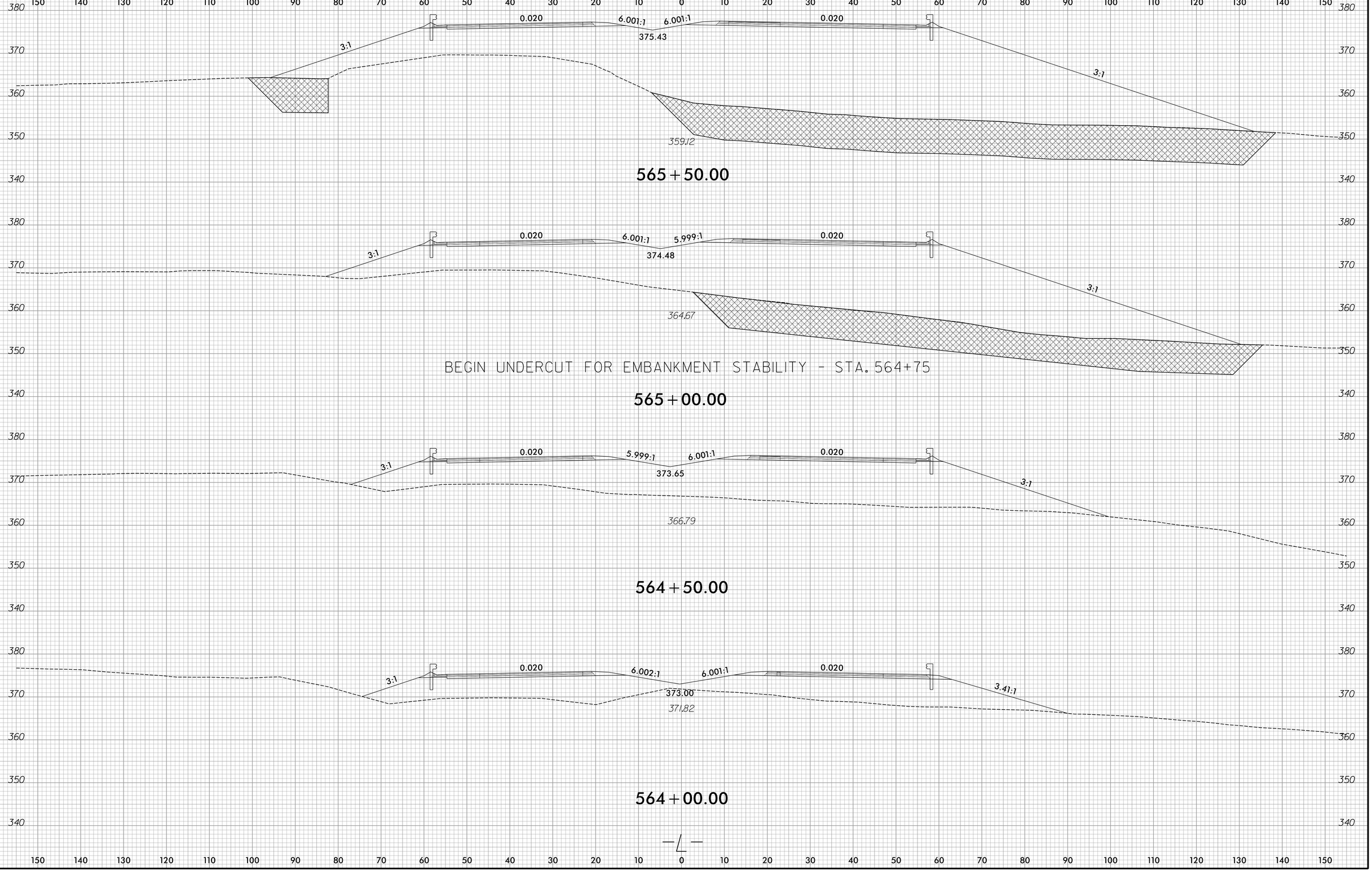
gmacpherson



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8/28/2024
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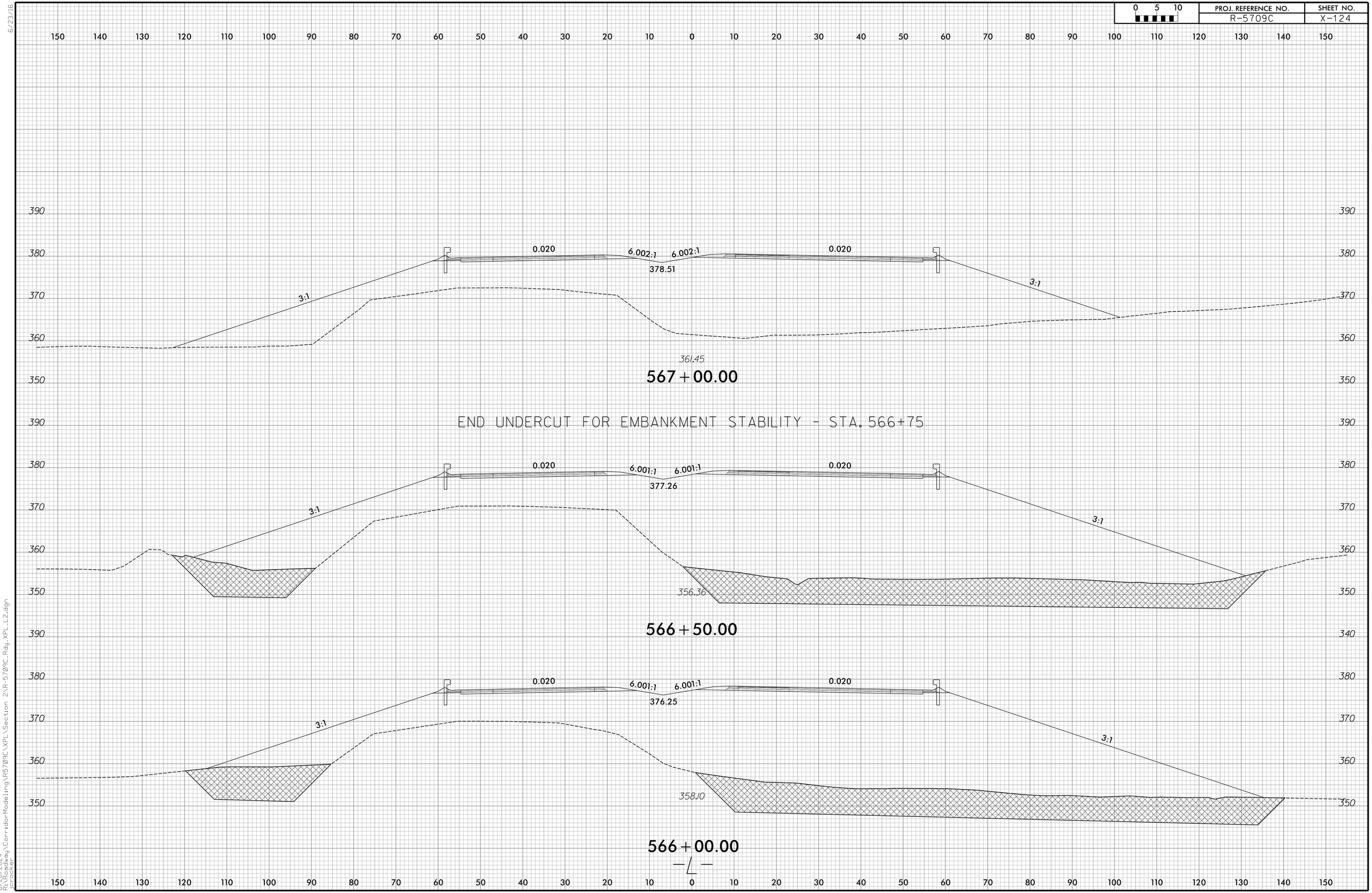
jcrocker

0 5 10	PROJ. REFERENCE NO.	SHEET NO.
	R-5709C	X-124



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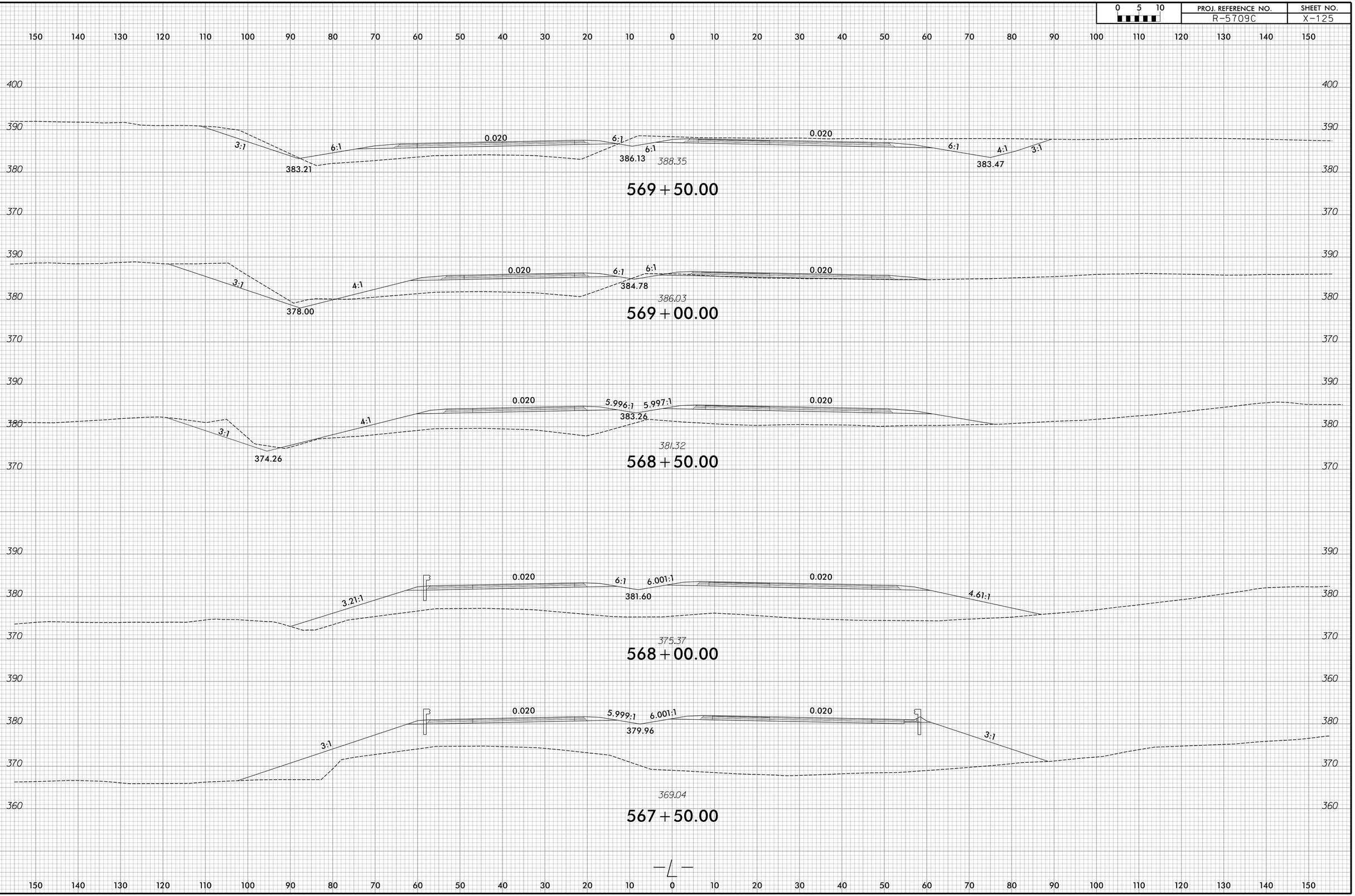
jcrocker

0 5 10	PROJ. REFERENCE NO.	SHEET NO.
	R-5709C	X-125



6/23/16

10/14/2024
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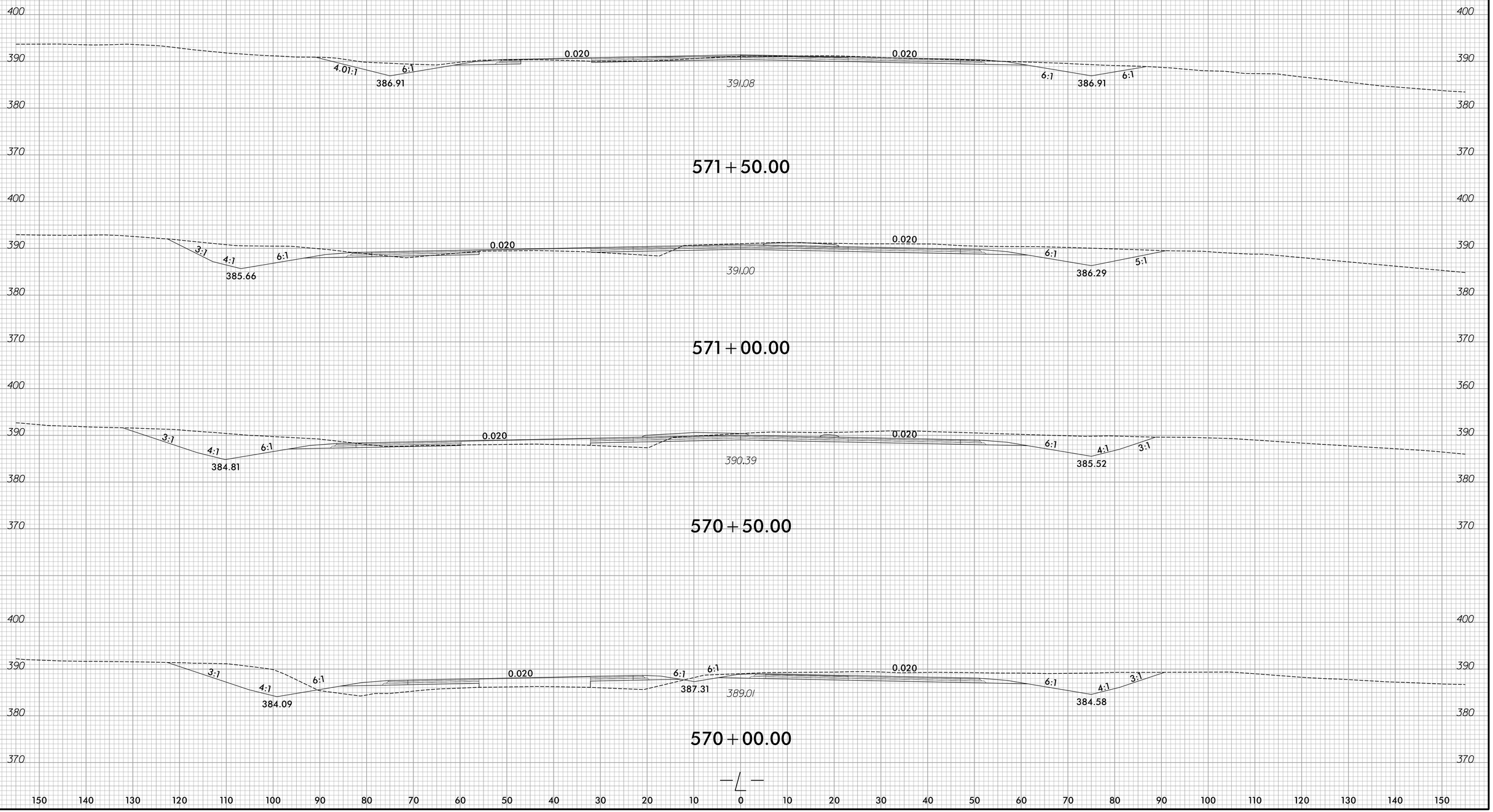
gmacpherson

0 5 10	PROJ. REFERENCE NO.	SHEET NO.
	R-5709C	X-126



6/23/16

10/14/2024
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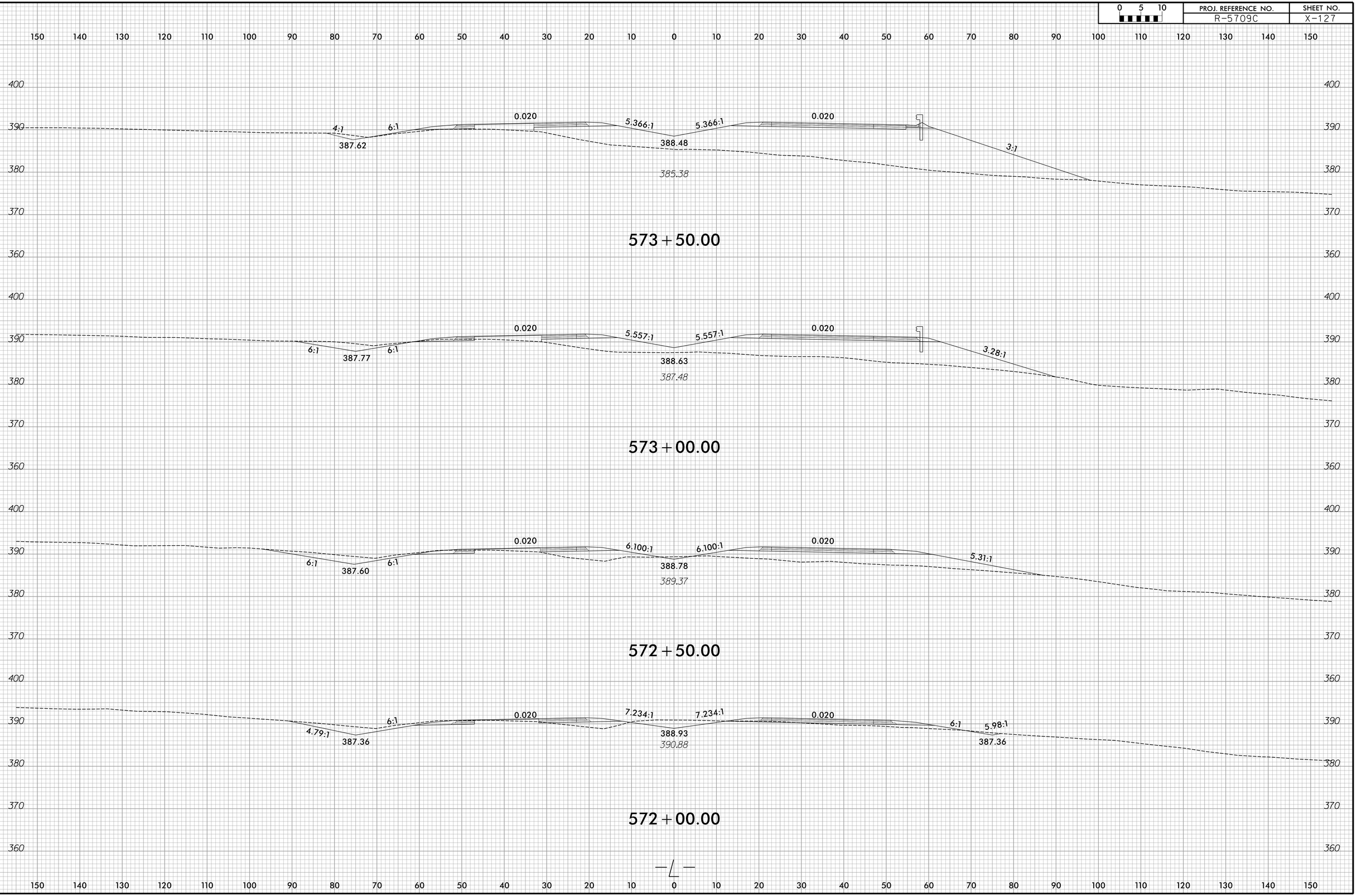
gmacpherson

0 5 10	PROJ. REFERENCE NO.	SHEET NO.
	R-5709C	X-127



6/23/16

8/28/2024
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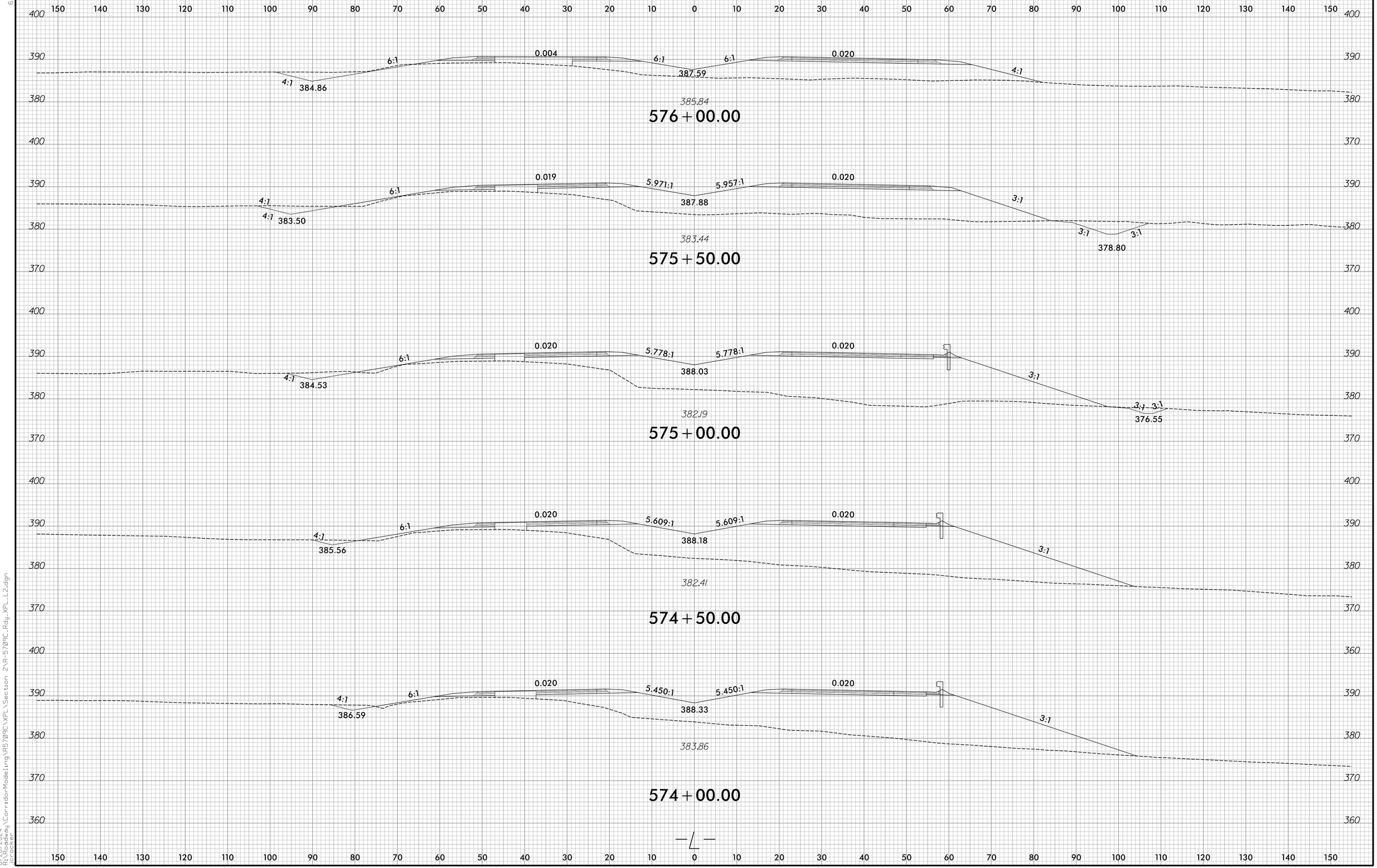
jcrocker



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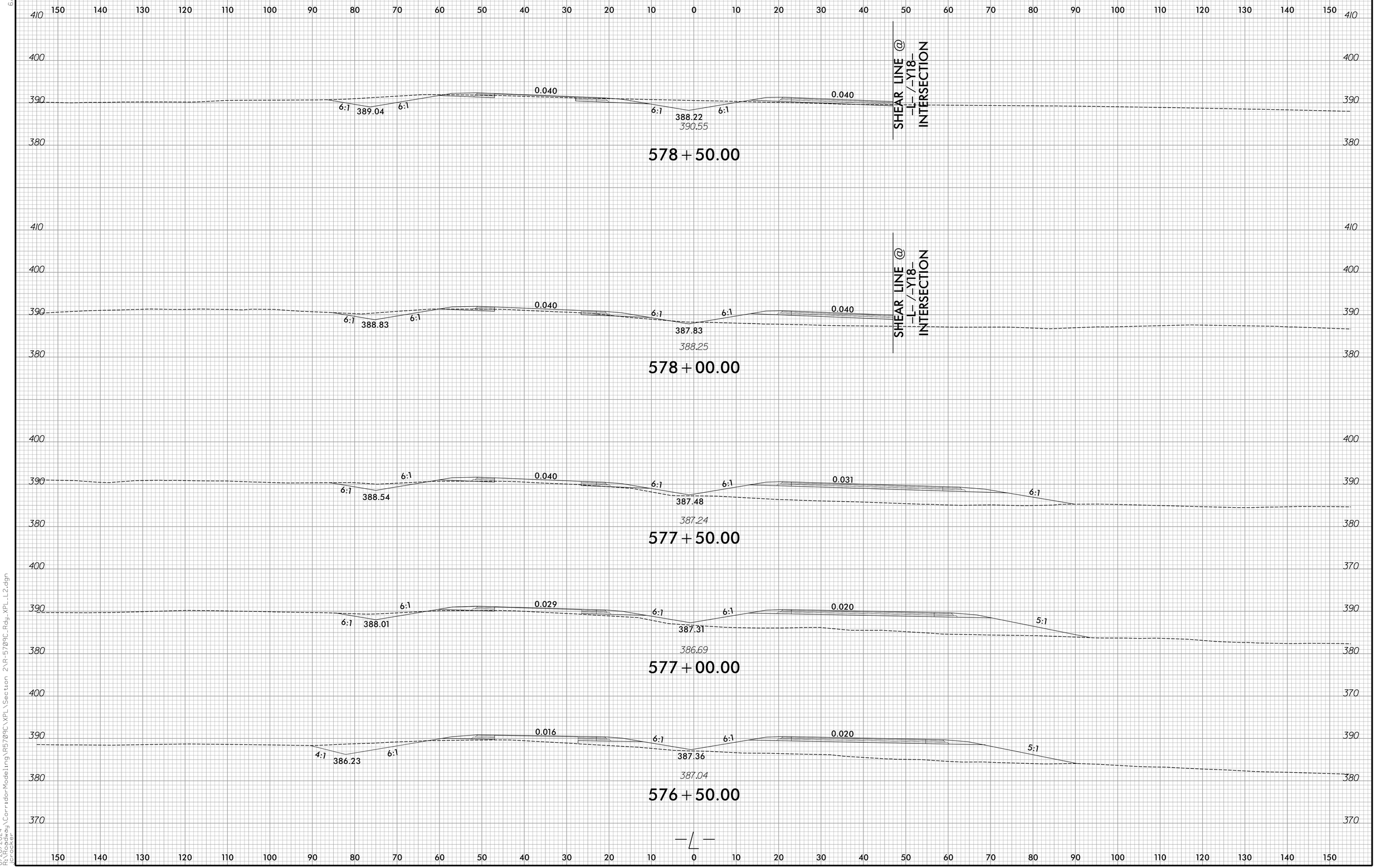
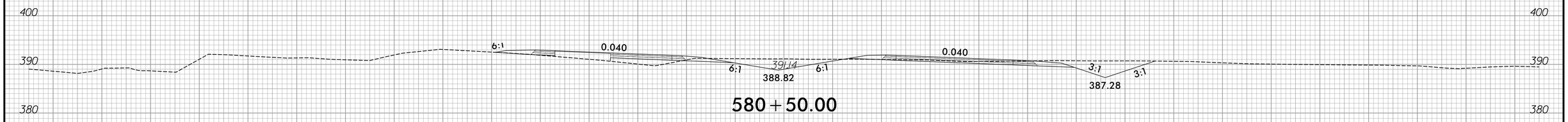
8/28/2024
R:\Roadway\CorridorModeling\R5709C\XPL\Section 2\R-5709C_Rdy_XPL_L2.dgn
jcrocker

0 5 10	PROJ. REFERENCE NO.	SHEET NO.
	R-5709C	X-129

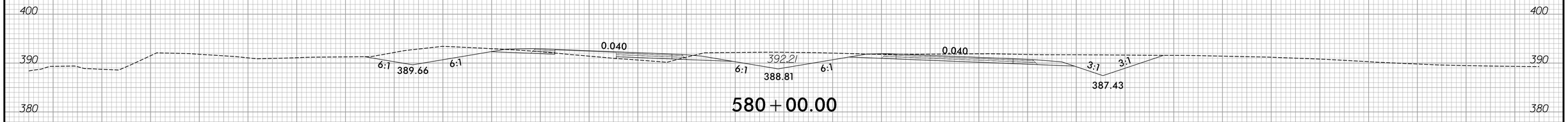


0 5 10	PROJ. REFERENCE NO.	SHEET NO.
	R-5709C	X-130

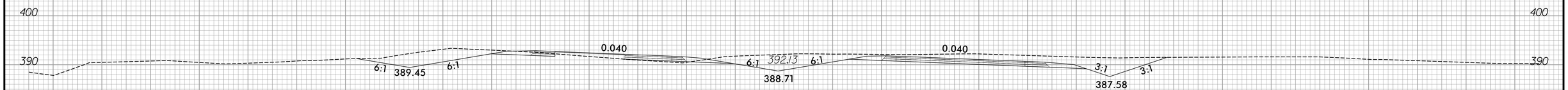
150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150



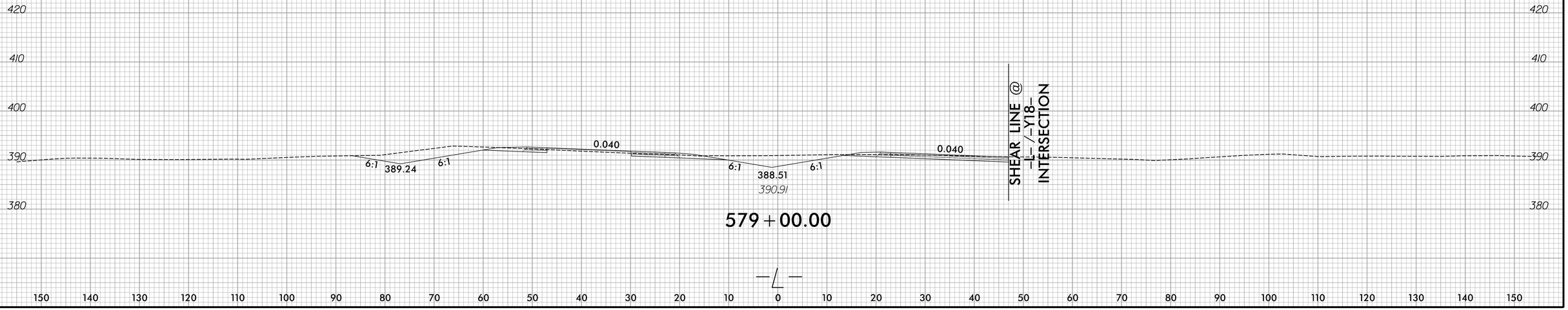
580+50.00



580+00.00



579+50.00



579+00.00

—L—

150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

0 5 10	PROJ. REFERENCE NO.	SHEET NO.
	R-5709C	X-131

150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

400 / 390 / 380

3:1 0.040 6.442:1 6.008:1 0.040 3:1

387.57

384.81

583+00.00

400 / 390 / 380 — 400 / 390 / 370

3:1 0.040 6.001:1 5.988:1 0.040 3:1

387.90

385.93

582+50.00

400 / 390 / 380 — 400 / 390 / 370

3:1 0.040 6:1 6:1 0.040 3:1

388.27

387.09

582+00.00

400 / 390 / 380

6:1 0.040 6:1 6:1 0.040 3:1 3:1

388.55 386.98

388.81

581+50.00

400 / 390 / 380

6:1 0.040 6:1 6:1 0.040 3:1 3:1

388.74 387.13

390.29

581+00.00

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150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

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gmacpherson

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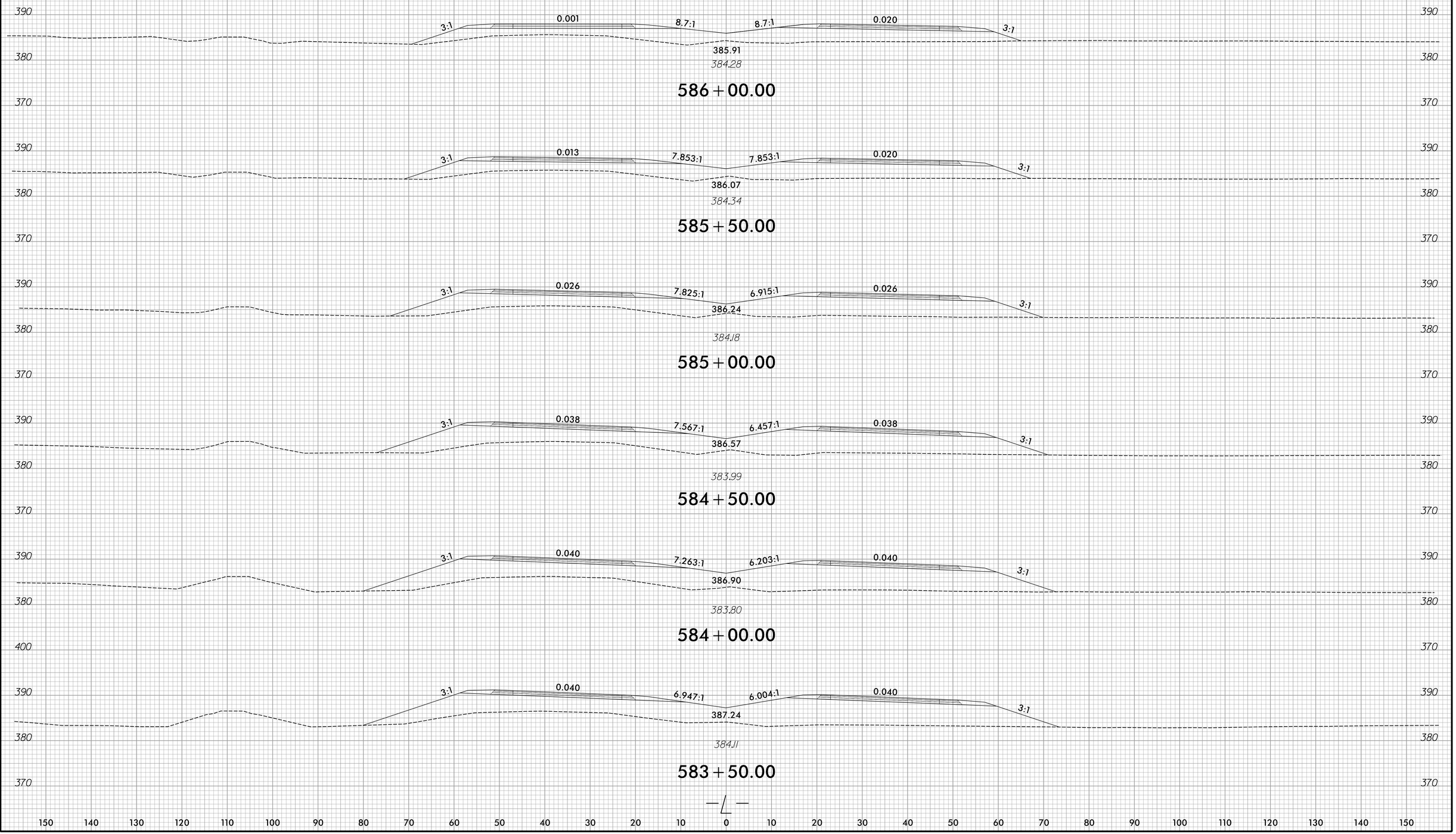

0 5 10	PROJ. REFERENCE NO.	SHEET NO.
	R-5709C	X-133

150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

390 / 380 / 370

0.020 | 6.561:1 | 6.561:1 | 0.020 | 3:1 | 3:1 | 385.13 | 382.34

589+00.00

390 / 380 / 370

0.020 | 6.587:1 | 6.587:1 | 0.020 | 3:1 | 3:1 | 384.91 | 382.73

588+50.00

390 / 380 / 370

0.020 | 6.358:1 | 6.358:1 | 0.020 | 5:1 | 3:1 | 384.69 | 383.07

588+00.00

390 / 380 / 370

0.020 | 8.7:1 | 8.7:1 | 0.020 | 5:1 | 3:1 | 384.58 | 383.34

587+50.00

390 / 380 / 370

0.020 | 9.3:1 | 9.3:1 | 0.020 | 3:1 | 3:1 | 385.57 | 383.76

587+00.00

390 / 380 / 370

0.012 | 9.2:1 | 9.2:1 | 0.020 | 3:1 | 3:1 | 385.24 | 384.17

586+50.00

—℄—

150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

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10/14/2024
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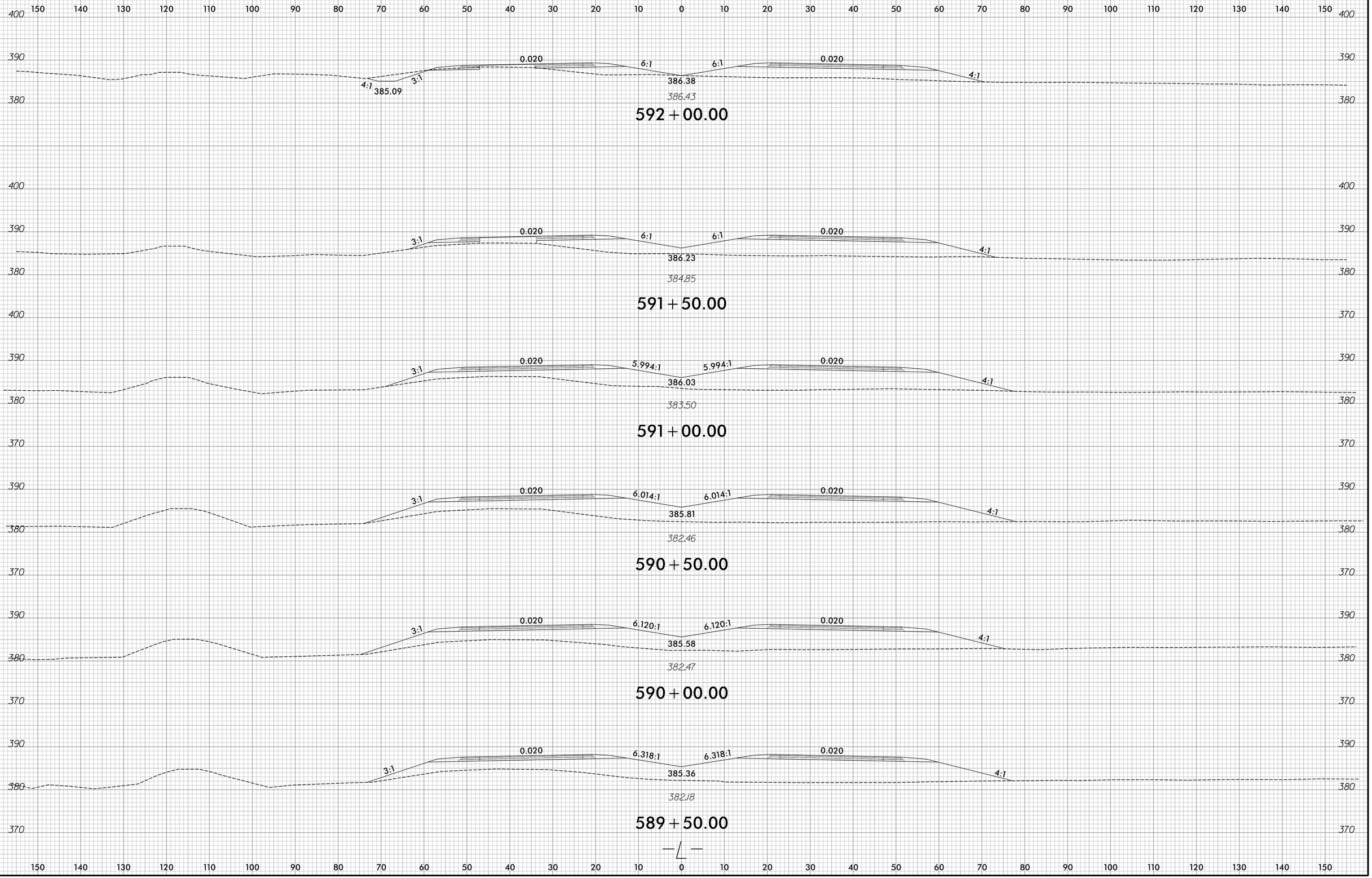
gmacpherson



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10/14/2024
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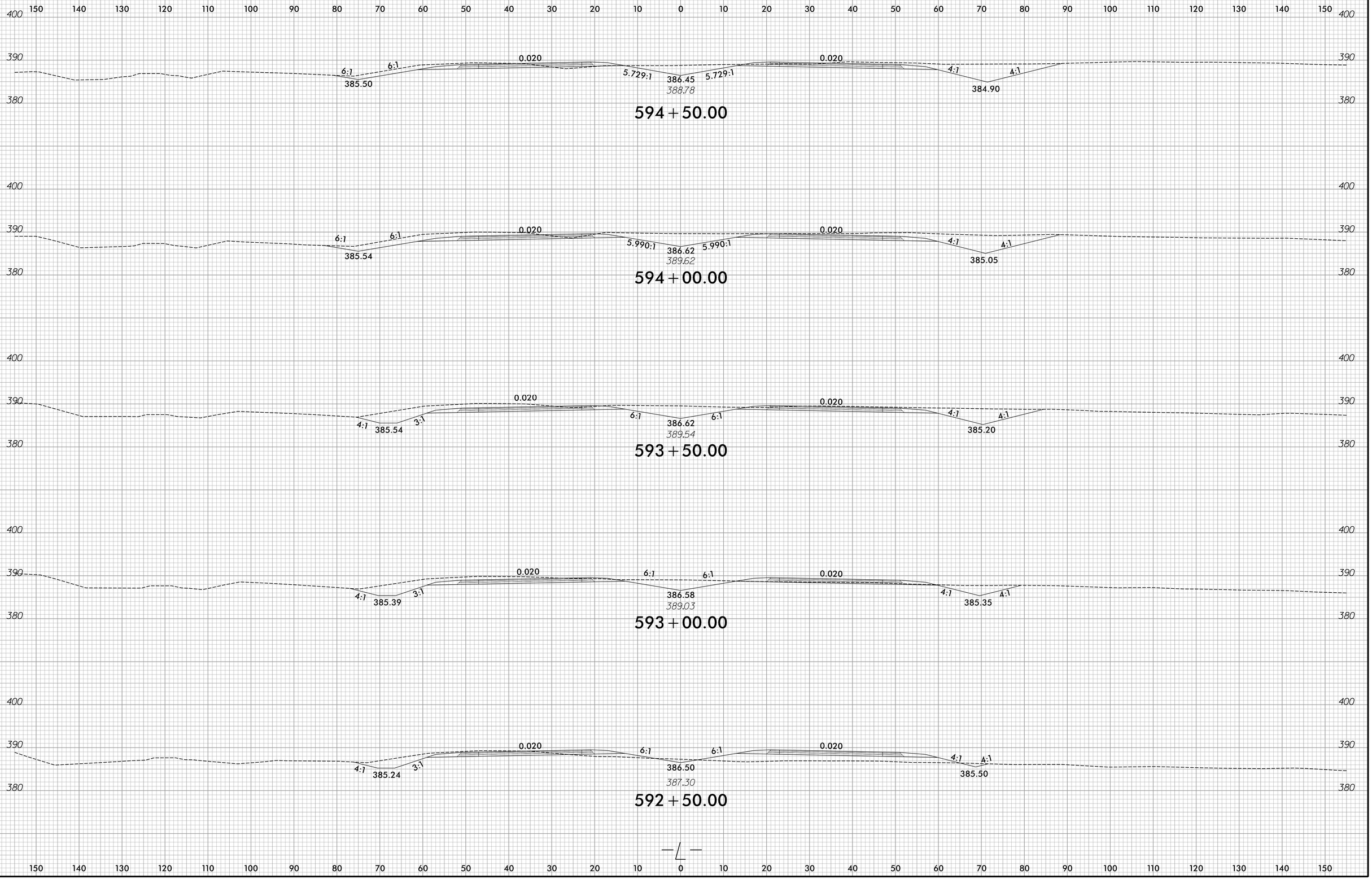
gmacpherson

0 5 10	PROJ. REFERENCE NO.	SHEET NO.
	R-5709C	X-135



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10/14/2024
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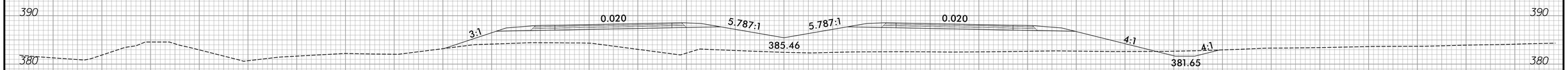
gmacpherson

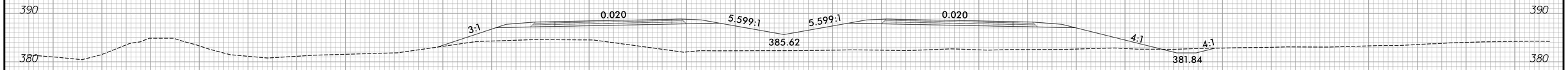
0 5 10	PROJ. REFERENCE NO.	SHEET NO.
	R-5709C	X-136

150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150



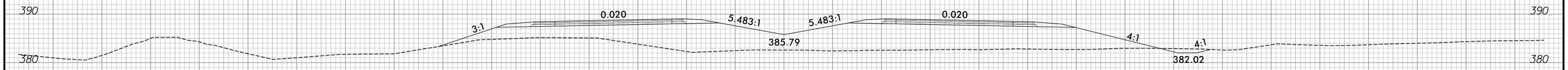
382.45

597+50.00



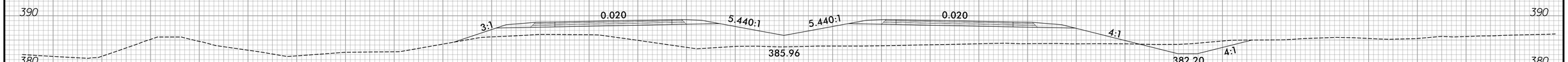
382.30

597+00.00



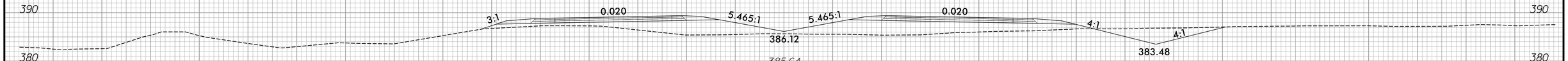
382.61

596+50.00



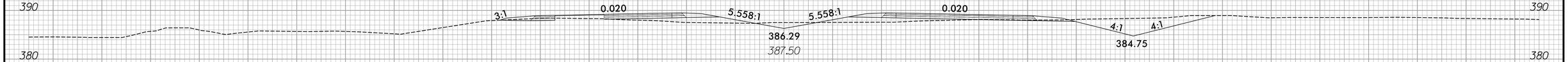
383.61

596+00.00



385.64

595+50.00



387.50

595+00.00

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150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

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10/14/2024
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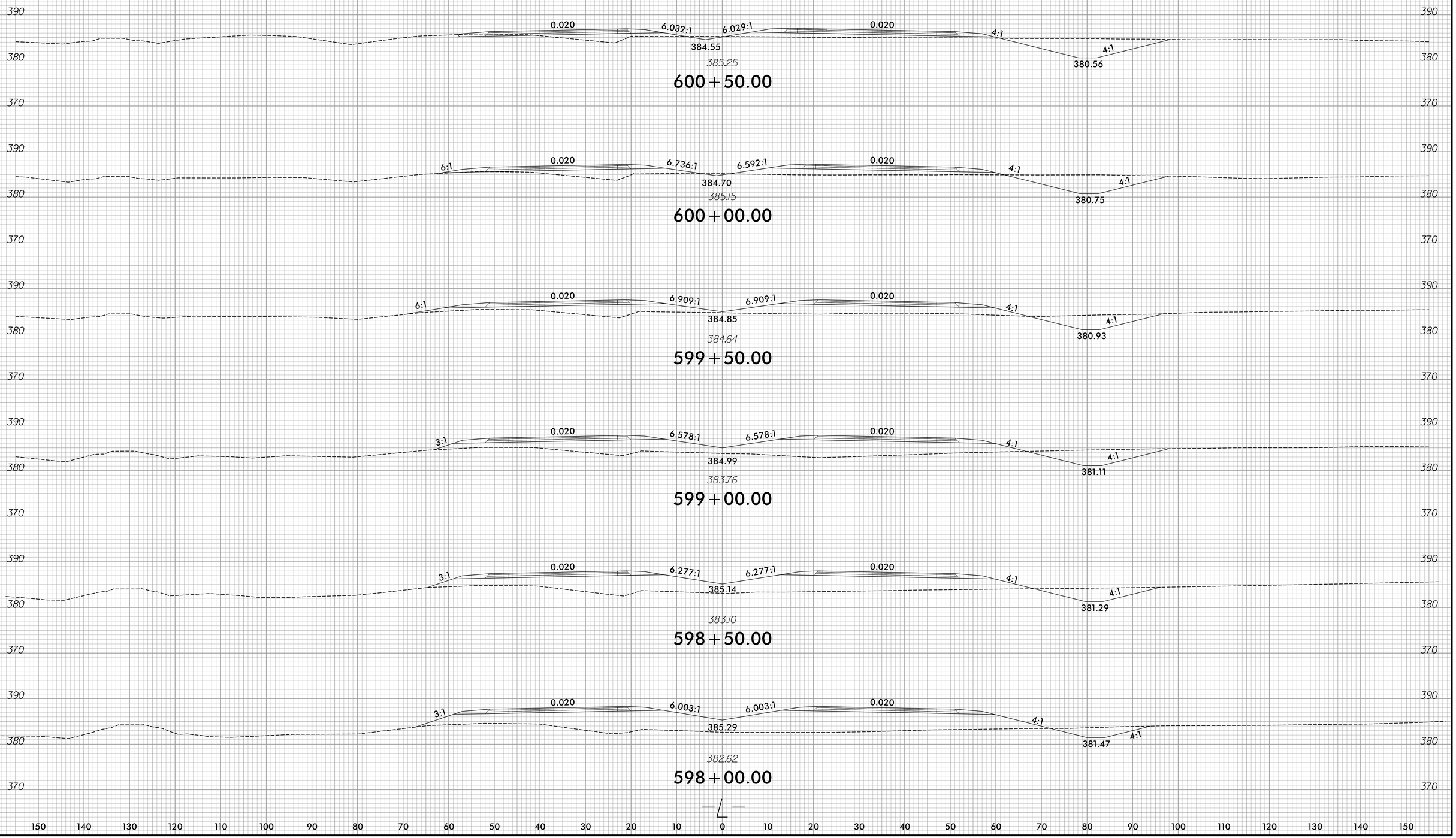
gmacpherson

150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150



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gmacpherson

0 5 10

PROJ. REFERENCE NO.	SHEET NO.
R-5709C	X-138

150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

390 / 380 / 370

12.5:1 — 0.020 — 6.493:1 — 6.070:1 — 0.020 — 4:1 — 4:1

383.66

379.47

382.24

603+50.00

12.5:1 — 0.020 — 6.166:1 — 6.017:1 — 0.020 — 4:1 — 4:1

383.81

379.65

382.70

603+00.00

12.5:1 — 0.020 — 5.925:1 — 5.934:1 — 0.020 — 4:1 — 4:1

383.96

379.84

383.67

602+50.00

12.5:1 — 0.020 — 5.585:1 — 5.633:1 — 0.020 — 4:1 — 4:1

384.10

380.02

384.20

602+00.00

12.5:1 — 0.020 — 5.233:1 — 5.316:1 — 0.020 — 4:1 — 4:1

384.25

380.20

384.66

601+50.00

6:1 — 6:1 — 0.020 — 5.317:1 — 5.379:1 — 0.020 — 4:1 — 4:1

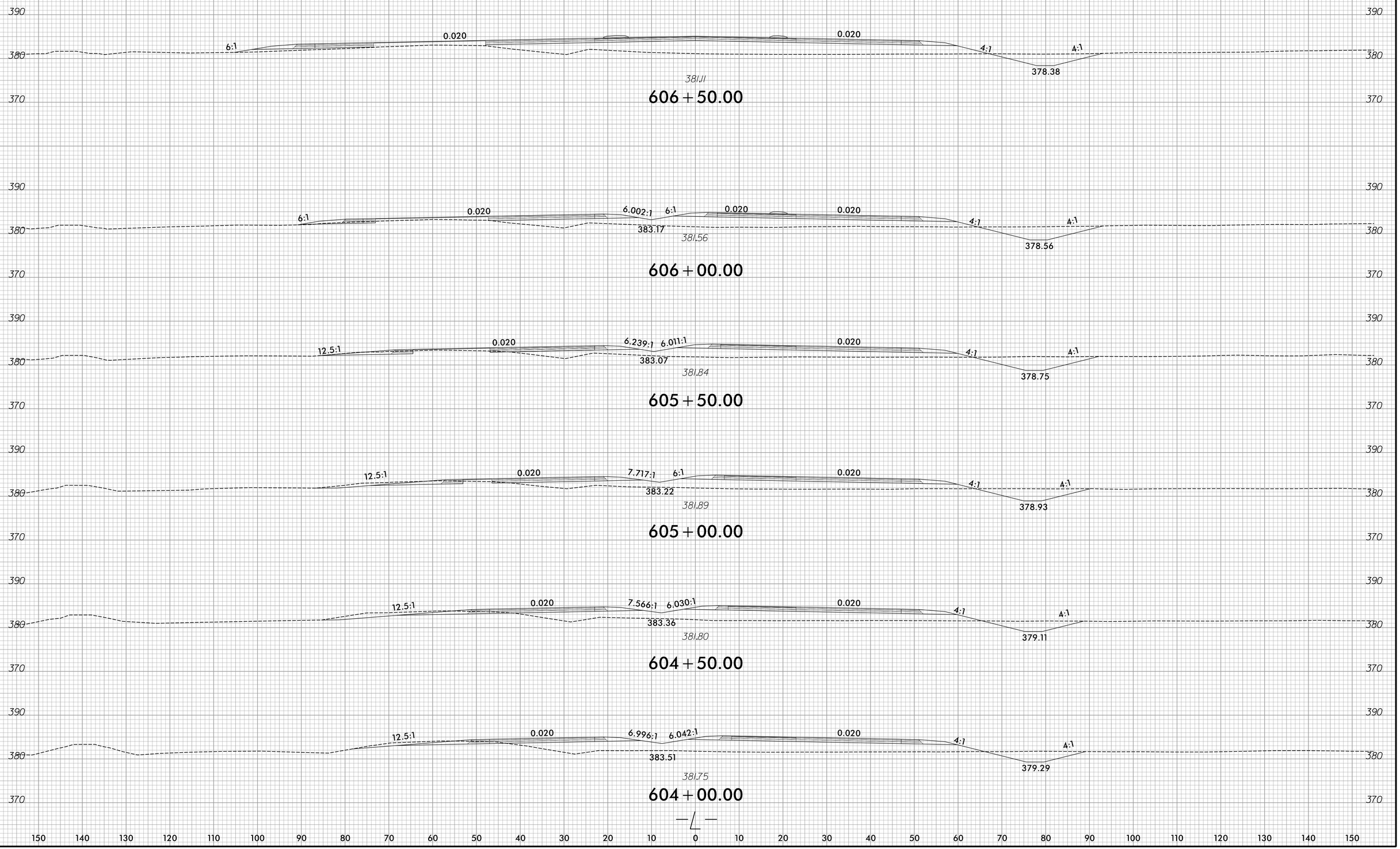
382.57

384.40

380.38

385.06

601+00.00



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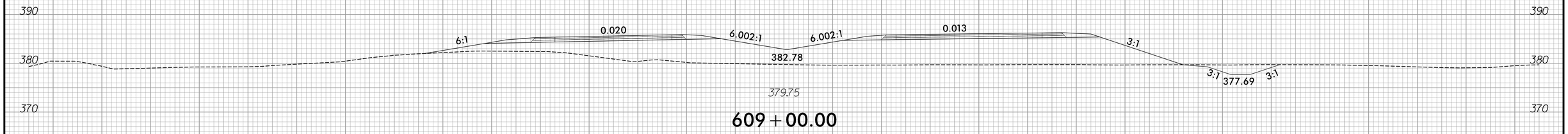
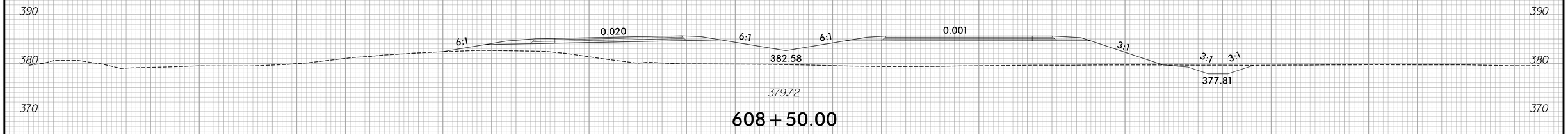
gmacpherson

0 5 10	PROJ. REFERENCE NO.	SHEET NO.
	R-5709C	X-140

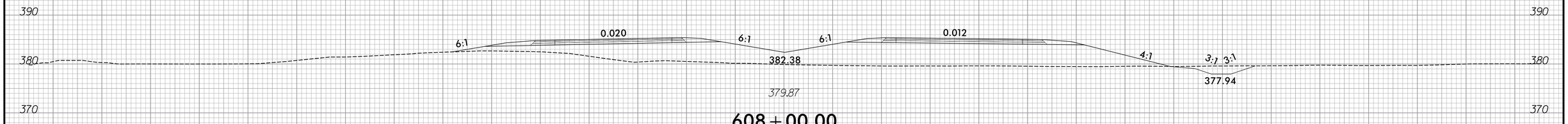
150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150



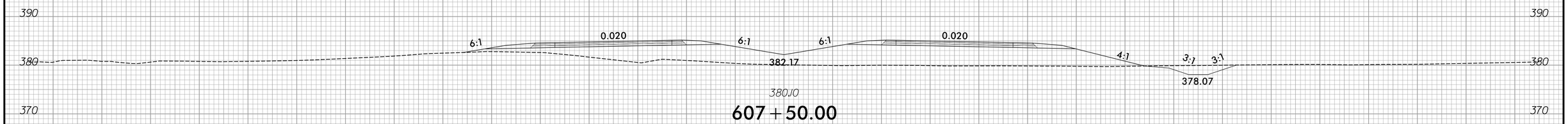
609+00.00



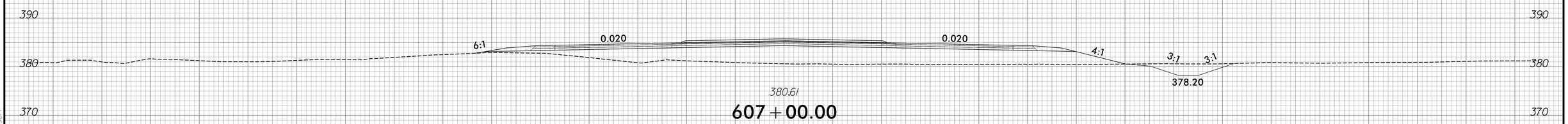
608+50.00



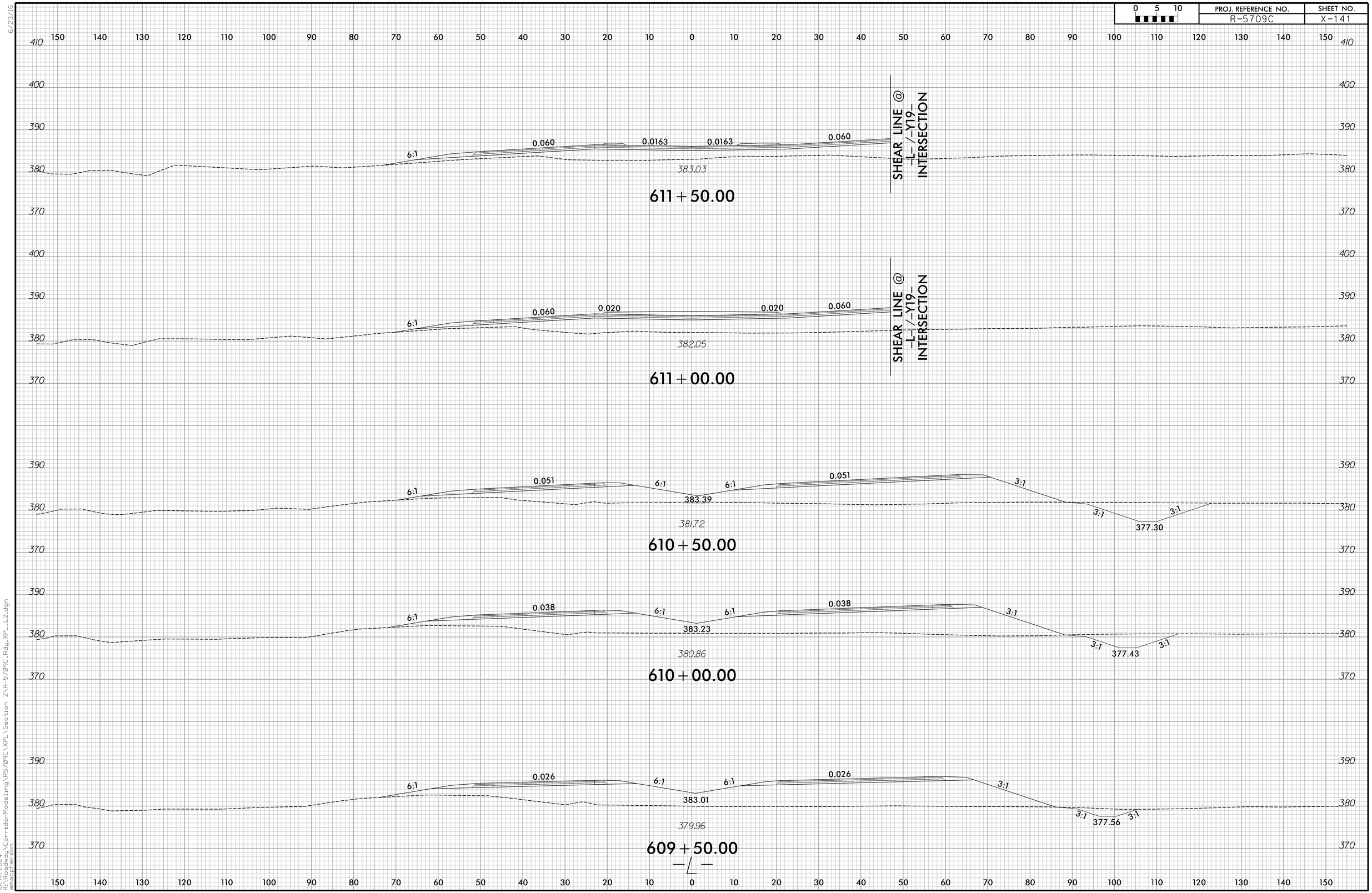
608+00.00



607+50.00



607+00.00



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amacpherson

0 5 10	PROJ. REFERENCE NO.	SHEET NO.
	R-5709C	X-142

150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

390 380 370

5:1 0.060 5:1 4.648:1 0.060 3:1 3:1 3:1

383.93 376.10

381.51

614+50.00

390 380 370

6:1 0.060 0.048 5:1 4.761:1 0.060 3:1 3:1 3:1

384.08 376.25

382.53

614+00.00

390 380 370

3:1 6:1 0.060 0.035 5:1 5.025:1 0.060 3:1 3:1 3:1

380.80 384.23 376.40

382.94

613+50.00

390 380 370

6:1 6:1 0.060 0.022 5:1 5.441:1 0.060 3:1 3:1 3:1

380.95 384.38 376.55

382.62

613+00.00

390 380 370

6:1 6:1 0.060 0.009 5:1 5.904:1 0.060 3:1 3:1 3:1

381.10 384.53 376.70

382.71

612+50.00

400 390 380 370

6:1 0.060 0.004 6:1 6:1 0.060

384.68

383.60

612+00.00

—L—

SHEAR LINE @ —L— Y19_ INTERSECTION

150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

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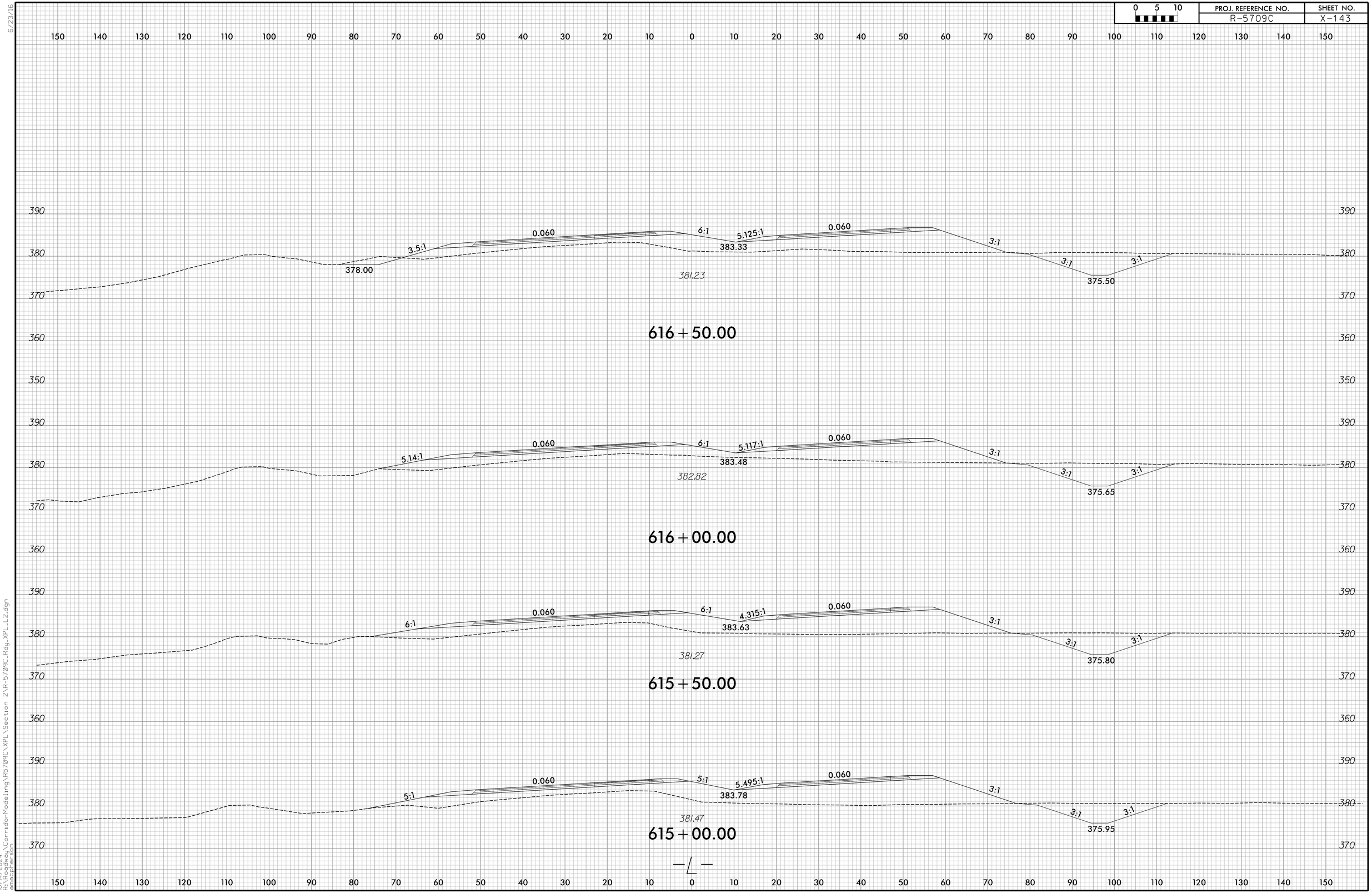
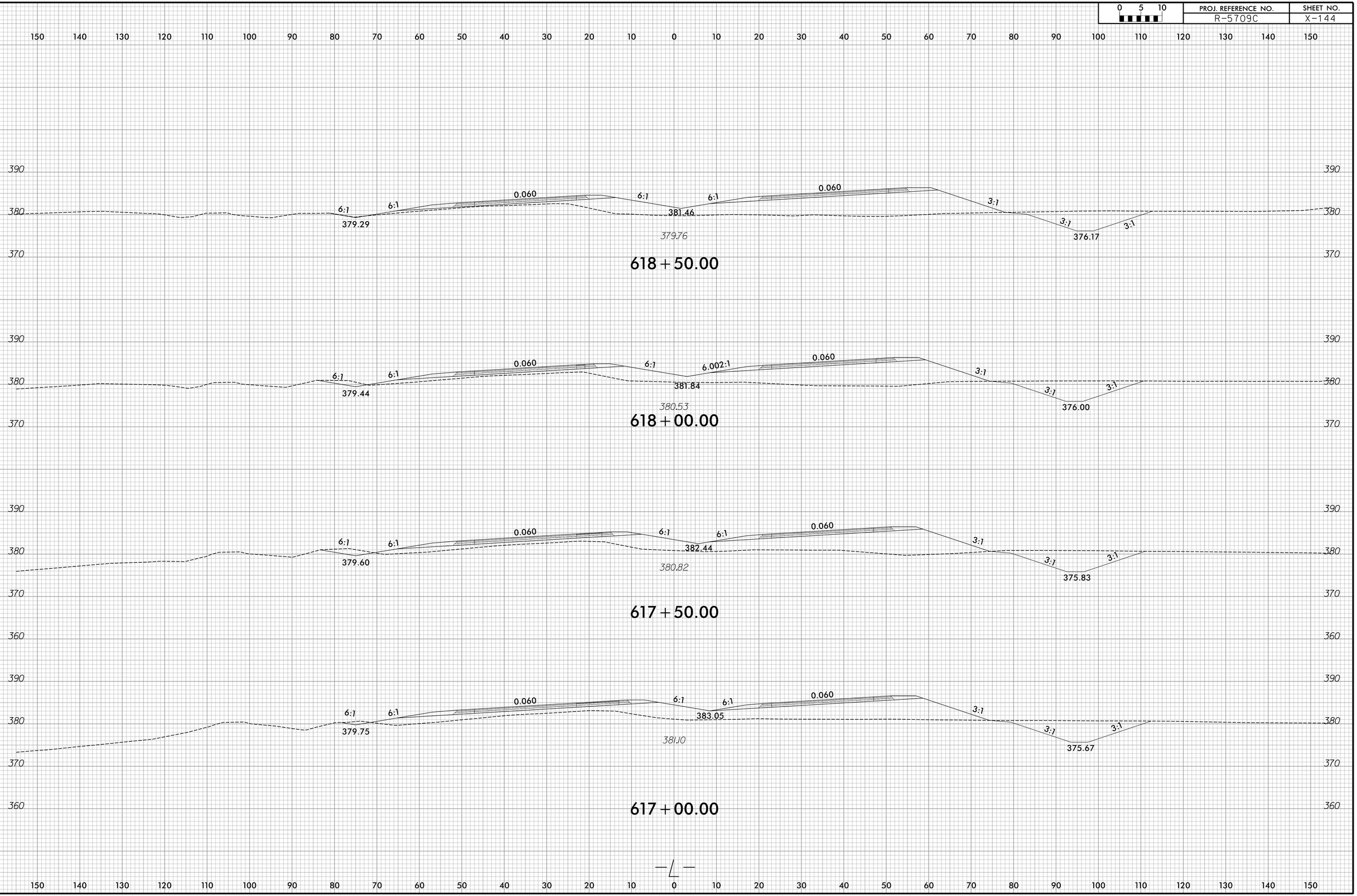
R:\Roadway\CorridorModeling\R5709C\XPL\Section 2\R-5709C_Rdy_XPL_L2.dgn
amacpherson

0 5 10	PROJ. REFERENCE NO.	SHEET NO.
	R-5709C	X-143



0 5 10	PROJ. REFERENCE NO.	SHEET NO.
	R-5709C	X-144



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10/14/2024
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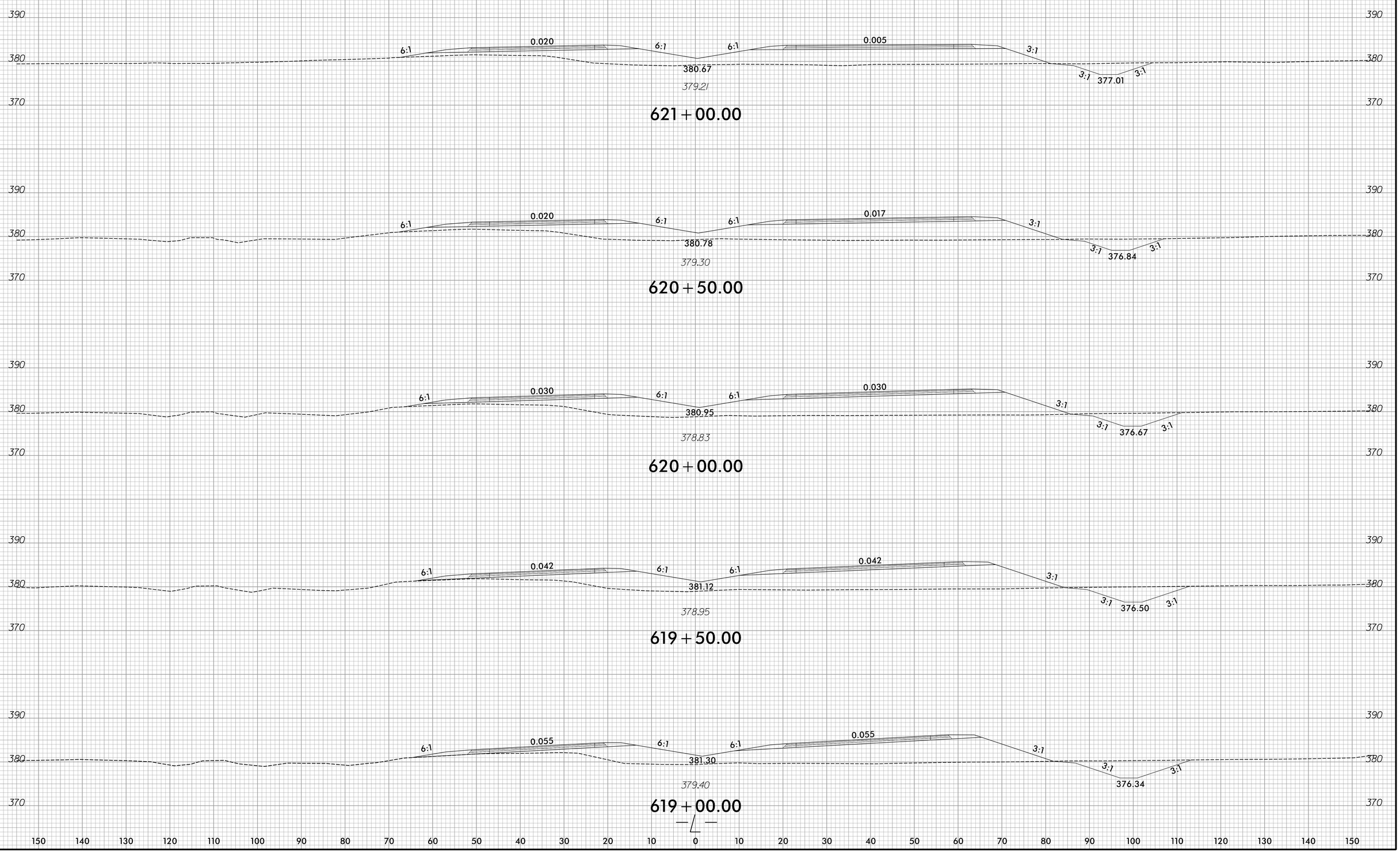
amacpherson



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10/14/2024
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amacpherson

150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

400 390 380 370

SHEAR LINE @ -L- /-Y20- INTERSECTION

6:1 0.020 0.020

380.65

623+00.00

400 390 380 370

SHEAR LINE @ -L- /-Y20- INTERSECTION

6:1 0.020 0.020

381.01

622+50.00

390 380 370

6:1 0.020 6:1 5.998:1 0.020 3:1 3:1 3:1

380.44 377.34

379.73

622+00.00

390 380 370

6:1 0.020 6:1 6:1 0.008 3:1 3:1 3:1

380.56 377.17

379.70

621+50.00

—L—

150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

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10/14/2024
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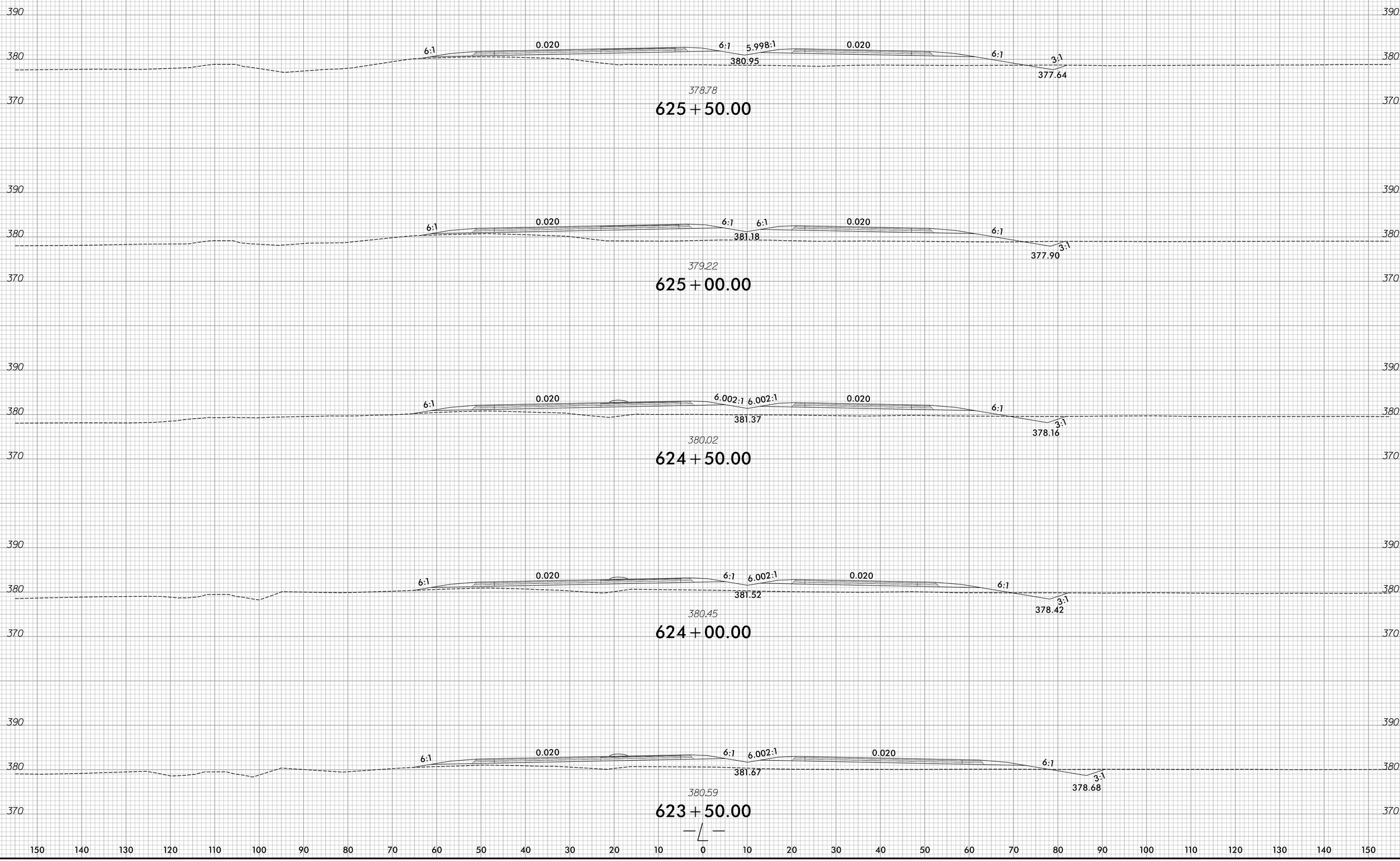
amcpherson

0 5 10	PROJ. REFERENCE NO.	SHEET NO.
	R-5709C	X-147

150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150



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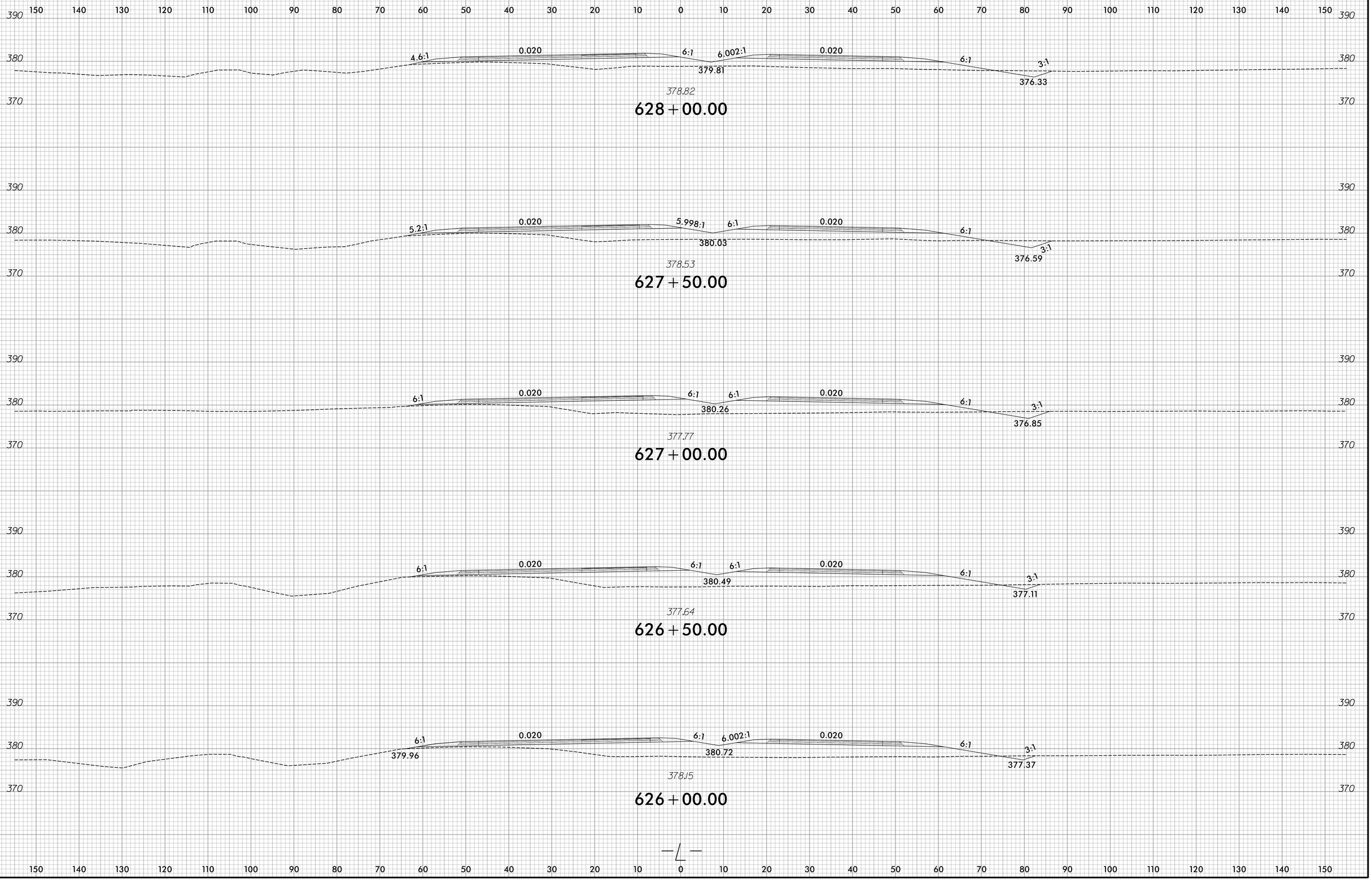
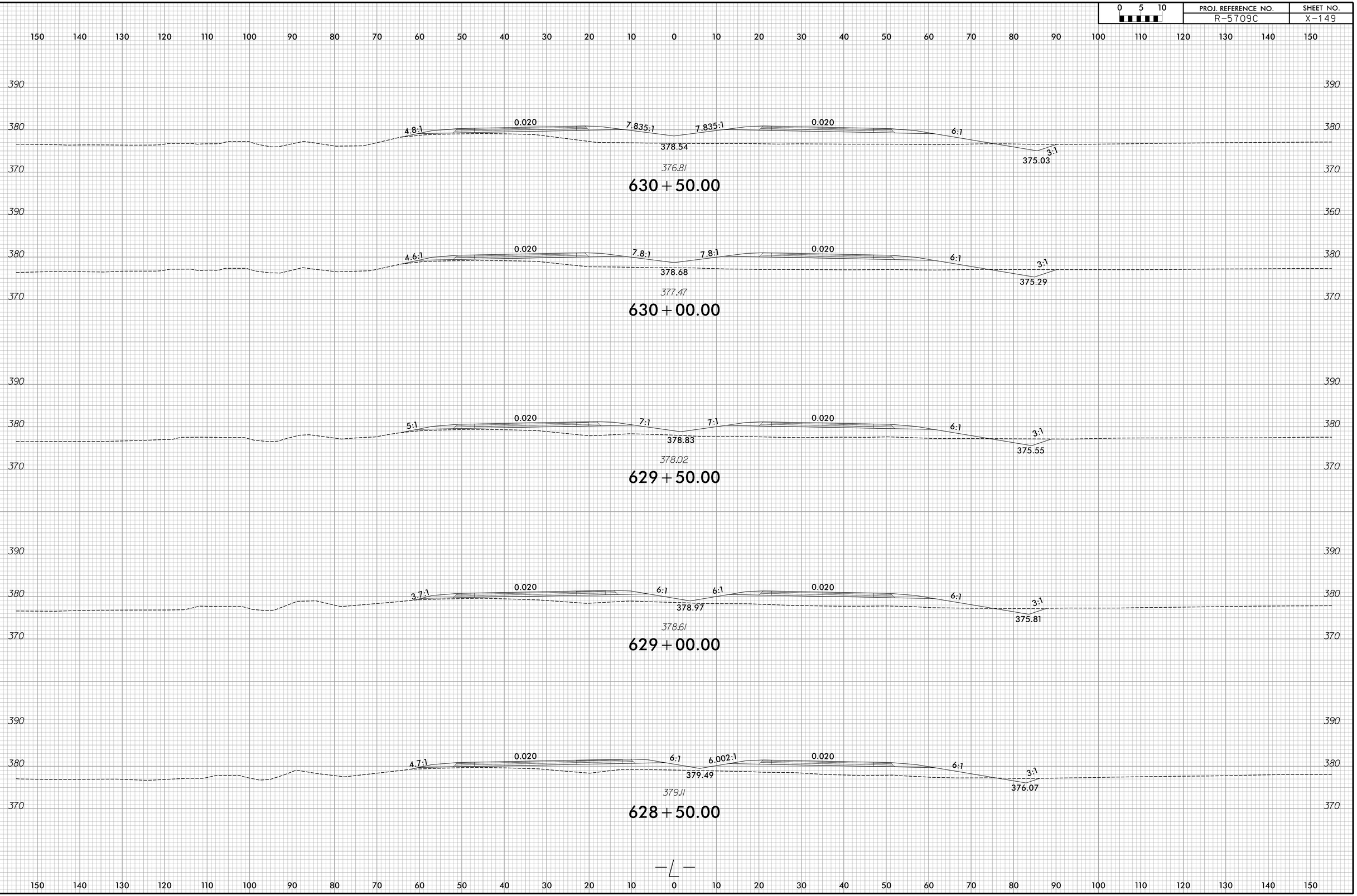
	R-5709C	X-148





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8/28/2024
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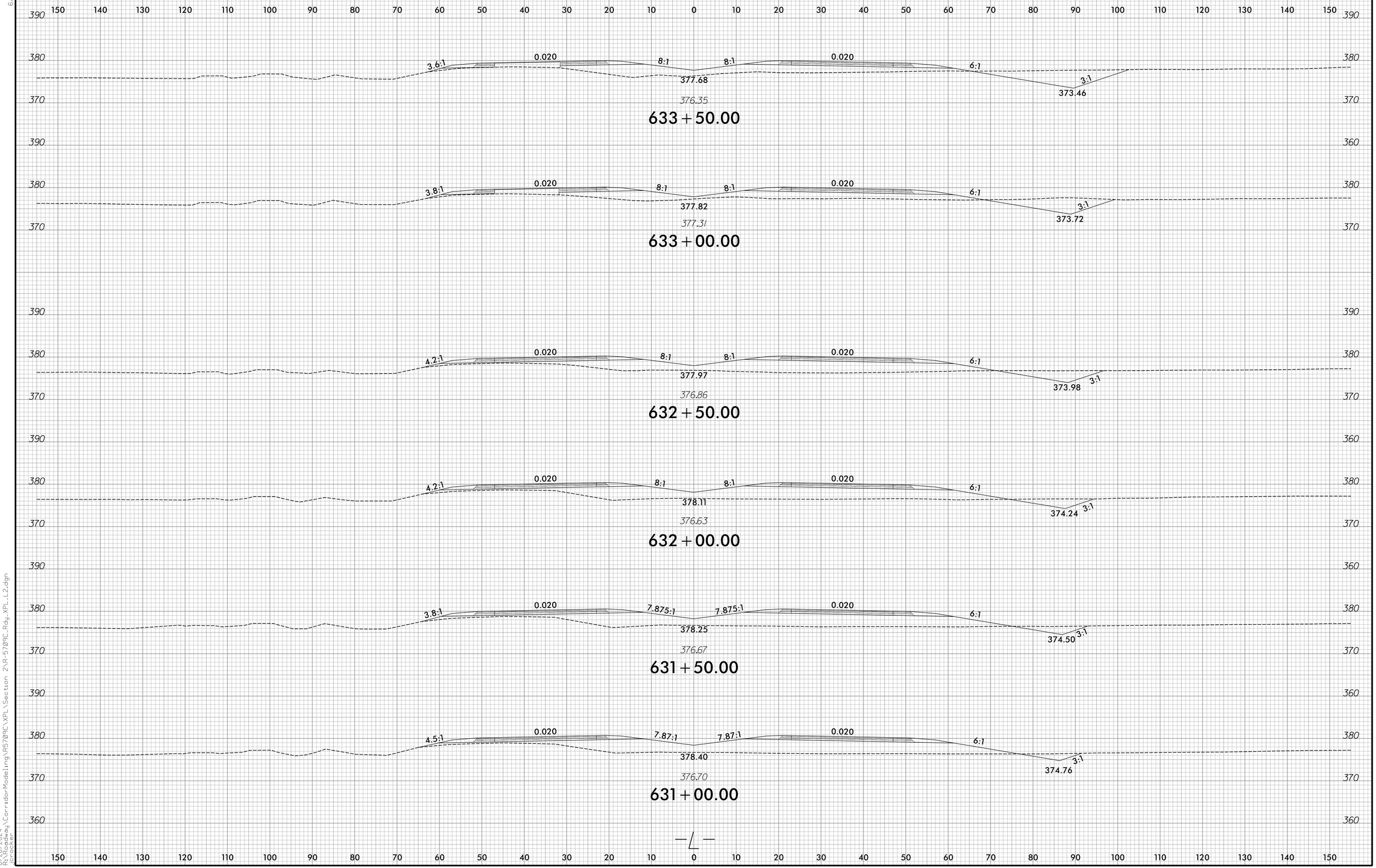
jbrooker

0 5 10	PROJ. REFERENCE NO.	SHEET NO.
	R-5709C	X-150



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0 5 10	PROJ. REFERENCE NO.	SHEET NO.
	R-5709C	X-151

150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

390 / 380 / 370

4:1 0.020 6:1 6:1 0.020 6:1 3:1

375.99

376.70

636+50.00

390 / 380 / 370 / 360

4:1 0.020 6:1 6:1 0.020 6:1 3:1

376.21

376.94

636+00.00

390 / 380 / 370 / 360

4:1:1 0.020 6:1 6:1 0.020 6:1 3:1

376.37

377.06

635+50.00

390 / 380 / 370 / 360

4:1 0.020 6:1 6:1 0.020 6:1 3:1

376.52

376.95

635+00.00

390 / 380 / 370 / 360

4.2:1 0.020 6:1 5.998:1 0.020 6:1 3:1

376.67

376.83

634+50.00

390 / 380 / 370 / 360

3.8:1 0.020 5.998:1 6:1 0.020 6:1 3:1

376.82

376.54

634+00.00

360 / 370 / 380 / 390

150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

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jcrocker

0 5 10	PROJ. REFERENCE NO.	SHEET NO.
	R-5709C	X-152

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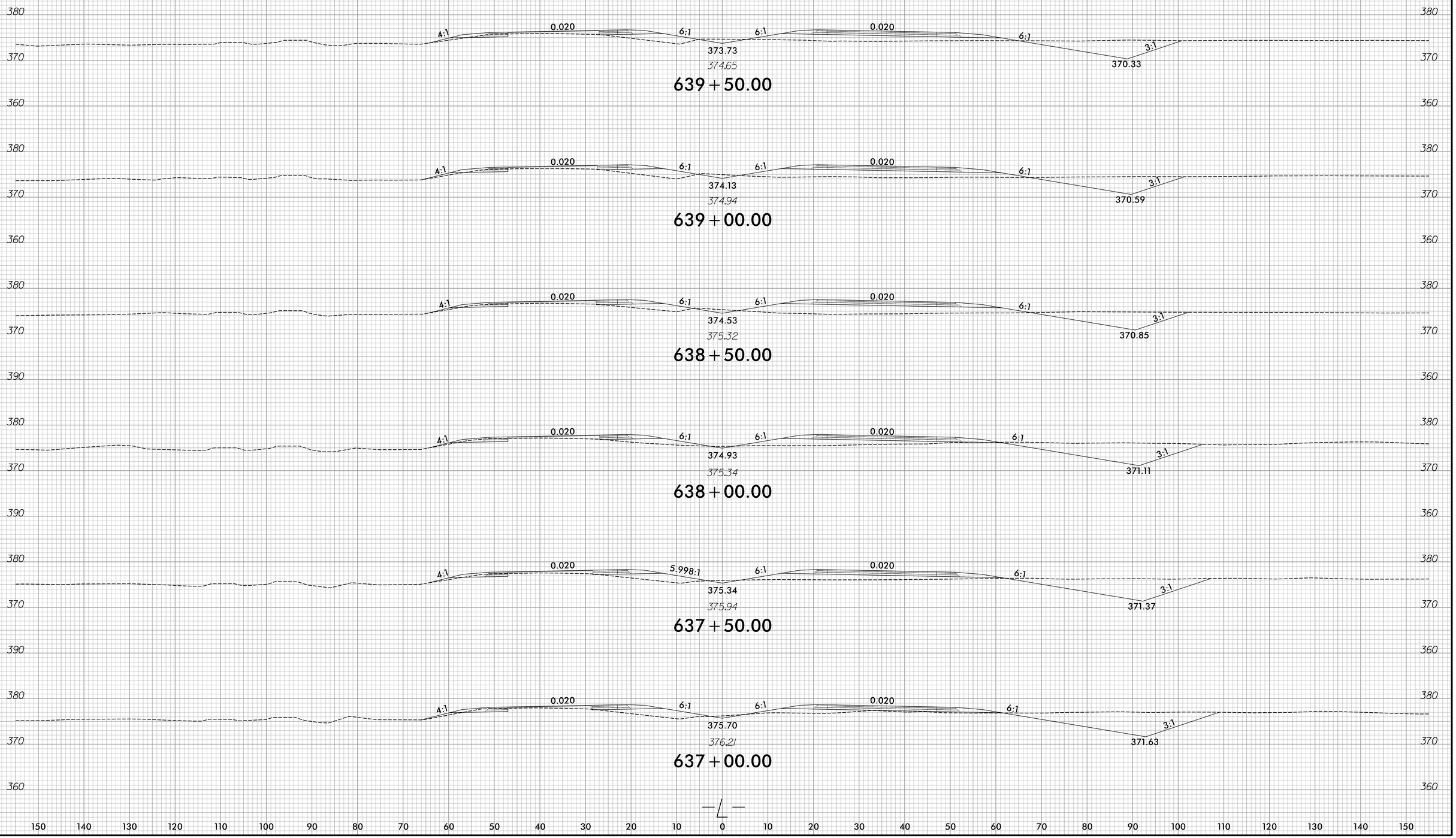

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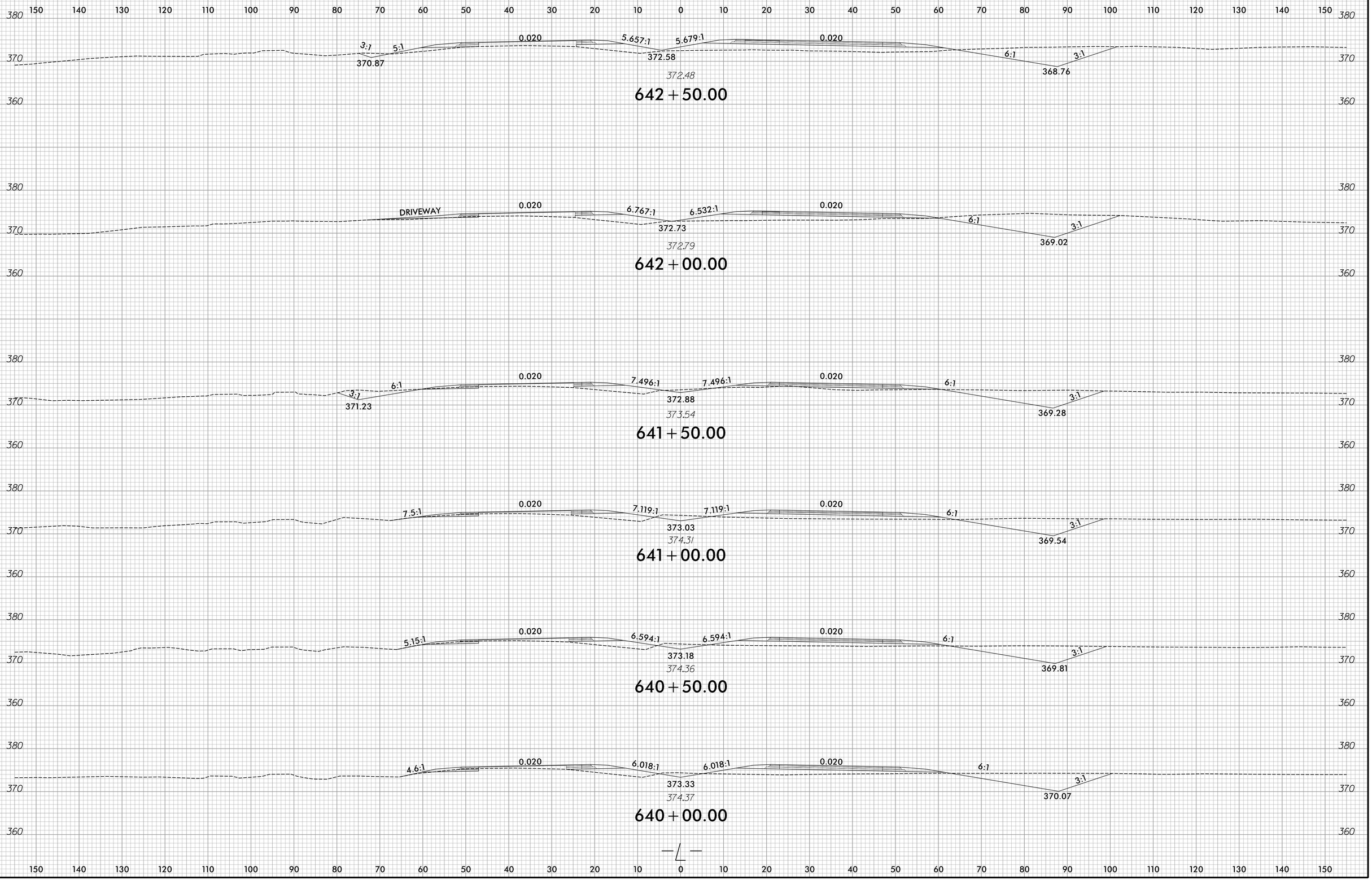
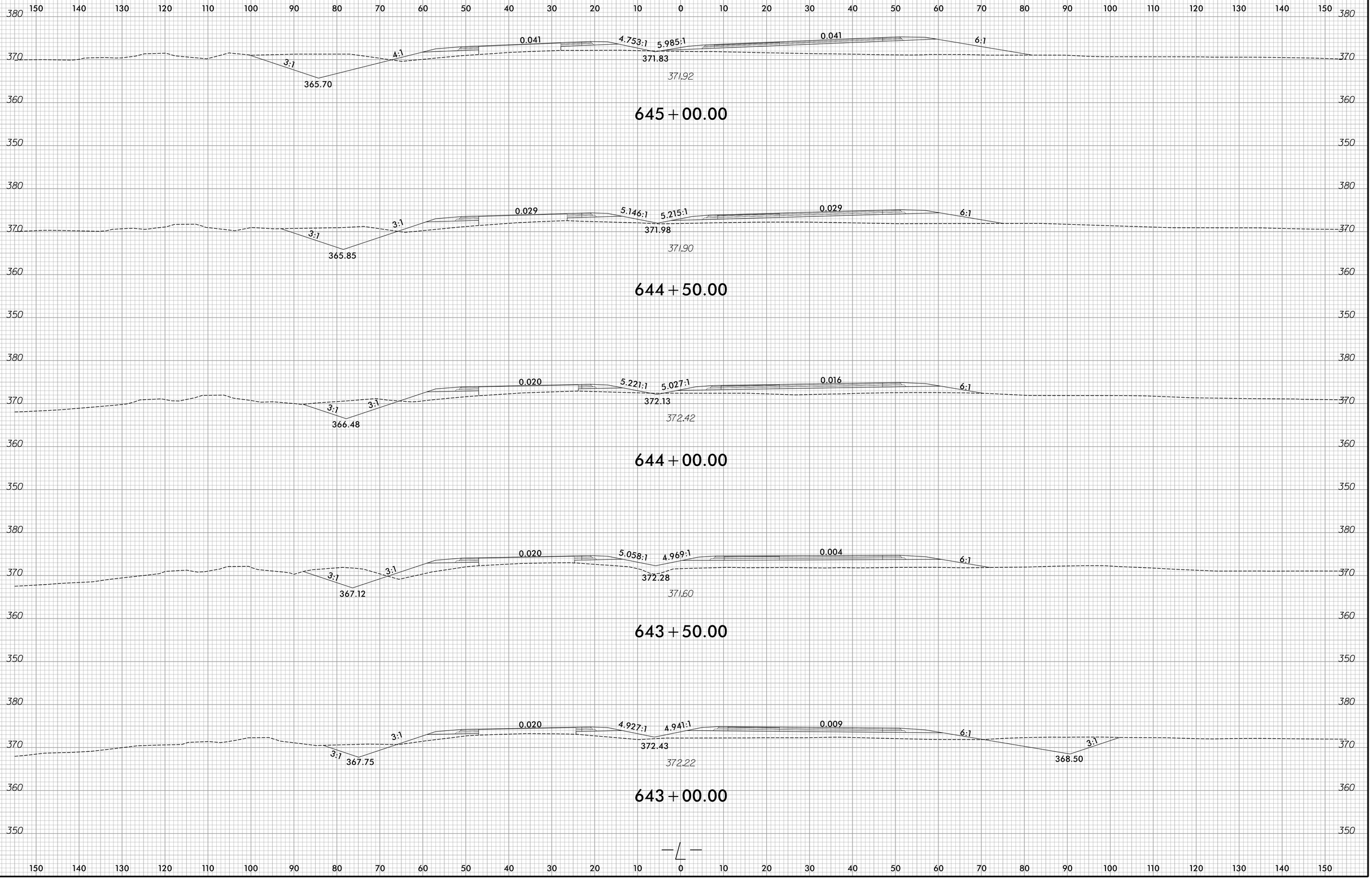
	R-5709C	X-153





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8/28/2024
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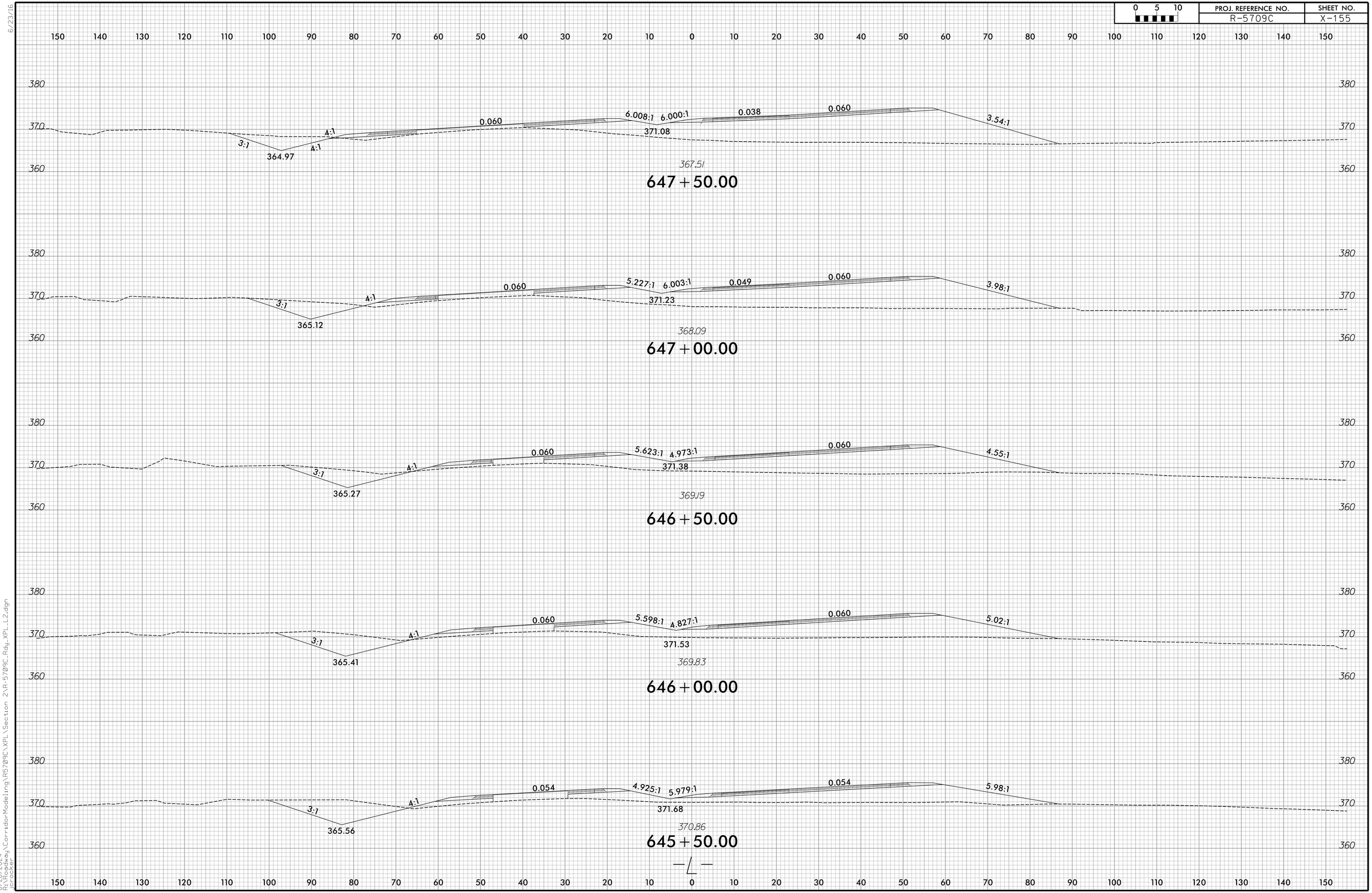
jcrocker



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8/28/2024
R:\Roadway\CorridorModeling\R5709C\XPL\Section 2\R-5709C_Rdy_XPL_L2.dgn
jcrocker

0 5 10	PROJ. REFERENCE NO.	SHEET NO.
	R-5709C	X-156

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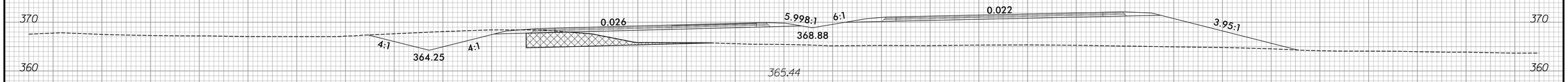
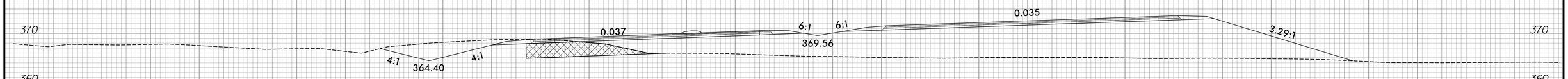
380 370 360 350

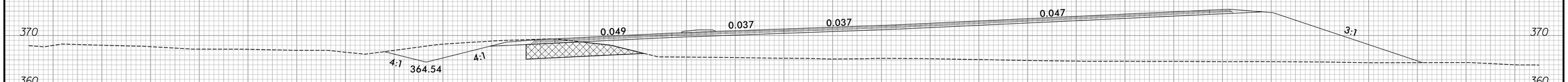
END UNDERCUT FOR SUBGRADE STABILITY STA. 650+25



650+00.00



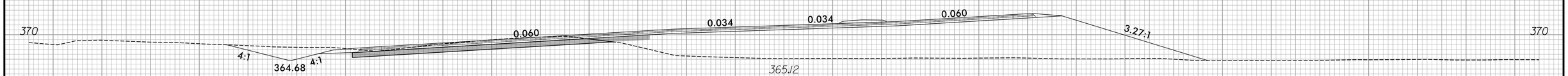
649+50.00



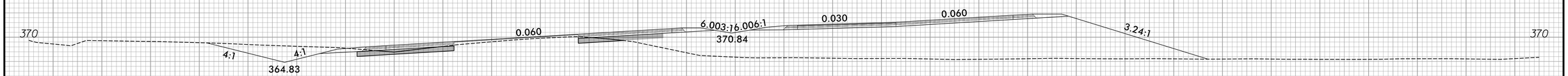
BEGIN UNDERCUT FOR SUBGRADE STABILITY - STA. 648+75

649+00.00

END SHALLOW UNDERCUT EXCAVATION - STA. 648+75



648+50.00

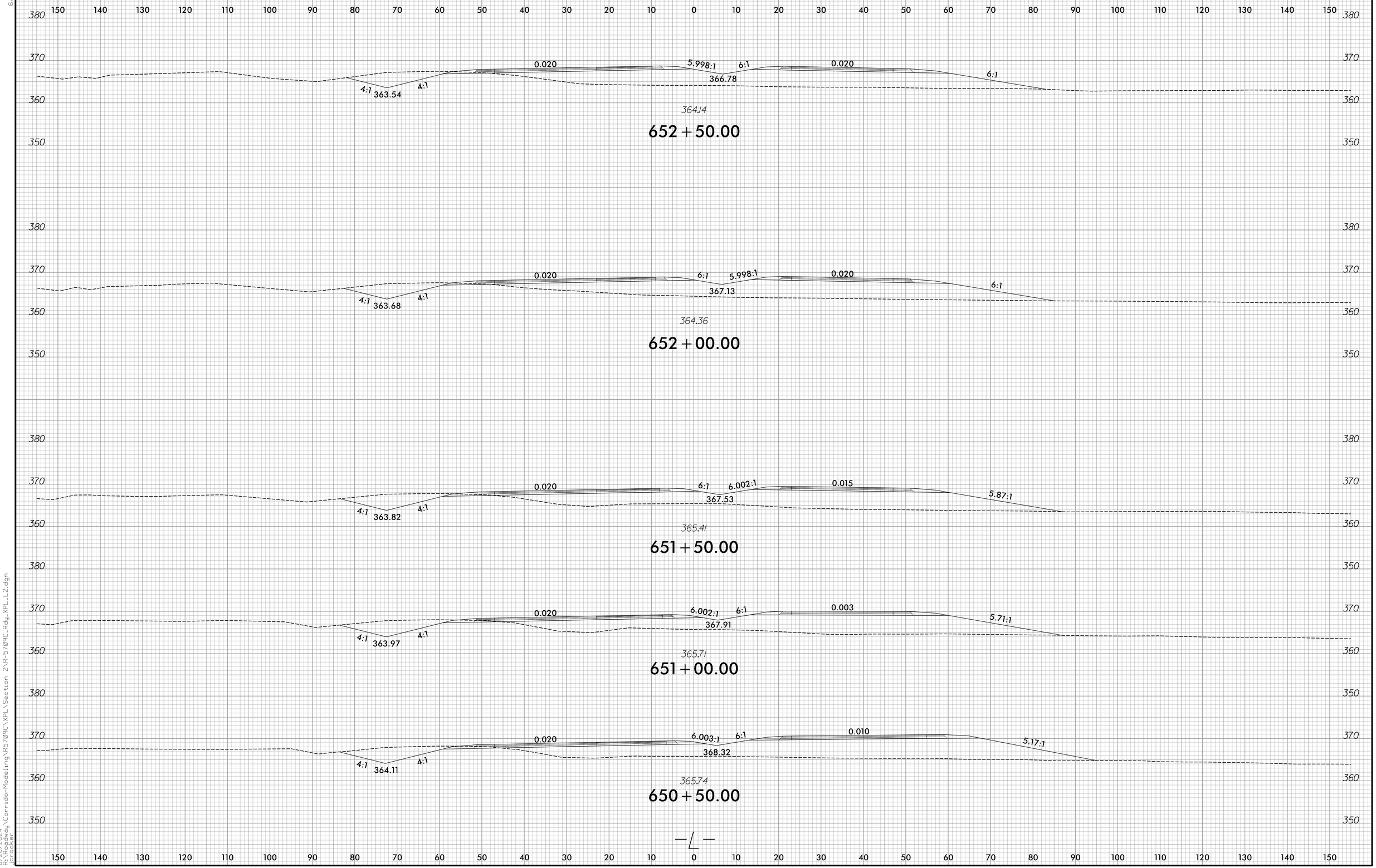


BEGIN SHALLOW UNDERCUT EXCAVATION - STA. 647+75

648+00.00

0 5 10

PROJ. REFERENCE NO.	SHEET NO.
R-5709C	X-157



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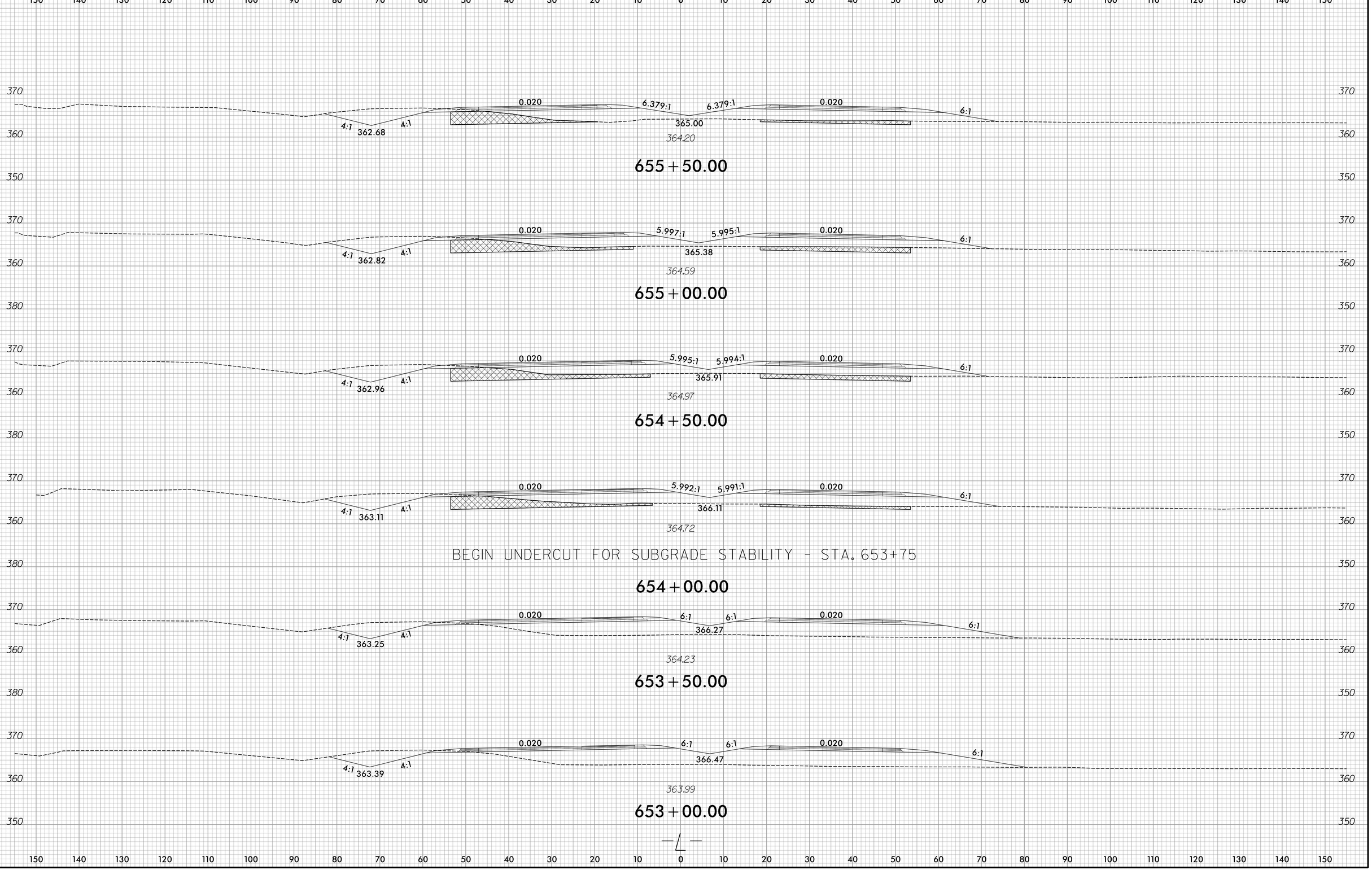
jcrocker

0 5 10	PROJ. REFERENCE NO.	SHEET NO.
	R-5709C	X-158



150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

370 / 360 / 350

4:1 363.33 4:1 — 0.020 — 7:1 — 365.04 — 7:1 — 0.020 — 6:1 — 3:1 — 360.89

366.37

658+50.00

END UNDERCUT FOR SUBGRADE STABILITY - STA. 658+25

4:1 363.05 4:1 — 0.020 — 6.83:1 — 364.89 — 6.83:1 — 0.020 — 6:1 — 3:1 — 361.03

364.33

658+00.00

4:1 362.77 4:1 — 0.020 — 6.825:1 — 364.74 — 6.825:1 — 0.020 — 6:1 — 3:1 — 361.18

362.80

657+50.00

4:1 362.50 4:1 — 0.020 — 6.678:1 — 364.59 — 6.678:1 — 0.020 — 6:1 — 3:1 — 361.33

361.99

657+00.00

4:1 362.39 4:1 — 0.020 — 6.86:1 — 364.65 — 6.86:1 — 0.020 — 6:1 — 3:1 — 361.47

362.26

656+50.00

4:1 362.53 4:1 — 0.020 — 7:1 — 364.80 — 7:1 — 0.020 — 6:1 — 3:1 — 361.62

363.09

656+00.00

—℄—

150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

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0 5 10	PROJ. REFERENCE NO.	SHEET NO.
	R-5709C	X-160

150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

370 / 360 / 350

0.020 | 5.942:1 | 5.942:1 | 0.020 | 6:1 | 3:1 | 4:1 | 4:1

362.23 | 364.09 | 360.01

364.81

661+50.00

370 / 360 / 350

0.020 | 5.792:1 | 5.792:1 | 0.020 | 6:1 | 3:1 | 4:1 | 4:1

362.57 | 364.24 | 360.16

365.56

661+00.00

370 / 360 / 350

0.020 | 5.753:1 | 5.753:1 | 0.020 | 6:1 | 3:1 | 4:1 | 4:1

362.91 | 364.39 | 360.31

366.16

660+50.00

370 / 360 / 350

0.020 | 5.822:1 | 5.822:1 | 0.020 | 6:1 | 3:1 | 4:1 | 4:1

363.26 | 364.54 | 360.45

366.25

660+00.00

370 / 360 / 350

0.020 | 6.005:1 | 6.005:1 | 0.020 | 6:1 | 3:1 | 4:1 | 4:1

363.60 | 364.69 | 360.60

366.07

659+50.00

370 / 360 / 350

0.020 | 7.272:1 | 7.272:1 | 0.020 | 6:1 | 3:1 | 4:1 | 4:1

363.61 | 365.19 | 360.74

365.92

659+00.00

—℄—

150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

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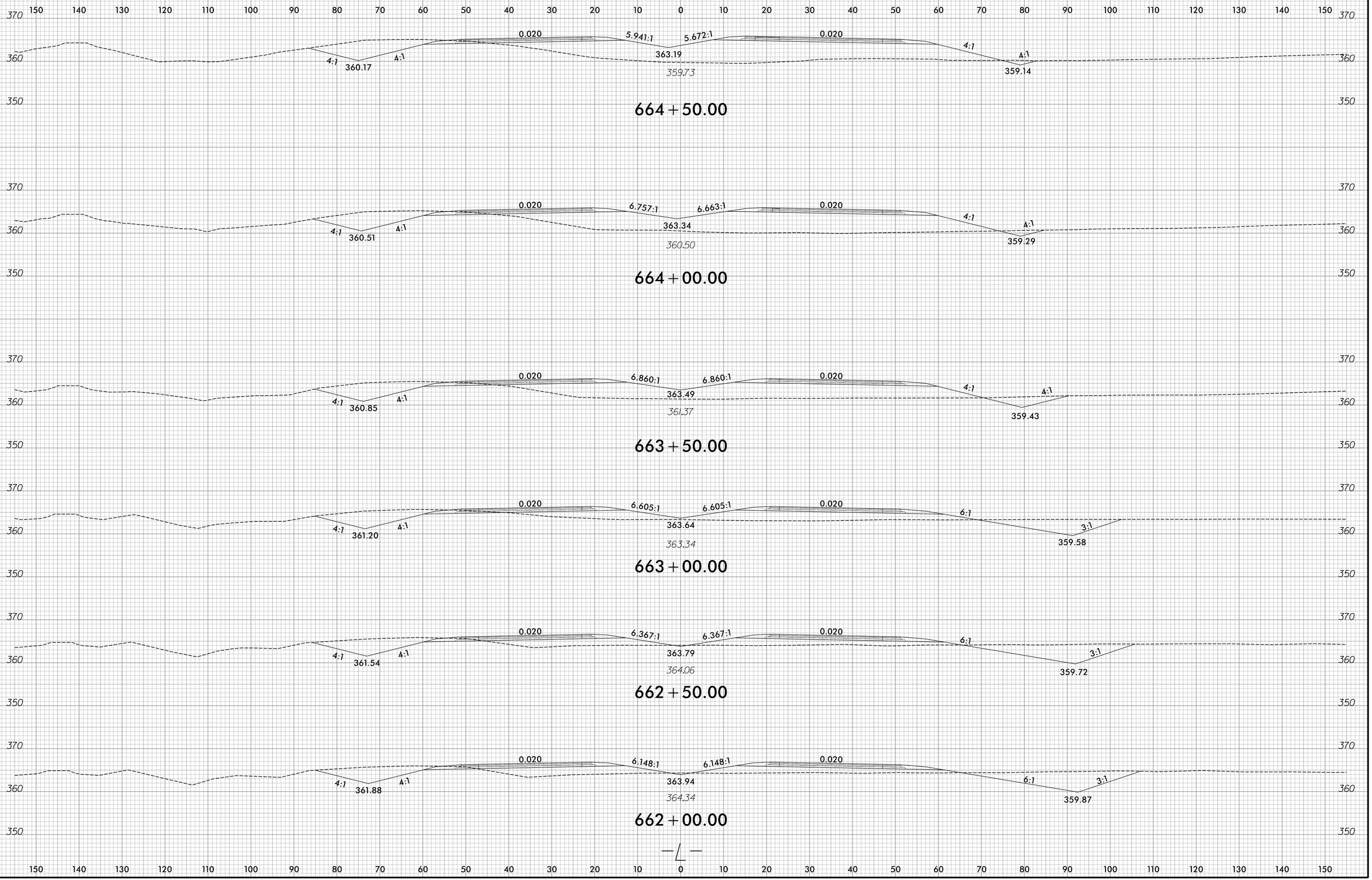
jcrocker

0 5 10	PROJ. REFERENCE NO.	SHEET NO.
	R-5709C	X-161



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jcrocker

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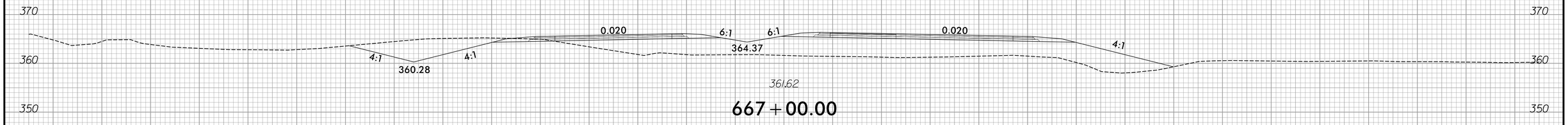
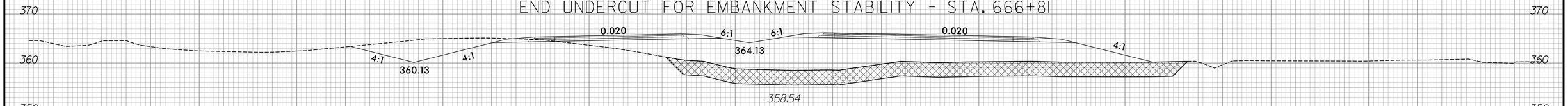
150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150



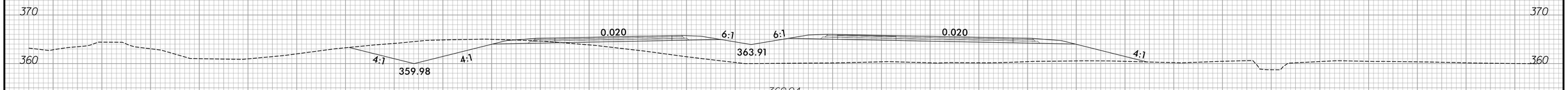
667+00.00

END UNDERCUT FOR EMBANKMENT STABILITY - STA. 666+81

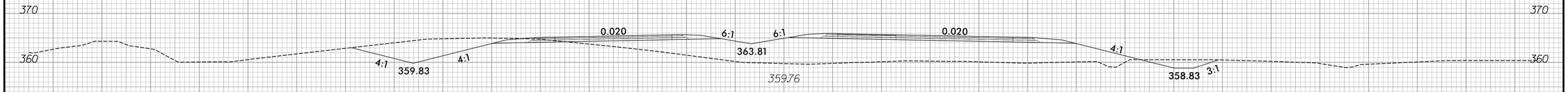


BEGIN UNDERCUT FOR EMBANKMENT STABILITY - STA. 666+39

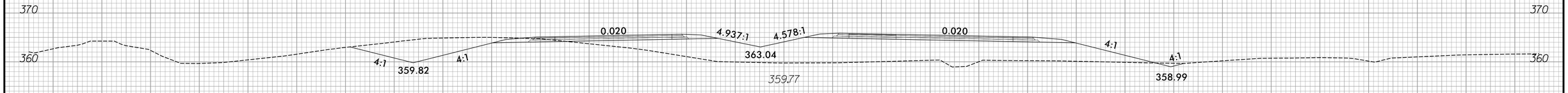
666+50.00



666+00.00



665+50.00



665+00.00

—L—

150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

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jcrocker

0 5 10	PROJ. REFERENCE NO.	SHEET NO.
	R-5709C	X-163

150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

380 / 370 / 360 / 350

SHEAR LINE @ -L- / -Y20A- INTERSECTION

0.020 | 6:1 | 6:1 | 0.020 | 6:1

365.32

363.17

669+50.00

380 / 370 / 360 / 350

0.020 | 6:1 | 6:1 | 0.020 | 6:1

4:1 | 360.88 | 4:1

365.19

363.47

669+00.00

380 / 370 / 360 / 350

0.020 | 6:1 | 6:1 | 0.020 | 6:1

4:1 | 360.73 | 4:1

365.02

363.72

668+50.00

380 / 370 / 360 / 350

0.020 | 6:1 | 6:1 | 0.020 | 6:1

4:1 | 360.58 | 4:1

364.83

363.71

668+00.00

380 / 370 / 360 / 350

0.020 | 6:1 | 6:1 | 0.020 | 6:1

4:1 | 360.43 | 4:1

364.60

362.79

667+50.00

-L-

150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

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jcrocker

0 5 10

PROJ. REFERENCE NO.	SHEET NO.
R-5709C	X-164

150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

390 380 370 360 350

SHEAR LINE @ –L– / –Y20A– INTERSECTION

0.020 6:1 6:1 0.020 6:1

363.61

362.89

671+50.00

380 370 360 350

SHEAR LINE @ –L– / –Y20A– INTERSECTION

0.020 0.020 6:1

362.80

671+00.00

380 370 360 350

SHEAR LINE @ –L– / –Y20A– INTERSECTION

0.020 0.020 6:1

363.08

670+50.00

390 380 370 360 350

SHEAR LINE @ –L– / –Y20A– INTERSECTION

0.020 6:1 6:1 0.020 6:1

365.38

363.14

670+00.00

–L–

150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

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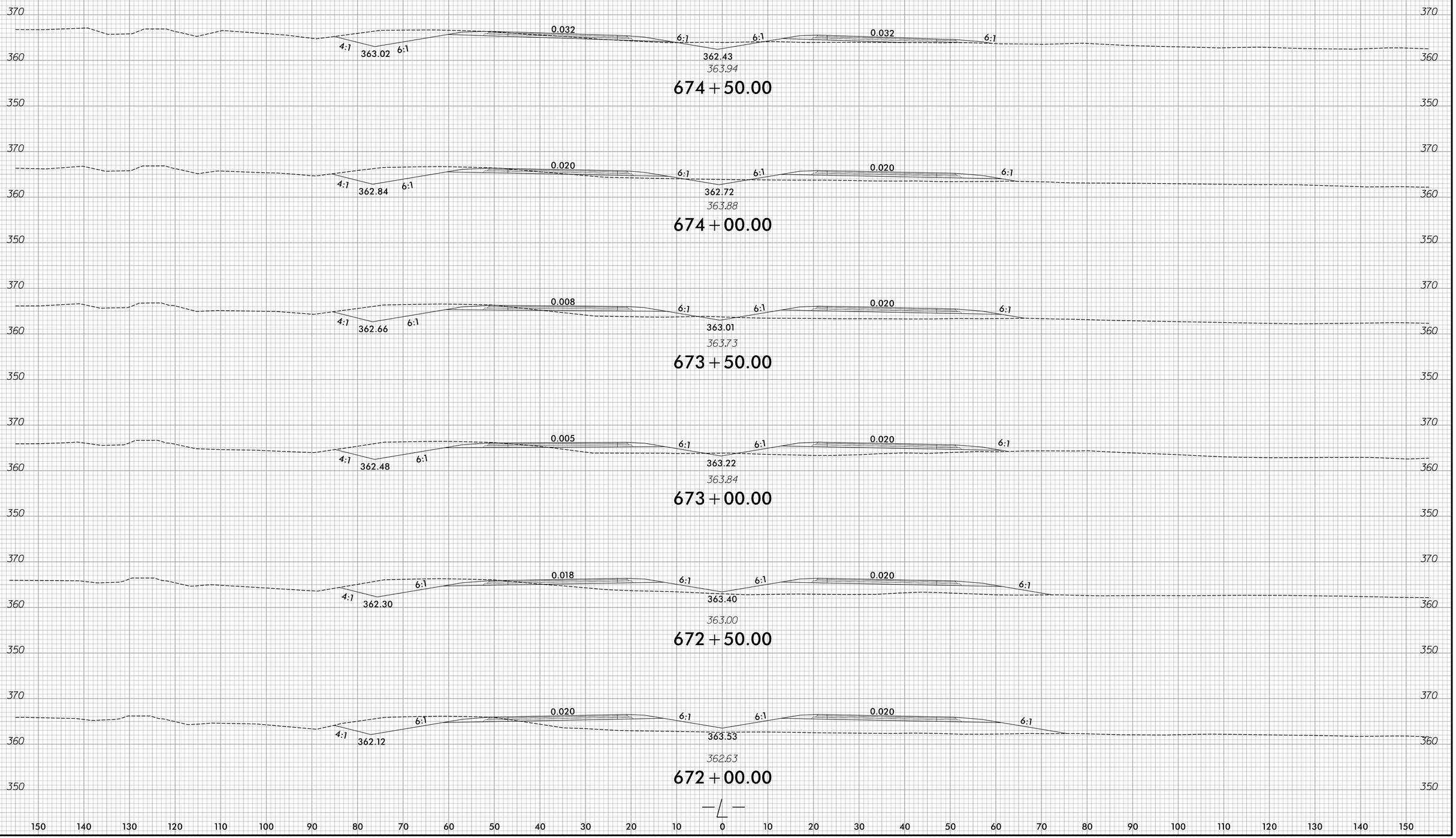
jcrocker

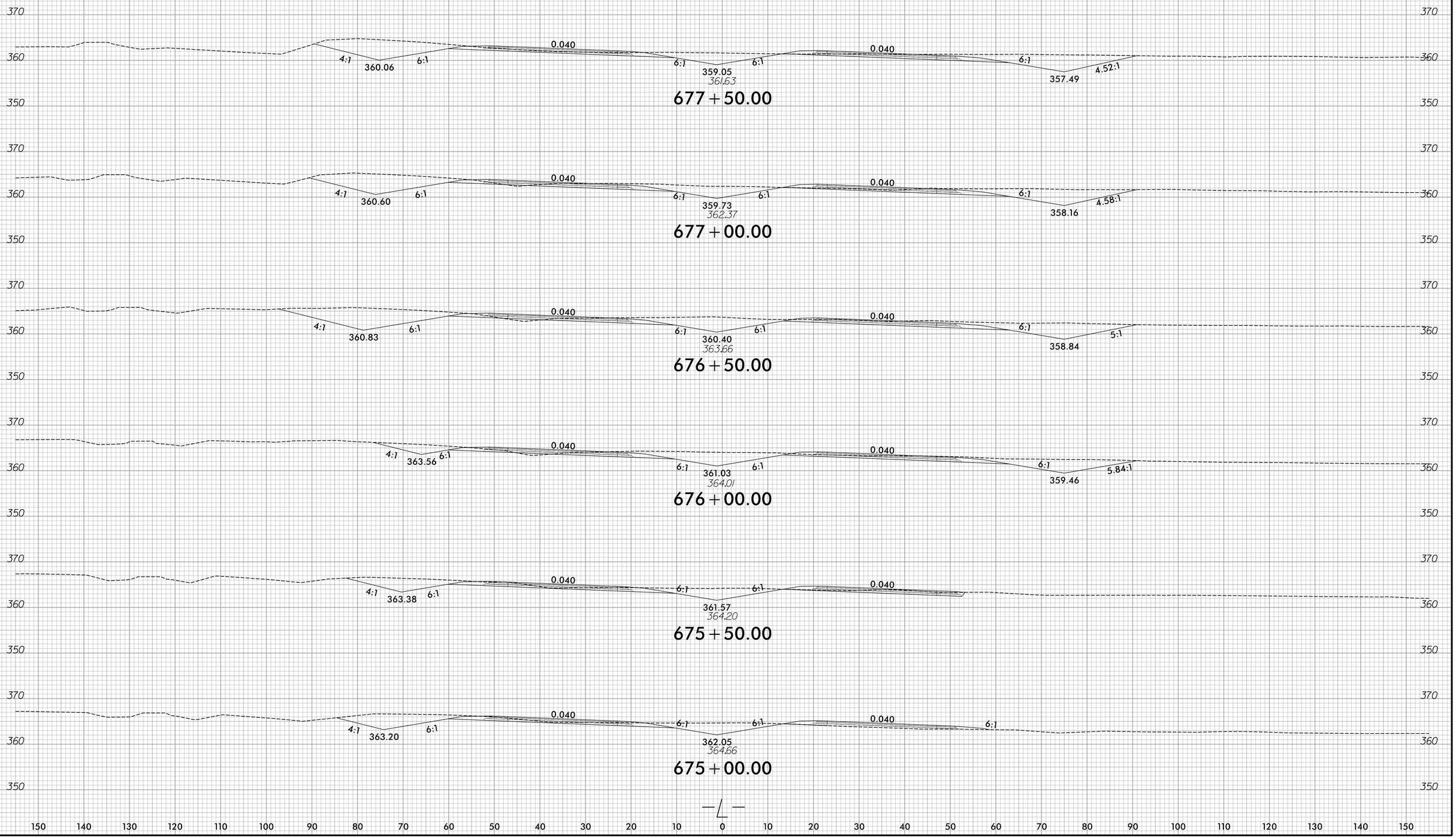
0 5 10	PROJ. REFERENCE NO.	SHEET NO.
	R-5709C	X-165

150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150



0 5 10	PROJ. REFERENCE NO.	SHEET NO.
	R-5709C	X-166

150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150



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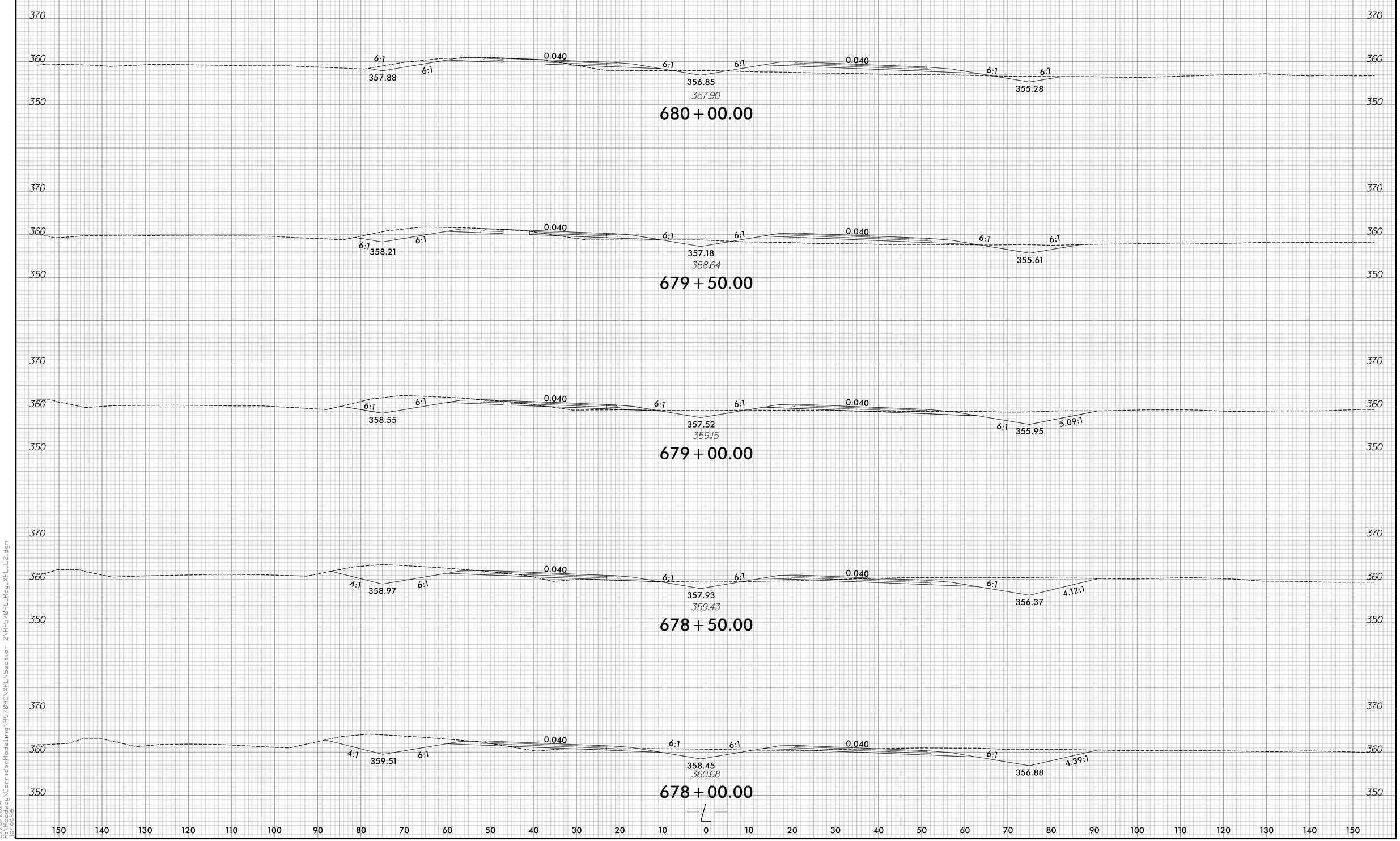
0 5 10	PROJ. REFERENCE NO.	SHEET NO.
	R-5709C	X-167



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jbrocker

0 5 10	PROJ. REFERENCE NO.	SHEET NO.
	R-5709C	X-168

150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

370 / 360 / 350

6:1 354.89 6:1 0.017 6:1 354.60 6:1 0.020 6:1 352.99 6:1

355.46

683+00.00

370 / 360 / 350 / 340

6:1 355.75 6:1 0.030 6:1 355.04 6:1 0.030 6:1 353.19 6:1

355.80

682+50.00

370 / 360 / 350 / 340

6:1 0.040 6:1 355.46 6:1 0.040 6:1 353.39 6:1

356.10

682+00.00

370 / 360 / 350 / 340

6:1 356.87 6:1 0.040 6:1 355.84 6:1 0.040 6:1 353.58 6:1

356.51

681+50.00

370 / 360 / 350 / 340

6:1 357.22 6:1 0.040 6:1 356.19 6:1 0.040 6:1 353.78 6:1

356.89

681+00.00

370 / 360 / 350 / 340

5.98:1 357.55 6:1 0.040 6:1 356.52 6:1 0.040 6:1 354.95 5.98:1

357.40

680+50.00

—℄—

150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

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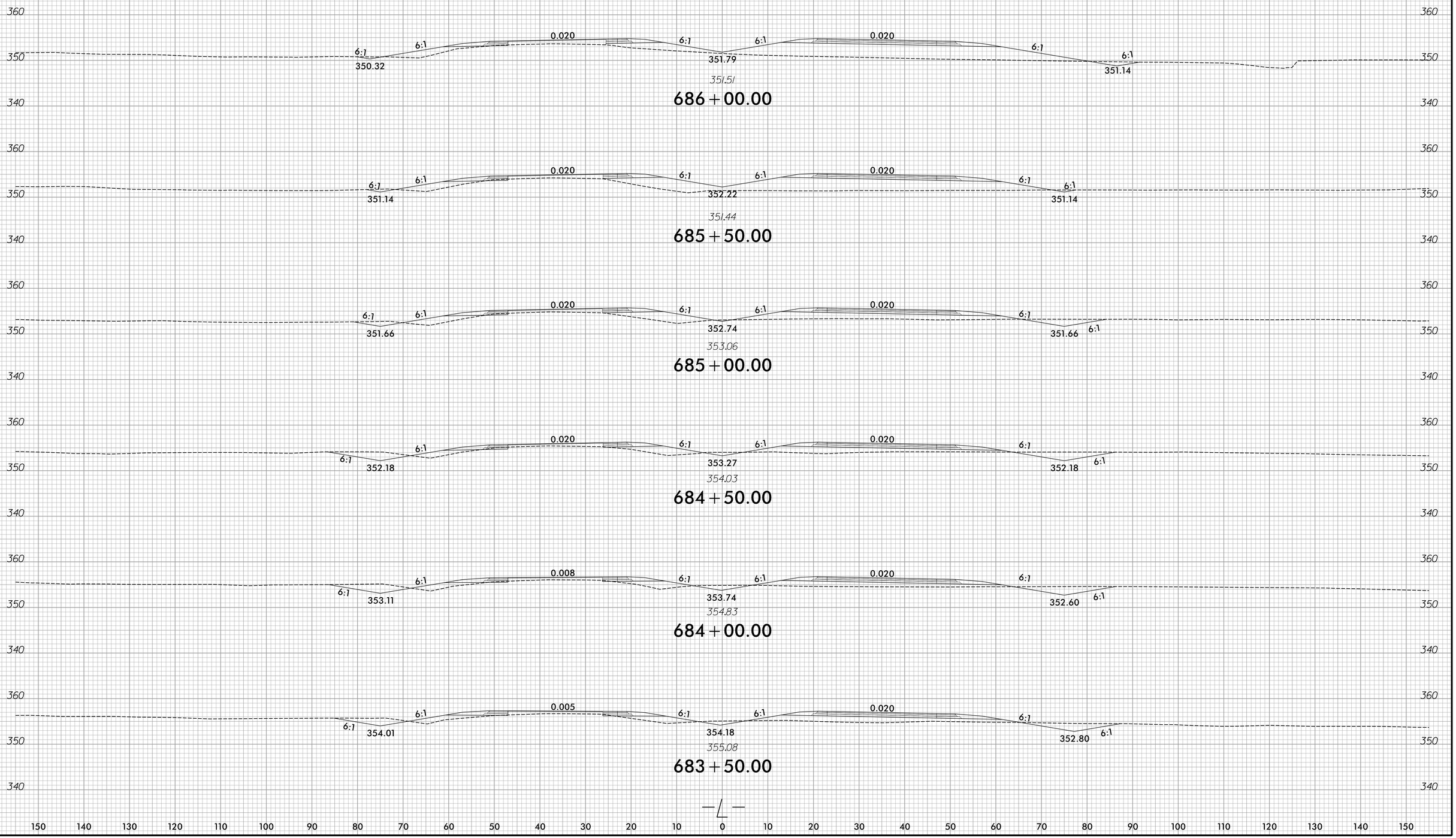
jcrocker

6/23/16

0 5 10	PROJ. REFERENCE NO.	SHEET NO.
	R-5709C	X-169

150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150



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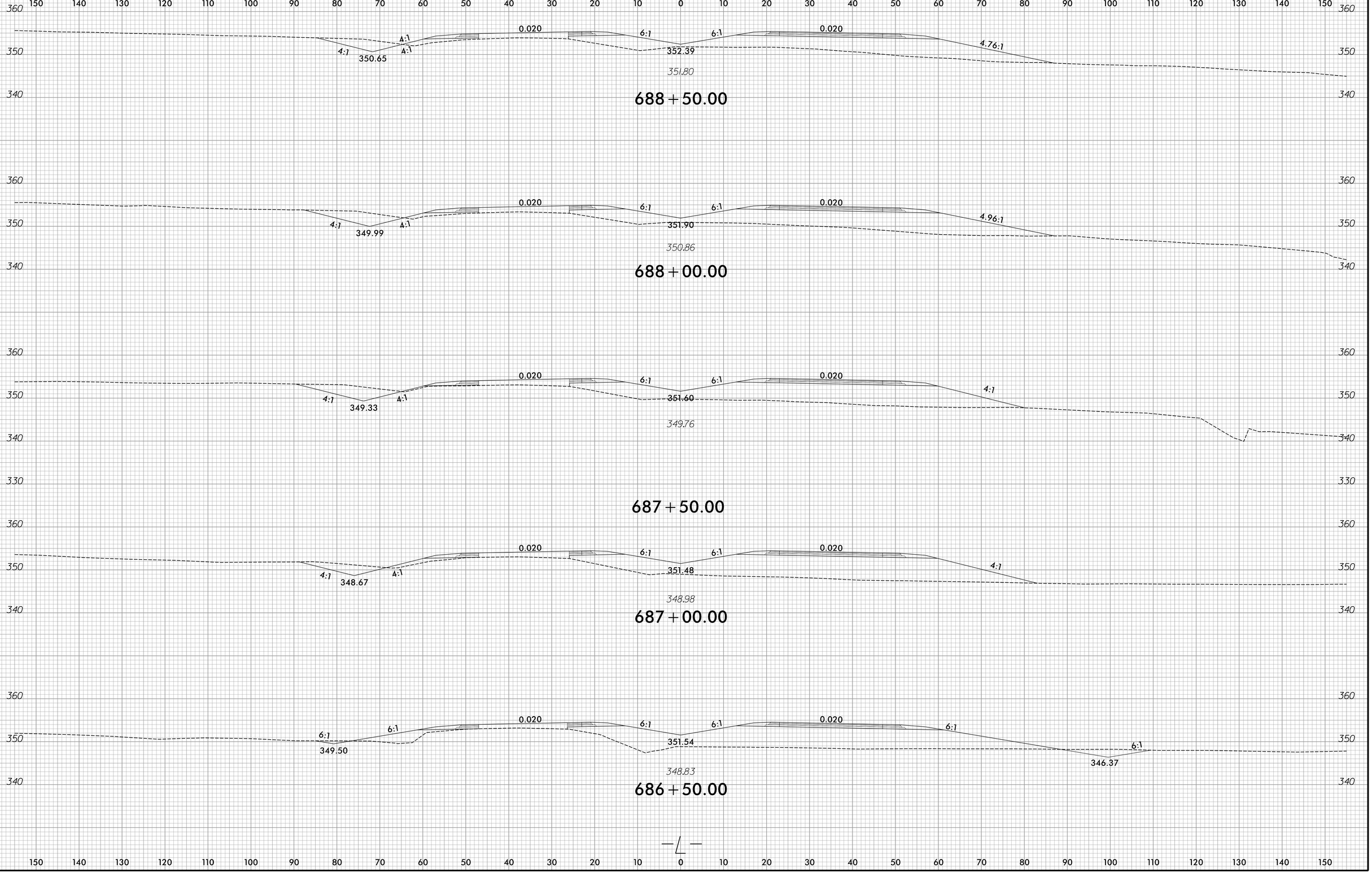
jcrocker

0 5 10	PROJ. REFERENCE NO.	SHEET NO.
	R-5709C	X-170



6/23/16

8/28/2024
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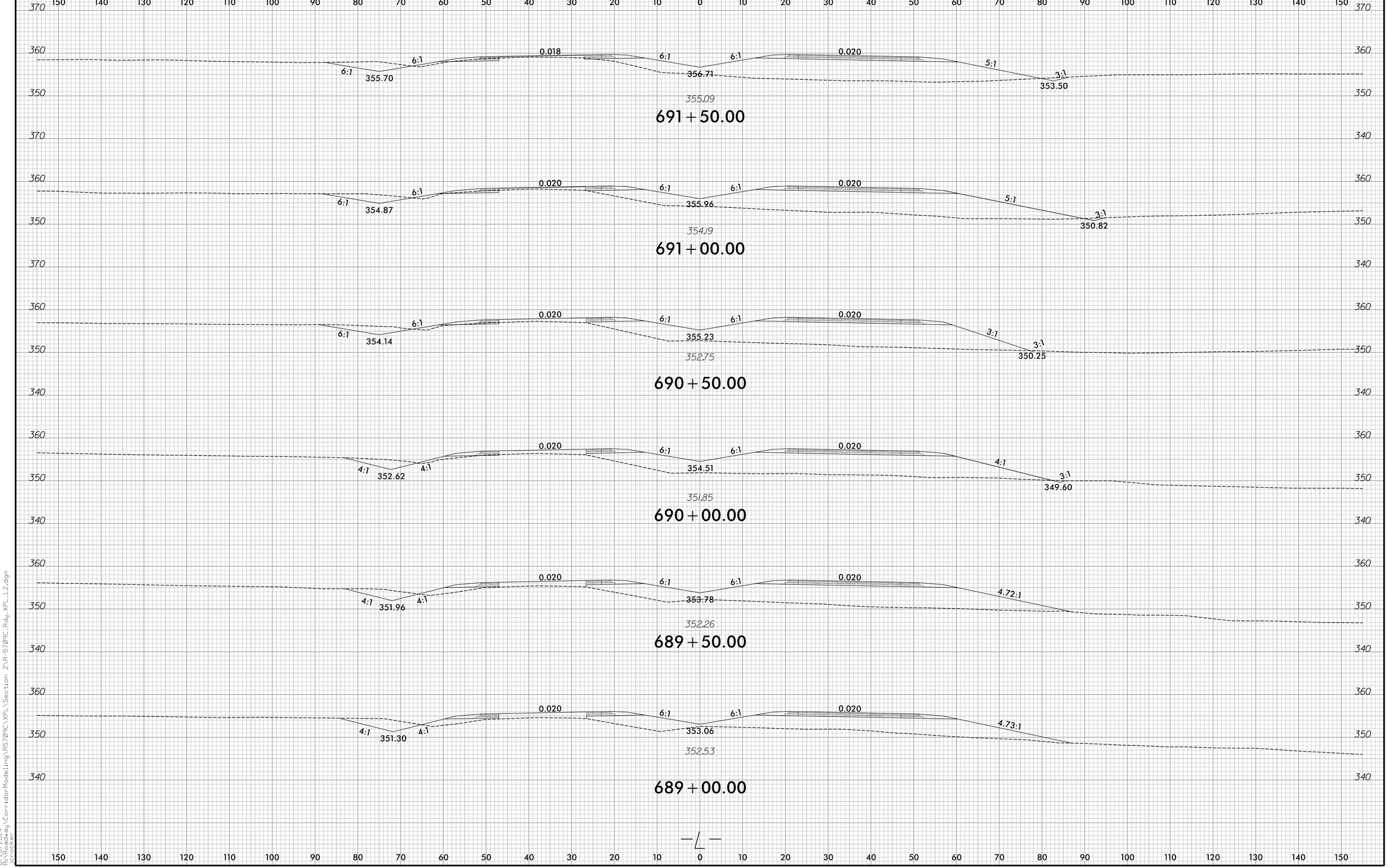
jcrocker

PROJ. REFERENCE NO.	SHEET NO.
R-5709C	X-171

0 5 10



6/23/16

8/28/2024
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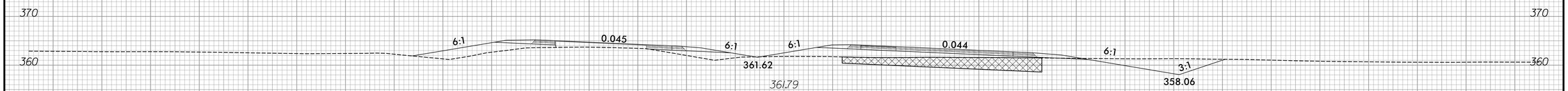
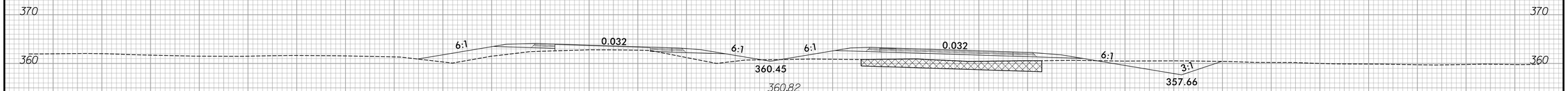
jcrocker

0 5 10	PROJ. REFERENCE NO.	SHEET NO.
	R-5709C	X-172

150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

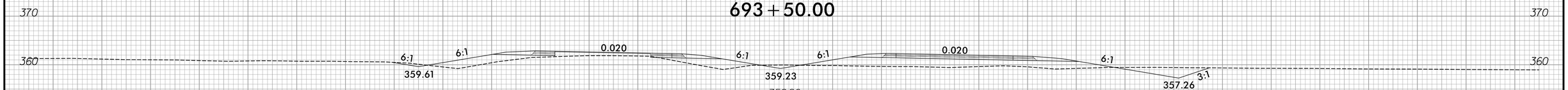


694+00.00

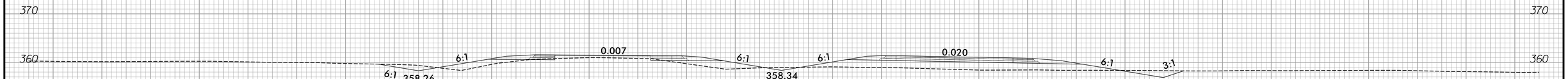


BEGIN UNDERCUT FOR SUBGRADE STABILITY - STA. 693+25

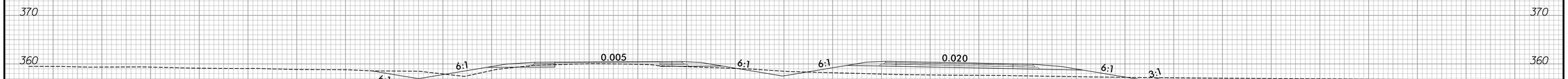
693+50.00



693+00.00



692+50.00



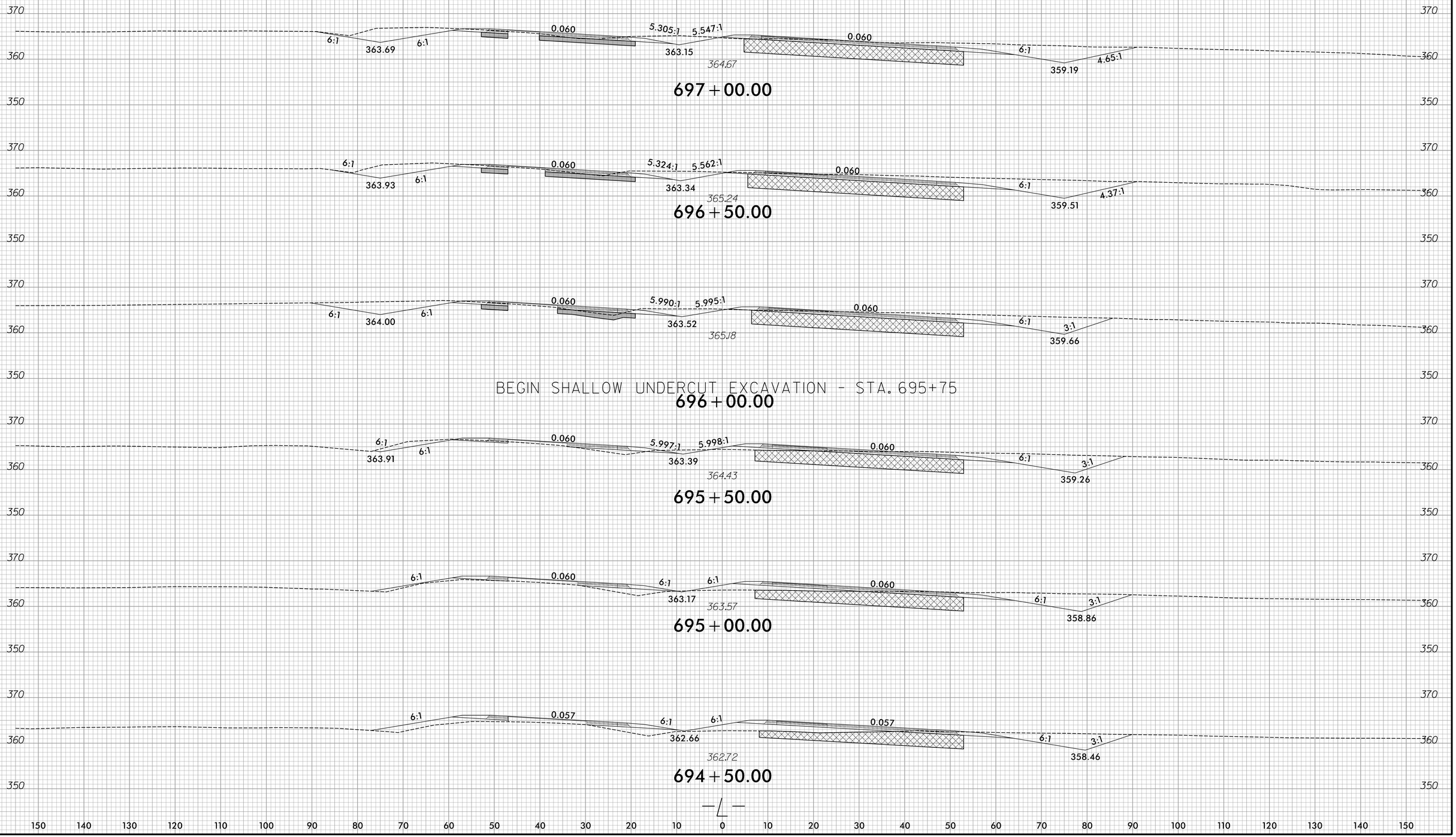
692+00.00

—℄—

150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

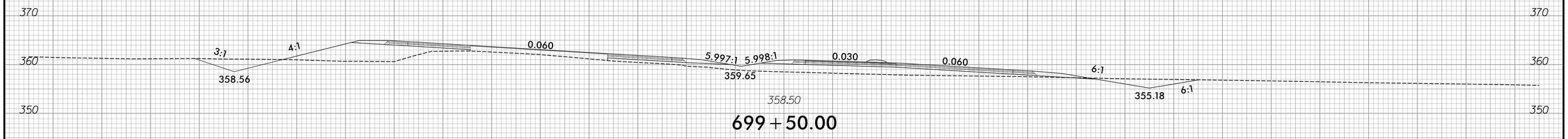
0 5 10	PROJ. REFERENCE NO.	SHEET NO.
	R-5709C	X-173

150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150



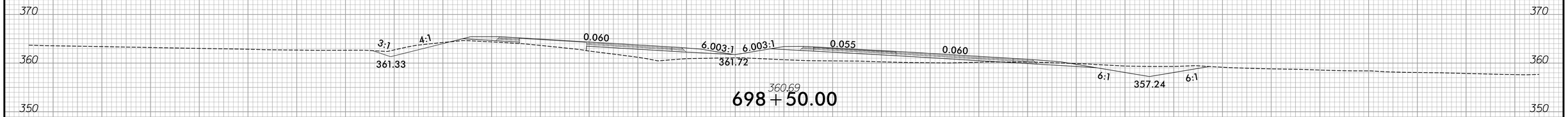
0 5 10	PROJ. REFERENCE NO.	SHEET NO.
	R-5709C	X-174

150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150



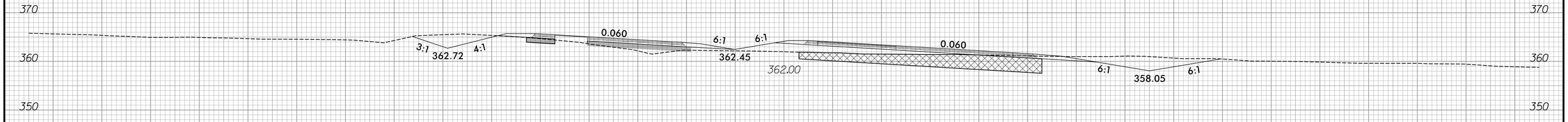
699+50.00

699+00.00

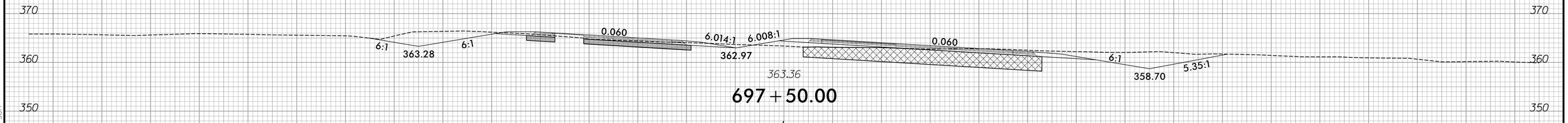


698+50.00

END SHALLOW UNDERCUT EXCAVATION - STA. 698+25
END UNDERCUT FOR SUBGRADE STABILITY - STA. 698+25



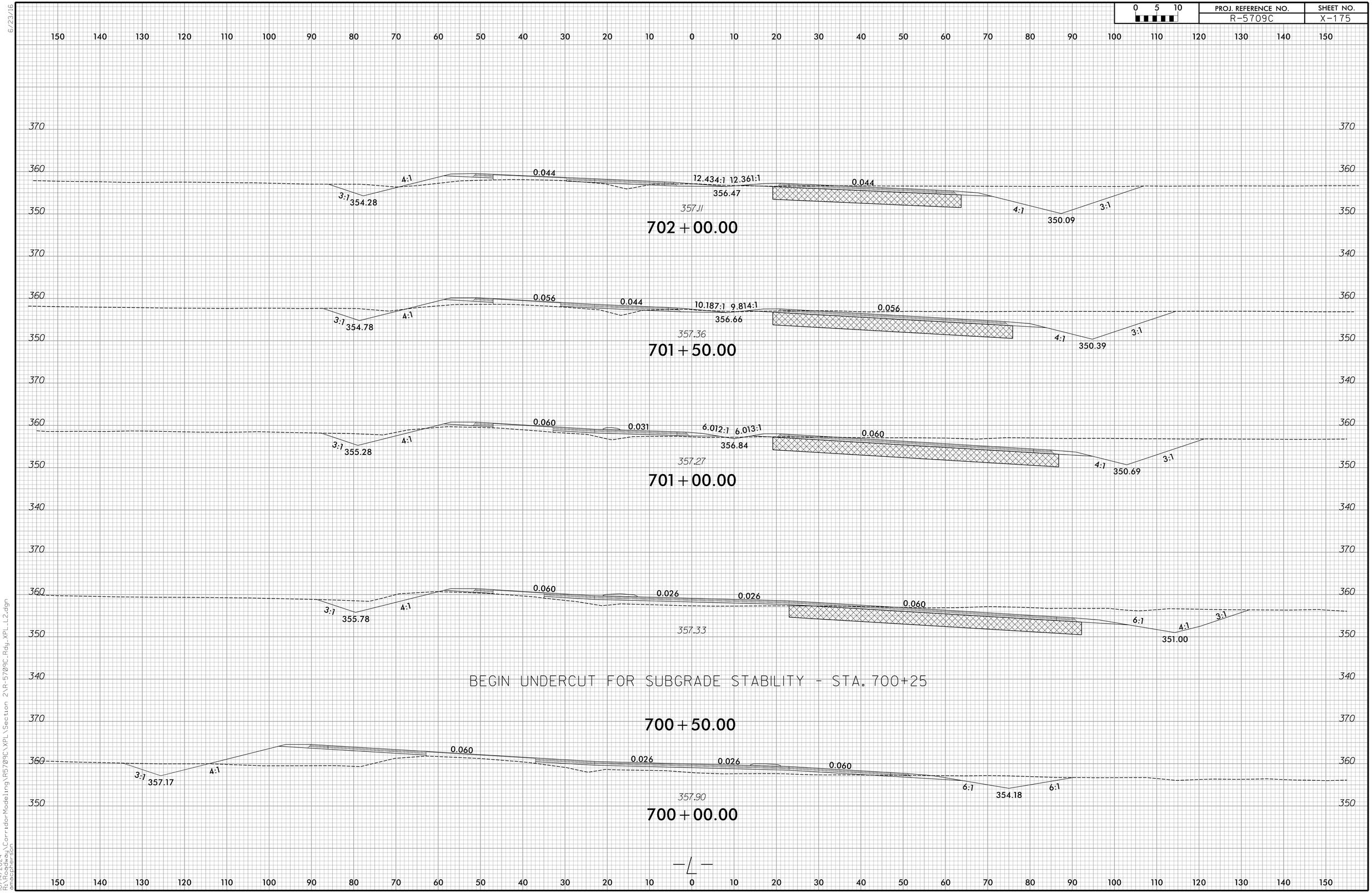
698+00.00



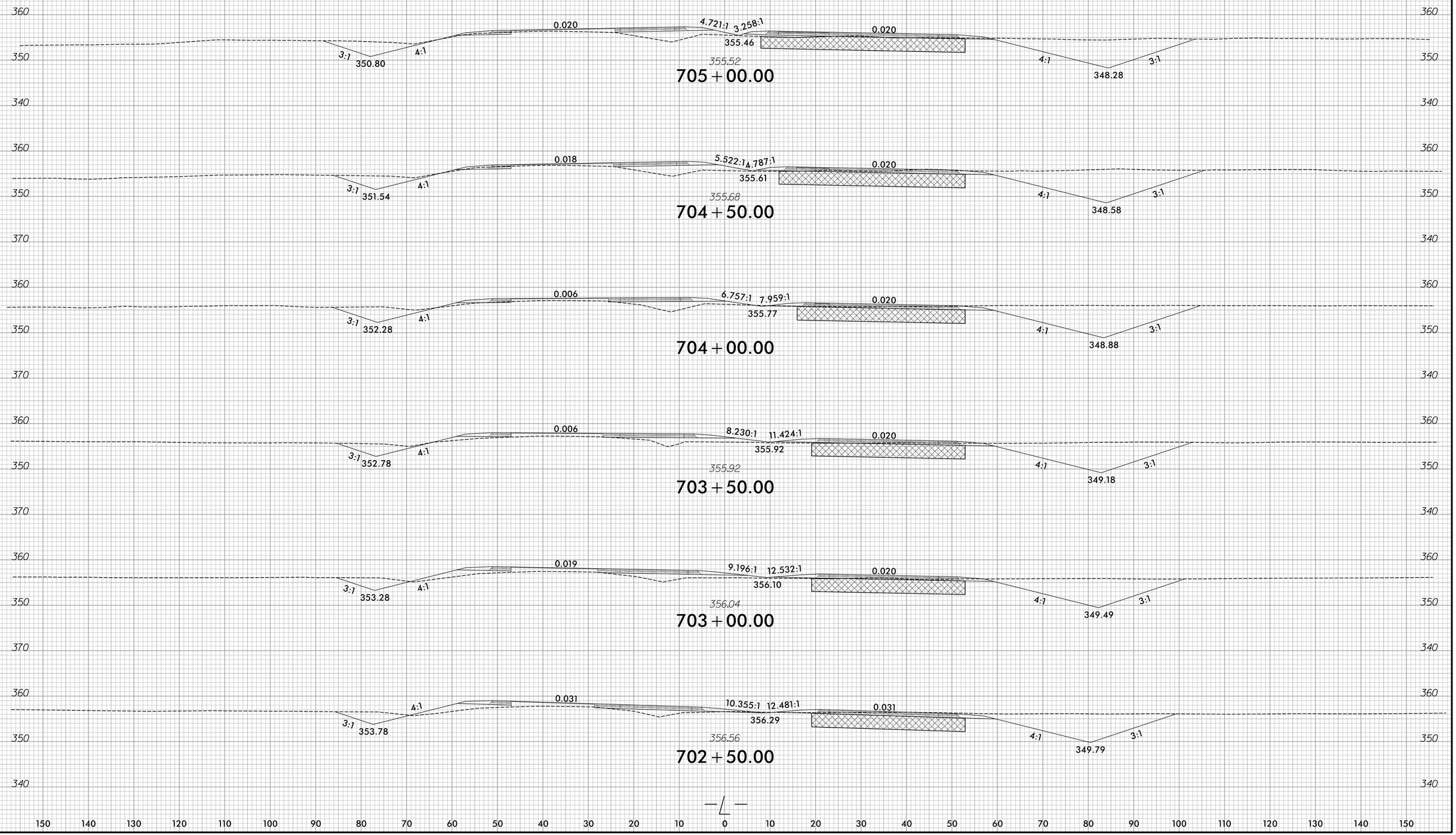
697+50.00

—℄—

150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150


150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150
370
360
350
340
4:1
0.044
12.434:1
12.361:1
356.47
3:1
354.28
357.11
702+00.00
0.056
0.044
10.187:1
9.814:1
356.66
354.78
357.36
701+50.00
0.060
0.031
6.012:1
6.013:1
356.84
355.28
357.27
701+00.00
0.060
0.026
0.026
355.78
357.33
351.00
BEGIN UNDERCUT FOR SUBGRADE STABILITY - STA. 700+25
700+50.00
0.060
0.026
0.026
0.060
357.17
357.90
354.18
700+00.00

END UNDERCUT FOR SUBGRADE STABILITY - STA. 705+25



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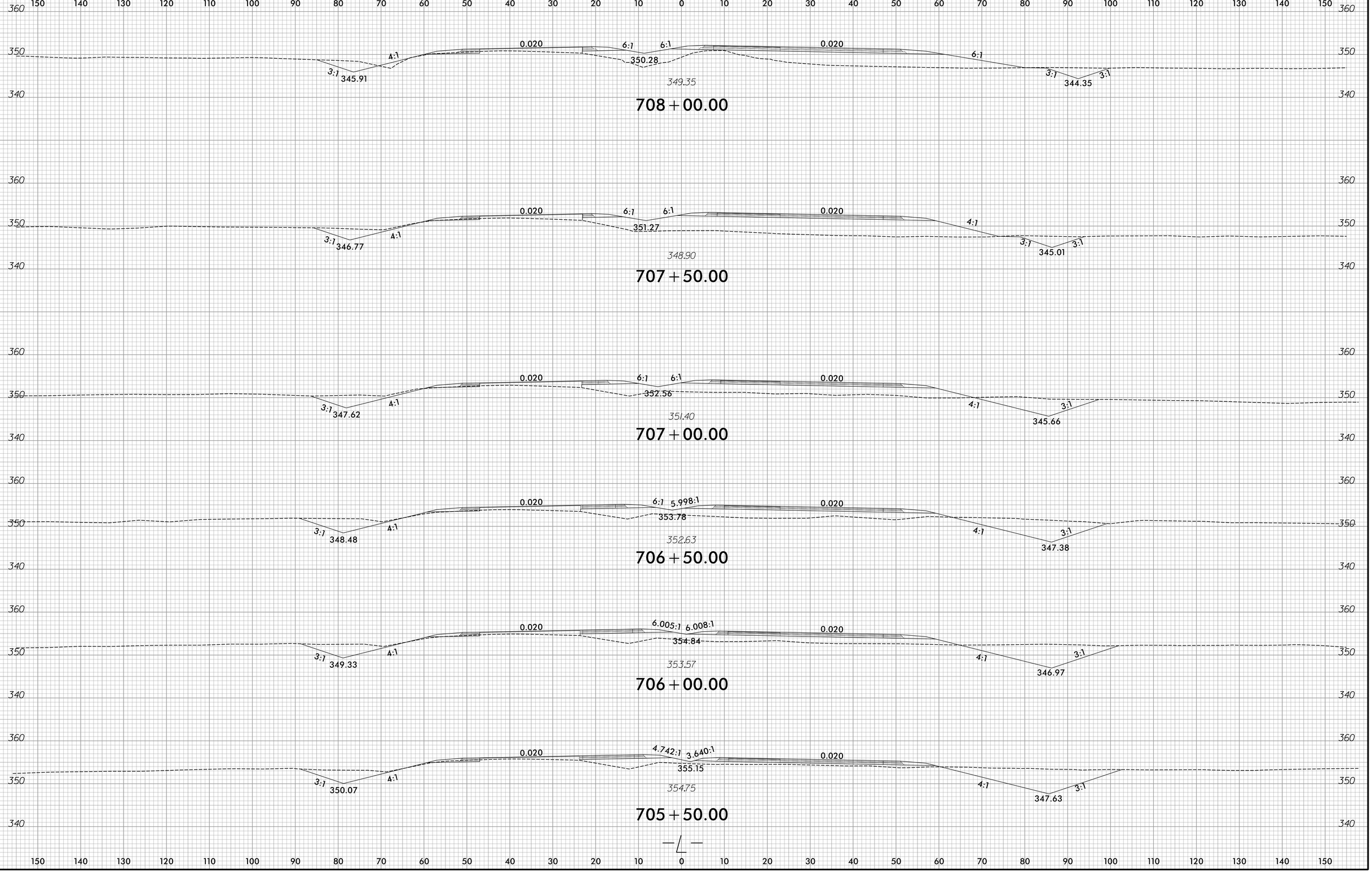
gmacpherson



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jcrocker

0 5 10

PROJ. REFERENCE NO.	SHEET NO.
R-5709C	X-178

150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

360 350 340 330

SHEAR LINE @ -L- / -Y21- INTERSECTION

0.020 0.020 6:1 6:1

343.74 340.73

710 + 50.00

360 350 340 330

SHEAR LINE @ -L- / -Y21- INTERSECTION

0.020 6:1 6:1 0.020 6:1 6:1

346.22 342.56

344.45

710 + 00.00

360 350 340 330

4:1 5:1 0.020 6:1 6:1 0.020 6:1

343.00 347.24

345.44

709 + 50.00

360 350 340 330

4:1 5:1 0.020 6:1 6:1 0.020 6:1

344.10 348.28

345.91

709 + 00.00

360 350 340 330

4:1 5:1 0.020 6:1 6:1 0.020 6:1

345.28 349.29

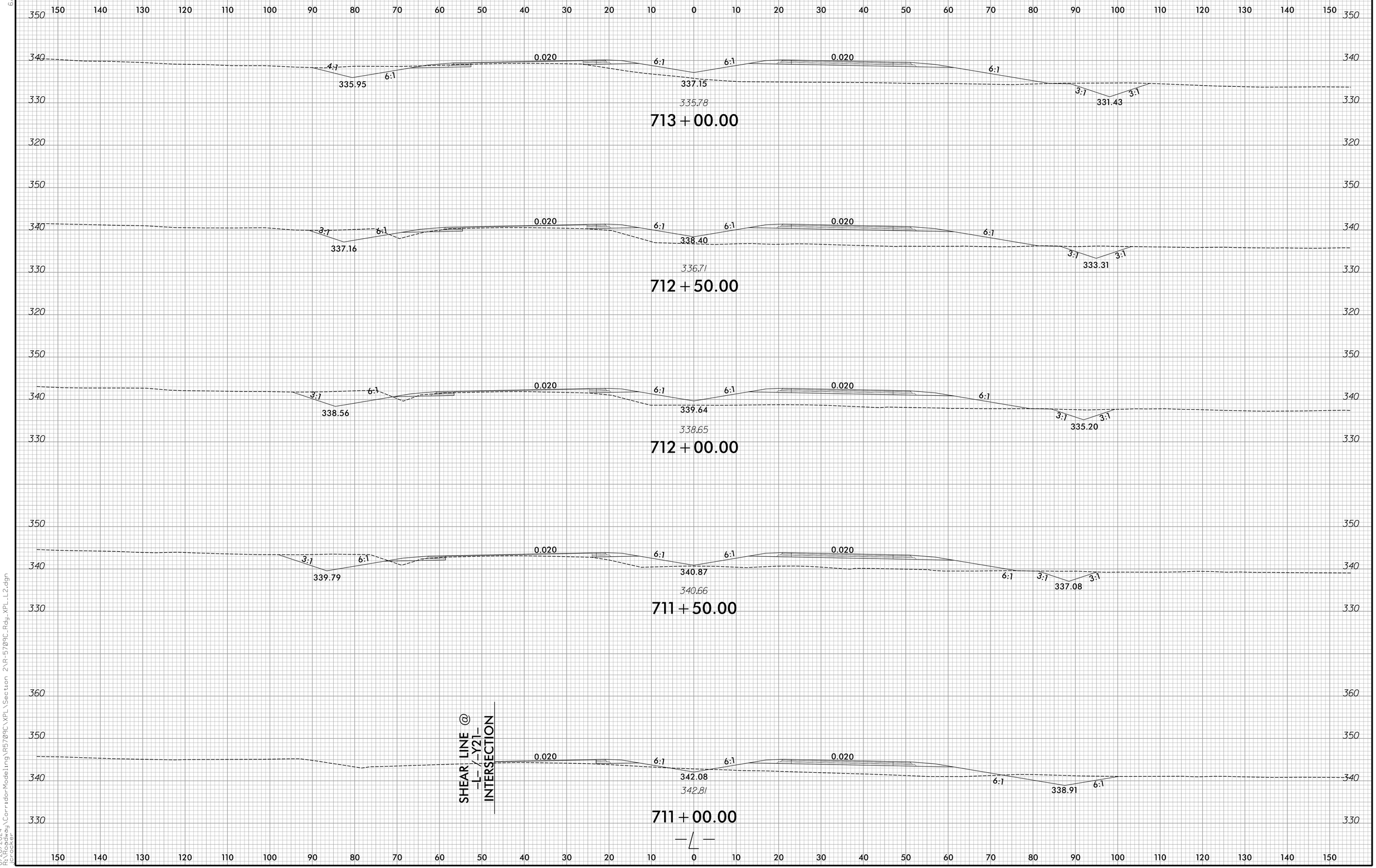
345.94

708 + 50.00

-L-

150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

0 5 10	PROJ. REFERENCE NO.	SHEET NO.
	R-5709C	X-179



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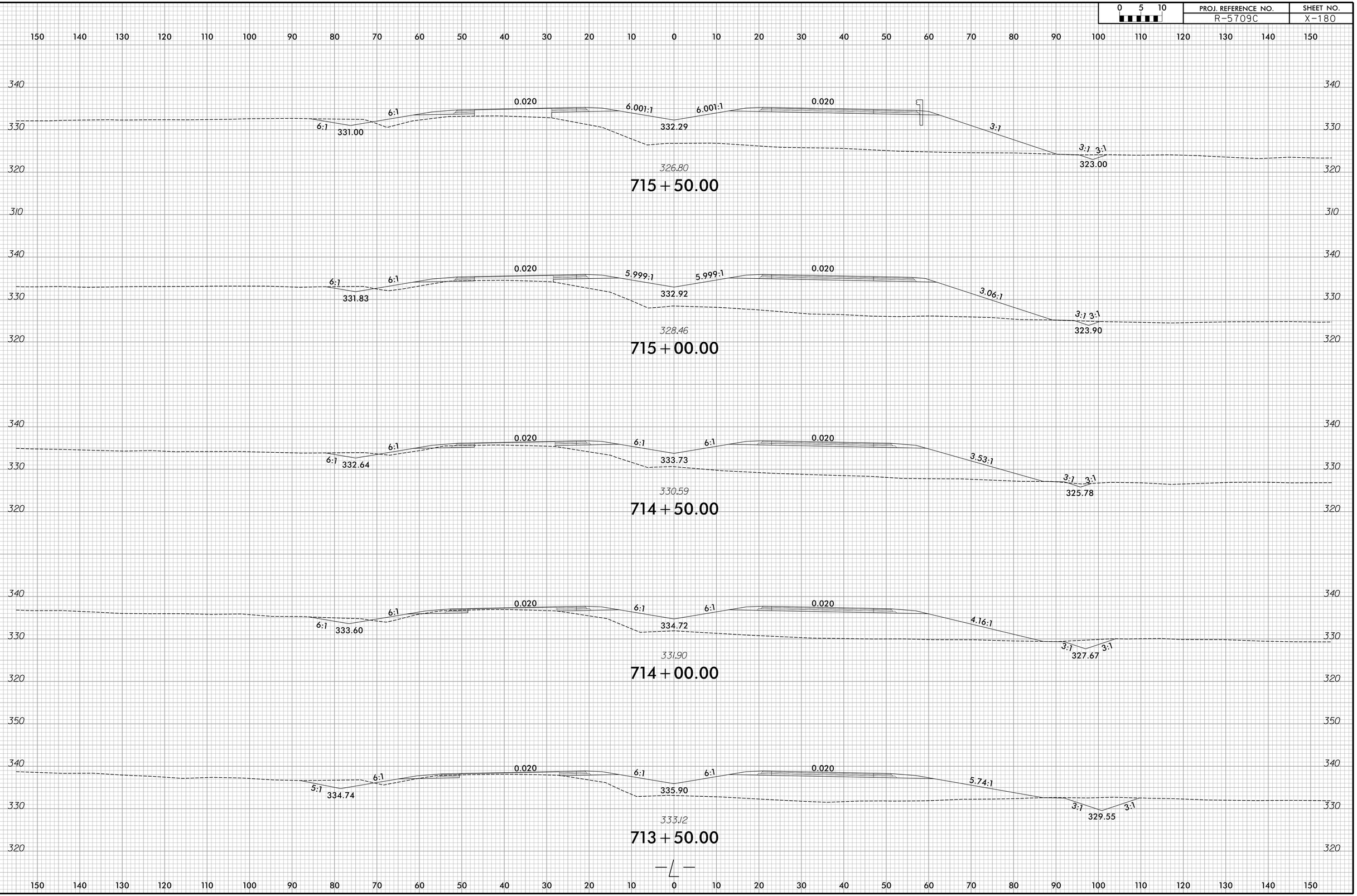
jcrocker

0 5 10	PROJ. REFERENCE NO.	SHEET NO.
	R-5709C	X-180



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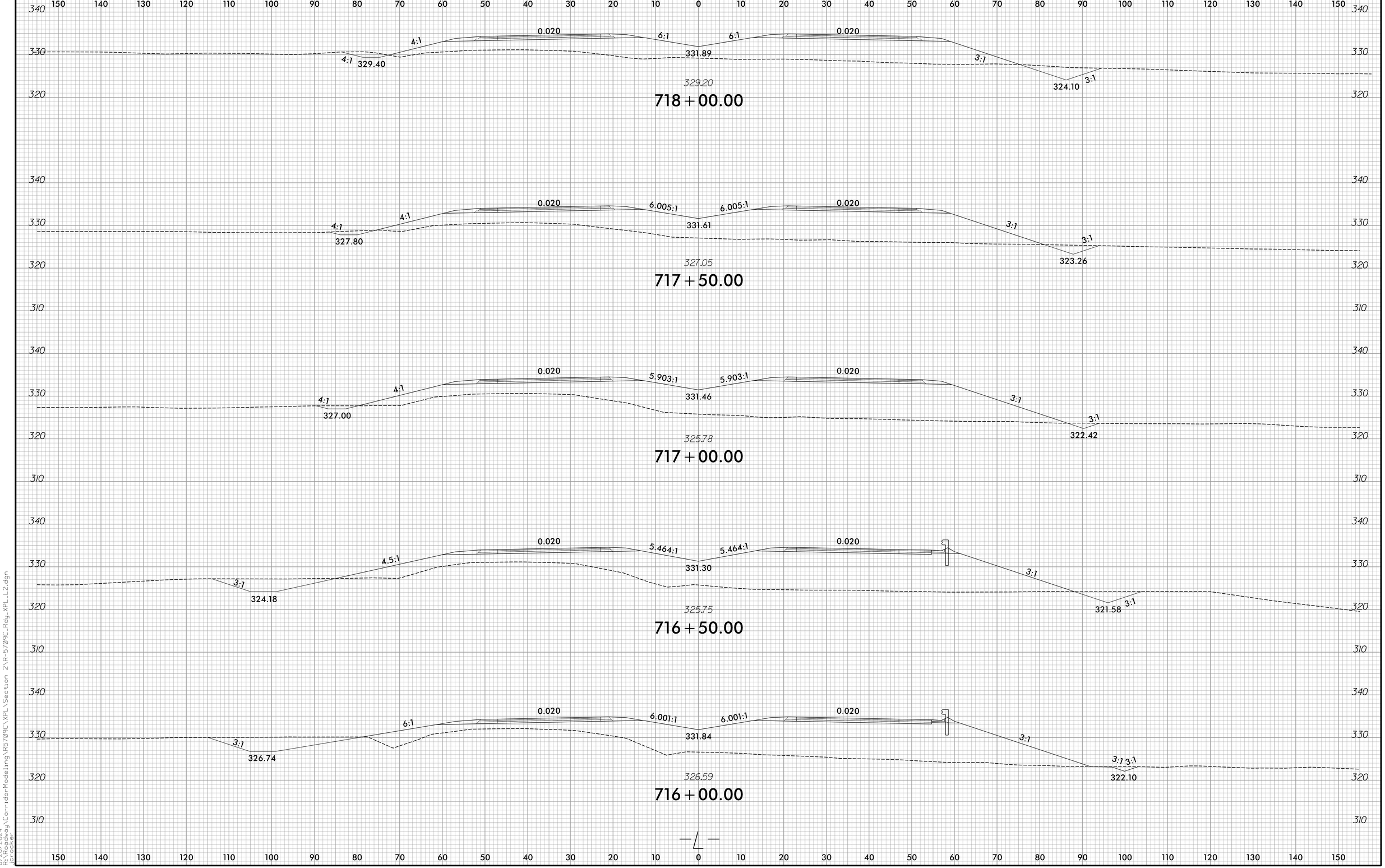
jcrocker


150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150
340
330
320
310
0.020
4:1
6:1
331.89
329.40
324.10
3:1
329.20
718+00.00
6.005:1
331.61
327.80
323.26
327.05
717+50.00
5.903:1
331.46
327.00
322.42
325.78
717+00.00
5.464:1
331.30
324.18
321.58
325.75
716+50.00
6.001:1
331.84
326.74
322.10
326.59
716+00.00

0 5 10	PROJ. REFERENCE NO.	SHEET NO.
	R-5709C	X-182

150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

350 340 330 320

6:1 6:1 0.020 6:1 6:1 0.020 3:1 3:1

334.99 336.08 328.28

332.84

720+50.00

6:1 6:1 0.020 6:1 6:1 0.020 3:1 3:1

333.79 334.87 327.44

331.94

720+00.00

6:1 6:1 0.020 6:1 6:1 0.020 3:1 3:1

332.77 333.86 326.61

331.62

719+50.00

6:1 6:1 0.020 6:1 6:1 0.020 3:1 3:1

331.93 333.02 325.77

331.13

719+00.00

6:1 6:1 0.020 6:1 6:1 0.020 3:1 3:1

331.00 332.37 324.93

330.51

718+50.00

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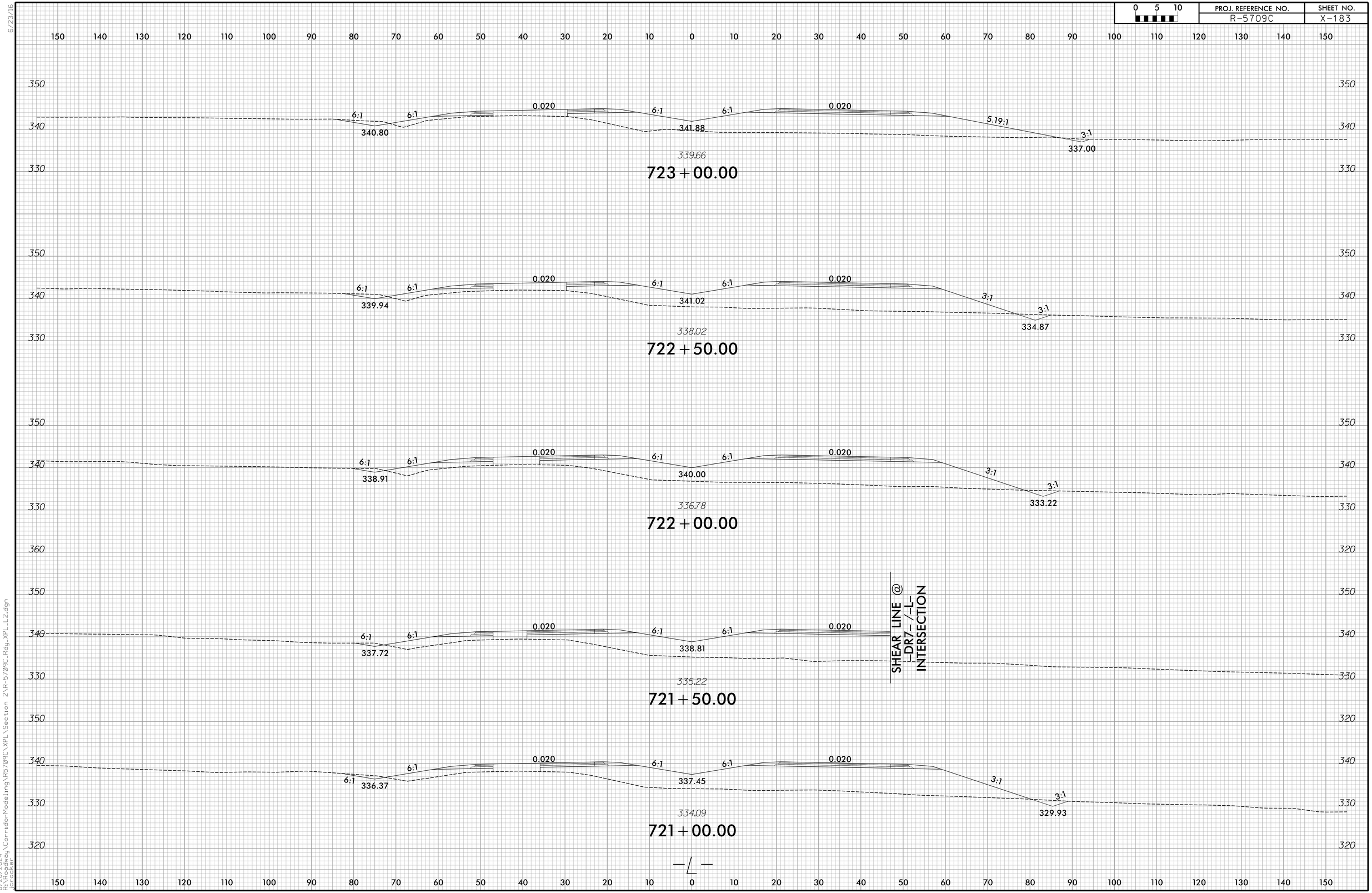
jcrocker

0 5 10	PROJ. REFERENCE NO.	SHEET NO.
	R-5709C	X-183



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jcrocker

0 5 10

PROJ. REFERENCE NO.	SHEET NO.
R-5709C	X-184

150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

350 340 330

0.020 0.020

6:1 342.48 6:1 347.72 4.647:1 4.429:1 344.50 6:1 342.36 4:1

726+00.00

350 340 330

0.020 0.020

5.74:1 6:1 342.62 347.17 4.613:1 4.365:1 344.72 6:1 342.53 4:1

725+50.00

350 340 330

0.020 0.020

4:1 6:1 342.58 346.63 4.970:1 4.748:1 344.93 6:1 342.27 4.05:1

725+00.00

350 340 330

0.020 0.020

5.05:1 6:1 342.39 344.74 6.013:1 6.019:1 345.14 6:1 341.85 6:1

724+50.00

350 340 330

0.020 0.020

6:1 6:1 342.02 342.99 6:1 341.27 6:1

BEGIN UNDERCUT FOR SUBGRADE STABILITY - STA. 723+75

724+00.00

350 340 330

0.020 0.020

6:1 6:1 341.49 341.63 6:1 339.14 3:1

723+50.00

—℄—

150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

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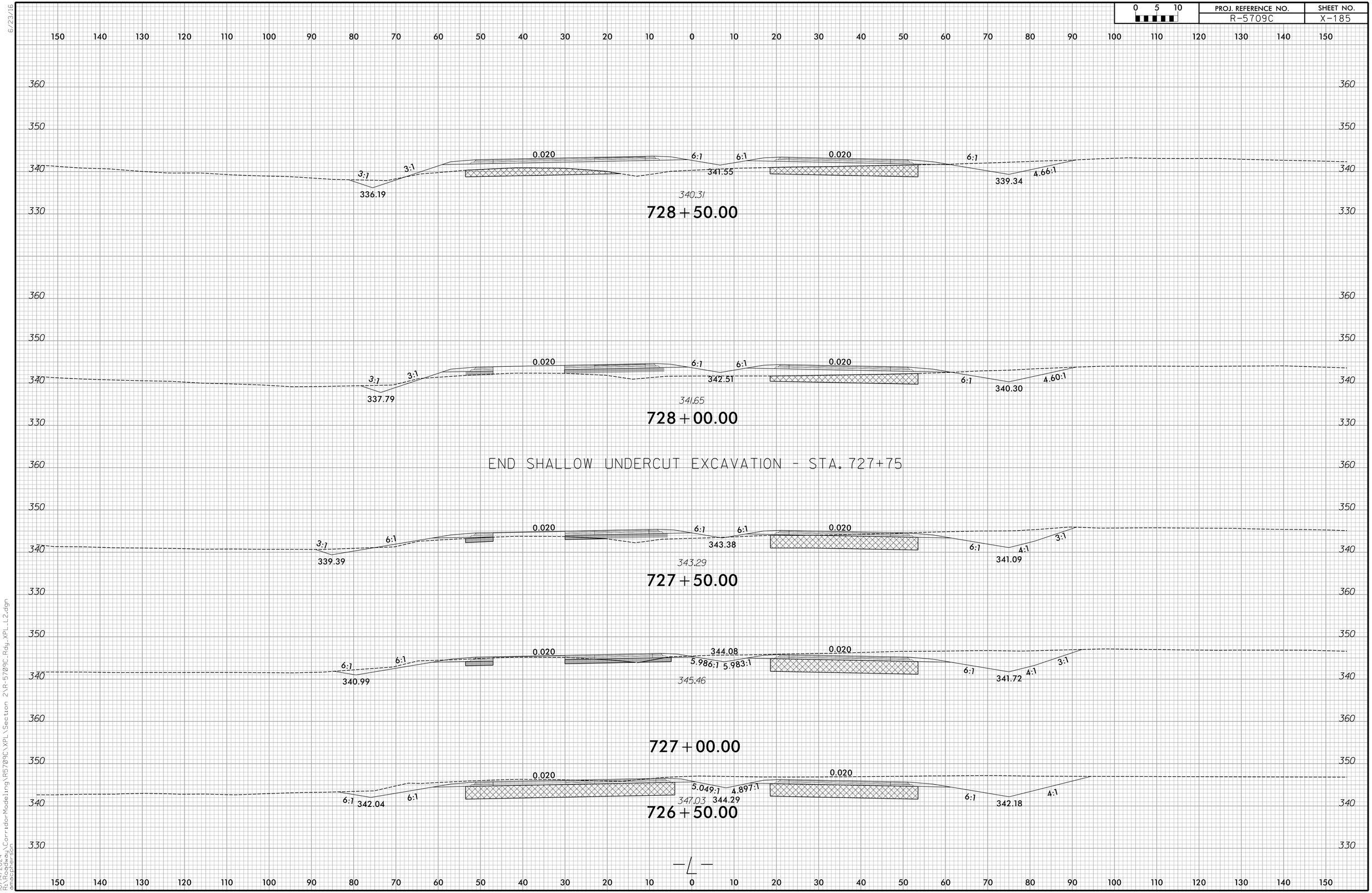
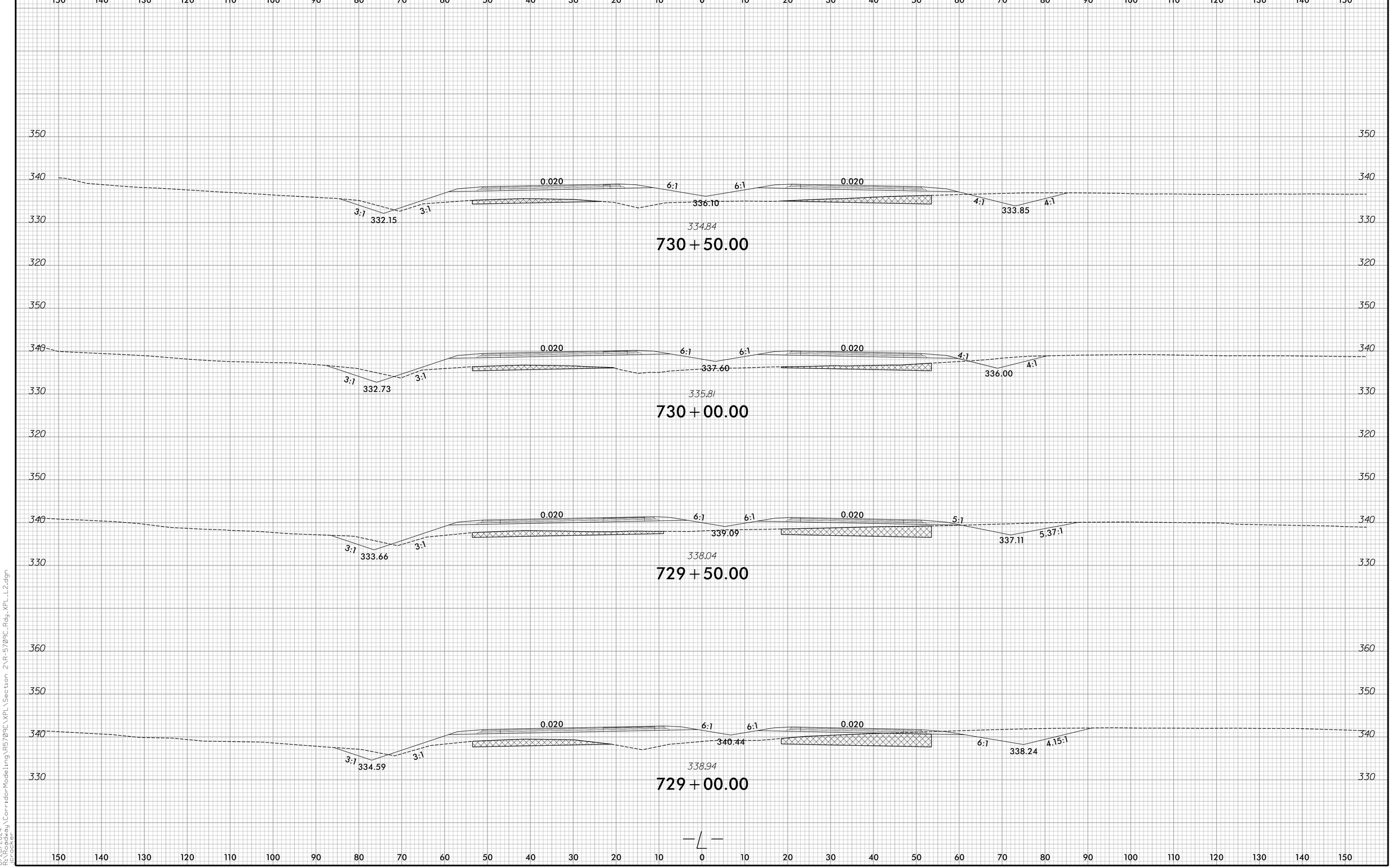
gmacpherson

0 5 10	PROJ. REFERENCE NO.	SHEET NO.
	R-5709C	X-185



0 5 10	PROJ. REFERENCE NO.	SHEET NO.
	R-5709C	X-186



0 5 10	PROJ. REFERENCE NO.	SHEET NO.
	R-5709C	X-187

150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

340 330 320

3:3:1 0.020 6:1 6:1 0.020 5.16:1 3:1 3:1

332.84

331.28

733+00.00

END UNDERCUT FOR SUBGRADE STABILITY - STA. 732+75

3:1:1 0.020 6:1 6:1 0.020 5.22:1 3:1 3:1

333.11

330.70

327.61

732+50.00

END UNDERCUT FOR EMBANKMENT STABILITY - STA. 732+25

3:1 0.020 6:1 6:1 0.020 4:1 3:1 3:1

333.55

331.44

328.58

732+00.00

3:1 3:1 0.020 6:1 6:1 0.020 4:1 3:1 3:1

334.17

331.22

333.04

329.54

731+50.00

3:1 3:1 0.020 6:1 6:1 0.020 4:1 4:1 4:1

334.97

331.58

334.16

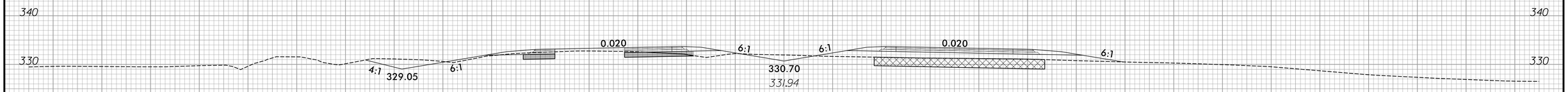
331.70

BEGIN UNDERCUT FOR EMBANKMENT STABILITY - STA. 730+75

731+00.00

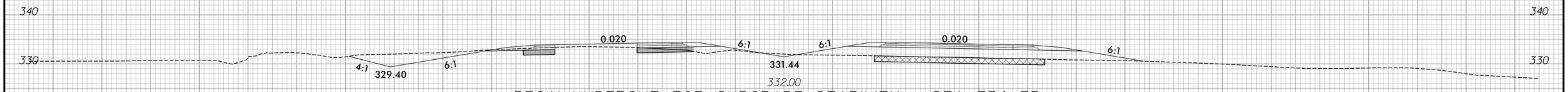
0 5 10	PROJ. REFERENCE NO.	SHEET NO.
	R-5709C	X-188

150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150



331.94

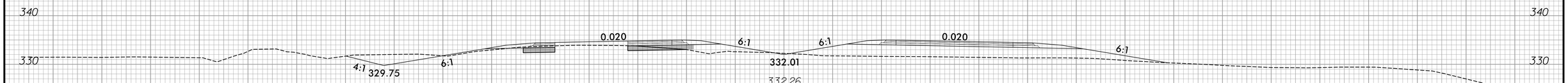
735+50.00



332.00

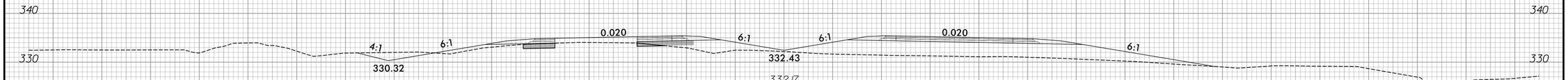
BEGIN UNDERCUT FOR SUBGRADE STABILITY - STA. 734+75

735+00.00



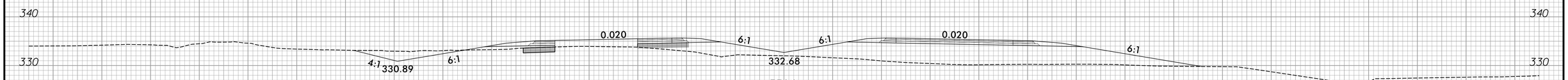
332.26

734+50.00



332.17

734+00.00



332.01

BEGIN SHALLOW UNDERCUT EXCAVATION - STA. 733+25

733+50.00

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150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

0 5 10	PROJ. REFERENCE NO.	SHEET NO.
	R-5709C	X-189

150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

340 330 320

6:1 6:1 323.20 6:1 0.030 6:1 6:1 324.48 0.030 3:1 3:1 318.87

324.65

738+00.00

340 330 320 310

6:1 6:1 325.00 6:1 0.020 6:1 6:1 325.99 0.017 6:1 3:1 3:1 321.25

325.83

737+50.00

END SHALLOW UNDERCUT EXCAVATION - STA. 737+25
END UNDERCUT FOR SUBGRADE STABILITY - STA. 737+25

340 330 320

6:1 6:1 326.41 6:1 0.020 6:1 6:1 327.42 0.005 6:1 3:1 3:1 323.86

326.94

737+00.00

330 320

6:1 6:1 327.64 6:1 0.020 6:1 6:1 328.69 0.008 6:1 326.46 6:1

329.05

736+50.00

340 330 320

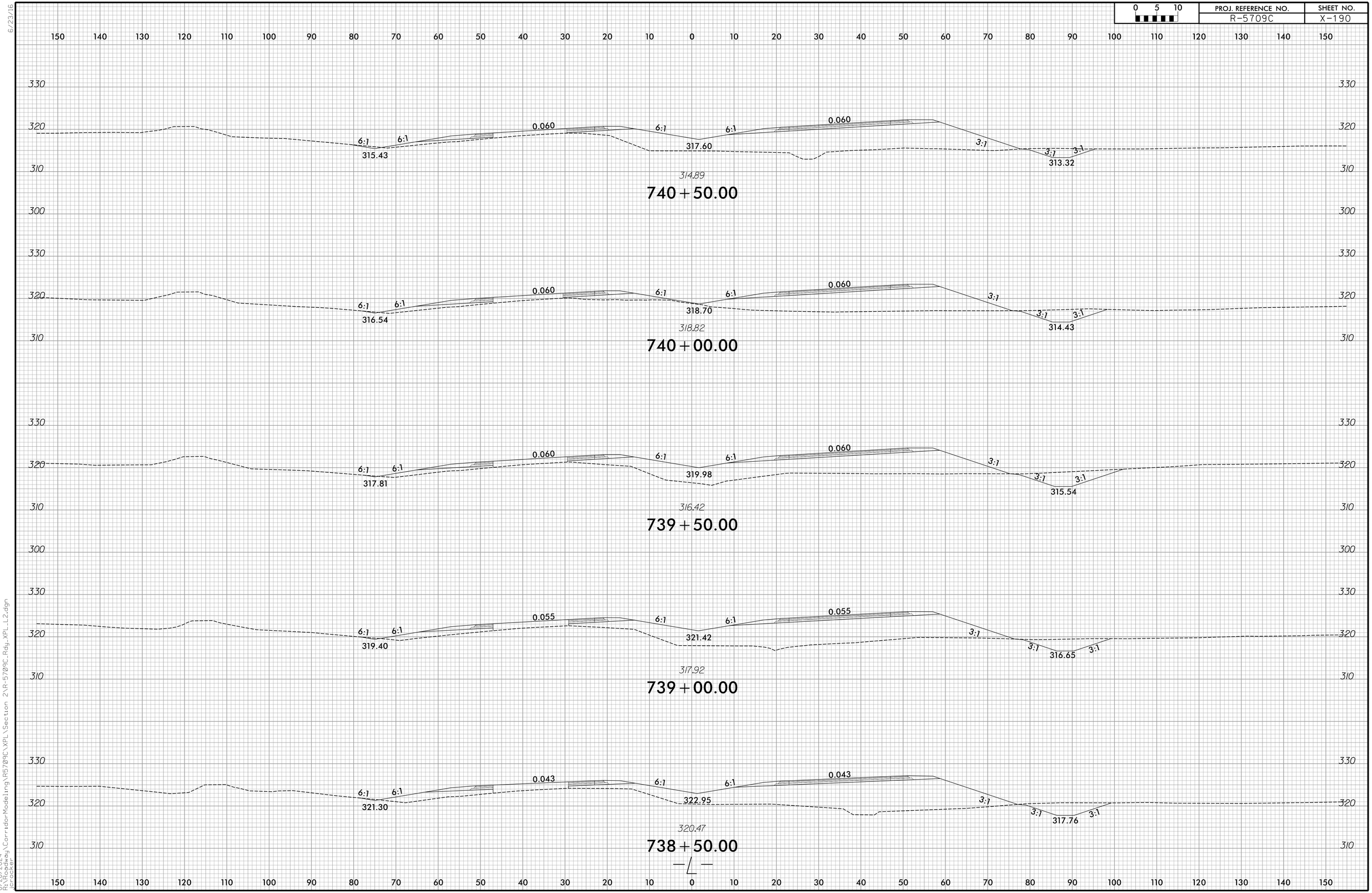
4:1 328.70 6:1 0.020 6:1 6:1 329.79 0.020 6:1 328.70 6:1

330.78

736+00.00

150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

0 5 10	PROJ. REFERENCE NO.	SHEET NO.
	R-5709C	X-190



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jcrocker

0 5 10	PROJ. REFERENCE NO.	SHEET NO.
	R-5709C	X-191

150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

330 320 310 300

6:1 5.64:1 312.74 6:1 0.060 6:1 314.91 6:1 0.060 3.72:1

313.55

742+50.00

330 320 310 300

6:1 6:1 313.15 6:1 0.060 6:1 315.32 6:1 0.060 3.41:1

312.63

742+00.00

330 320 310 300

6:1 6:1 313.74 6:1 0.060 6:1 315.91 6:1 0.060 3.54:1

312.74

741+50.00

330 320 310 300

6:1 6:1 314.50 6:1 0.060 6:1 316.67 3:1 3:1 3:1 312.21

313.55

741+00.00

—℄—

150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

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8/28/2024
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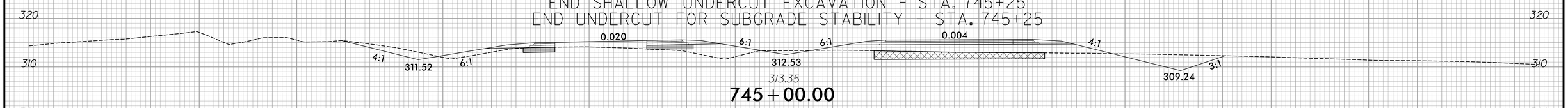
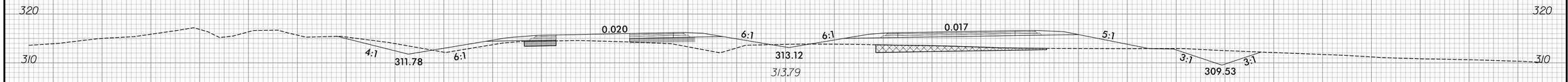
jcrocker

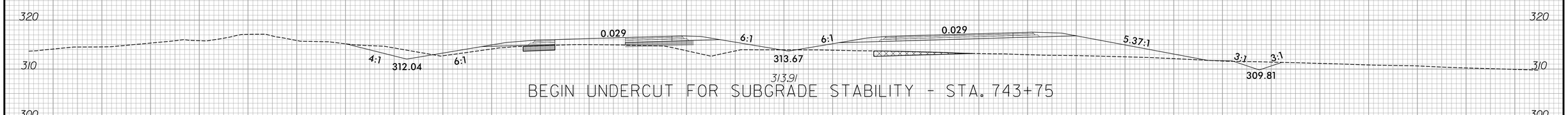
END SHALLOW UNDERCUT EXCAVATION - STA. 745+25
END UNDERCUT FOR SUBGRADE STABILITY - STA. 745+25



745+00.00

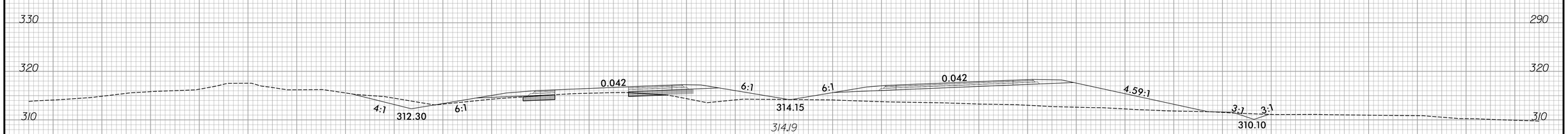


744+50.00

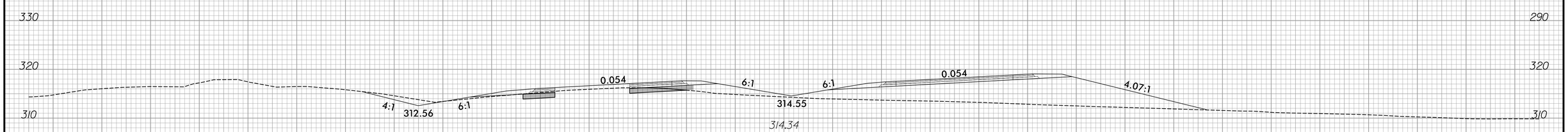


BEGIN UNDERCUT FOR SUBGRADE STABILITY - STA. 743+75

744+00.00



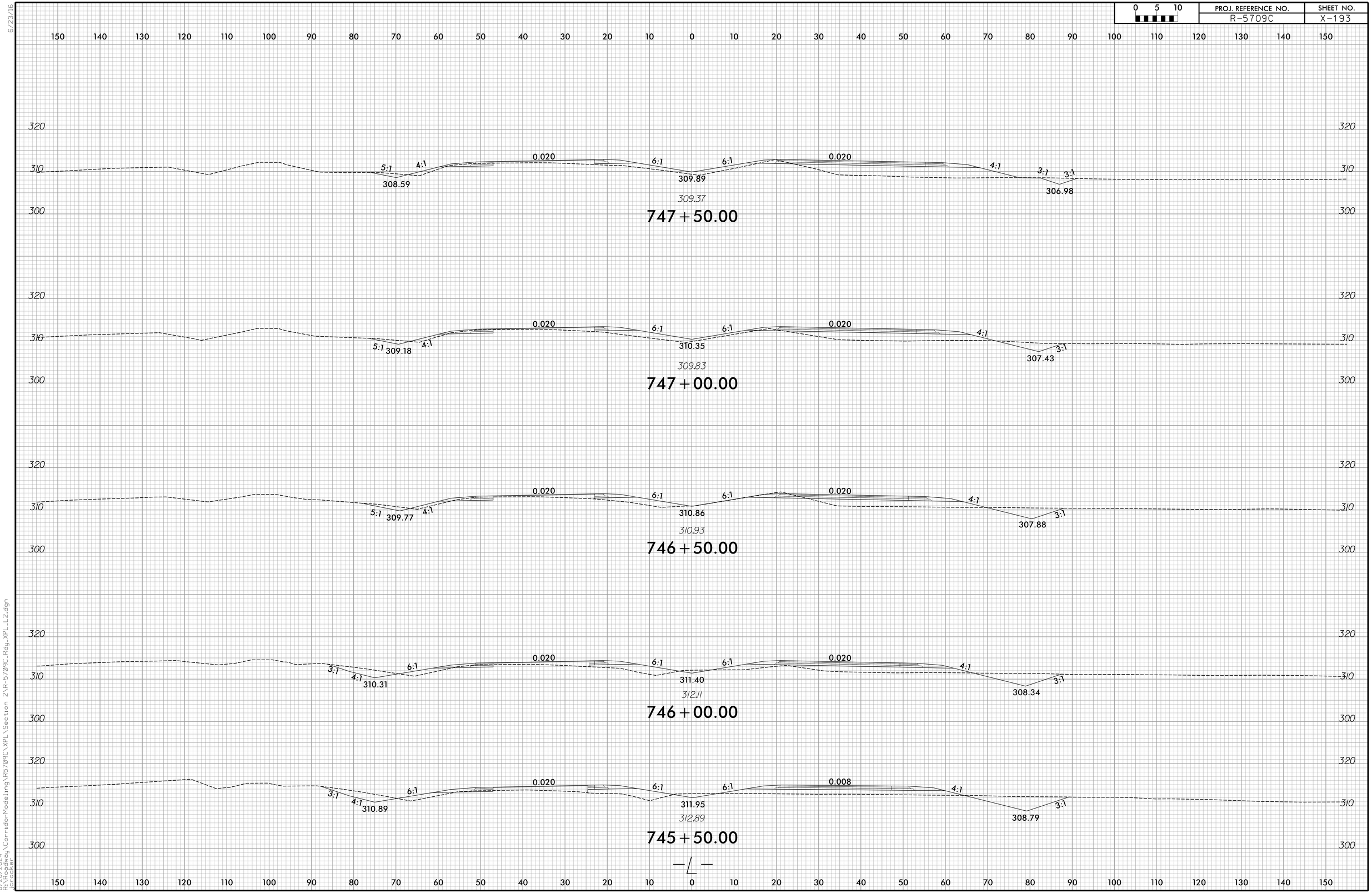
743+50.00



BEGIN SHALLOW UNDERCUT EXCAVATION - STA. 742+75

743+00.00

0 5 10	PROJ. REFERENCE NO.	SHEET NO.
	R-5709C	X-193



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0 5 10	PROJ. REFERENCE NO.	SHEET NO.
	R-5709C	X-194

150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

330 320 310 300 290

5:1 4:1 0.020 0.020

306.23

309.18

749+50.00

SHEAR LINE @ -L-/-Y22- INTERSECTION

330 320 310 300

5:1 4:1 0.020 0.020

306.82

309.42

749+00.00

SHEAR LINE @ -L-/-Y22- INTERSECTION

320 310 300

5:1 4:1 0.020 6:1 6:1 0.020 4:1 3:1 3:1

307.41 309.08 305.99

309.55

748+50.00

320 310 300

5:1 4:1 0.020 6:1 6:1 0.020 4:1 3:1 3:1

308.00 309.47 306.48

309.35

748+00.00

-L-

150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

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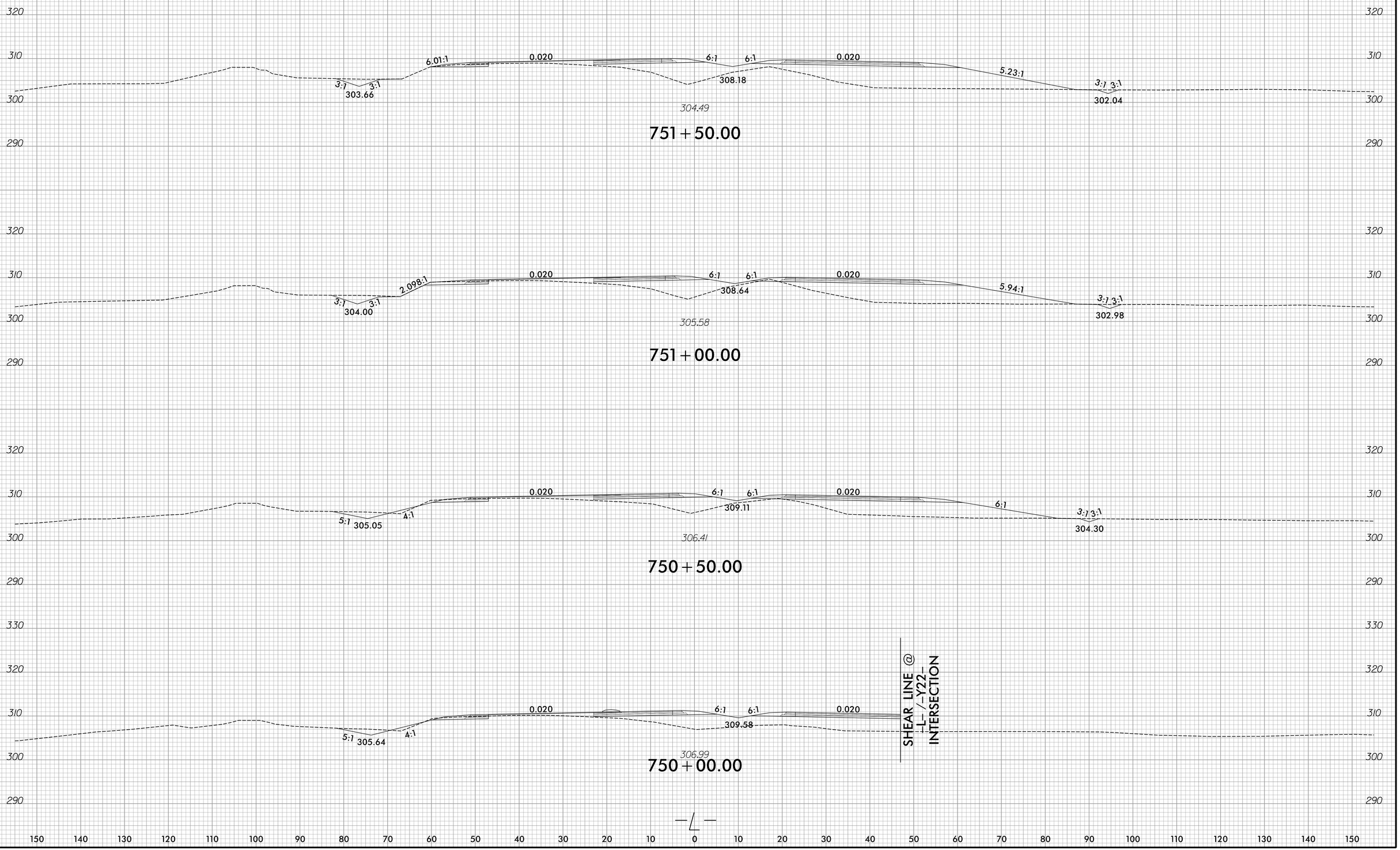
jcrocker

0 5 10	PROJ. REFERENCE NO.	SHEET NO.
	R-5709C	X-195



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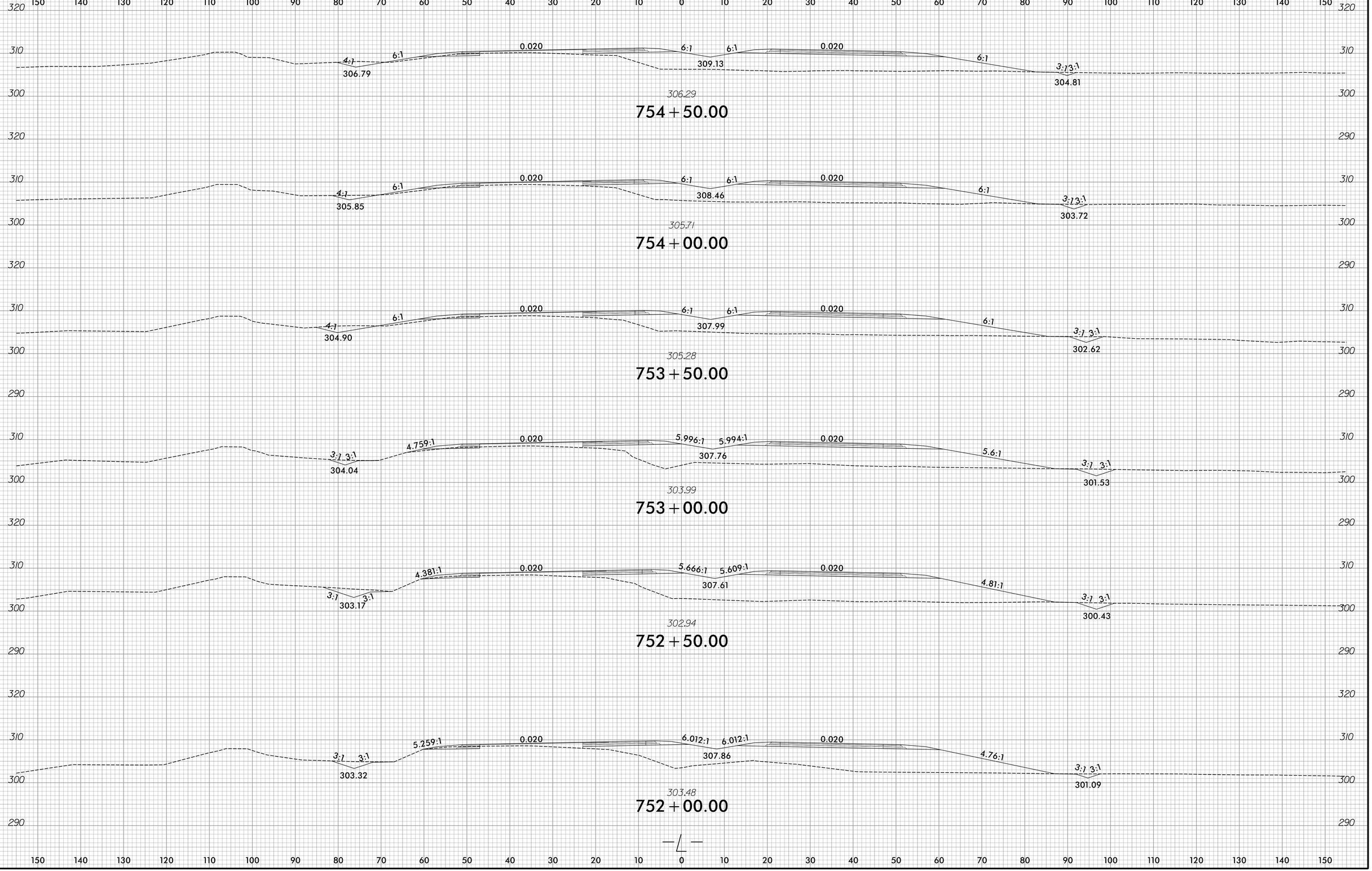
jcrocker



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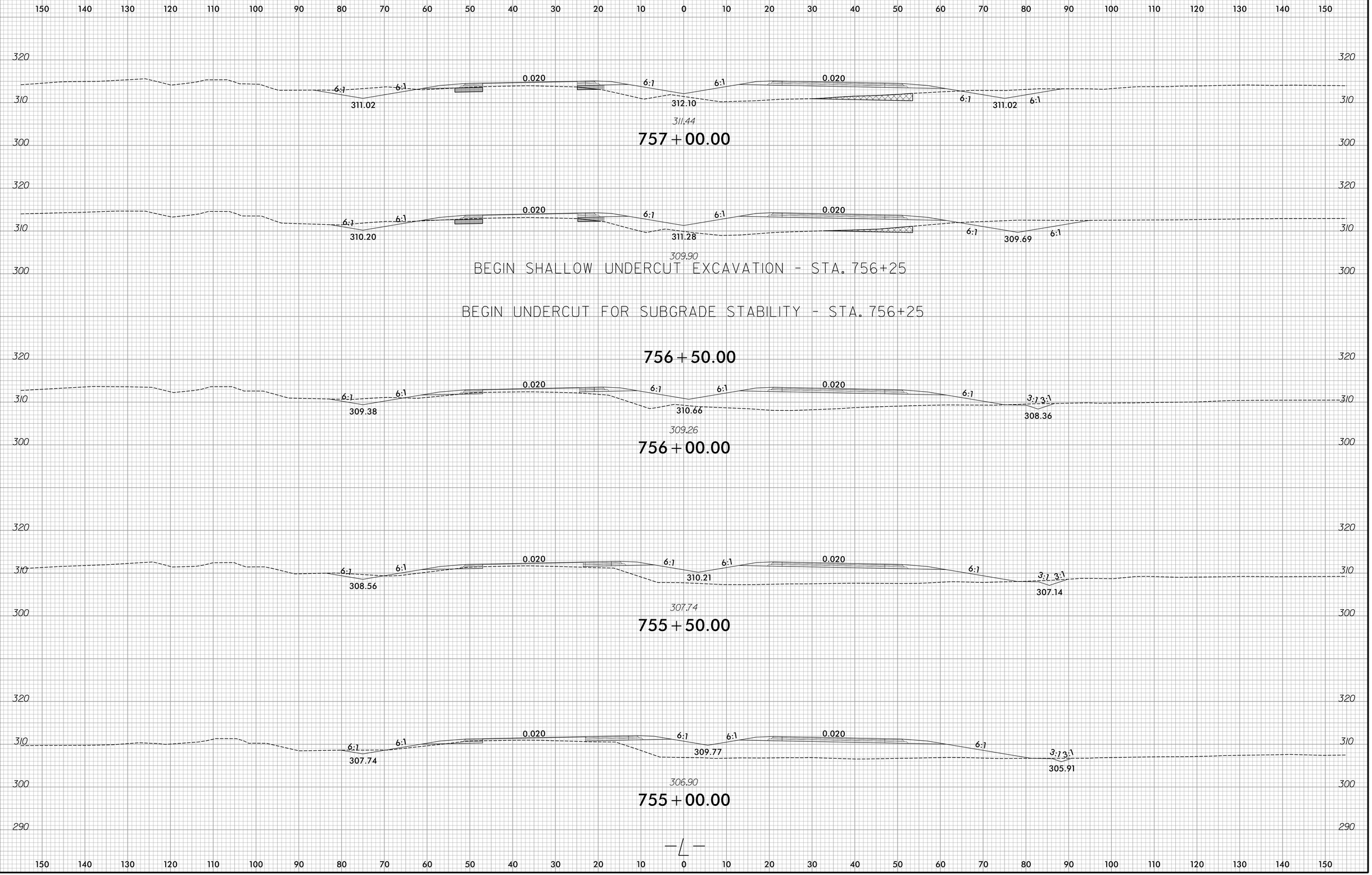
jcrocker

0 5 10	PROJ. REFERENCE NO.	SHEET NO.
	R-5709C	X-197



0 5 10	PROJ. REFERENCE NO.	SHEET NO.
	R-5709C	X-198

150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

330 320 310 300

END SHALLOW UNDERCUT EXCAVATION - STA. 760+25

6:1 6:1 0.020 6:1 6:1 0.013 6:1 6:1

315.94 317.00 316.16

318.72

760+00.00

320 310 300

6:1 6:1 0.020 6.6:1 6.6:1 0.020 6:1 5.52:1

315.12 316.46 315.12

318.39

759+50.00

330 320 310 300

6:1 6:1 0.020 7.4:1 7.4:1 0.020 6:1 4.41:1

314.30 315.93 314.30

317.07

759+00.00

320 310 300

6:1 6:1 0.020 8:1 8:1 0.020 6:1 4:1

313.48 315.39 313.48

316.18

758+50.00

320 310 300

6:1 6:1 0.020 9:1 9:1 0.020 6:1 5.44:1

312.66 314.85 312.66

315.08

758+00.00

320 310 300

6:1 6:1 0.020 6:1 6:1 0.020 6:1 4.96:1

311.84 312.92 311.84

312.98

757+50.00

—℄—

150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

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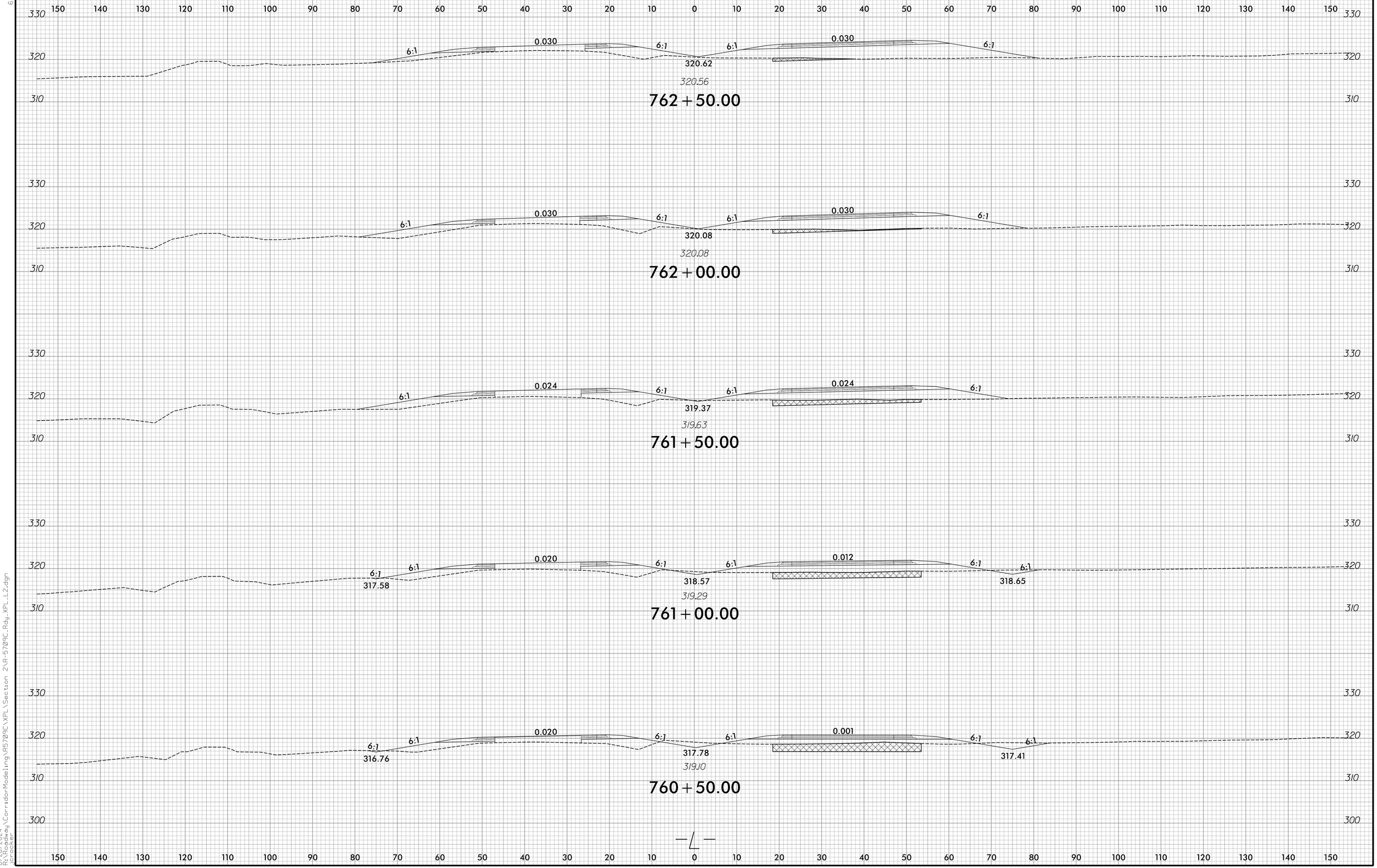
jcrocker



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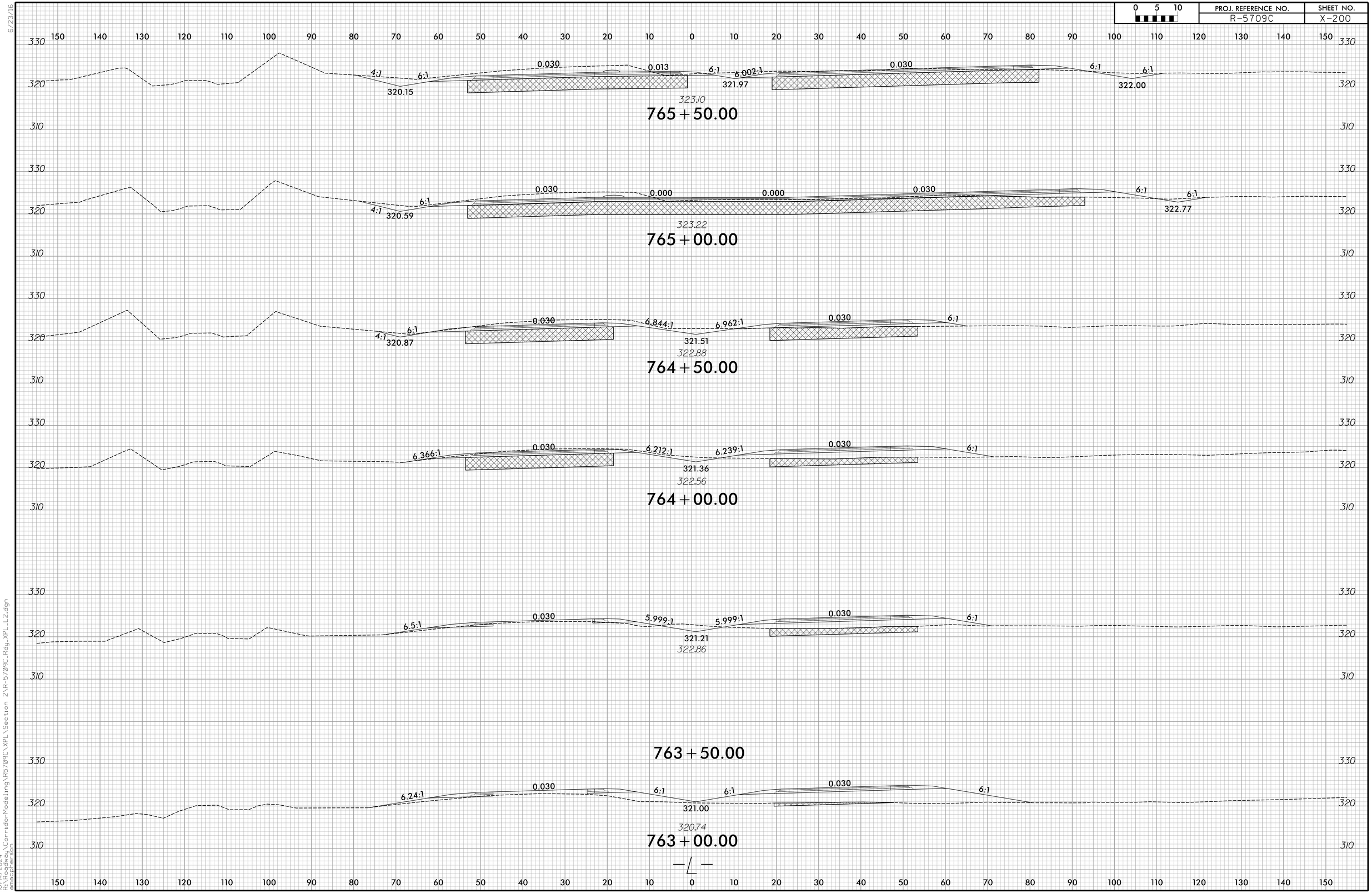
jcrocker

6/23/16

0 5 10	PROJ. REFERENCE NO.	SHEET NO.
	R-5709C	X-200



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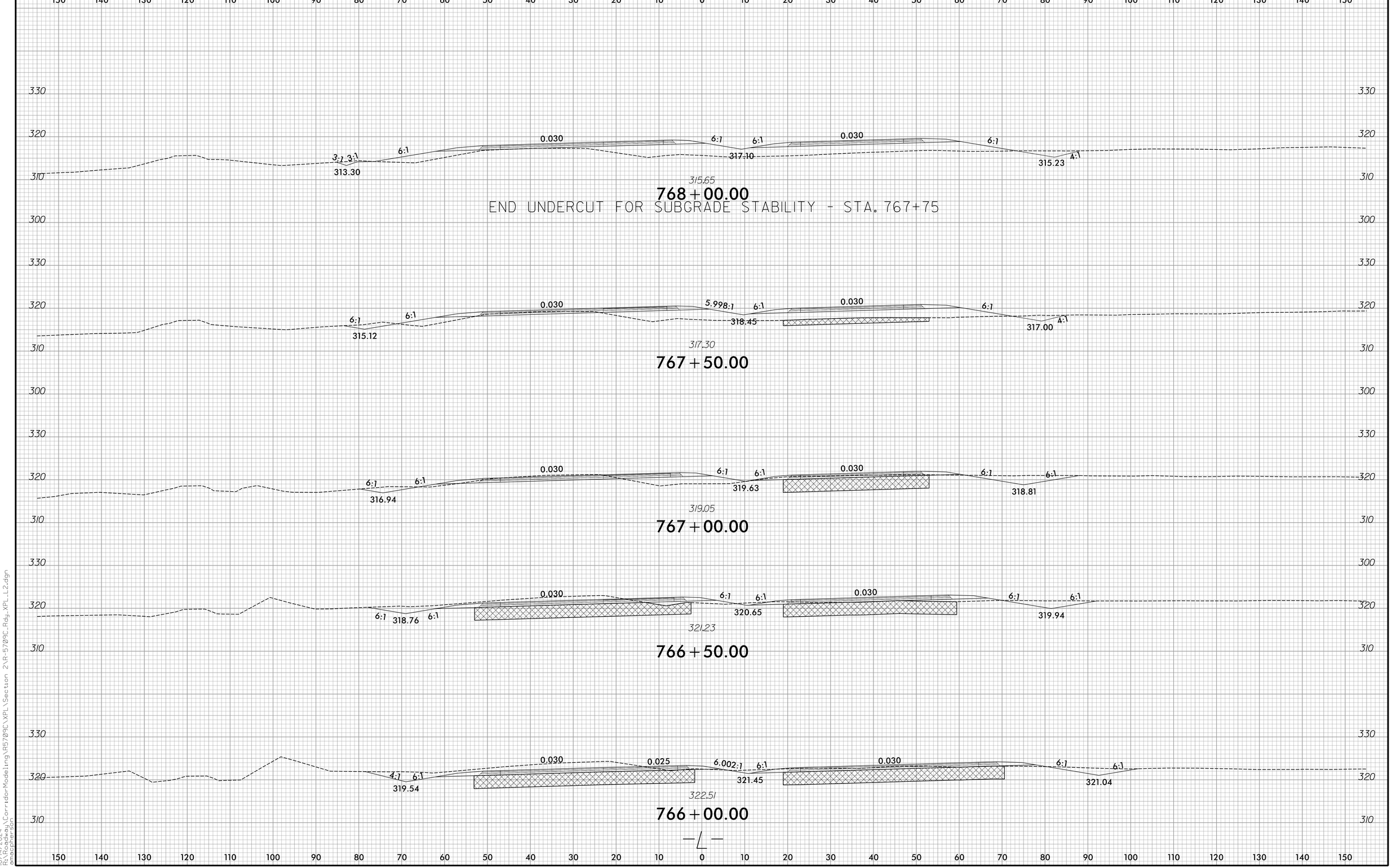
smacpherson

0 5 10	PROJ. REFERENCE NO.	SHEET NO.
	R-5709C	X-201



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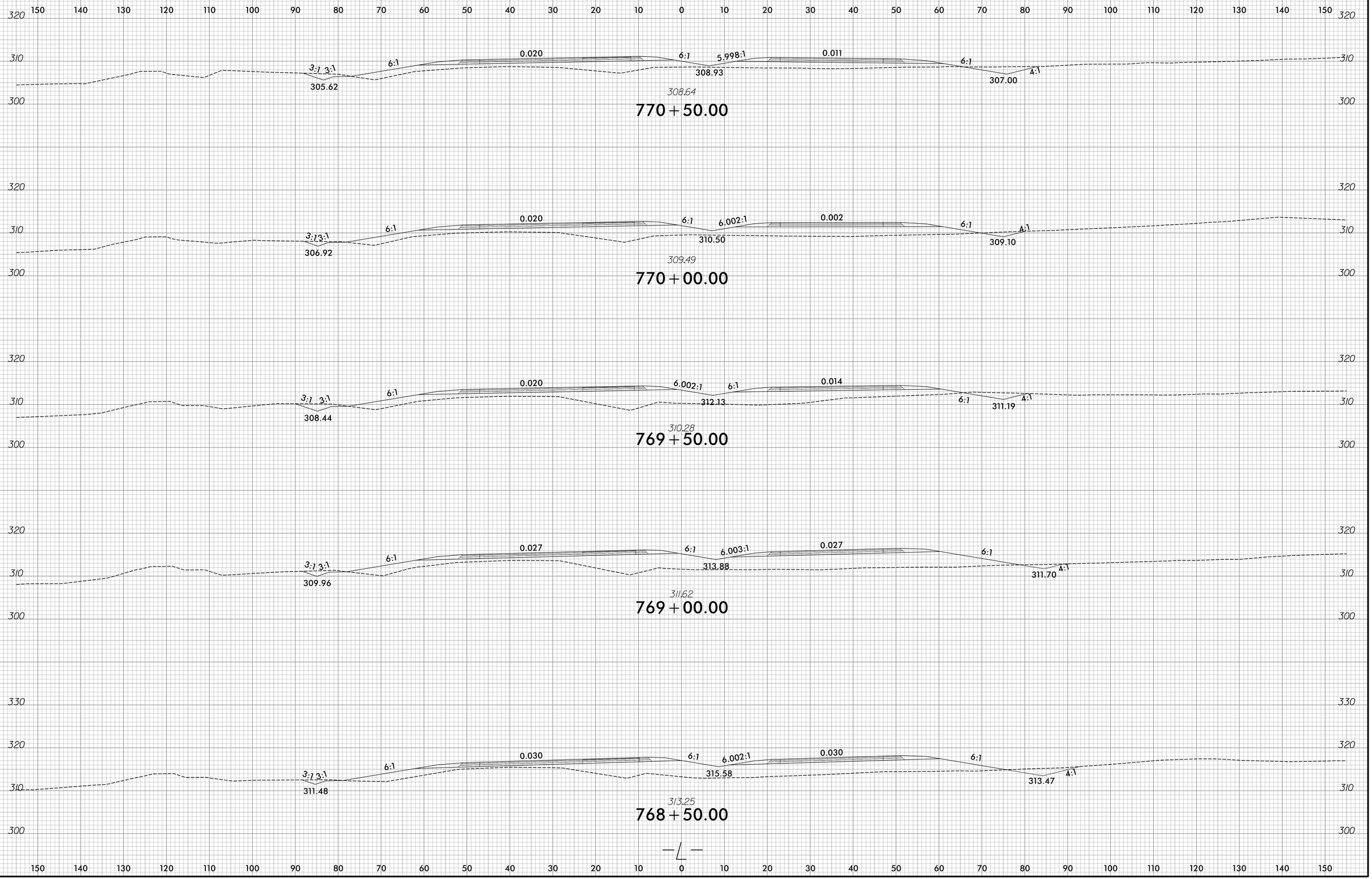
gmacpherson

0 5 10	PROJ. REFERENCE NO.	SHEET NO.
	R-5709C	X-202



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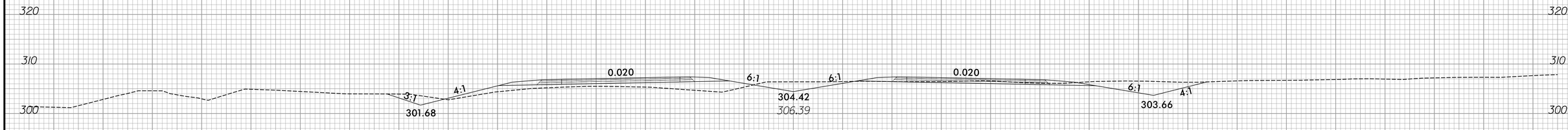
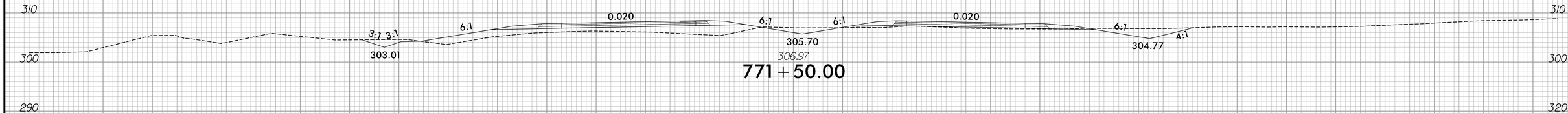
0 5 10	PROJ. REFERENCE NO.	SHEET NO.
	R-5709C	X-203

150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

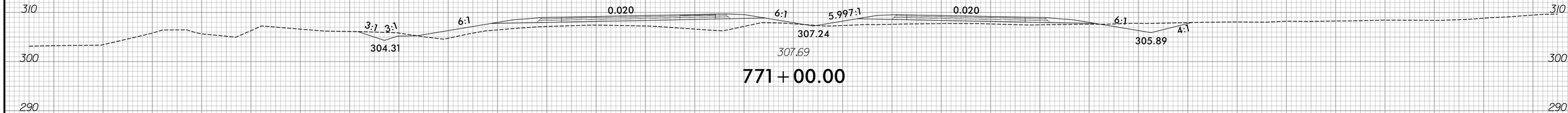
772+50.00



772+00.00



771+50.00



771+00.00

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150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

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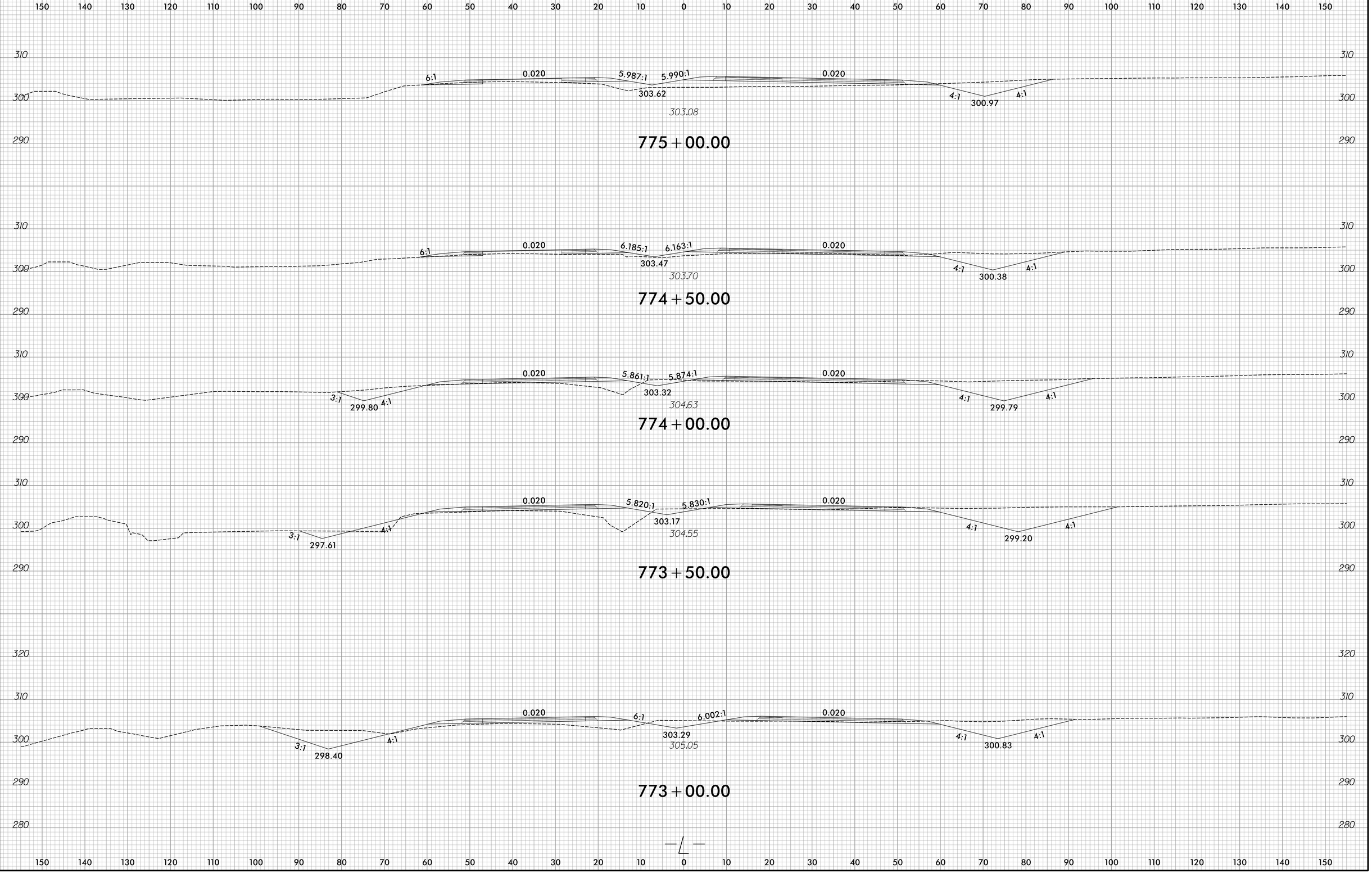
jcrocker

0 5 10	PROJ. REFERENCE NO.	SHEET NO.
	R-5709C	X-204



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	R-5709C	X-205

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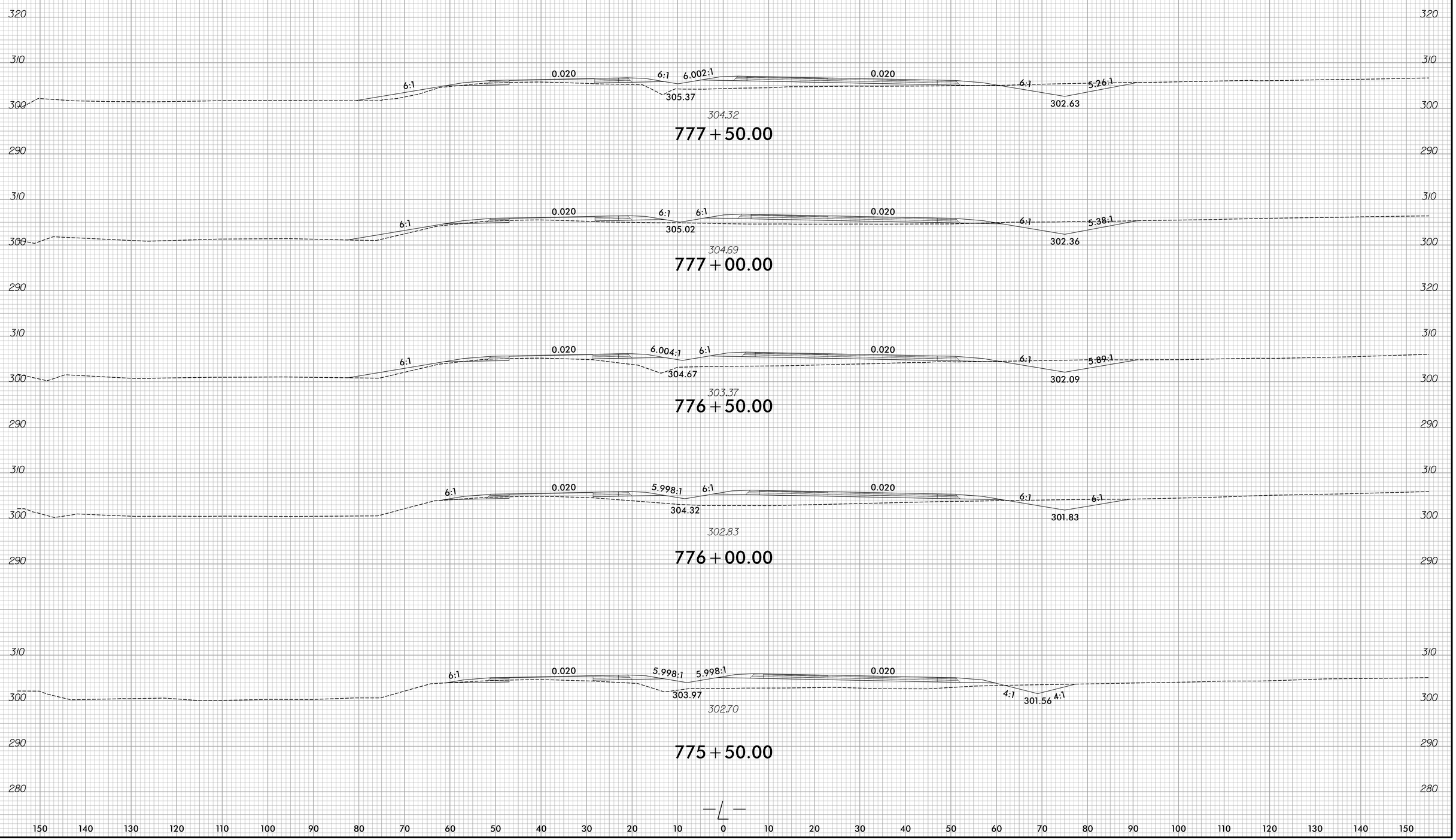

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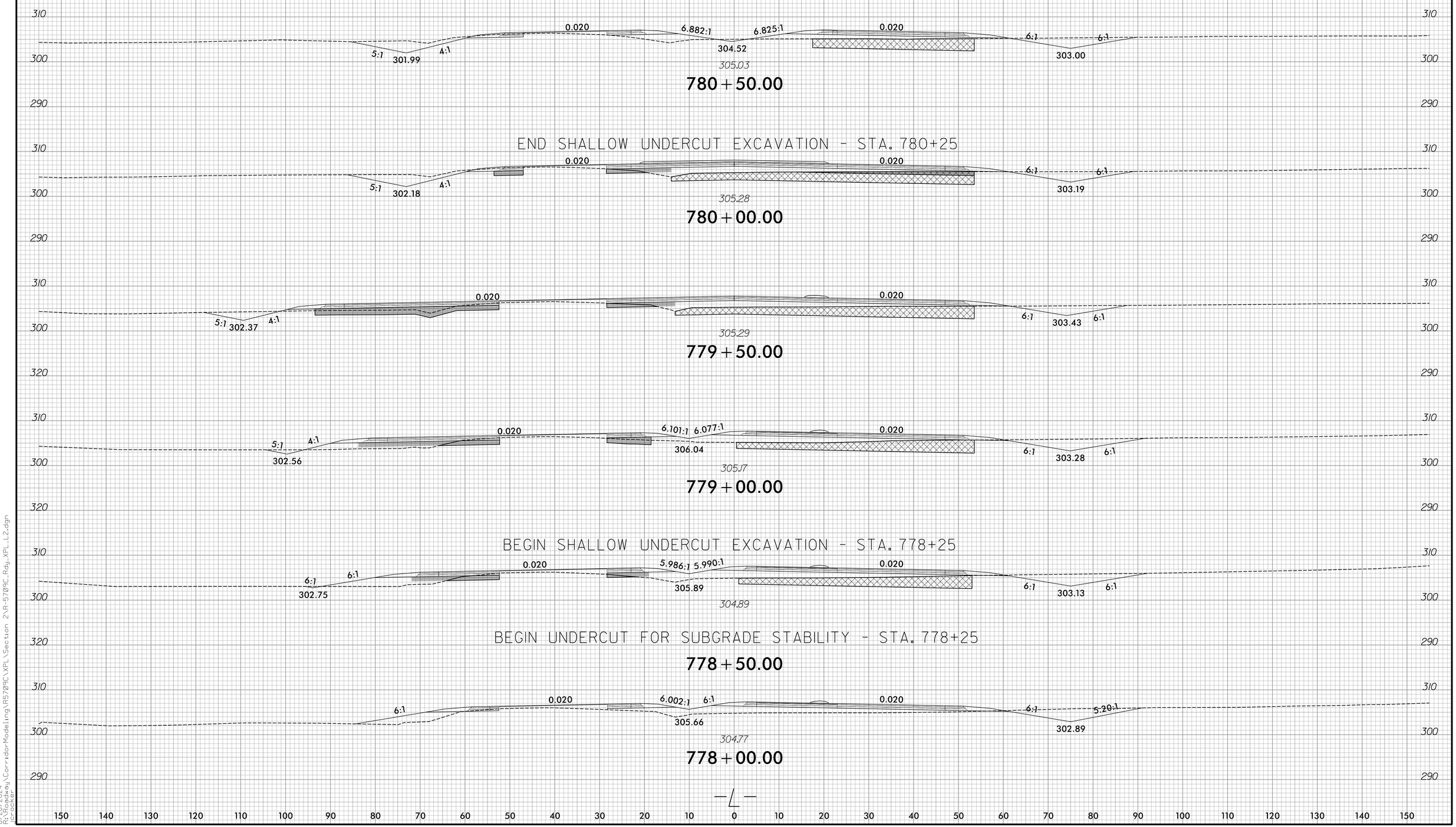

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jcrocker

6/23/16

0 5 10	PROJ. REFERENCE NO.	SHEET NO.
	R-5709C	X-207

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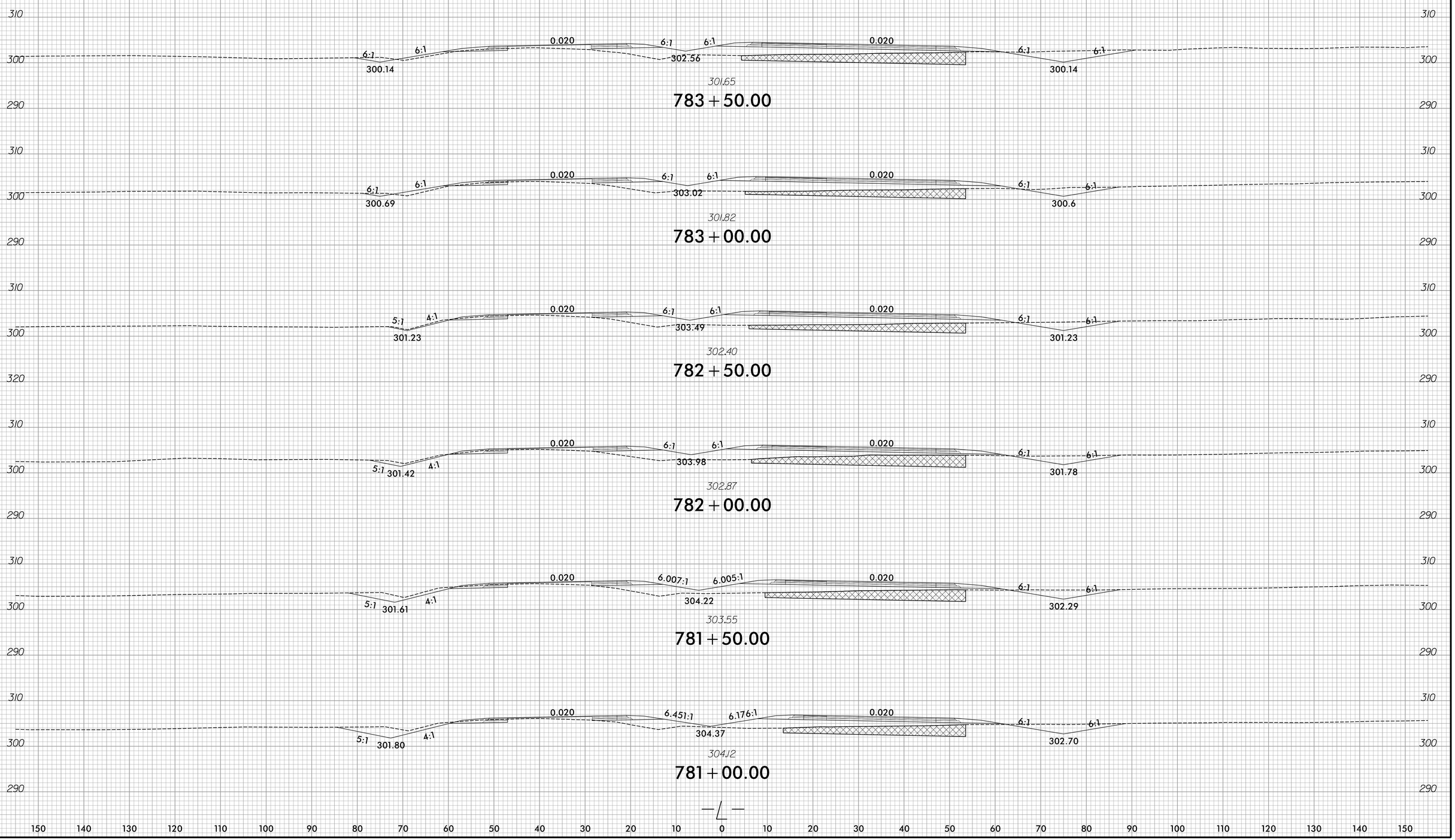

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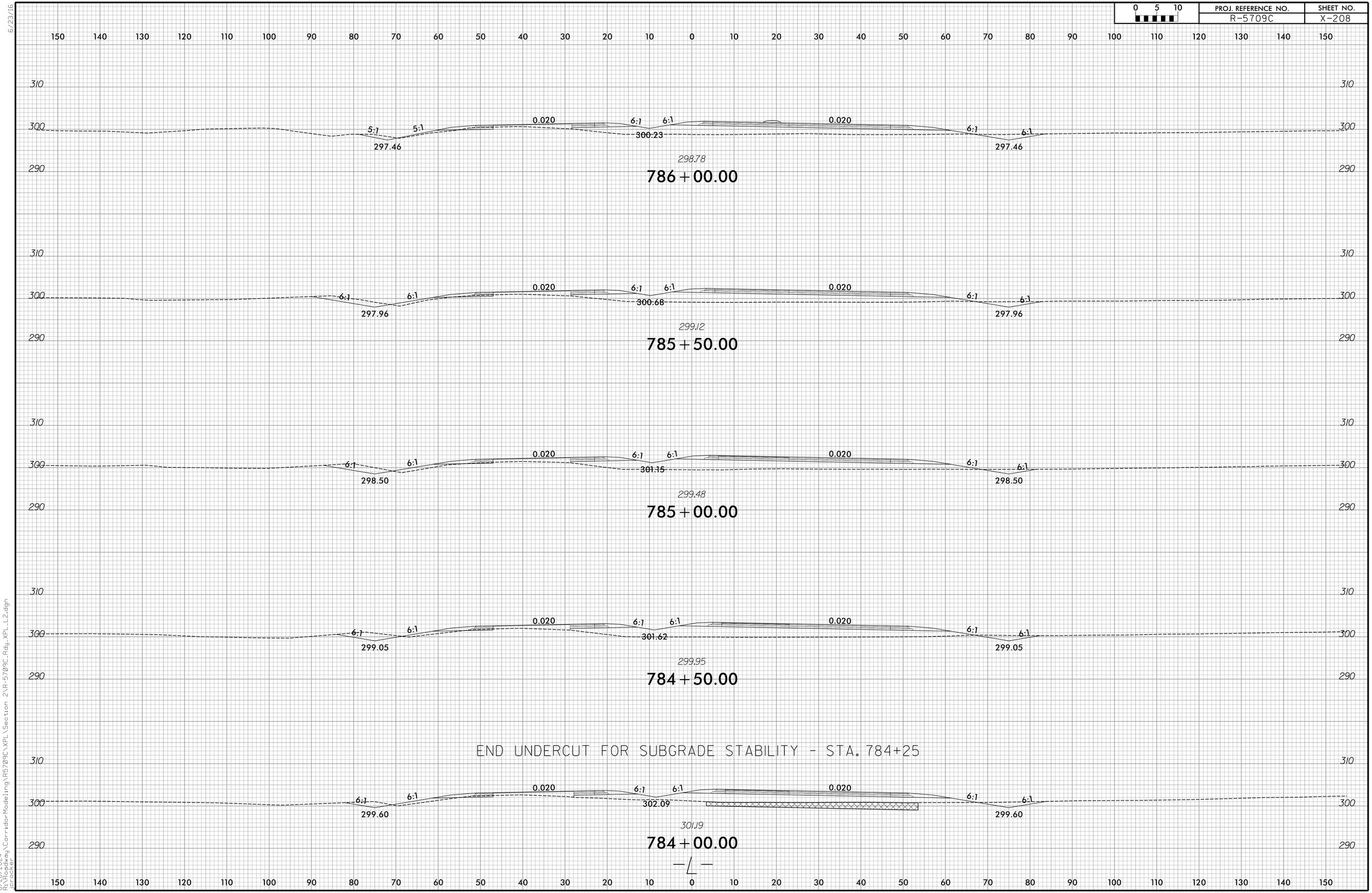
jcrocker

150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

0 5 10	PROJ. REFERENCE NO.	SHEET NO.
	R-5709C	X-208



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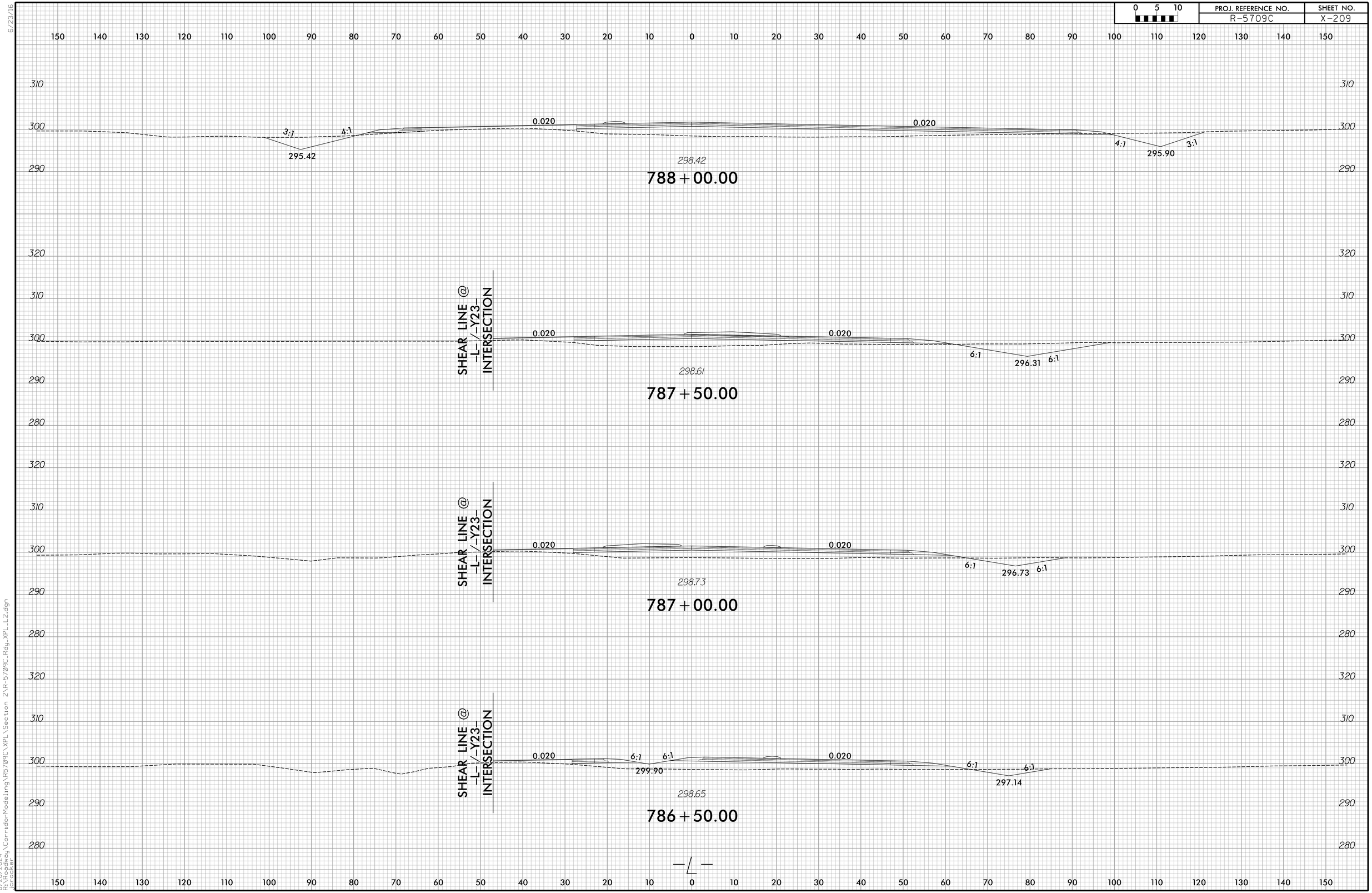
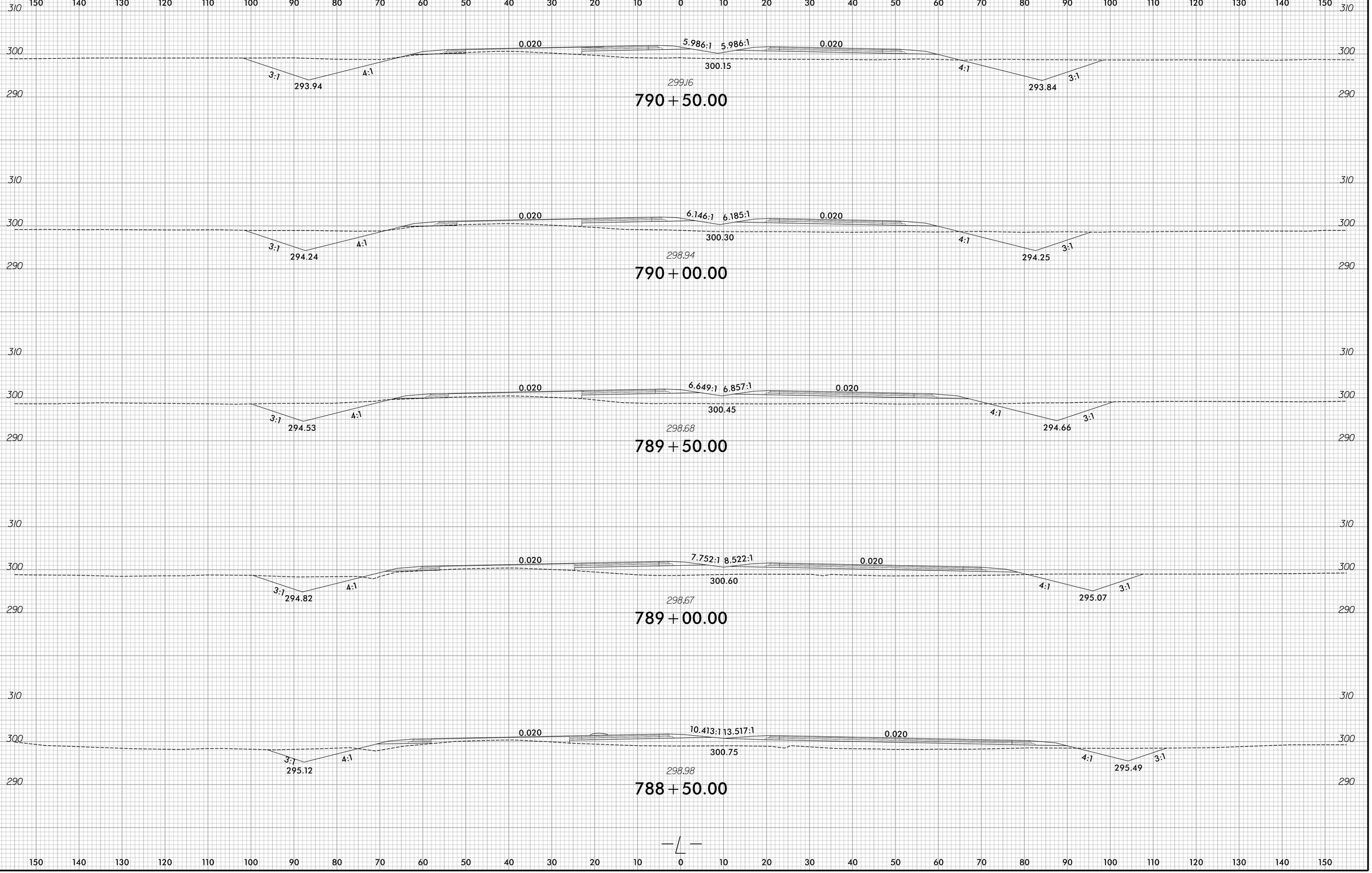
	R-5709C	X-209



0 5 10	PROJ. REFERENCE NO.	SHEET NO.
	R-5709C	X-210



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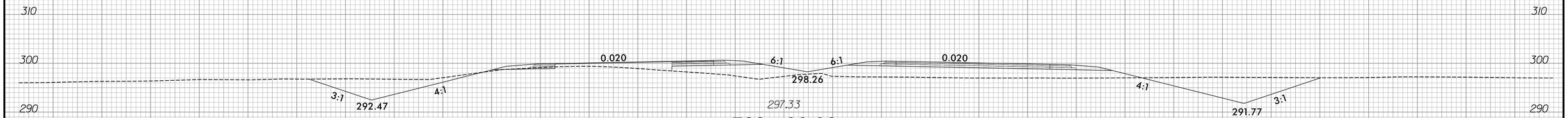
jcrocker

6/23/16

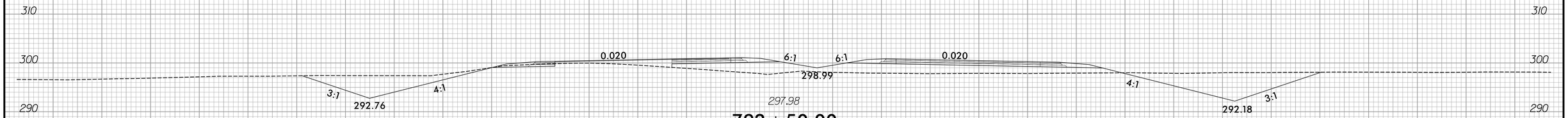
0 5 10	PROJ. REFERENCE NO.	SHEET NO.
	R-5709C	X-211

150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150



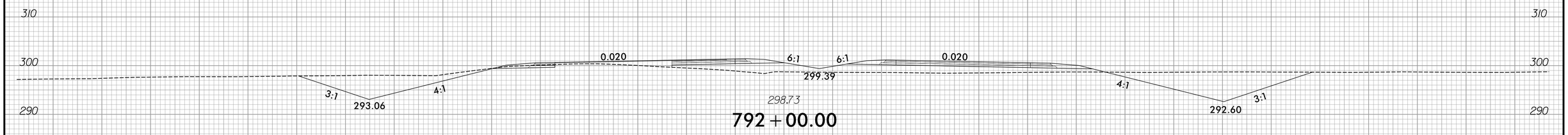
297.33

793+00.00



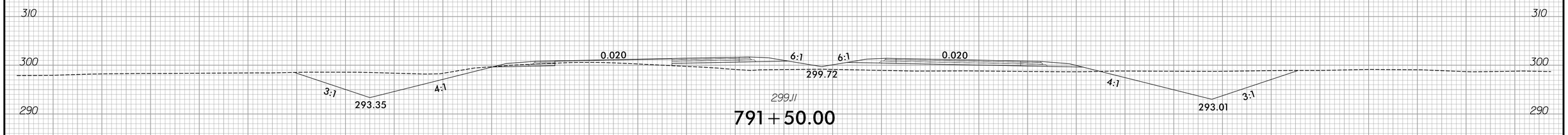
297.98

792+50.00



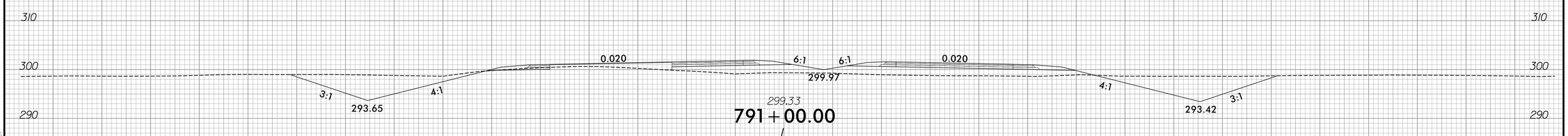
298.73

792+00.00



299.11

791+50.00



299.33

791+00.00

150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

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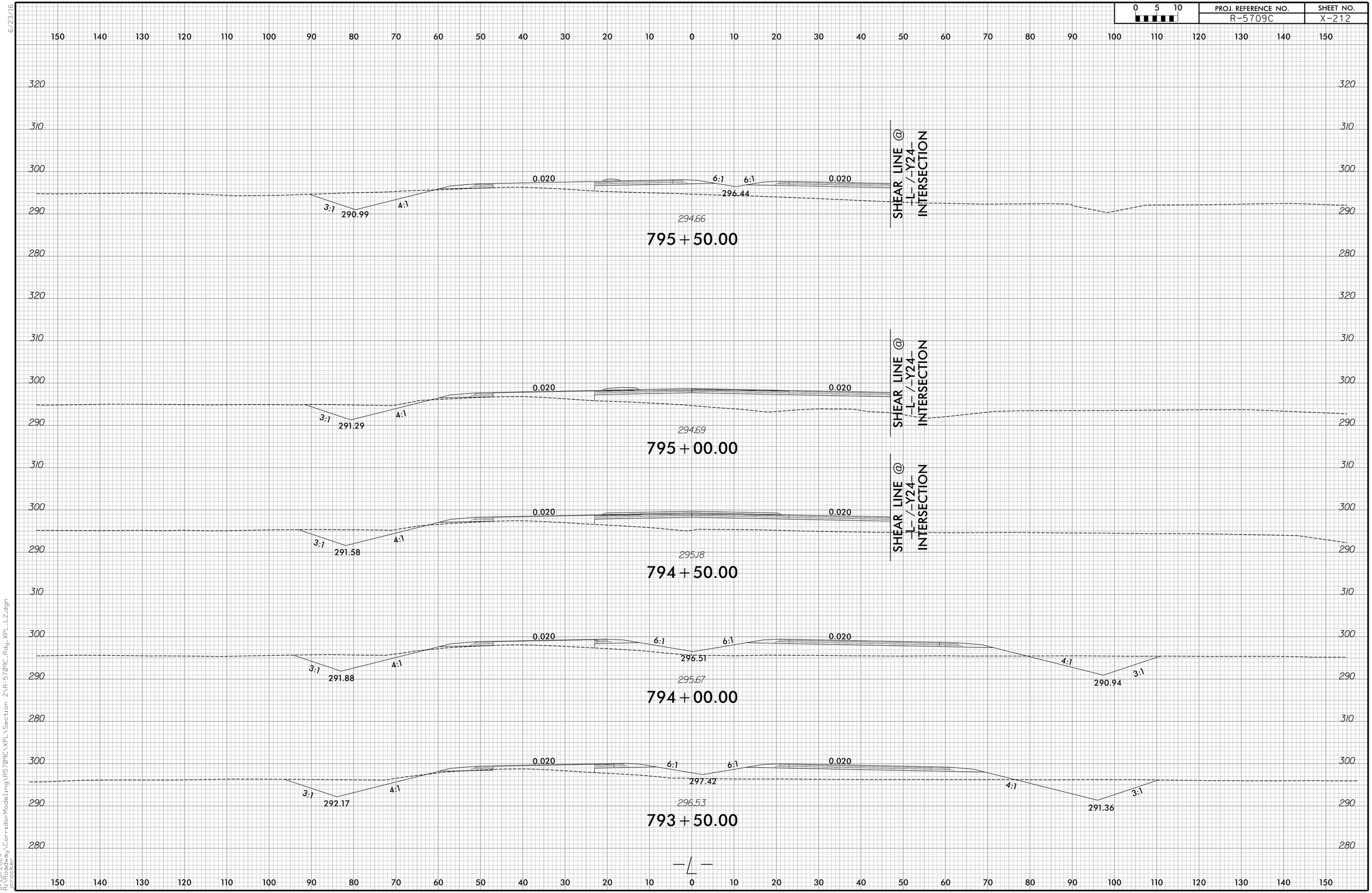
jbrooker



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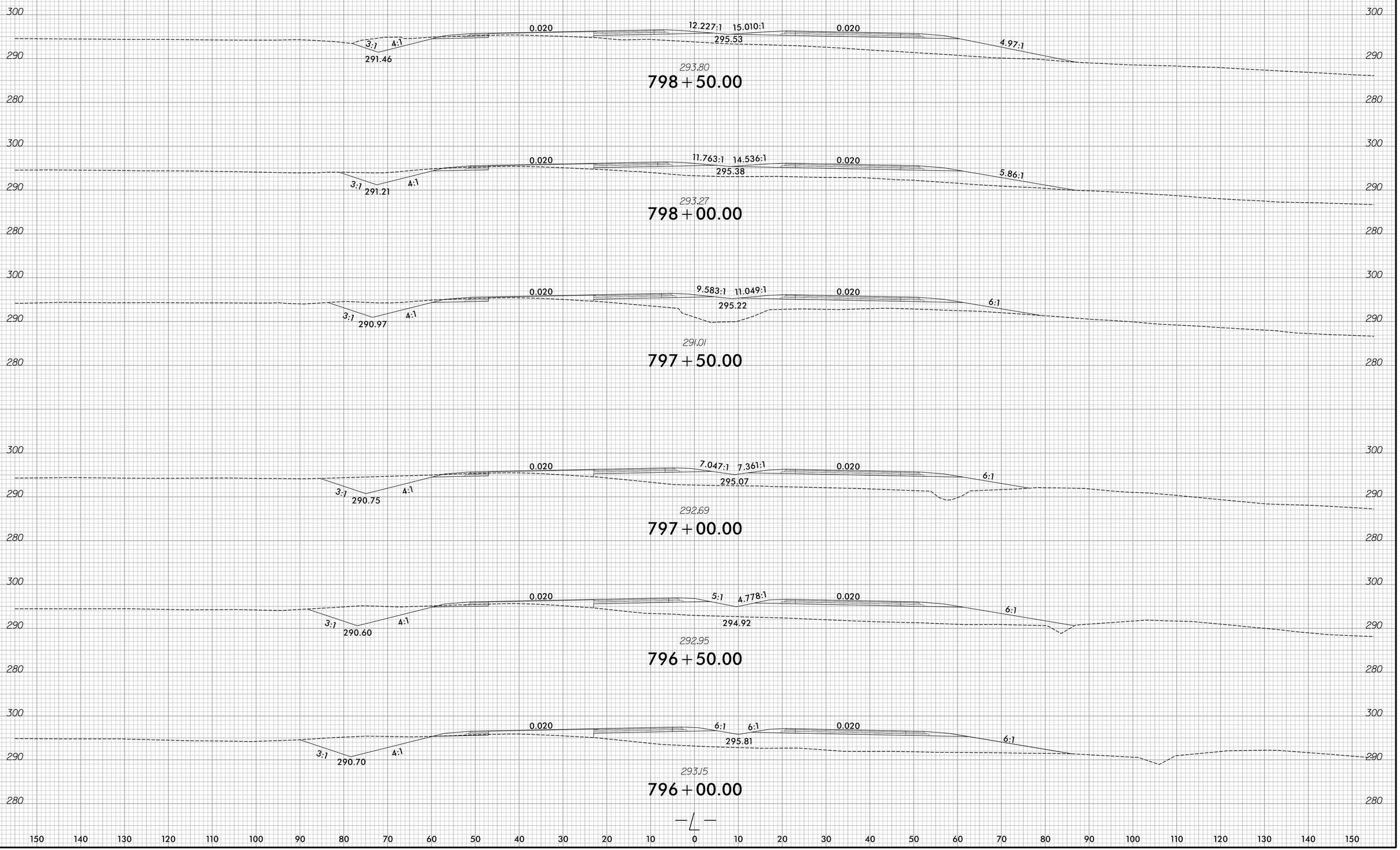
jcrocker

PROJ. REFERENCE NO.	SHEET NO.
R-5709C	X-213

0 5 10

150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150



150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

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8/28/2024
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jcrocker

150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

300 290 280

SHEAR LINE @ -L- /-Y24A- INTERSECTION

0.020 9.313:1 9.430:1 0.020 5.94:1

294.42

293.26

801+50.00

SHEAR LINE @ -L- /-Y24A- INTERSECTION

0.020 9.638:1 10.031:1 0.020 5.22:1

294.94

293.79

801+00.00

SHEAR LINE @ -L- /-Y24A- INTERSECTION

0.020 10.754:1 11.892:1 0.020 4.28:1

295.46

293.51

800+50.00

0.020 17.085:1 23.049:1 0.020 4.16:1

3:1 292.20 4:1

295.98

292.95

800+00.00

0.020 14.244:1 17.698:1 0.020 4.54:1

3:1 291.96 4:1

295.83

293.07

799+50.00

0.020 12.653:1 15.368:1 0.020 4.41:1

3:1 291.71 4:1

295.68

293.59

799+00.00

—L—

150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

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8/28/2024
R:\Roadway\CorridorModeling\R5709C\XPL\Section 2\R-5709C_Rdy_XPL_L2.dgn
jcrocker

0 5 10

PROJ. REFERENCE NO.	SHEET NO.
R-5709C	X-215

150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

300 290 280

6:1 6:1 0.020 6:1 6:1 0.020 6:1

289.47 290.56

804+50.00

300 290 280

6:1 6:1 0.020 5.998:1 6:1 0.020 6:1

290.05 291.13

804+00.00

300 290 280

6:1 6:1 0.020 6.011:1 6.011:1 0.020 6:1

290.60 291.70

292.50

803+50.00

300 290 280

6:1 6:1 0.020 7.132:1 7.102:1 0.020 6:1

291.09 292.63

293.16

803+00.00

300 290 280

6:1 6:1 0.020 8.309:1 8.309:1 0.020 6:1

291.51 293.39

293.14

802+50.00

300 290 280

6:1 6:1 0.020 9.080:1 9.080:1 0.020 6:1

291.86 293.91

293.11

802+00.00

—℄—

150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

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jcrocker

0 5 10	PROJ. REFERENCE NO.	SHEET NO.
	R-5709C	X-216

150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

300 / 290 / 280

13.93:1 0.020 0.020 6:1 6:1 0.020 4:1 3:1 3:1

287.49 282.60

284.86

807+50.00

10.04:1 0.020 0.020 6:1 6:1 0.020 4:1 3:1 3:1

287.88 282.75

284.87

807+00.00

5.69:1 0.020 0.020 6:1 6:1 0.020 4:1 3:1 3:1

288.34 282.90

287.46

806+50.00

6:1 0.020 0.020 6:1 6:1 0.020 5:1

288.85

287.88

806+00.00

6:1 6:1 0.020 6:1 6:1 0.020 6:1

288.33 289.42

289.94

805+50.00

6:1 6:1 0.020 6:1 6:1 0.020 6:1

288.90 289.99

805+00.00

—℄—

150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

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8/28/2024
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jcrocker

6/23/16

0 5 10	PROJ. REFERENCE NO.	SHEET NO.
	R-5709C	X-217

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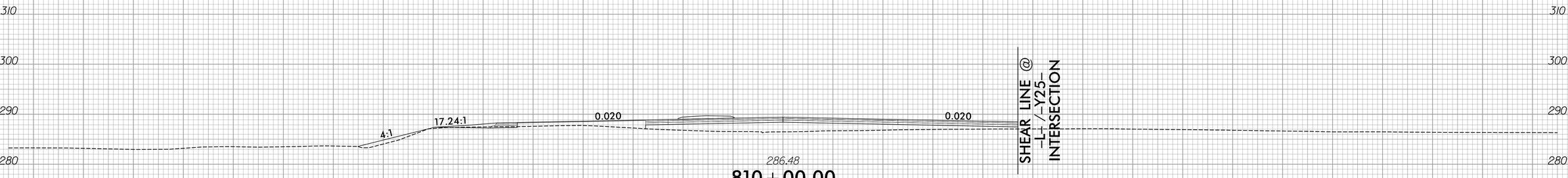
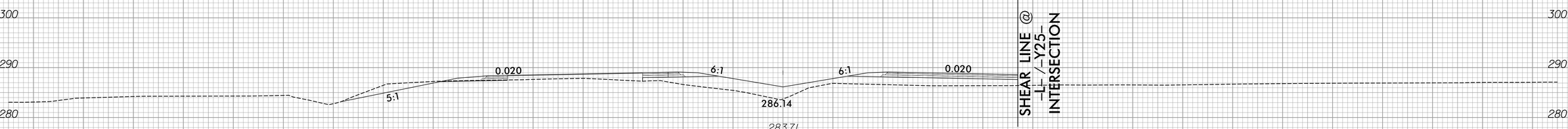
310 300 290 280 270



286.48

810 + 00.00



283.71

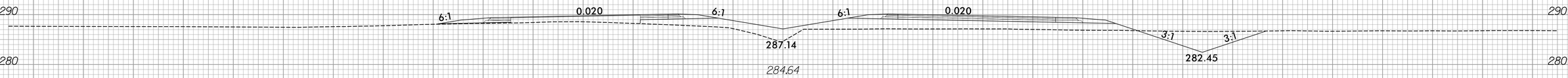
809 + 50.00

283.96

809 + 00.00

284.69

808 + 50.00



284.64

808 + 00.00

—L—

150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

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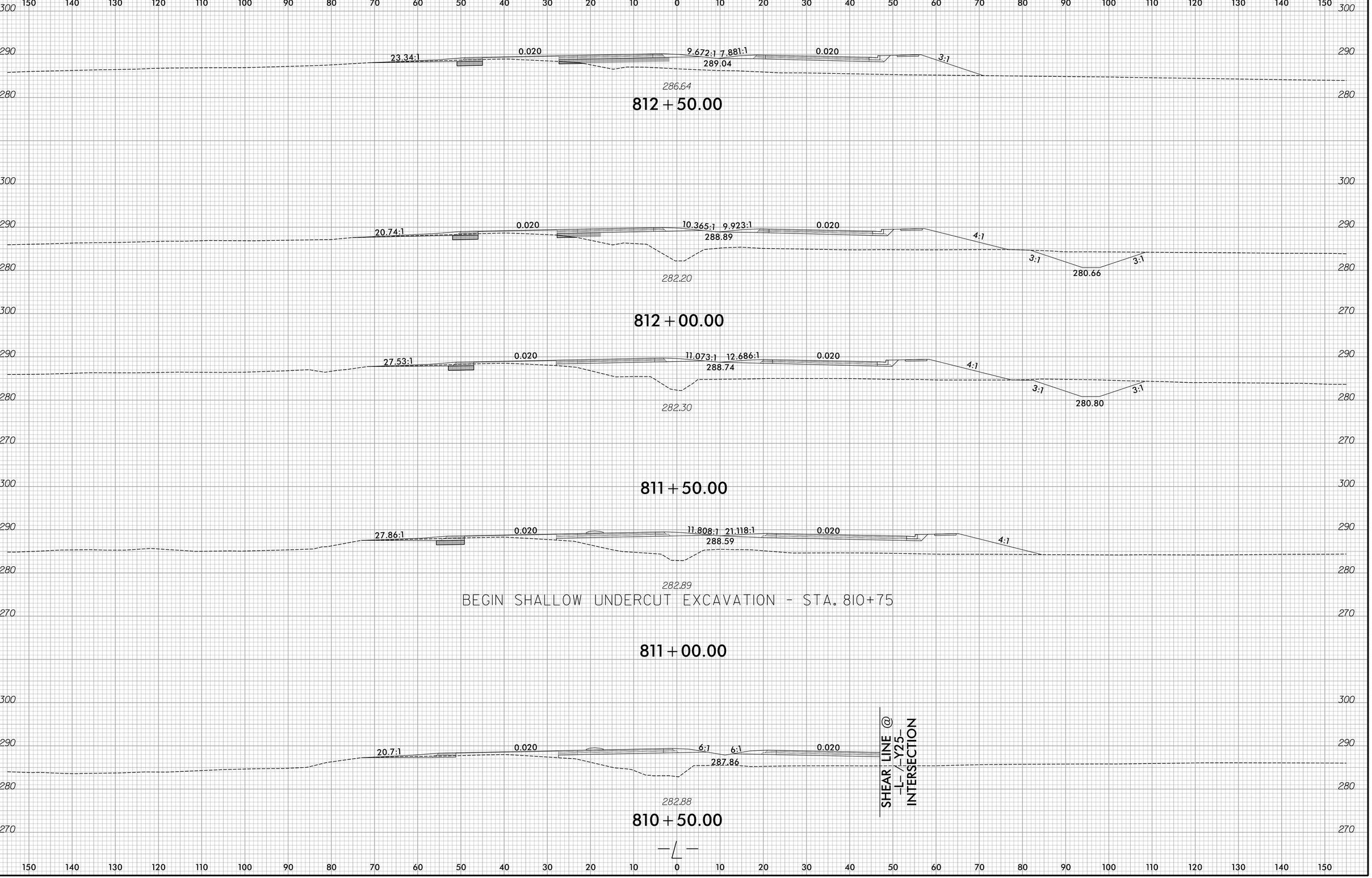
jcrocker

6/23/16

0 5 10	PROJ. REFERENCE NO.	SHEET NO.
	R-5709C	X-218



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jcrocker

6/23/16

0 5 10	PROJ. REFERENCE NO.	SHEET NO.
	R-5709C	X-219

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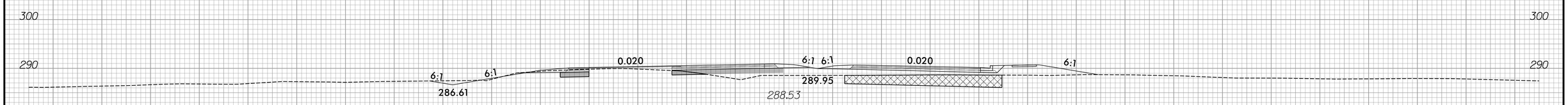
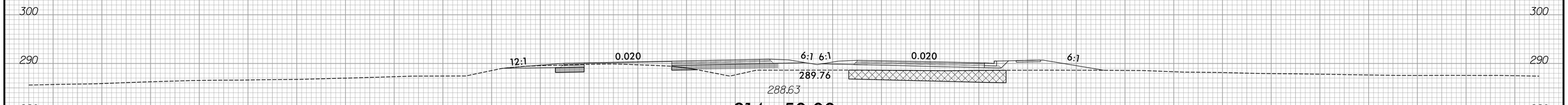
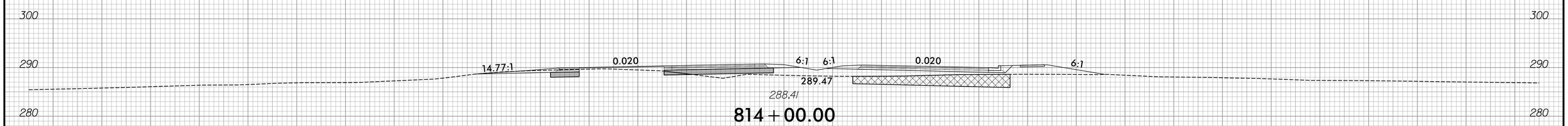


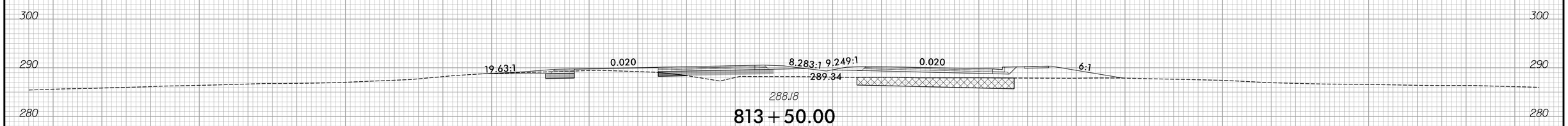
815+00.00



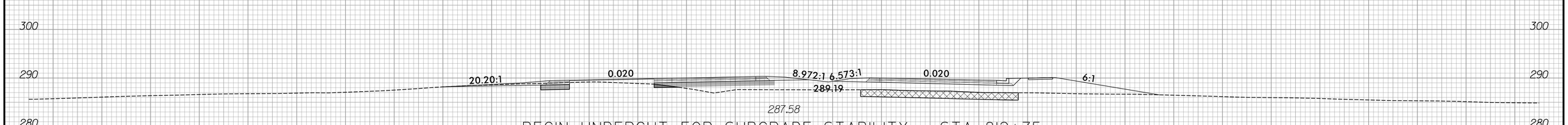
814+50.00



814+00.00



813+50.00



BEGIN UNDERCUT FOR SUBGRADE STABILITY - STA. 812+75

813+00.00

150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

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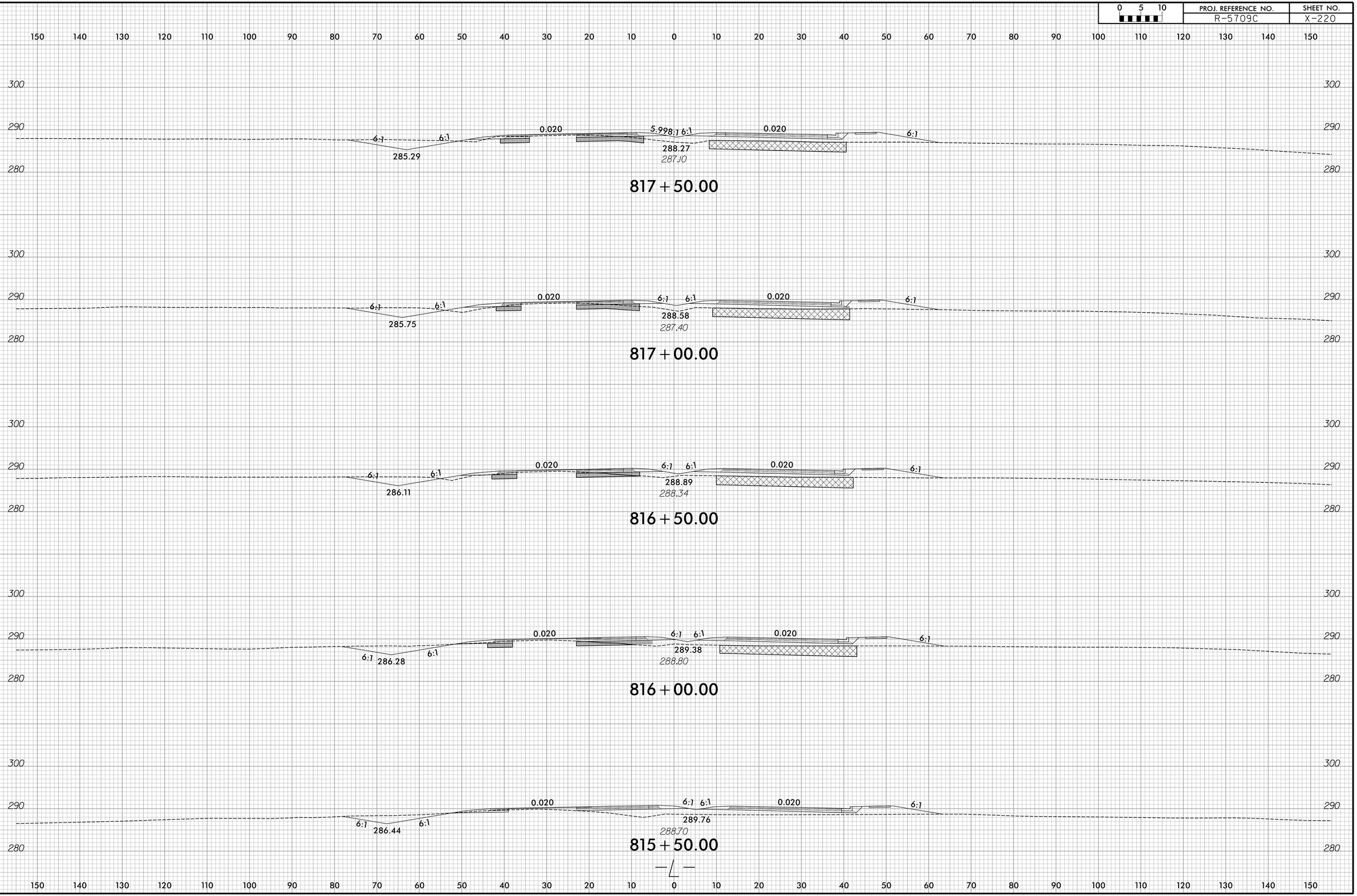
jcrocker

0 5 10	PROJ. REFERENCE NO.	SHEET NO.
	R-5709C	X-220



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8/28/2024
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jcrocker

6/23/16

0 5 10	PROJ. REFERENCE NO.	SHEET NO.
	R-5709C	X-221

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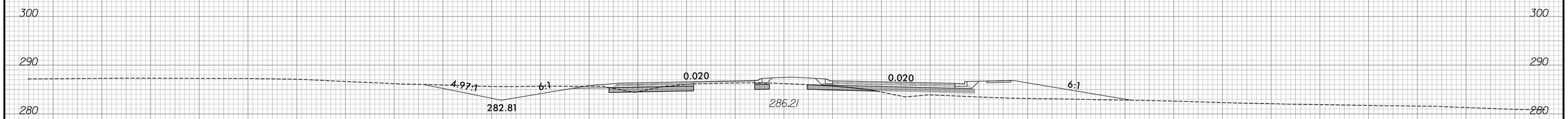
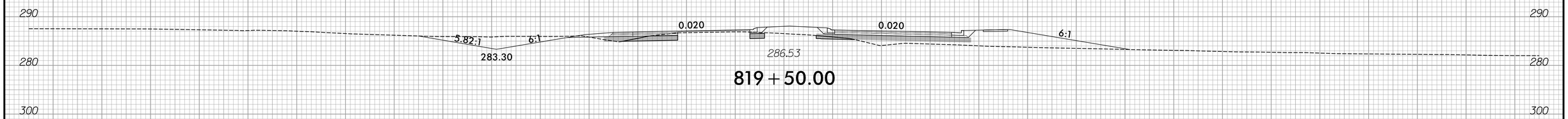
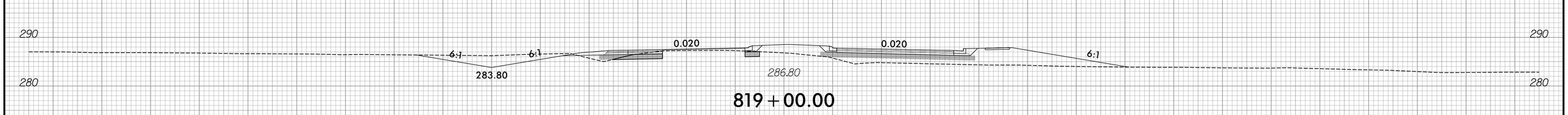


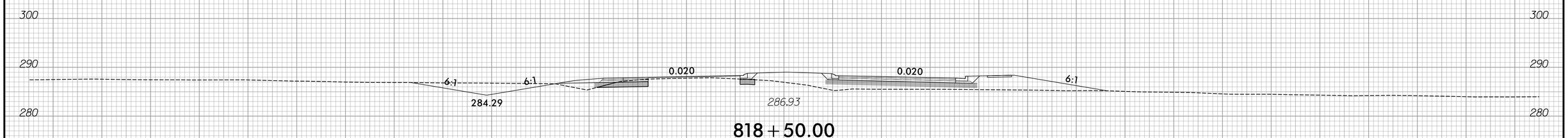
820+00.00



819+50.00

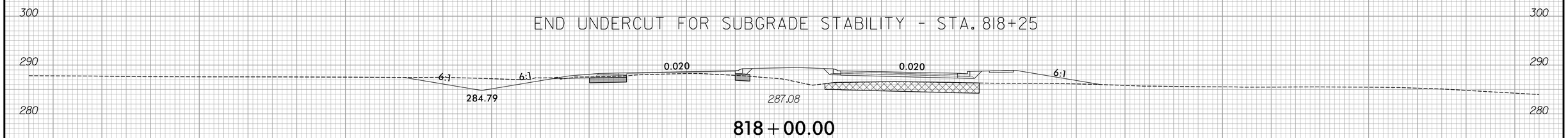


819+00.00



818+50.00

END UNDERCUT FOR SUBGRADE STABILITY - STA. 818+25



818+00.00

150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

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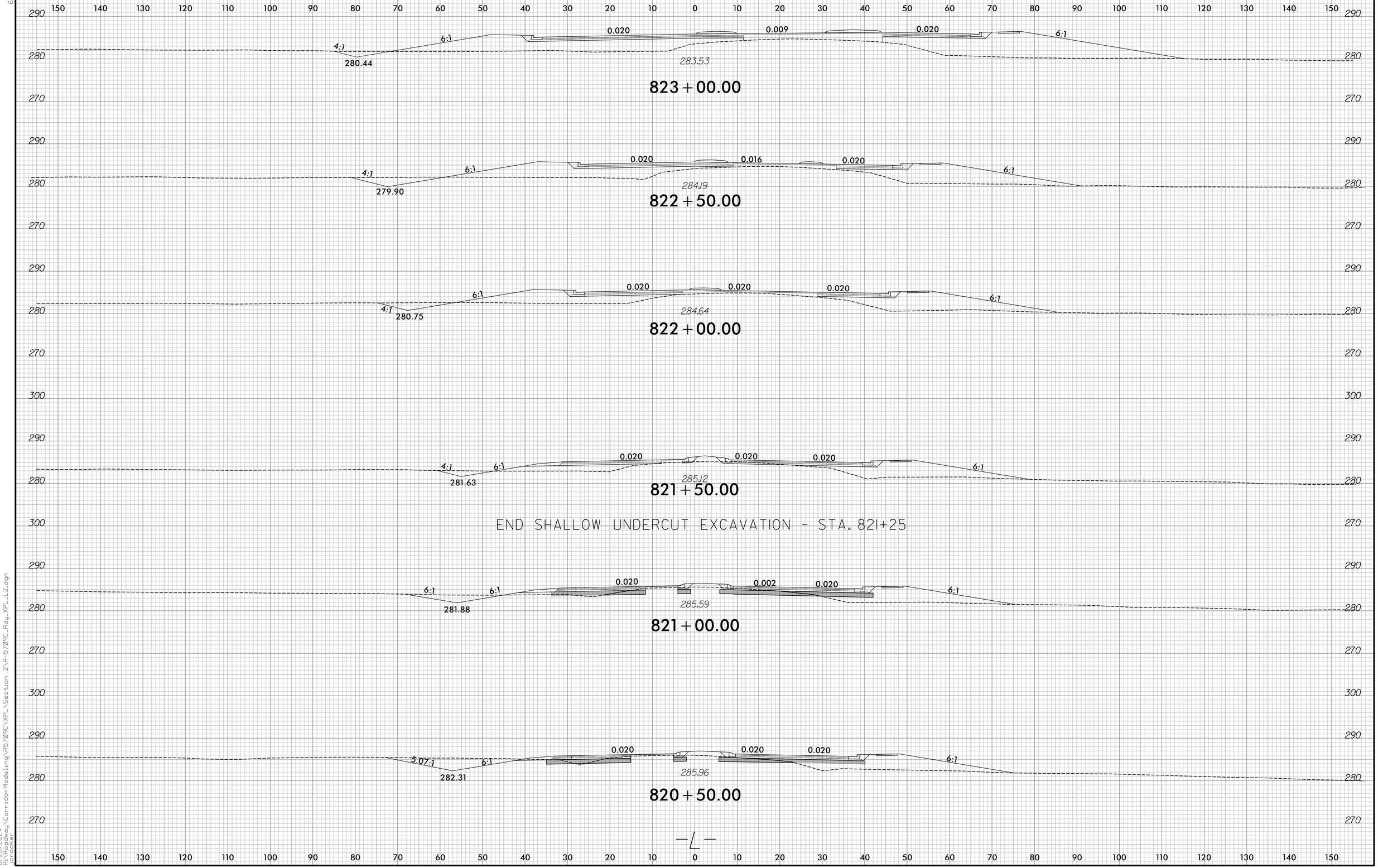
jcrocker



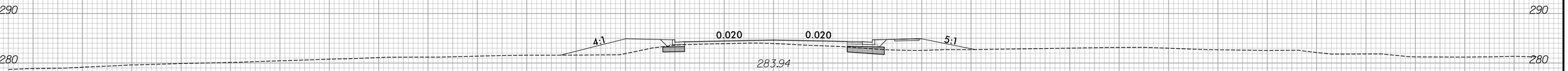
6/23/16

8/28/2024
R:\Roadway\CorridorModeling\R5709C\XPL\Section 2\R-5709C_Rdy_XPL_L2.dgn
jcrocker

0 5 10	PROJ. REFERENCE NO.	SHEET NO.
	R-5709C	X-223

150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

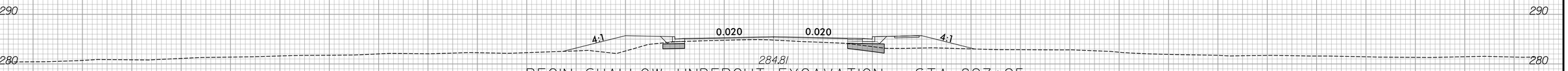
290 / 280 / 270



283.94

828+00.00

290 / 280 / 270

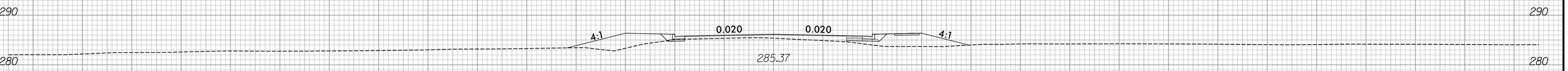


284.81

BEGIN SHALLOW UNDERCUT EXCAVATION - STA. 827+25

827+50.00

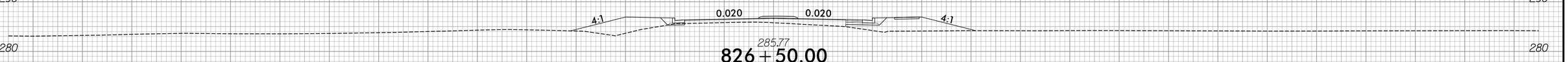
290 / 280 / 270



285.37

827+00.00

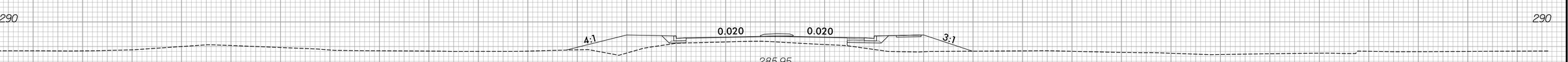
290 / 280 / 270



285.77

826+50.00

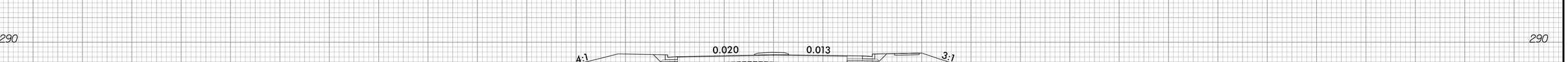
290 / 280 / 270



285.95

826+00.00

300 / 290 / 280



285.92

825+50.00

-L2B-

150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

6/23/16

0 5 10	PROJ. REFERENCE NO.	SHEET NO.
	R-5709C	X-224

150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

290 / 280 / 270

4:1 0.020 0.020 6:1

278.63

831+00.00

290 / 280 / 270

4:1 0.020 0.020 6:1

279.37

830+50.00

END SHALLOW UNDERCUT EXCAVATION - STA. 830+25

290 / 280 / 270

4:1 0.020 0.020 6:1

280.26

830+00.00

290 / 280 / 270

4:1 0.020 0.020 6:1

281.18

829+50.00

290 / 280 / 270

4:1 0.020 0.020 6:1

282.09

829+00.00

290 / 280 / 270

4:1 0.020 0.020 6:1

283.02

828+50.00

-L2B-

150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

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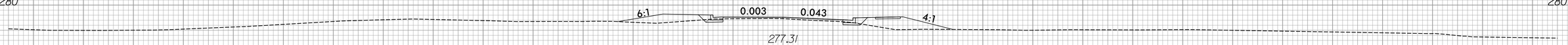
0 5 10	PROJ. REFERENCE NO.	SHEET NO.
	R-5709C	X-225

150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

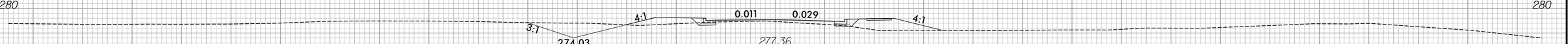
290 280 270



277.31

834+50.00

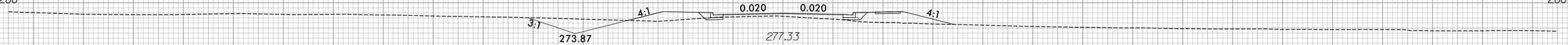
290 280 270



277.36

834+00.00

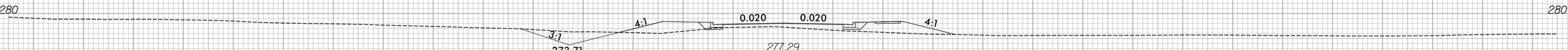
290 280 270



277.33

833+50.00

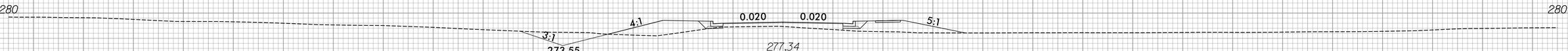
290 280 270



277.29

833+00.00

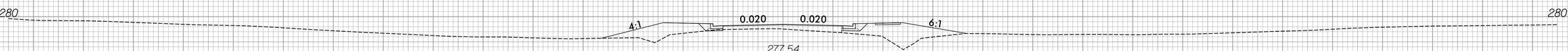
290 280 270



277.34

832+50.00

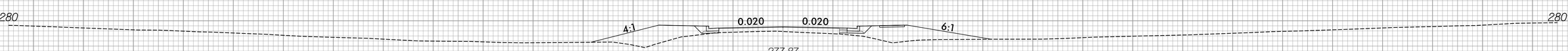
290 280 270



277.54

832+00.00

290 280 270



277.87

831+50.00

-L2B-

150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

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0 5 10	PROJ. REFERENCE NO.	SHEET NO.
	R-5709C	X-226

END TIP PROJECT R-5709C
-L2B- STA. 835+30.00

280
270

277.17

835+50.00

277.20

835+00.00

-L2B-

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jcrocker

0 5 10	PROJ. REFERENCE NO.	SHEET NO.
	R-5709C	X-227

150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

300 290 280 270

SHEAR LINE @ -L2B- /-RAB_L2- INTERSECTION

0.020

284.54

12+50.00

SHEAR LINE @ -Y27- /-RAB_L2- INTERSECTION

0.020

284.37

12+00.00

SHEAR LINE @ -Y27+ /-RAB_L2- INTERSECTION

0.020

284.42

11+50.00

BEGIN UNDERCUT FOR SUBGRADE STABILITY - STA. 11+25

6:1

0.020

284.69

11+00.00

END UNDERCUT FOR SUBGRADE STABILITY - STA. 10+75

SHEAR LINE @ -L2B- /-RAB_L2- INTERSECTION

0.020

285.17

10+50.00

6:1 6:1

0.020

282.78 284.14

BEGIN UNDERCUT FOR SUBGRADE STABILITY - STA. 10+00

10+00.00

-RAB_L2-

6/23/16

0 5 10	PROJ. REFERENCE NO.	SHEET NO.
	R-5709C	X-228

150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

300 290 280 270

END UNDERCUT FOR SUBGRADE STABILITY - STA. 14+02

6:1

0.020

284.13

14+00.00

SHEAR LINE @ -Y26- Y -RAB L2- INTERSECTION

0.020

283.04

13+50.00

SHEAR LINE @ -Y26- Y -RAB L2- INTERSECTION

0.020

283.99

13+00.00

-RAB_L2-

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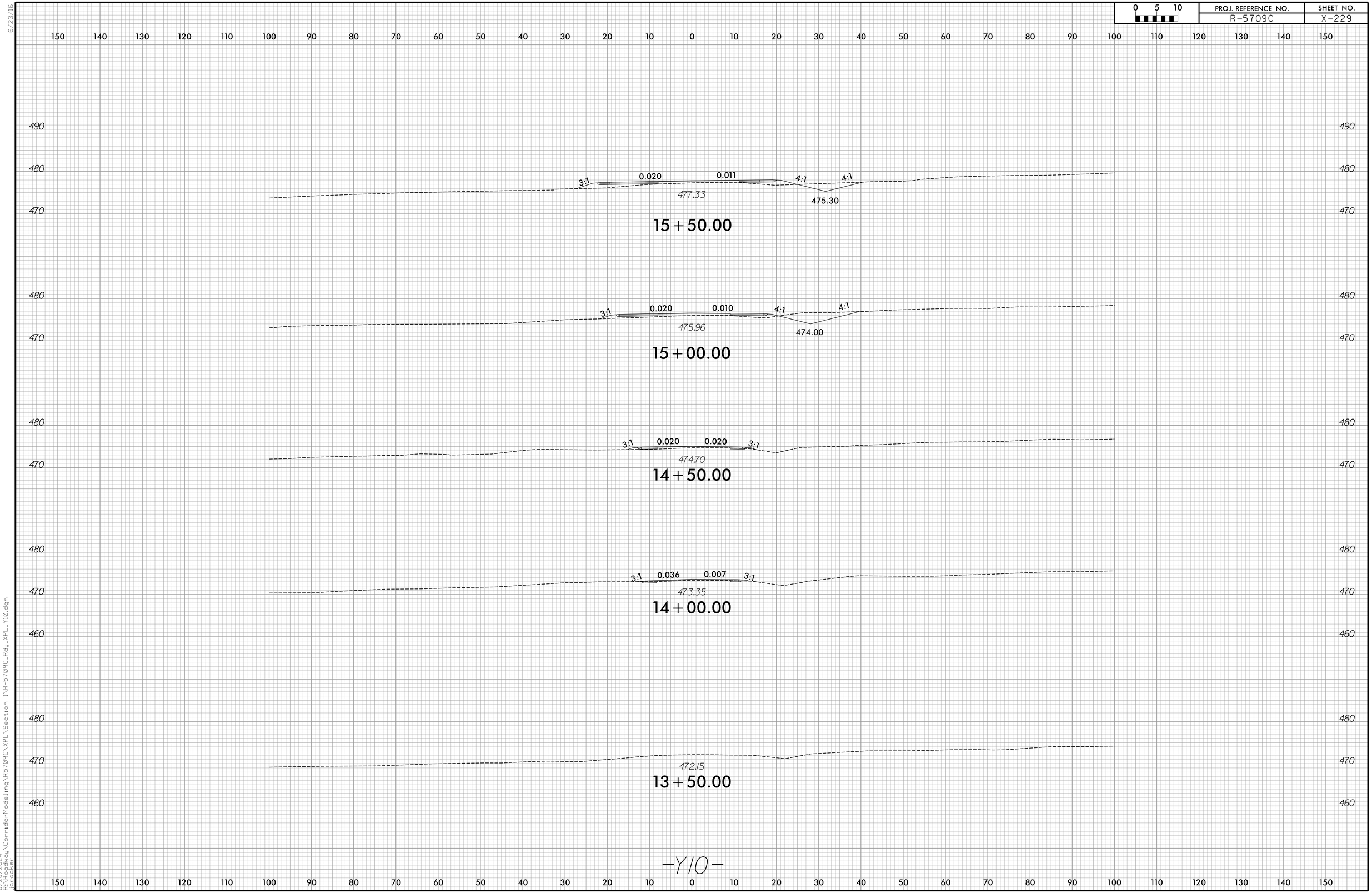
0 5 10	PROJ. REFERENCE NO.	SHEET NO.
	R-5709C	X-229



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jcrocker

0 5 10

PROJ. REFERENCE NO.	SHEET NO.
R-5709C	X-230

150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

490
480
470

3:1 0.027 0.027 3:1

478.91

17+50.00

490
480
470

478.86

17+00.00

490
480
470

478.92

16+50.00

490
480
470

3:1 0.030 0.030 3:1

478.42

16+00.00

490
480
470

150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

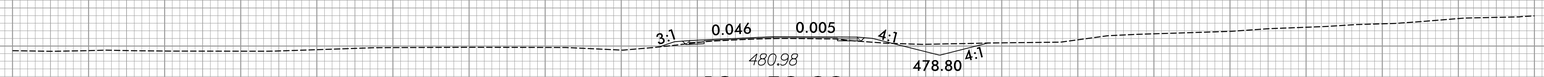
-Y10-

PROJ. REFERENCE NO.	SHEET NO.
R-5709C	X-231

0 5 10

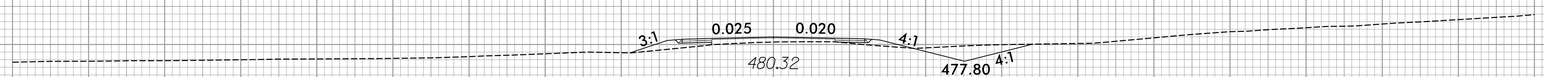
150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

490
480
470



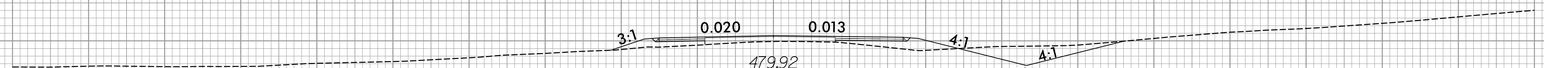
480.98

19+50.00



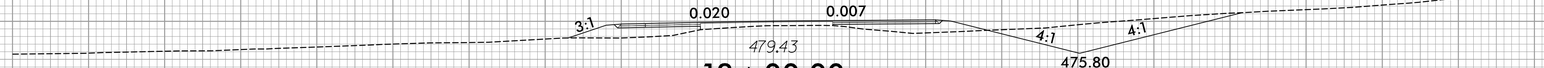
480.32

19+00.00



479.92

18+50.00



479.43

18+00.00

-Y10-

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R:\Roadway\CorridorModeling\R5709C\XPL\Section 1\R-5709C_Rdy_XPL_Y10.dgn
jcrocker

150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

500
490
510

3:1 0.040 0.056 3:1

496.50

12+00.00

500
490
510

3:1 0.031 0.031 3:1 3:1

495.43

491.00

11+50.00

500
490
510

3:1 0.020 0.020 4:1

495.09

11+00.00

500
490
510

3:1 0.018 0.018

494.59

SHEAR LINE @ INTERSECTION WITH –L2–

10+50.00

500
490

493.18

10+00.00

–Y11–

480

150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

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R:\Roadway\CorridorModeling\R5709C\XPL\Section 2\R-5709C_Rdy_XPL_Y11.dgn
jcrocker

6/23/16

0 5 10	PROJ. REFERENCE NO.	SHEET NO.
	R-5709C	X-233

150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

500 490 480

3:1 4:1 0.020 0.020 3:1

492.72

490.90

12+00.00

500 490 480

3:1 3:1 0.020 0.020 3:1

490.00

489.95

11+50.00

500 490 480 470

3:1 3:1 0.020 0.020 3:1

487.22

489.00

11+00.00

500 490 480 470

3:1 0.006 0.012

488.25

10+50.00

500 490 480 470

487.03

10+00.00

-Y11A-

150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

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R:\Roadway\CorridorModeling\R5709C\XPL\Section 2\R-5709C_Rdy_XPL_Y11A.dgn
jcrocker

6/23/16

0 5 10	PROJ. REFERENCE NO.	SHEET NO.
	R-5709C	X-234

150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

510 500 490 480

3:1 0.020 0.020 3:1

488.90

12+00.00

500 490 480

3:1 0.020 0.020 3:1

484.12

11+50.00

490 480 470 460

3:1 0.009 0.020 3:1

479.97

11+00.00

490 480 470 460

SHEAR LINE @ INTERSECTION WITH -L2-

0.015 0.017 3:1

478.70

10+50.00

490 480 470 460

476.09

10+00.00

-Y11B-

150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

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R:\Roadway\CorridorModeling\R5709C\XPL\Section 2\R-5709C_Rdy_XPL_Y11B.dgn
jcrocker

6/23/16

0 5 10	PROJ. REFERENCE NO.	SHEET NO.
	R-5709C	X-235

150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

520 510 500 490

503.62

13+50.00

510 500 490 480

3:1 0.010 0.020 3:1

498.88

13+00.00

510 500 490 480

3:1 0.020 0.020 3:1

493.84

12+50.00

-YIIB-

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R:\Roadway\CorridorModeling\R5709C\XPL\Section 2\R-5709C_Rdy_XPL_YIIB.dgn
jcrocker

0 5 10	PROJ. REFERENCE NO.	SHEET NO.
	R-5709C	X-236

150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

470
460
450

459.38

12+00.00

470
460
450

3:1 0.020 0.017 3:1

458.56

11+50.00

470
460
450

3:1 0.016 0.020 3:1 3:1 3:1

457.48

454.33

11+00.00

460
450

3:1 0.013 0.019 3:1

456.31

10+50.00

460
450

454.83

10+00.00

-Y11C-

440

150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

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R:\Roadway\CorridorModeling\R5709C\XPL\Section 2\R-5709C_Rdy_XPL_Y11C.dgn
jcrocker

0 5 10	PROJ. REFERENCE NO.	SHEET NO.
	R-5709C	X-237

150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

460 450 440 430

3:1 0.040 0.040 3:1

448.17

12+00.00

460 450 440 430

3:1 0.040 0.040 3:1

446.69

11+50.00

450 440 430

3:1 0.040 0.040 3:1

444.17

11+00.00

440 430

3:1 0.034 0.035 3:1

441.26

10+50.00

450 440 430

438.93

10+00.00

—Y11D—

150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

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jcrocker

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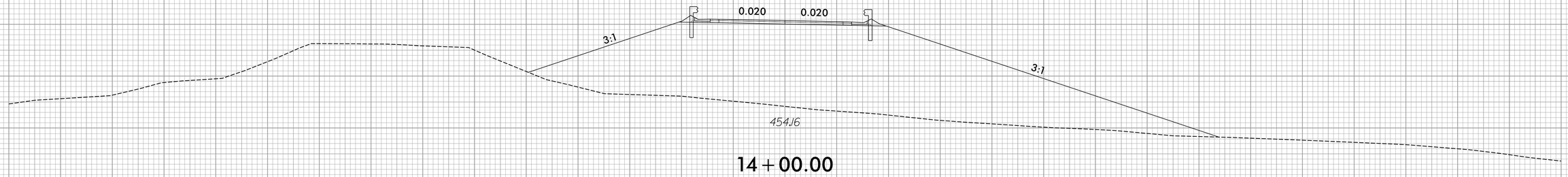
0 5 10	PROJ. REFERENCE NO.	SHEET NO.
	R-5709C	X-238

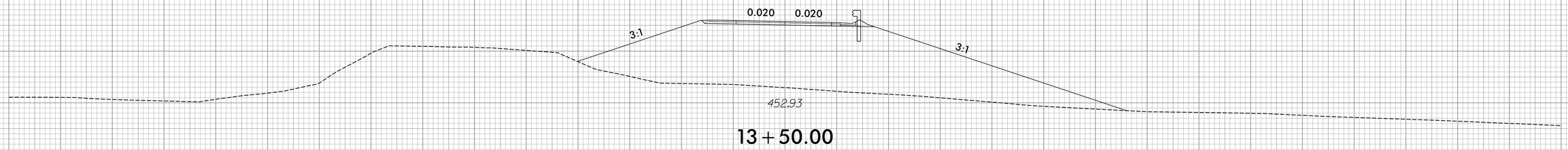
150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

480 470 460 450 440



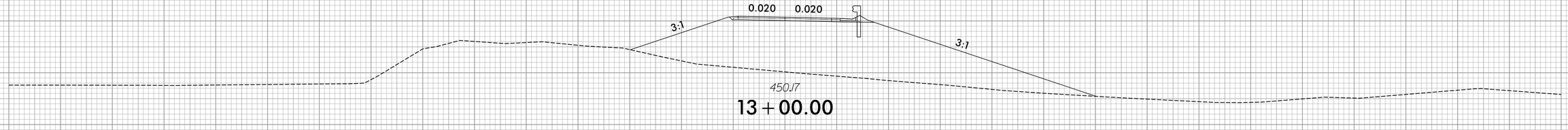
14+00.00

470 460 450 440



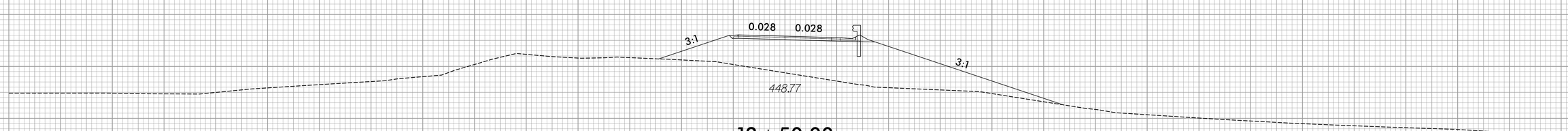
13+50.00

470 460 450 440



13+00.00

460 450 440



12+50.00

430

-YIID-

150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

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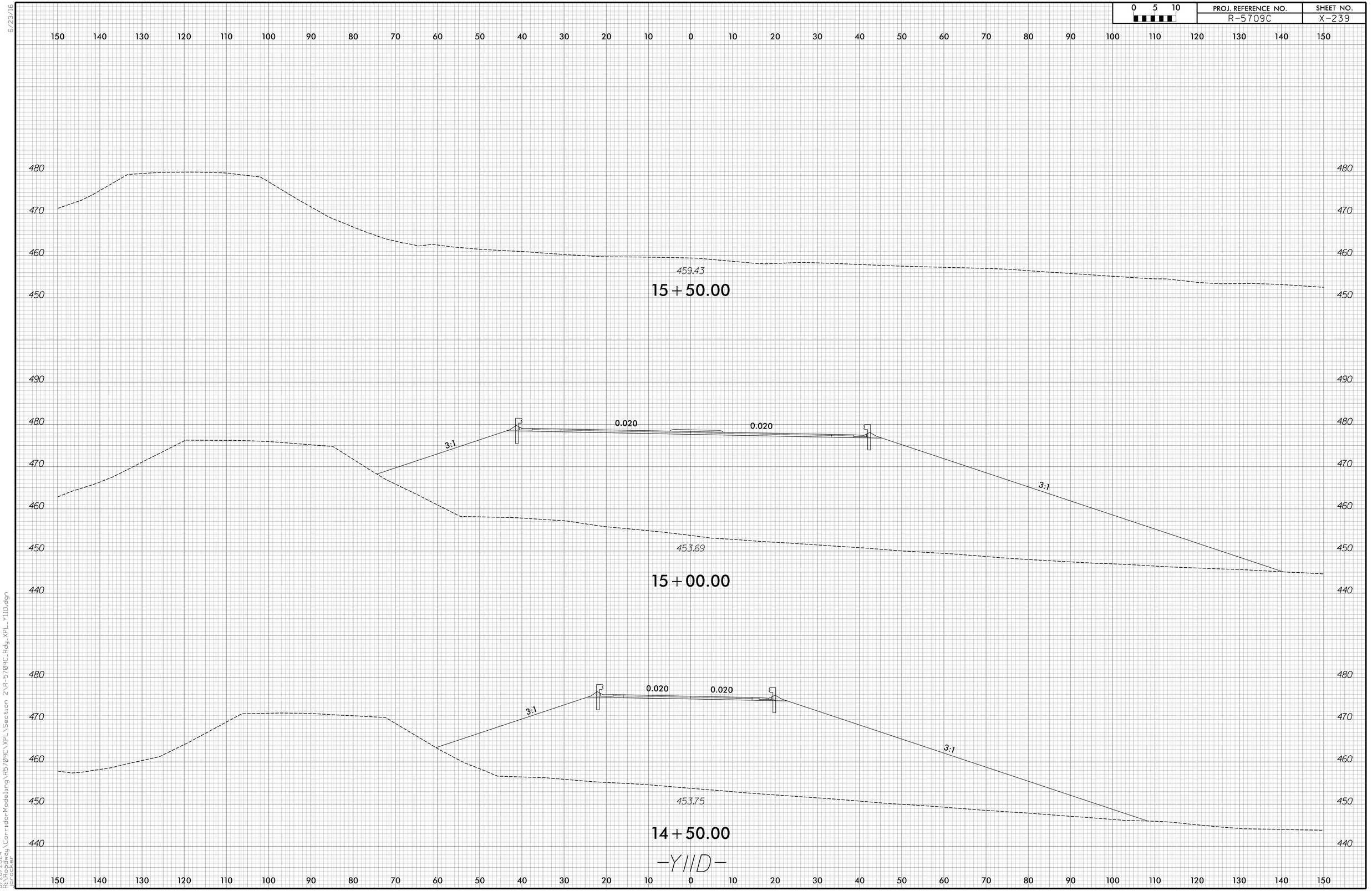
R:\Roadway\CorridorModeling\R5709C\XPL\Section 2\R-5709C_Rdy_XPL_YIID.dgn
jcrocker



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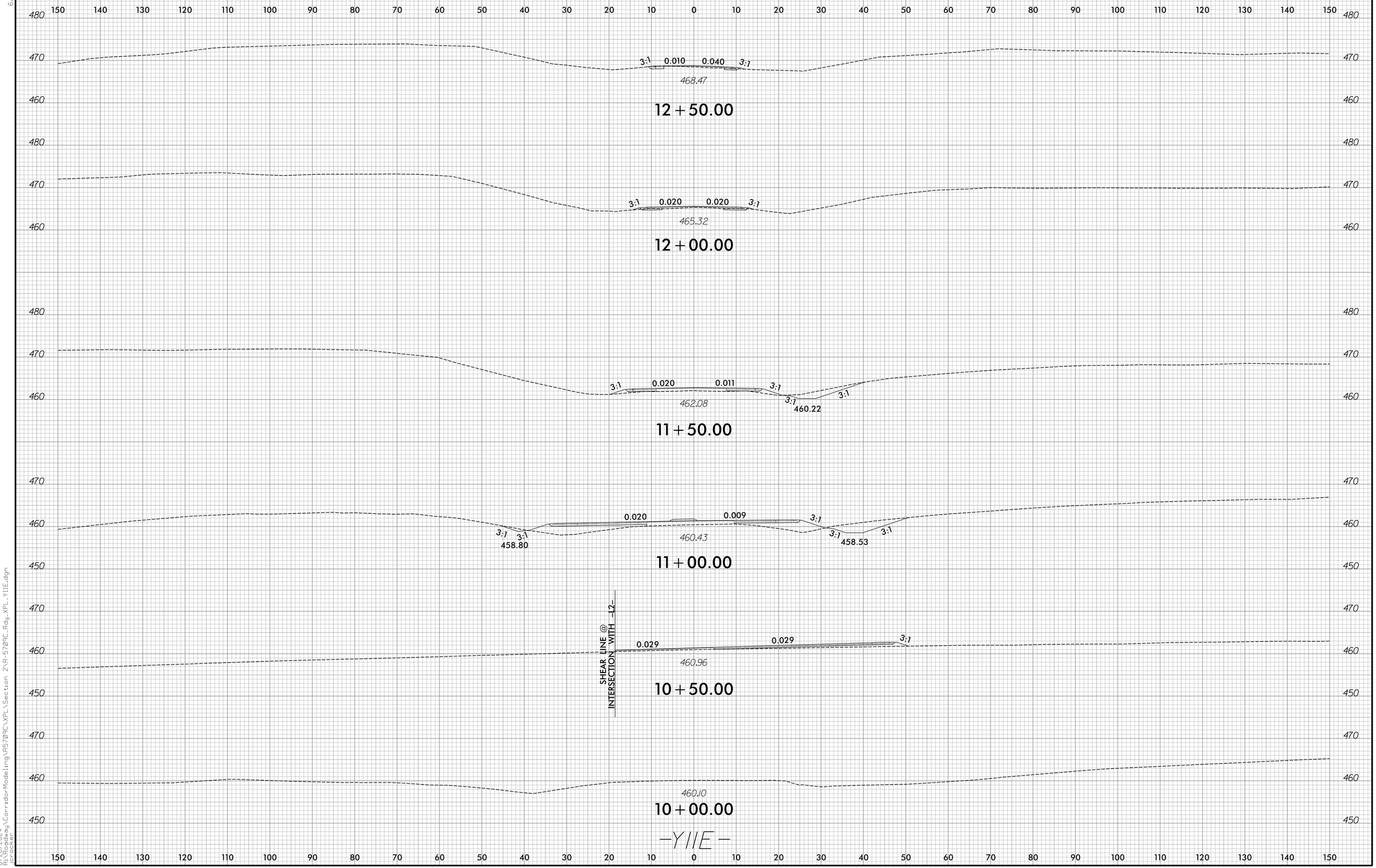
jcrocker

6/23/16

0 5 10	PROJ. REFERENCE NO.	SHEET NO.
	R-5709C	X-240



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jcrocker

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0 5 10	PROJ. REFERENCE NO.	SHEET NO.
	R-5709C	X-241

150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

500
490
480

492.62

12+50.00

500
490
480

3:1 0.043 0.046 3:1

491.72

12+00.00

500
490
480

3:1 0.040 0.040 3:1 3:1

490.87

11+50.00

470
490
480

3:1 0.040 0.040 3:1

489.92

11+00.00

470
490
480

489.02

10+50.00

-Y12-

150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

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R:\Roadway\CorridorModeling\R5709C\XPL\Section 2\R-5709C_Rdy_XPL_Y12.dgn
jcrocker

0 5 10	PROJ. REFERENCE NO.	SHEET NO.
	R-5709C	X-242

150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

480 470 460 490

475.48

13+00.00

476.25

12+50.00

3:1 0.059 0.010 3:1

476.77

12+00.00

3:1 0.040 0.020 3:1

477.35

11+50.00

3:1 0.020 0.020 3.46:1

11+00.00

SHEAR LINE @ INTERSECTION WITH -L2-

3:1 0.027 0.024

10+50.00

10+00.00

-Y12A-

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R:\Roadway\CorridorModeling\R5709C\XPL\Section 2\R-5709C_Rdy_XPL_Y12A.dgn
jcrocker

6/23/16

0 5 10	PROJ. REFERENCE NO.	SHEET NO.
	R-5709C	X-243

150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

490 480 470

3:1 0.020 0.020 3:1

485.21

17+00.00

490 480 470

3:1 0.005 0.010 3:1

484.04

16+50.00

490 480 470

483.14

16+00.00

490 480 470

481.39

15+50.00

490 480 470

479.91

15+00.00

490 480 470

478.98

14+50.00

490 480 470

477.46

14+00.00

490 480 470

475.89

13+50.00

-Y12A-

150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

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R:\Roadway\CorridorModeling\R5709C\XPL\Section 2\R-5709C_Rdy_XPL_Y12A.dgn
jcrocker

6/23/16

0 5 10	PROJ. REFERENCE NO.	SHEET NO.
	R-5709C	X-244

150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

490
480
500
490
480
470

488.02

18+00.00

3:1 0.017 0.017 3:1

486.39

17+50.00

-Y12A-

150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

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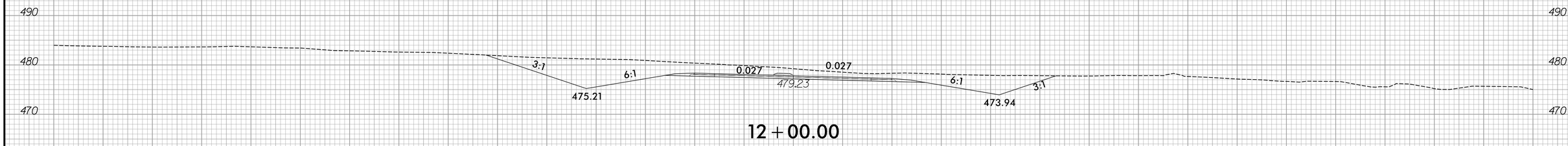
R:\Roadway\CorridorModeling\R5709C\XPL\Section 2\R-5709C_Rdy_XPL_Y12A.dgn
jcrocker

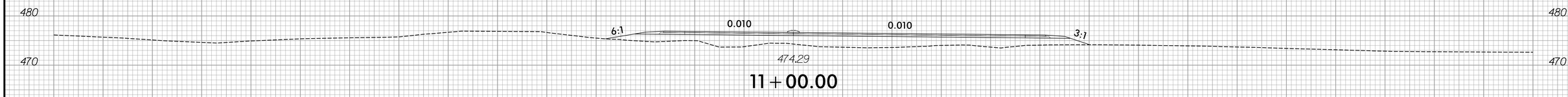
0 5 10	PROJ. REFERENCE NO.	SHEET NO.
	R-5709C	X-245

150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150



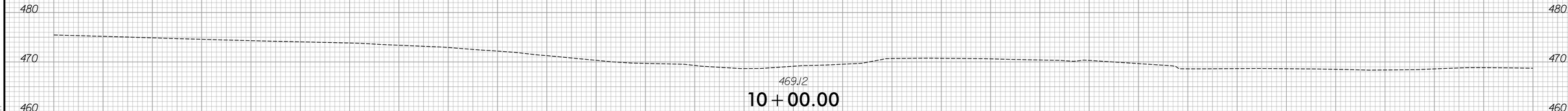
12+00.00

11+50.00



11+00.00

10+50.00



10+00.00

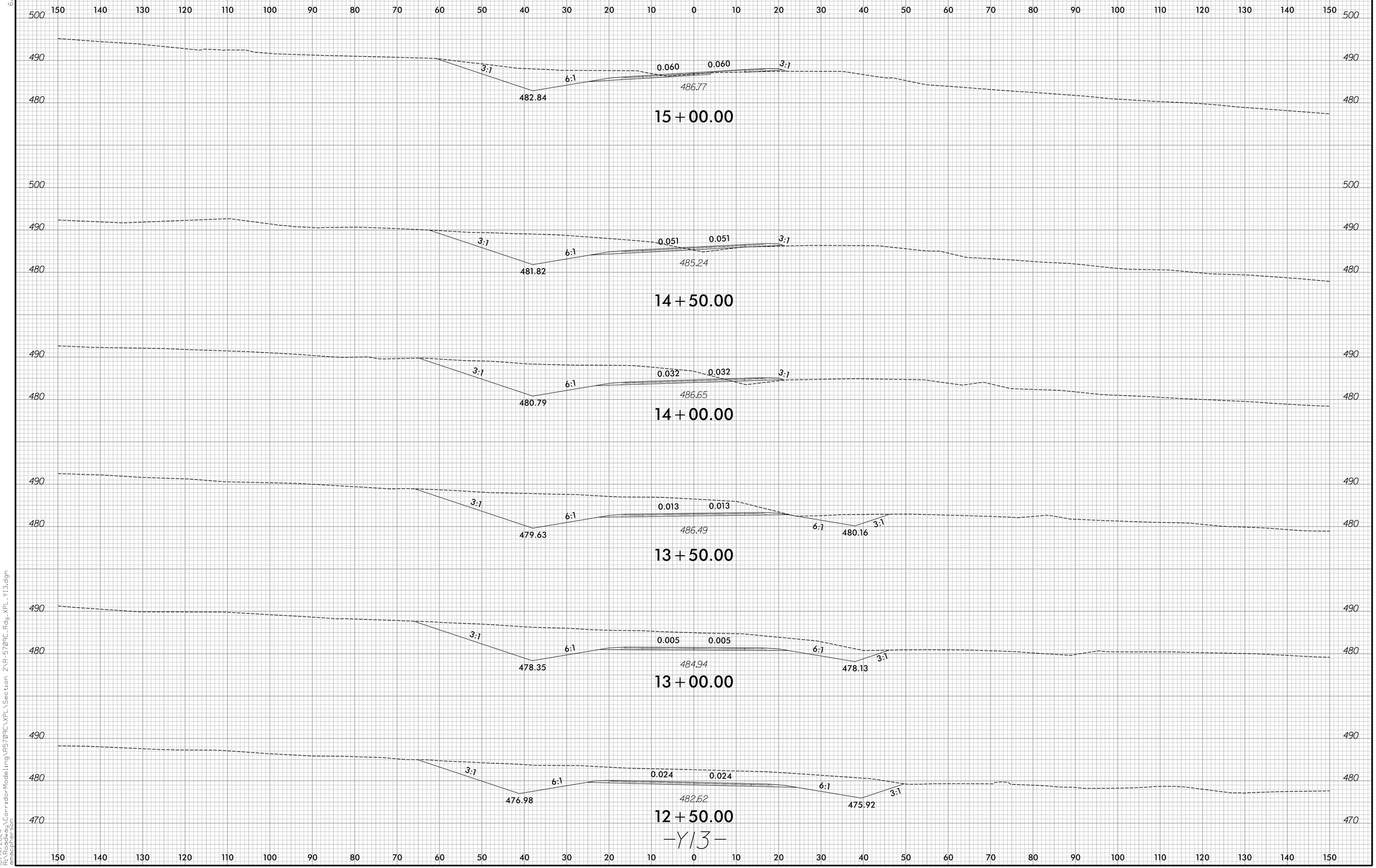
-Y13-

150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

10/14/2024
R:\Roadway\CorridorModeling\R5709C\XPL\Section 2\R-5709C_Rdy_XPL_Y13.dgn
amacpherson

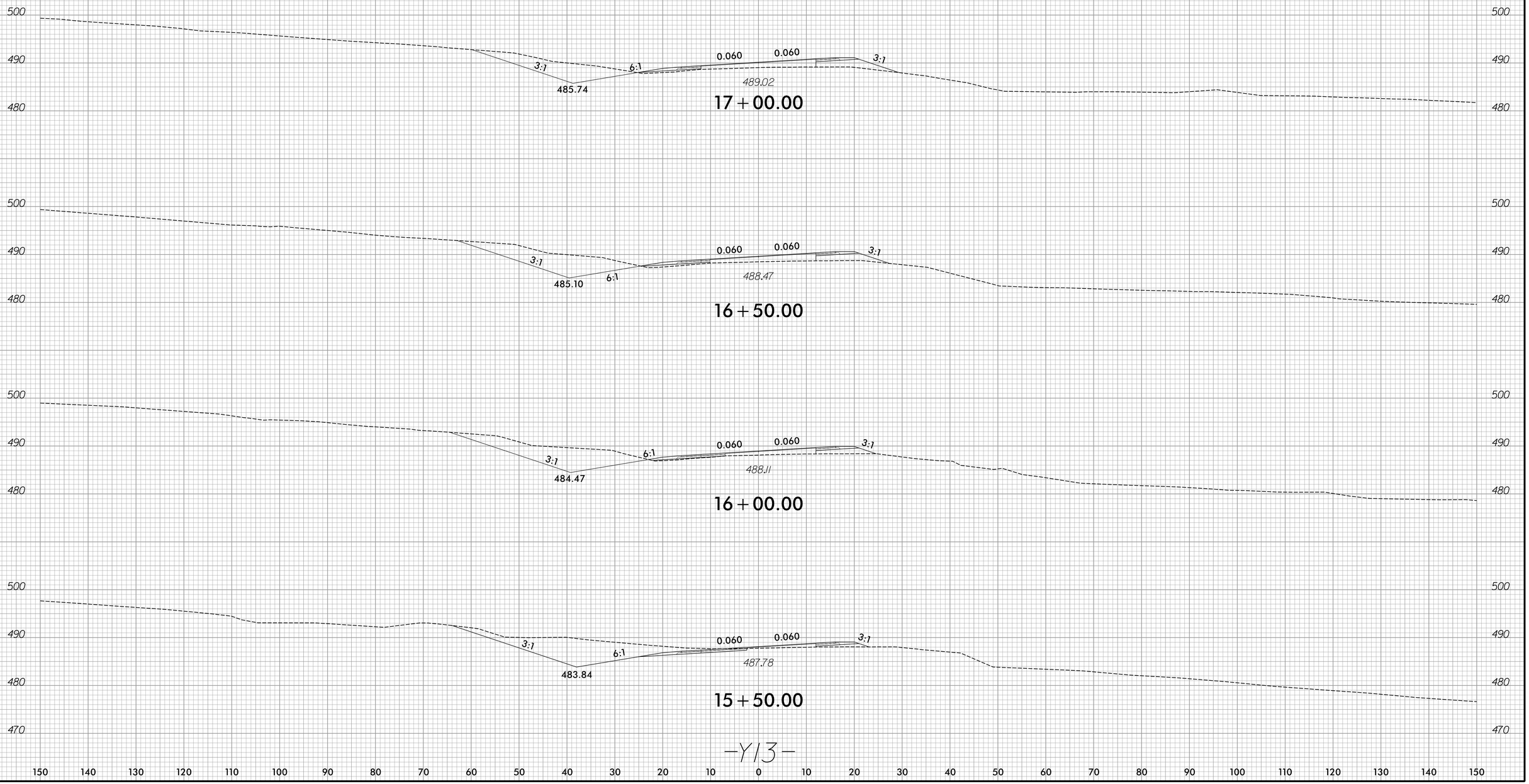
0 5 10

PROJ. REFERENCE NO.	SHEET NO.
R-5709C	X-246



0 5 10	PROJ. REFERENCE NO.	SHEET NO.
	R-5709C	X-247

150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150



-Y13-

150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

10/14/2024
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amacpherson

6/23/16

0 5 10	PROJ. REFERENCE NO.	SHEET NO.
	R-5709C	X-248

150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

510 500 490 480

491.03

19+00.00

500 490 480

0.057 0.037 3:1 3:1 6:1 488.18

490.55

18+50.00

500 490 480

0.060 0.056 3:1 6:1 3:1 487.00

490.53

18+00.00

500 490 480

0.060 0.060 3:1 6:1 3:1 486.37

489.53

17+50.00

-Y13-

150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

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R:\Roadway\CorridorModeling\R5709C\XPL\Section 2\R-5709C_Rdy_XPL_Y13.dgn
jcrocker

6/23/16

0 5 10	PROJ. REFERENCE NO.	SHEET NO.
	R-5709C	X-249

150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

470 460 450

3:1 3:1 0.020 0.020 3:1 3:1

459.48 456.98

461.09

13+00.00

3:1 3:1 0.020 0.020 3:1 3:1

458.51 456.77

460.35

12+50.00

3:1 3:1 0.020 0.020 3:1 3:1

457.55 456.56

459.49

12+00.00

3:1 3:1 0.001 0.031 3:1 3:1

456.58 456.35

458.58

11+50.00

3:1 3:1 EXIST. EXIST.

456.39

457.69

11+00.00

-Y14-

150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

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jcrocker

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0 5 10	PROJ. REFERENCE NO.	SHEET NO.
	R-5709C	X-250

150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

480 / 470 / 460

SHEAR LINE @ INTERSECTION WITH -L2-

0.005 0.005 3:1

467.17

15+50.00

480 / 470 / 460

3:1 0.017 0.017 3:1

465.47

15+00.00

470 / 460 / 450

3:1 462.38 0.020 0.008 3:1 3:1

464.01

14+50.00

470 / 460 / 450

3:1 461.41 0.020 0.017 3:1 3:1 457.40 3:1

462.85

14+00.00

470 / 460 / 450

3:1 460.45 0.020 0.020 3:1 3:1 457.19 3:1

461.92

13+50.00

-Y14-

150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

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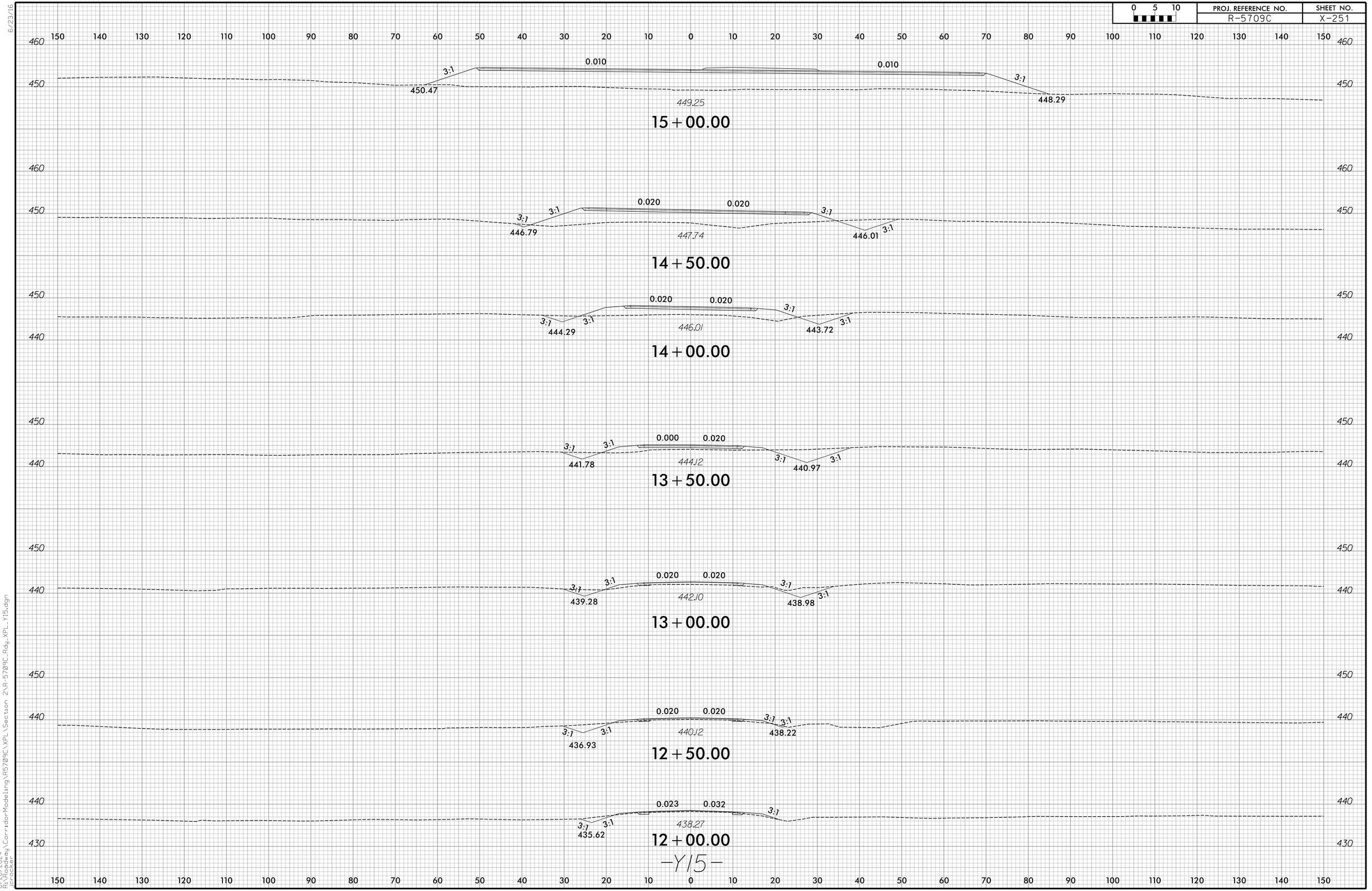
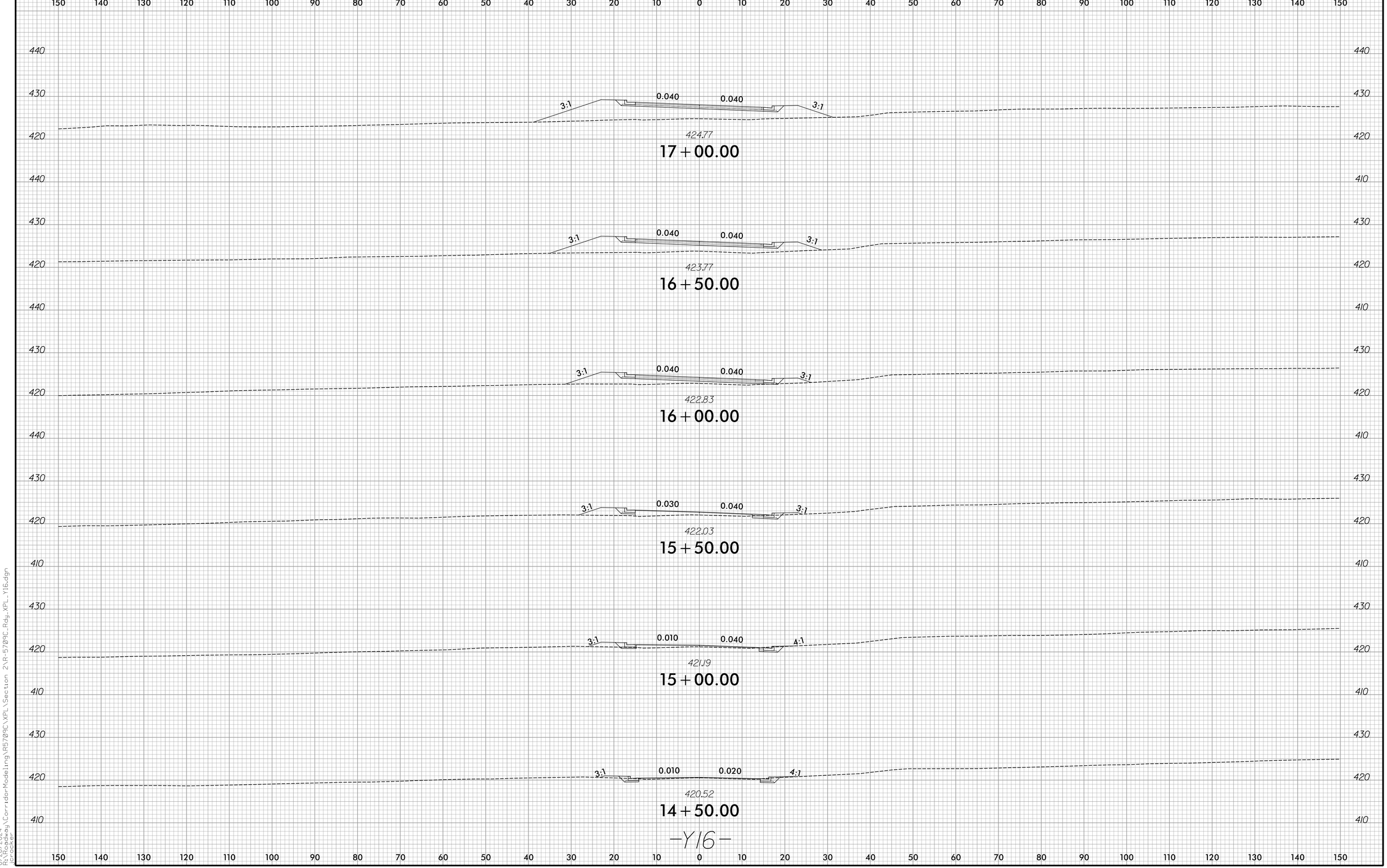
R:\Roadway\CorridorModeling\R5709C\XPL\Section 2\R-5709C_Rdy_XPL_Y14.dgn
jcrocker

0 5 10	PROJ. REFERENCE NO.	SHEET NO.
	R-5709C	X-251



0 5 10	PROJ. REFERENCE NO.	SHEET NO.
	R-5709C	X-252



-Y16-

6/23/16

0 5 10	PROJ. REFERENCE NO.	SHEET NO.
	R-5709C	X-253

150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

440 430 420 450 440 430 420 410 440 430 420 440 430 420

434.24

19 + 00.00

3:1 0.020 0.020

SHEAR LINE @ INTERSECTION WITH -L-

432.00

18 + 50.00

3:1 0.040 0.040 3:1

429.36

18 + 00.00

3:1 0.040 0.040 3:1

426.47

17 + 50.00

-Y16-

150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

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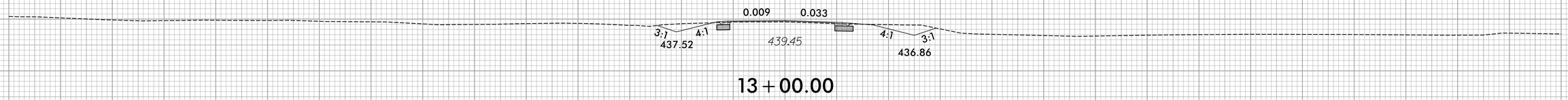
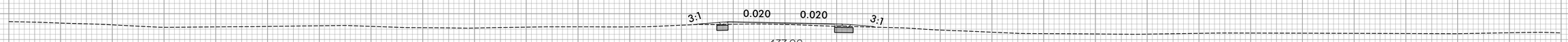
R:\Roadway\CorridorModeling\R5709C\XPL\Section 2\R-5709C_Rdy_XPL_Y16.dgn
jcrocker

0 5 10	PROJ. REFERENCE NO.	SHEET NO.
	R-5709C	X-254

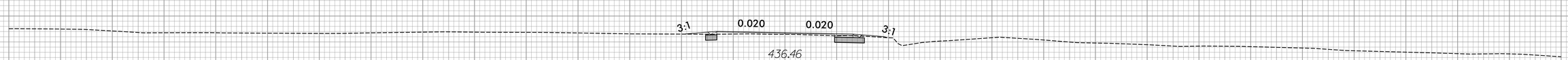
END SHALLOW UNDERCUT EXCAVATION STA. 13+25



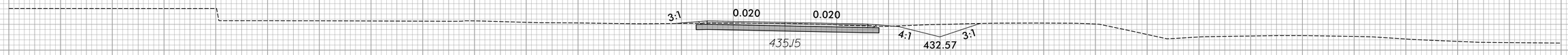
13+00.00



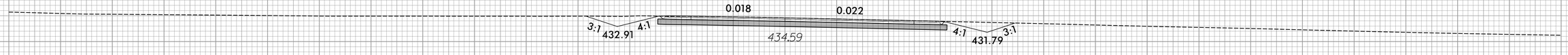
12+50.00



12+00.00

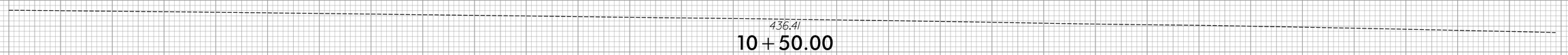


11+50.00



BEGIN SHALLOW UNDERCUT EXCAVATION STA. 10+75

11+00.00



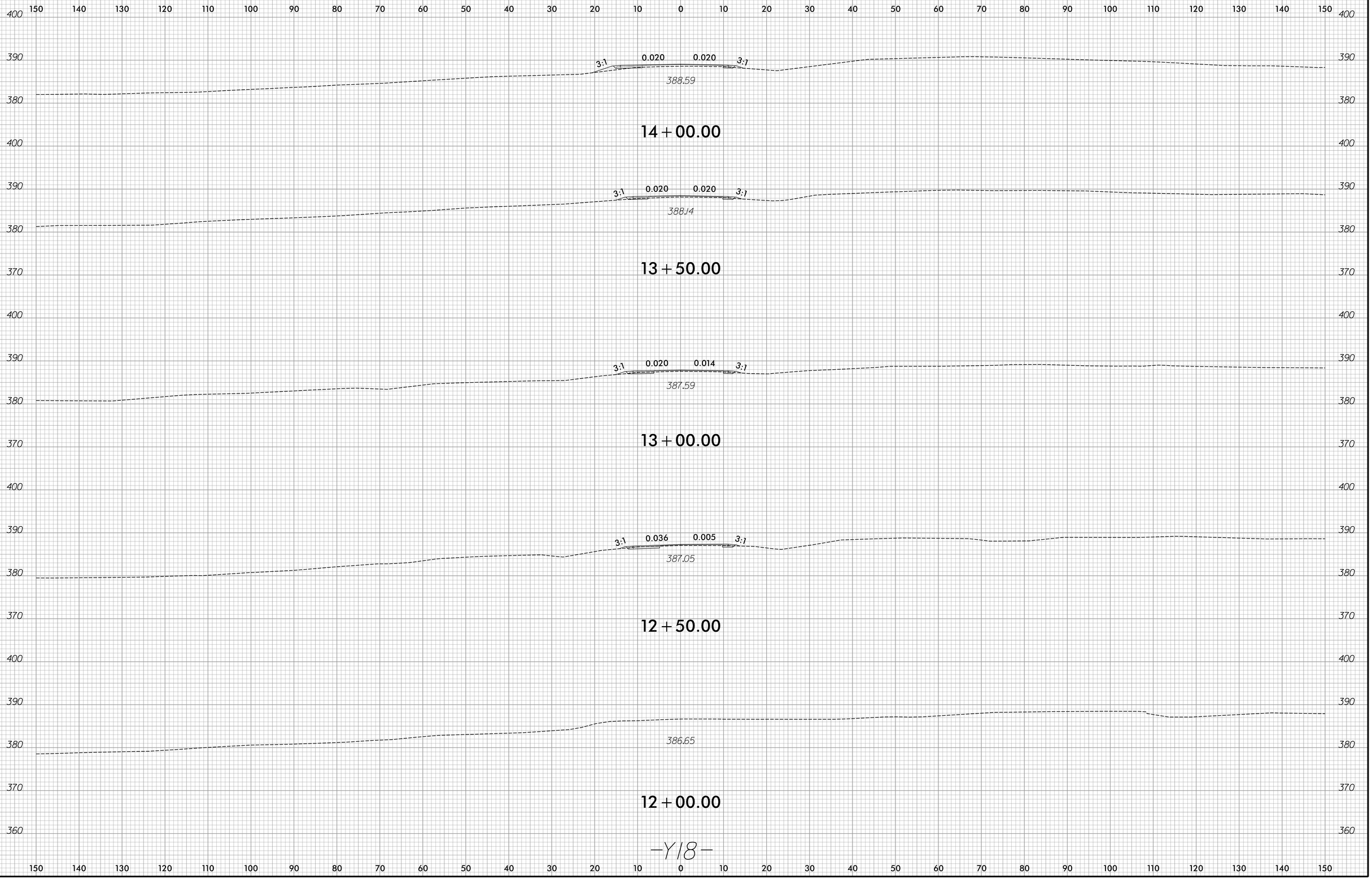
10+50.00

-Y17-

6/23/16
8/28/2024
R:\Roadway\CorridorModeling\R5709C\XPL\Section 2\R-5709C_Rdy_XPL_Y17.dgn
jcrocker

6/23/16

0 5 10	PROJ. REFERENCE NO.	SHEET NO.
	R-5709C	X-255



8/28/2024
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jcrocker

6/23/16

0 5 10	PROJ. REFERENCE NO.	SHEET NO.
	R-5709C	X-256

150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

400
390
380
400
390
380
370
390
380
370

389.94

15+50.00

SHEAR LINE @ INTERSECTION WITH –Y9B–

0.014 0.004 4:1 3:1

389.37

15+00.00

3:1 0.020 0.020 3:1

388.95

14+50.00

–Y18–

150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

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R:\Roadway\CorridorModeling\R5709C\XPL\Section 2\R-5709C_Rdy_XPL_Y18.dgn
jcrocker

6/23/16

0 5 10	PROJ. REFERENCE NO.	SHEET NO.
	R-5709C	X-257

150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

400
390
380
370

3:1 0.020 0.011 3:1 3:1

381.38

384.01

12+00.00

400
390
380
370

3:1 0.020 0.019 3:1 3:1

381.20

384.07

11+50.00

400
390
380
370

3:1 0.026 0.021 4:1 3:1

381.76

384.24

11+00.00

400
390
380
370

384.40

10+50.00

-Y19-

150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

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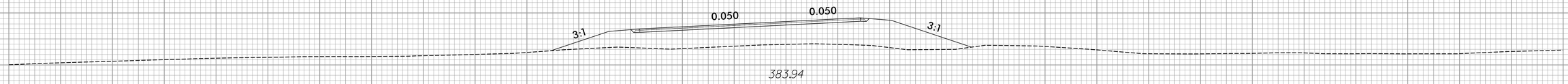
R:\Roadway\CorridorModeling\R5709C\XPL\Section 2\R-5709C_Rdy_XPL_Y19.dgn
jcrocker

6/23/16

0 5 10	PROJ. REFERENCE NO.	SHEET NO.
	R-5709C	X-258

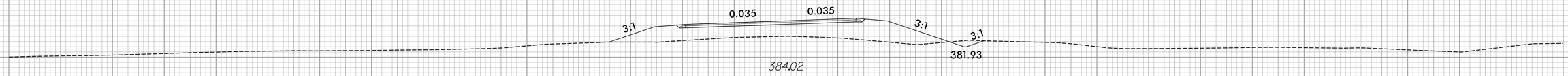
150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

400 390 380 370



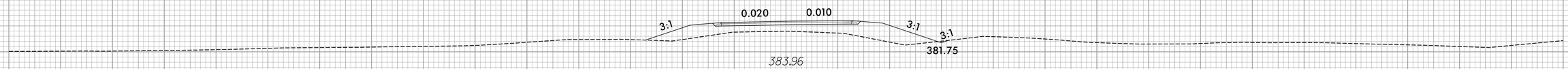
14+00.00

400 390 380 370



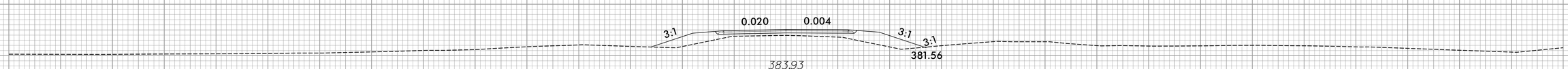
13+50.00

400 390 380 370



13+00.00

360 390 380 370



12+50.00

360

-Y19-

150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

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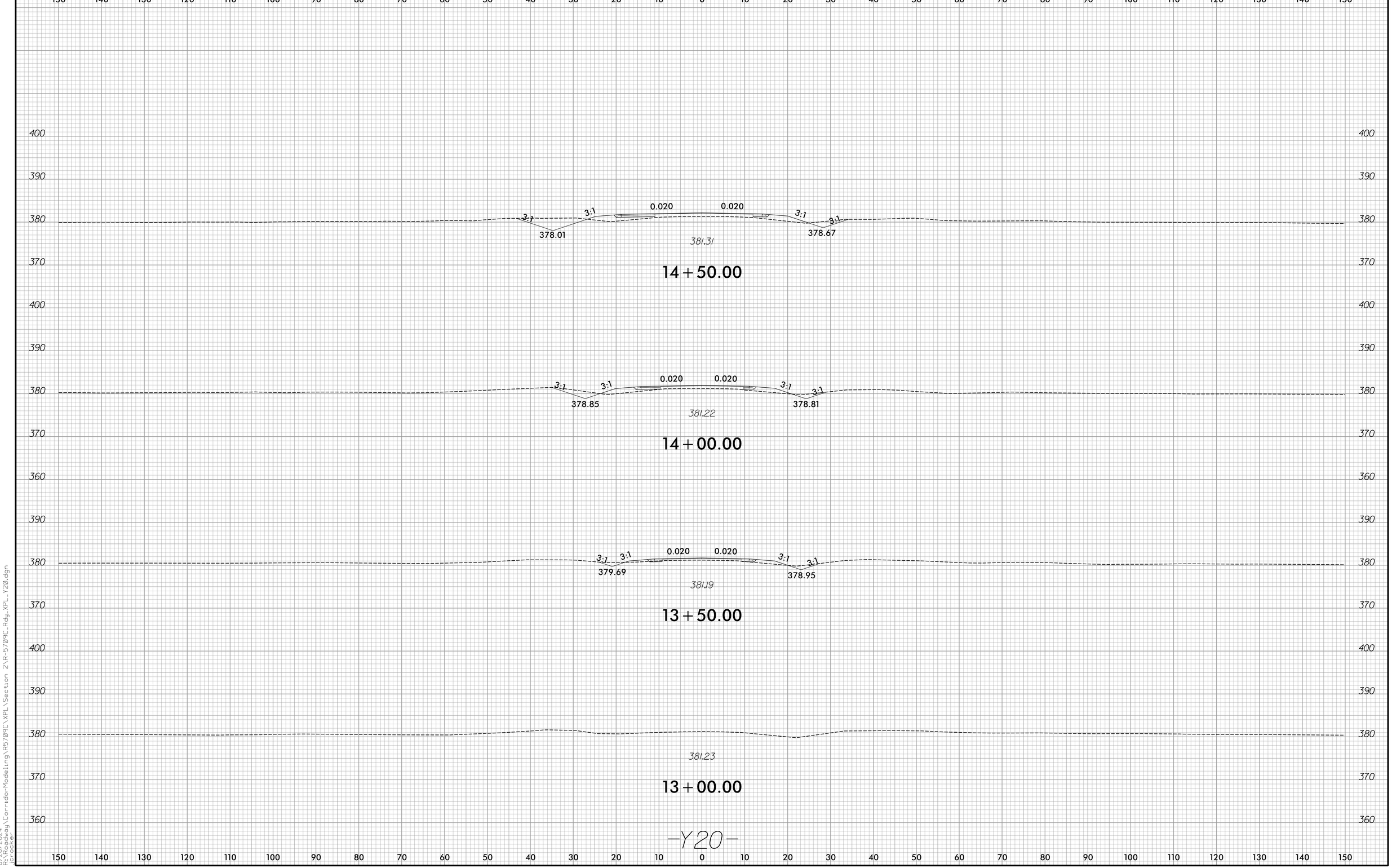
R:\Roadway\CorridorModeling\R5709C\XPL\Section 2\R-5709C_Rdy_XPL_Y19.dgn
jcrocker

6/23/16

0 5 10	PROJ. REFERENCE NO.	SHEET NO.
	R-5709C	X-259

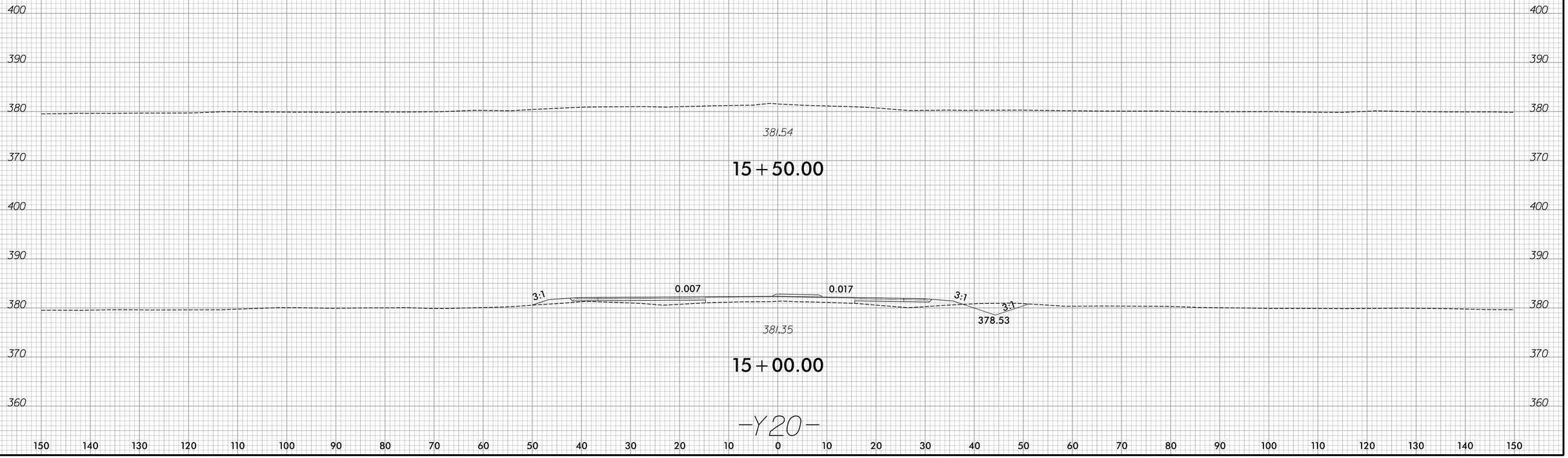
8/28/2024
R:\Roadway\CorridorModeling\R5709C\XPL\Section 2\R-5709C_Rdy_XPL_Y19.dgn
jcrocker

0 5 10	PROJ. REFERENCE NO.	SHEET NO.
	R-5709C	X-260



6/23/16

0 5 10	PROJ. REFERENCE NO.	SHEET NO.
	R-5709C	X-261



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jcrocker

6/23/16

0 5 10	PROJ. REFERENCE NO.	SHEET NO.
	R-5709C	X-262

150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

380 370 360 350

367.32

12+50.00

380 370 360 350

366.78

12+00.00

380 370 360 350

366.09

11+50.00

380 370 360 350

3:1 0.008 0.013 3:1

365.43

11+00.00

380 370 360 350

3:1 0.001 0.001 3:1

365.47

10+50.00

-Y20A-

150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

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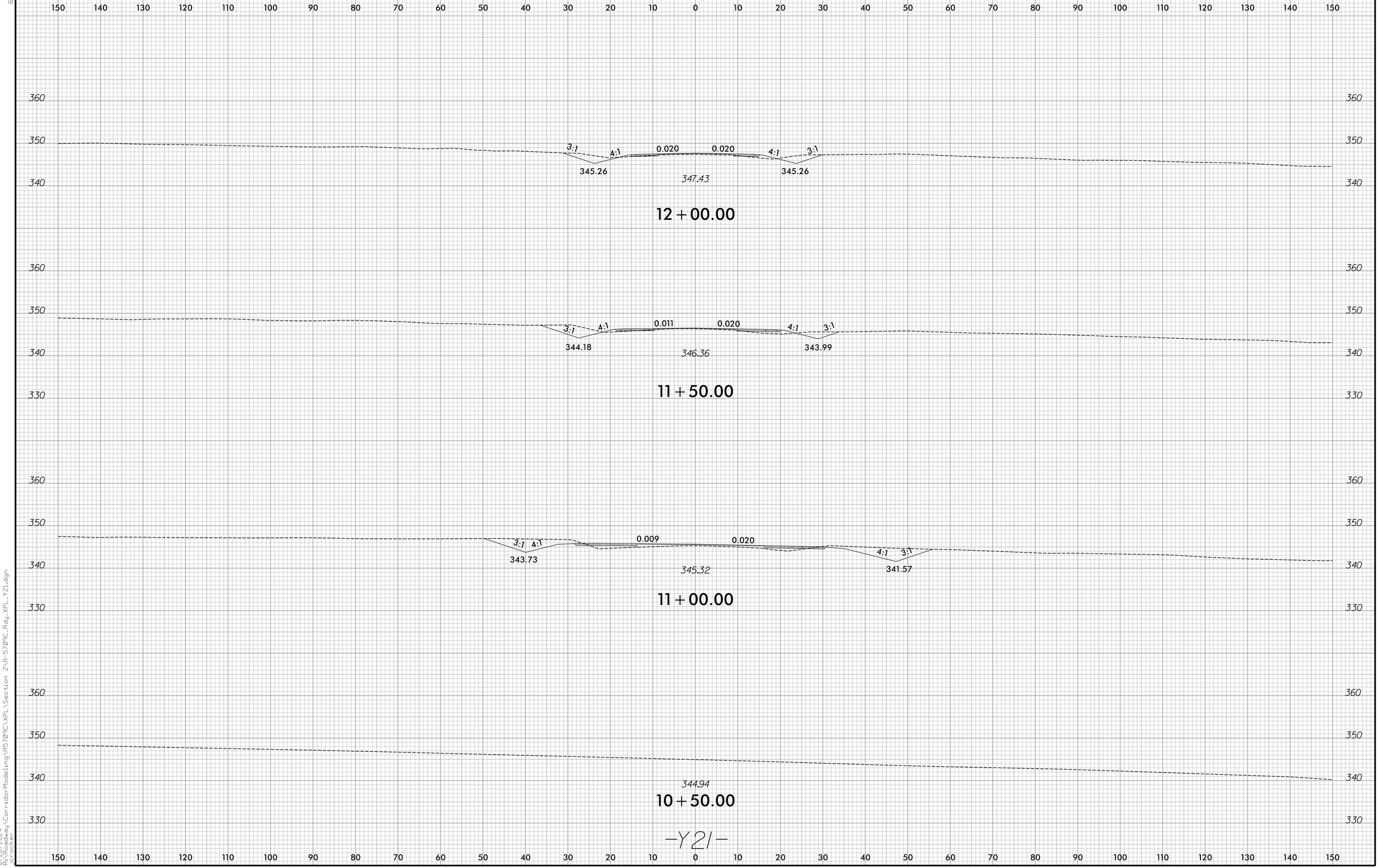
R:\Roadway\CorridorModeling\R5709C\XPL\Section 2\R-5709C_Rdy_XPL_Y20A.dgn
jcrocker

0 5 10	PROJ. REFERENCE NO.	SHEET NO.
	R-5709C	X-263



6/23/16

0 5 10	PROJ. REFERENCE NO.	SHEET NO.
	R-5709C	X-264

150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

360
350
340
360
350
340
330

349.99

13+00.00

3:1 4:1 0.024 0.027 4:1 3:1

346.57 346.54

348.74

12+50.00

-Y21-

8/28/2024
R:\Roadway\CorridorModeling\R5709C\XPL\Section 2\R-5709C_Rdy_XPL_Y21.dgn
jcrocker

0 5 10	PROJ. REFERENCE NO.	SHEET NO.
	R-5709C	X-265

150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

320 310 300

307.16

12+00.00

320 310 300

3:1 4:1 0.014 0.020 4:1

305.83

306.30

11+50.00

320 310 300

3:1 4:1 0.020 0.020 4:1

304.90

305.75

11+00.00

320 310 300

4:1 0.017 0.016 4:1

305.10

10+50.00

320 310 300

304.66

10+00.00

290

-Y22-

150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

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R:\Roadway\CorridorModeling\R5709C\XPL\Section 2\R-5709C_Rdy_XPL_Y22.dgn
jcrocker

0 5 10	PROJ. REFERENCE NO.	SHEET NO.
	R-5709C	X-266

150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

310 / 300 / 290

301.24

12+50.00

END SHALLOW UNDERCUT EXCAVATION STA. 12+25

3:1 0.015 0.018 3:1

3:1

299.21

301.08

12+00.00

3:1 0.020 0.003 3:1

3:1 297.58 297.92 3:1

300.41

11+50.00

3:1 0.020 0.020 3:1

3:1 295.95 296.36 3:1

300.01

BEGIN SHALLOW UNDERCUT EXCAVATION STA. 10+75

11+00.00

300.02

10+50.00

-Y23-

150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

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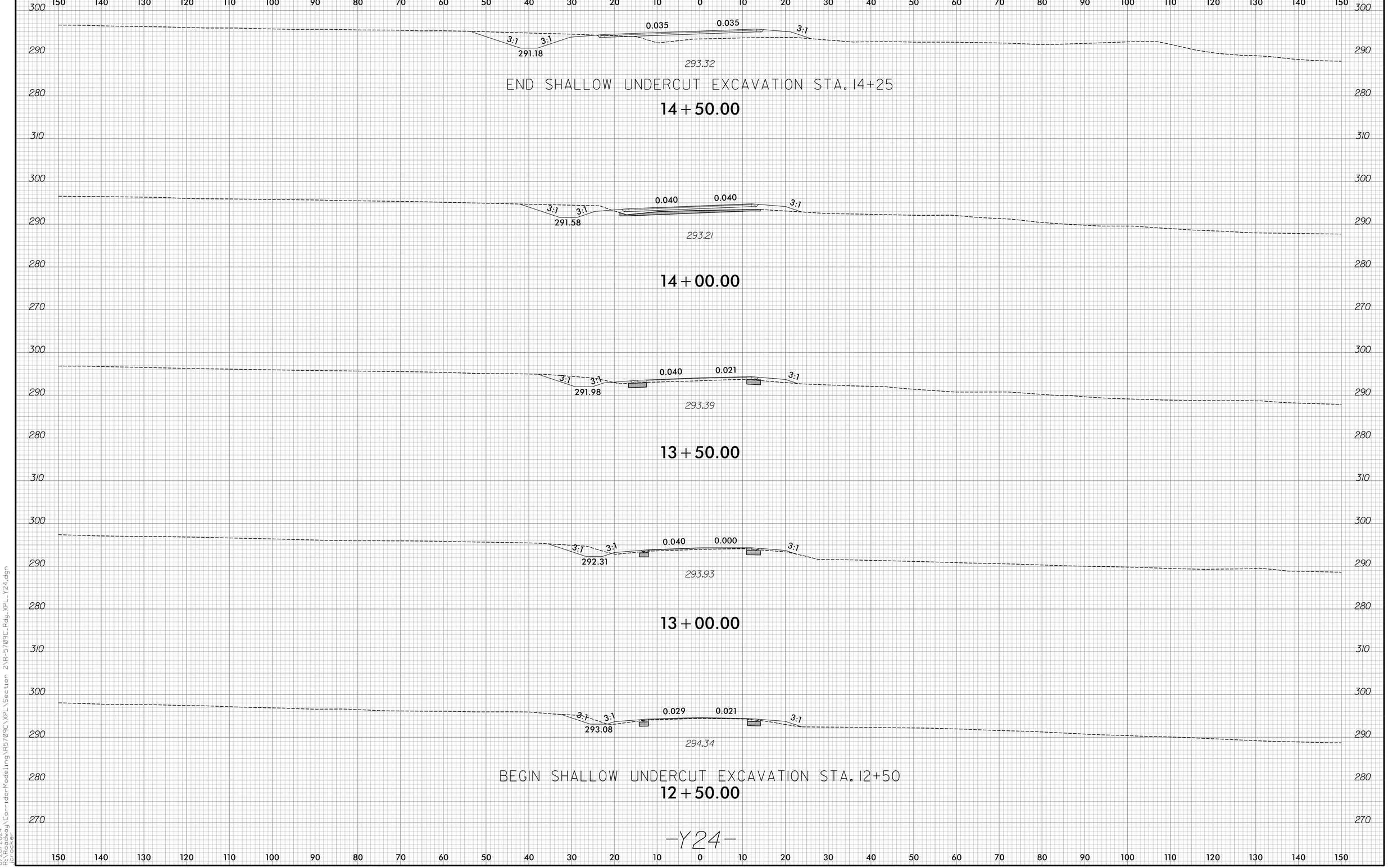
jcrocker



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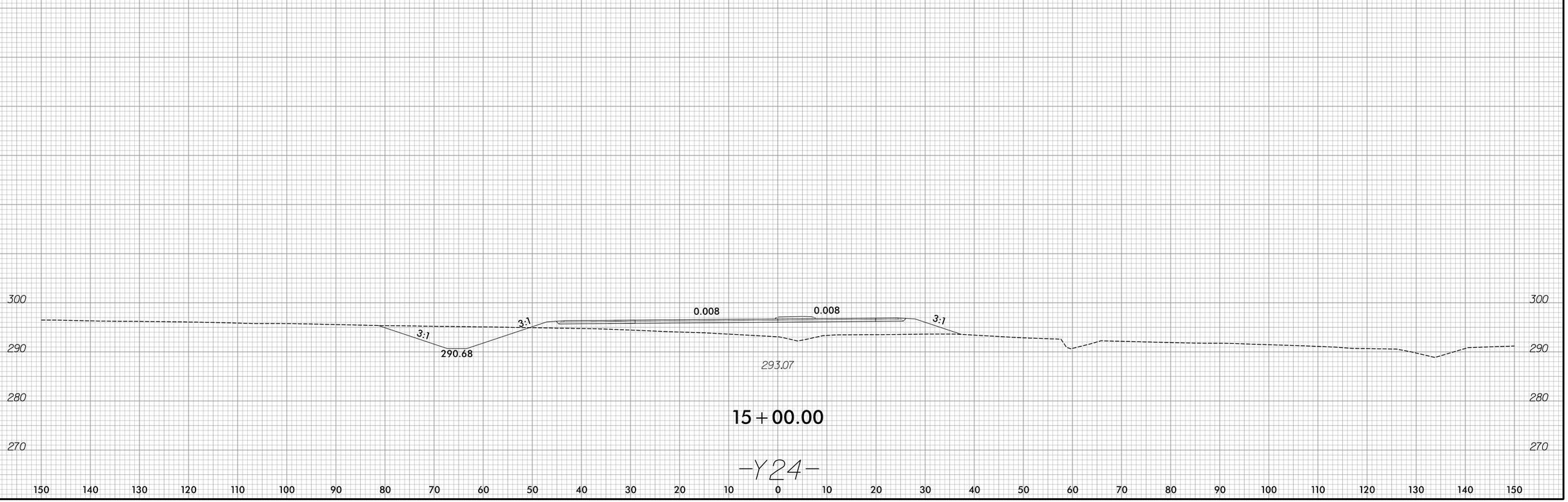
R:\Roadway\CorridorModeling\R5709C\XPL\Section 2\R-5709C_Rdy_XPL_Y24.dgn
jcrocker

6/23/16

0 5 10	PROJ. REFERENCE NO.	SHEET NO.
	R-5709C	X-268



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R:\Roadway\CorridorModeling\R5709C\XPL\Section 2\R-5709C_Rdy_XPL_Y24.dgn
jcrocker

6/23/16

0 5 10	PROJ. REFERENCE NO.	SHEET NO.
	R-5709C	X-269

150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

300
290
310

4:1 0.010 0.020 3:1 3:1
294.96
292.93
12+50.00

DRIVEWAY
0.004 0.020 3:1 3:1
295.11
292.72
12+00.00

3:1 3:1 0.025 0.025 3:23:1 3:1
293.84
295.12
292.50
11+50.00

DRIVEWAY
0.024 0.024 4.28:1
295.29
11+00.00

6:1 4:1 0.004 0.003 4:1 6:1
294.17
295.24
293.63
10+50.00

293.68
10+00.00

-Y24A-

150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

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R:\Roadway\CorridorModeling\R5709C\XPL\Section 2\R-5709C_Rdy_XPL_Y24A.dgn
jcrocker

6/23/16

0 5 10	PROJ. REFERENCE NO.	SHEET NO.
	R-5709C	X-270

150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

300 290 300 290 300 290 300 290 300 290 300 290

291.90
16+50.00

EXIST. EXIST.
292.50
16+00.00

EXIST. EXIST.
292.74
15+50.00

EXIST. EXIST.
293.01
15+00.00

EXIST. EXIST.
293.49
14+50.00

EXIST. EXIST.
293.88
14+00.00

EXIST. EXIST.
294.19
13+50.00

EXIST. EXIST.
294.58
13+00.00

300 290 300 290 300 290 300 290 300 290 300 290

280 290 280 290 280 290 280 290 280 290 280 290

-Y24A-

150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

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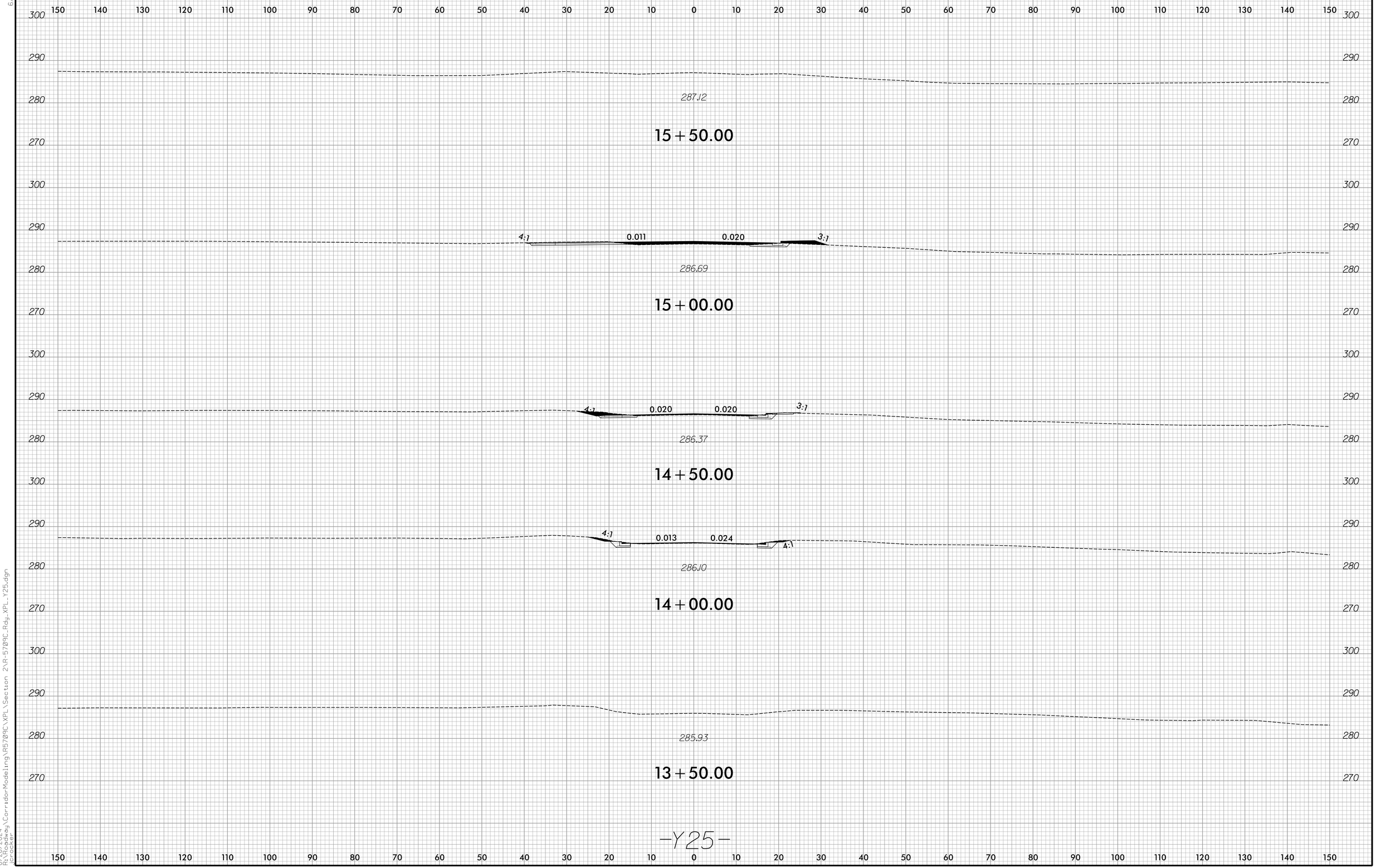
R:\Roadway\CorridorModeling\R5709C\XPL\Section 2\R-5709C_Rdy_XPL_Y24A.dgn
jcrocker

0 5 10	PROJ. REFERENCE NO.	SHEET NO.
	R-5709C	X-271



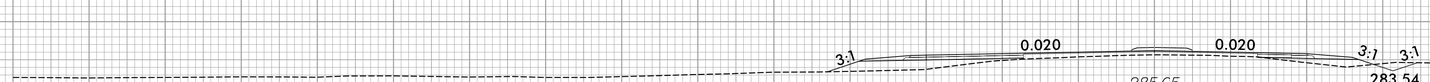
-Y25-

0 5 10

PROJ. REFERENCE NO.	SHEET NO.
R-5709C	X-272

150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

290 280 270

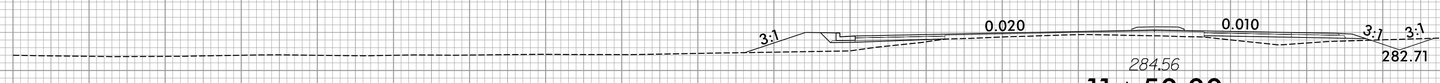


285.65

12+50.00

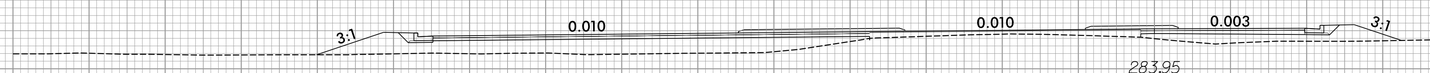
285.17

12+00.00



284.56

11+50.00



283.95

11+00.00

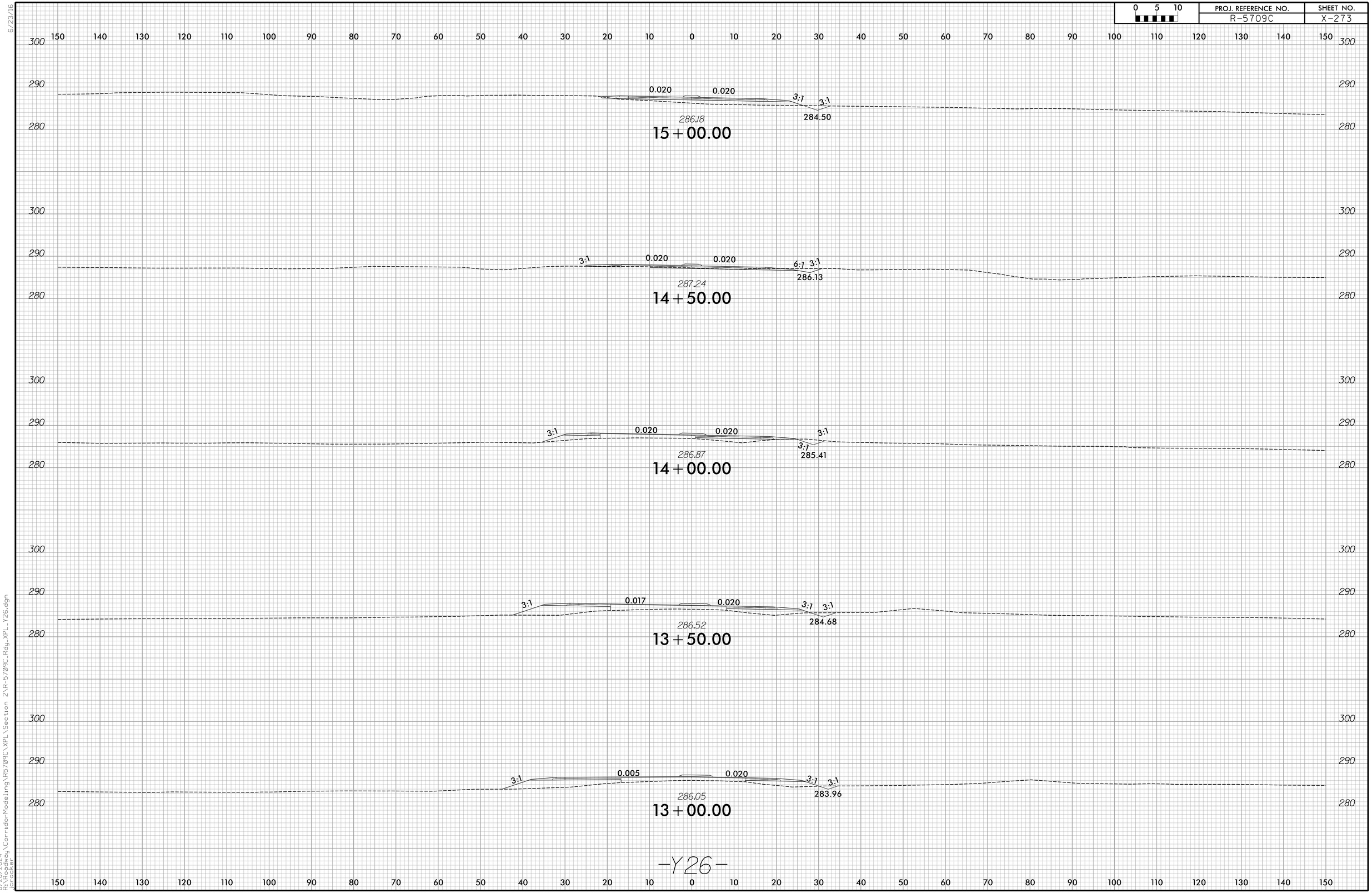
283.63

10+50.00

284.56

10+00.00

-Y26-



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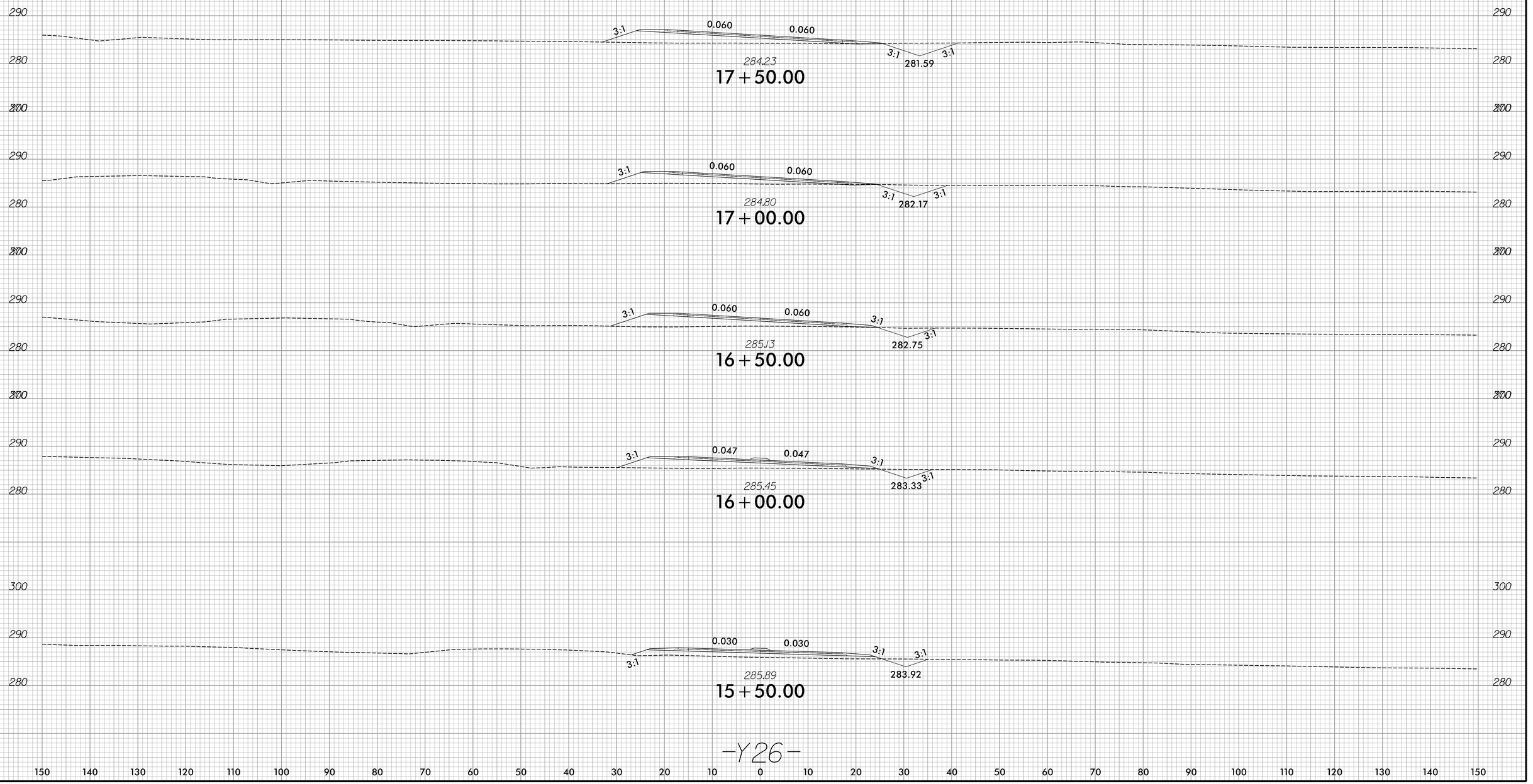
150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150



-Y26-

0 5 10	PROJ. REFERENCE NO.	SHEET NO.
	R-5709C	X-275

150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

310 300 290 280 270

SHEAR LINE @ INTERSECTION WITH -Y26A-

0.060 0.060 4:1 3:1

283.30 279.76

19+00.00

SHEAR LINE @ INTERSECTION WITH -Y26A-

0.060 0.060 4.6:1 3:1

283.84 280.42

18+50.00

SHEAR LINE @ INTERSECTION WITH -Y26A-

0.060 0.060 3:1 3:1

284.15 281.00

18+00.00

-Y26-

150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

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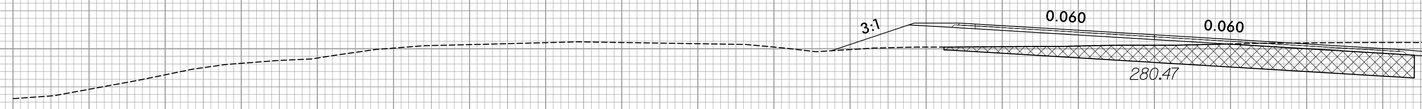
jcrocker

0 5 10	PROJ. REFERENCE NO.	SHEET NO.
	R-5709C	X-276

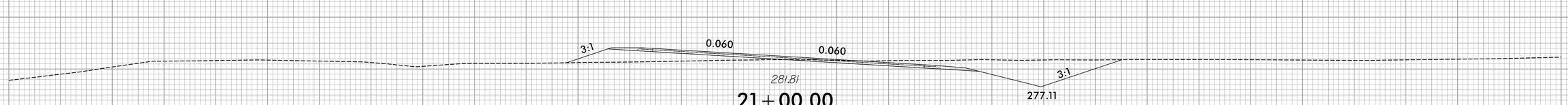
150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

290 280 270

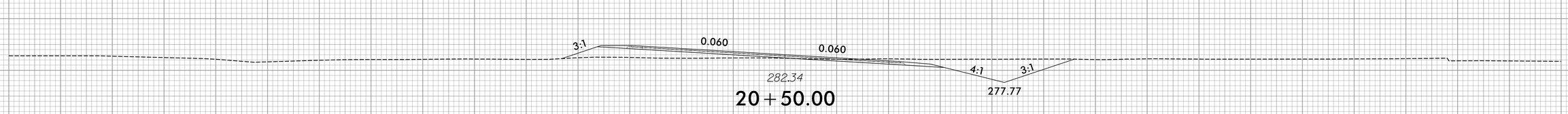


BEGIN UNDERCUT FOR SUBGRADE STABILITY - STA. 21+25

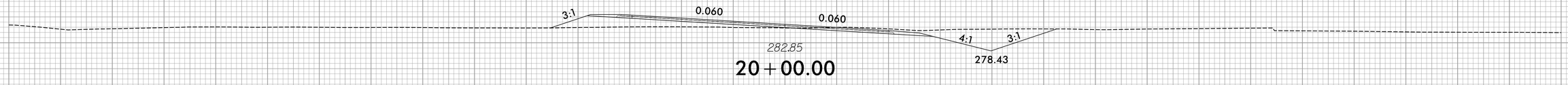
21+50.00



21+00.00

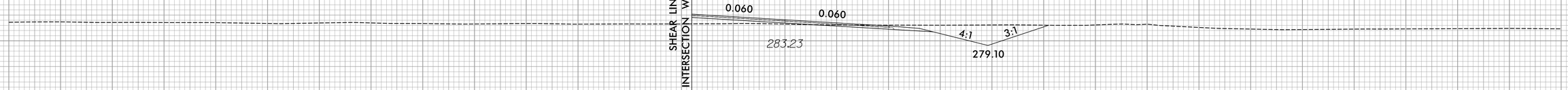


20+50.00



20+00.00

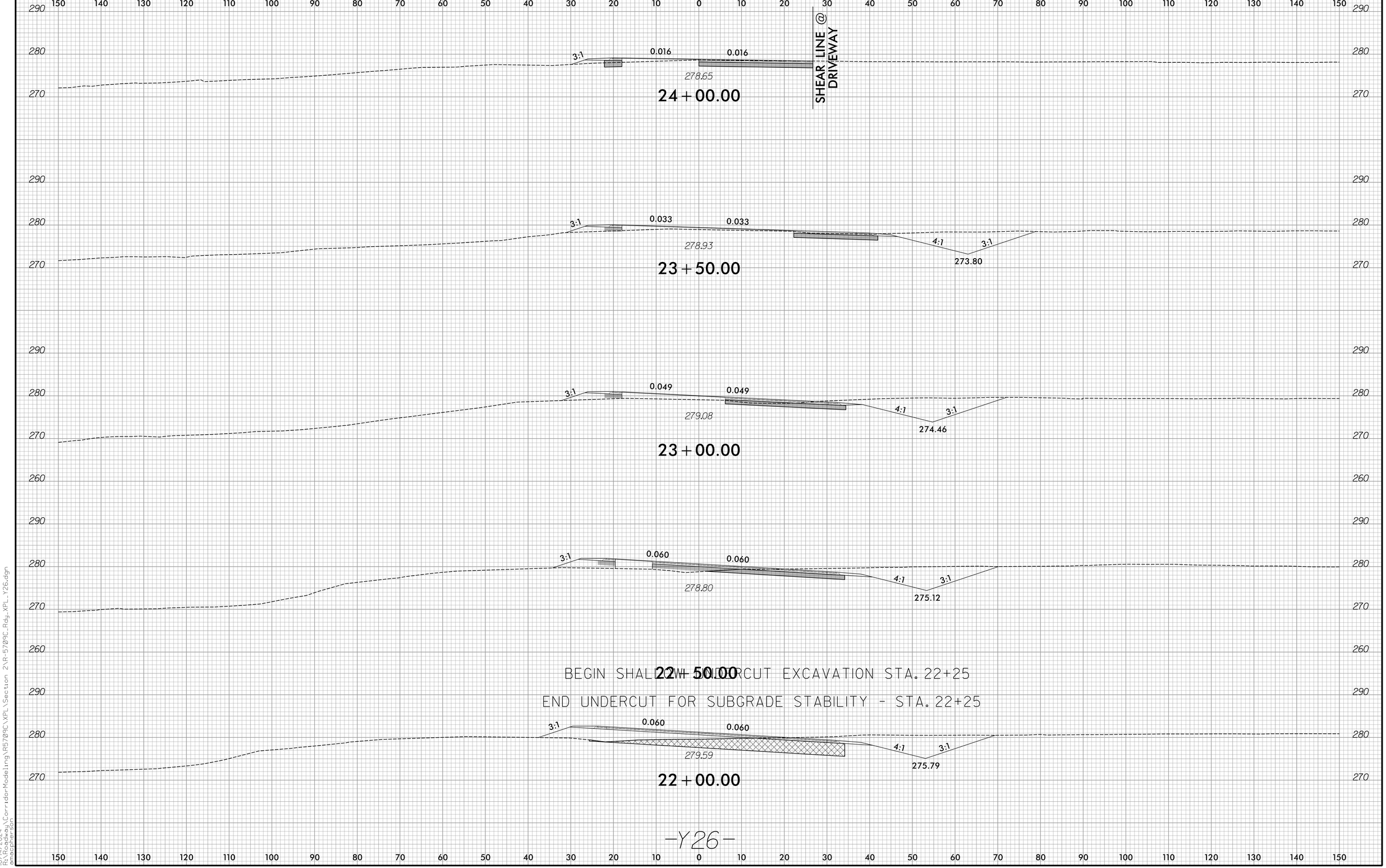
SHEAR LINE @ INTERSECTION WITH -Y26A-



19+50.00

-Y26-

0 5 10	PROJ. REFERENCE NO.	SHEET NO.
	R-5709C	X-277



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amacpherson

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0 5 10	PROJ. REFERENCE NO.	SHEET NO.
	R-5709C	X-278

150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

280 / 270 / 260

276.86

26+00.00

END SHALLOW UNDERCUT EXCAVATION STA. 25+50

290 / 280 / 270 / 260

3:1 0.034 0.014 3:1

277.27

25+50.00

290 / 280 / 270 / 250

3:1 0.017 0.017 3:1

277.63

25+00.00

290 / 280 / 270

3:1 0.001 0.001

278.09

24+50.00

SHEAR LINE @ DRIVEWAY

-Y26-

150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

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jcrocker

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0 5 10	PROJ. REFERENCE NO.	SHEET NO.
	R-5709C	X-279

150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

300 290 280 270 260

SHEAR LINE @ INTERSECTION WITH -SR1-

0.037 0.037 3:1

285.18

12+50.00

BEGIN SHALLOW UNDERCUT EXCAVATION - STA. 12+25

END UNDERCUT FOR SUBGRADE STABILITY - STA. 12+25

3:1 0.040 0.040 3:1

284.33

12+00.00

3:1 0.040 0.040 3:1

284.27

BEGIN UNDERCUT FOR SUBGRADE STABILITY - STA. 11+25

11+50.00

3:1 0.030 0.030 3:1

283.85

11+00.00

3:1 0.010 0.010 3:1

283.58

10+50.00

-Y26A-

150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

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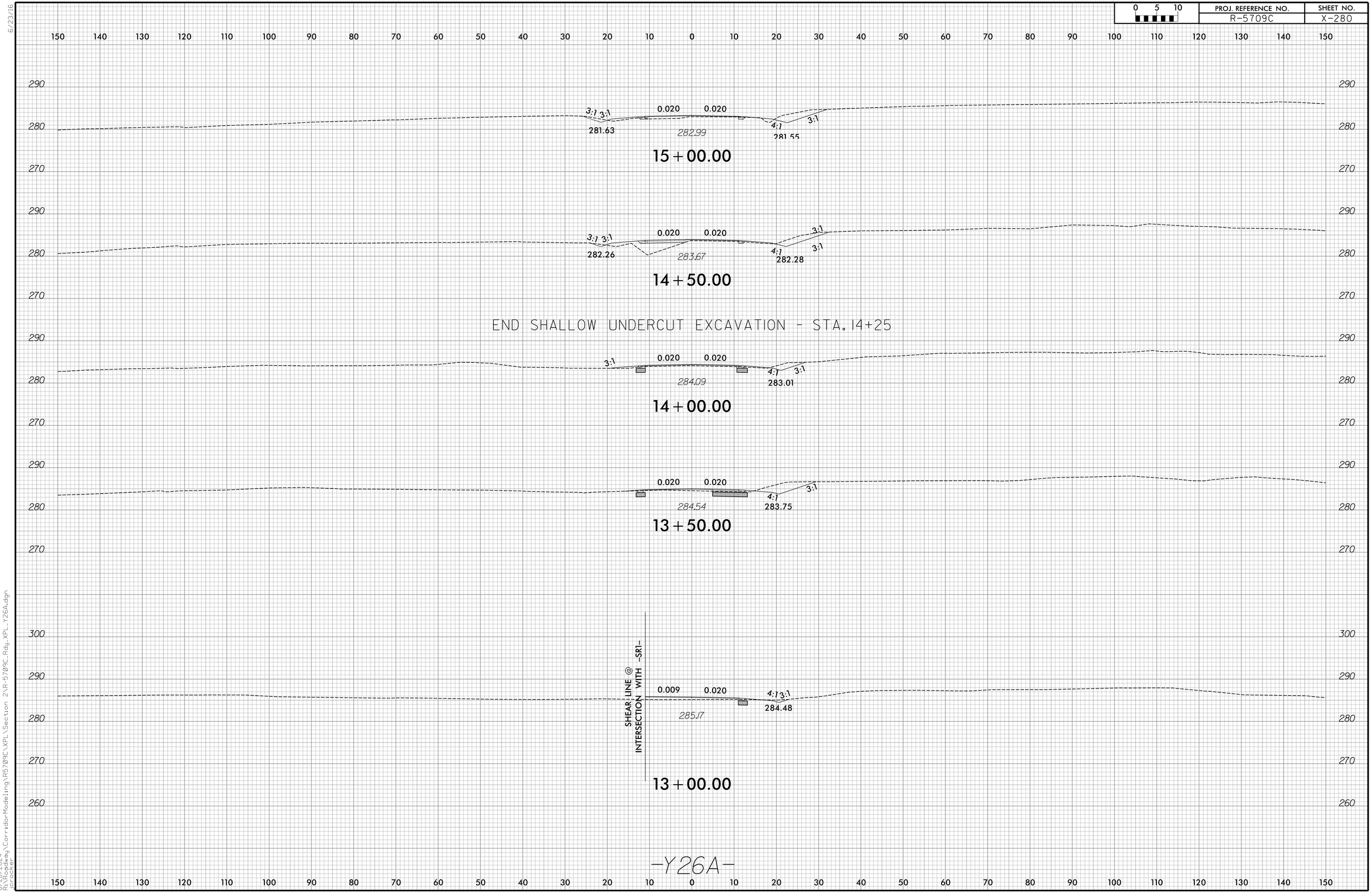
jcrocker



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jcrocker

6/23/16

0 5 10	PROJ. REFERENCE NO.	SHEET NO.
	R-5709C	X-281

150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

290

280

270

282.24

15+50.00

290

280

270

-Y26A-

150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

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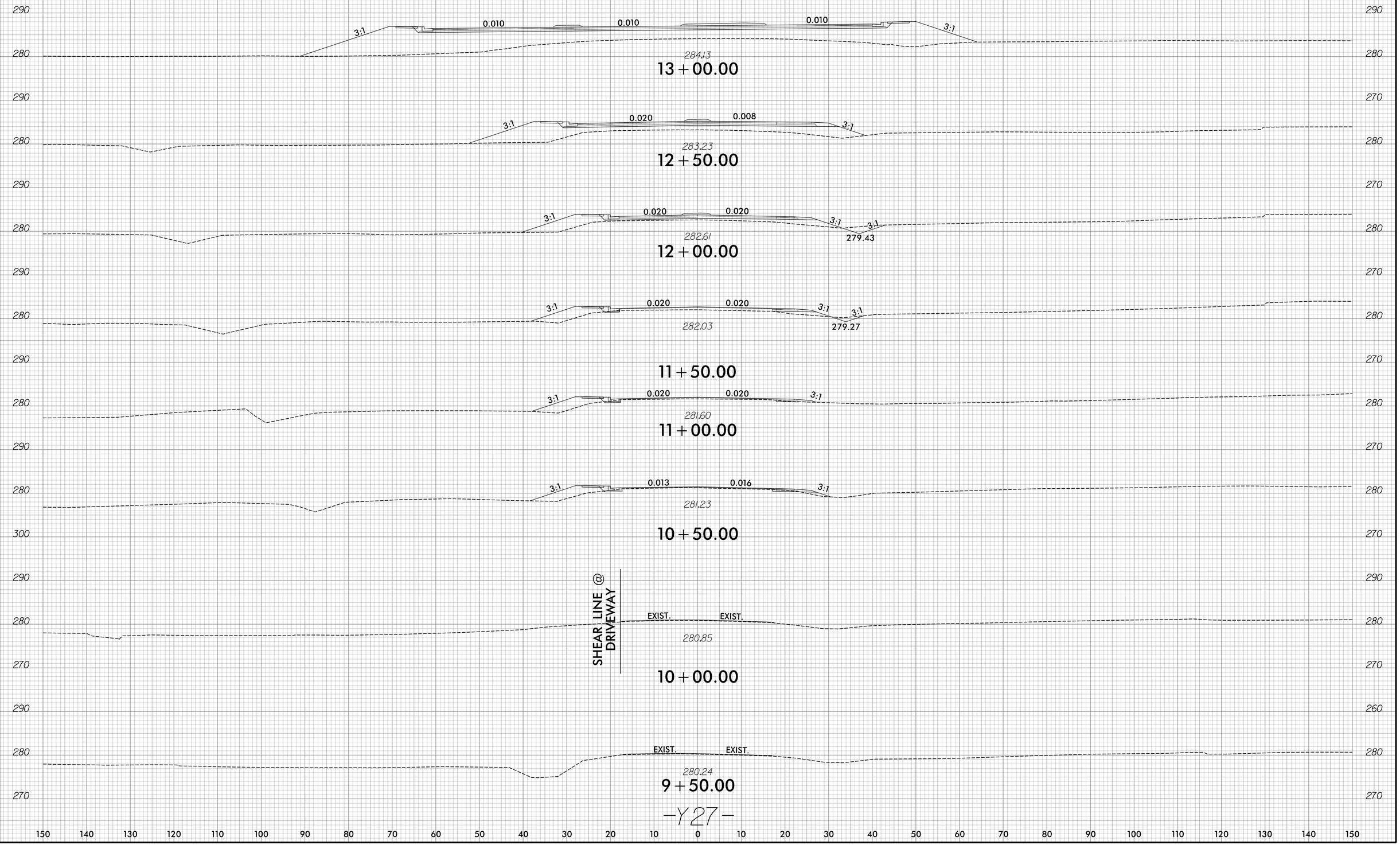
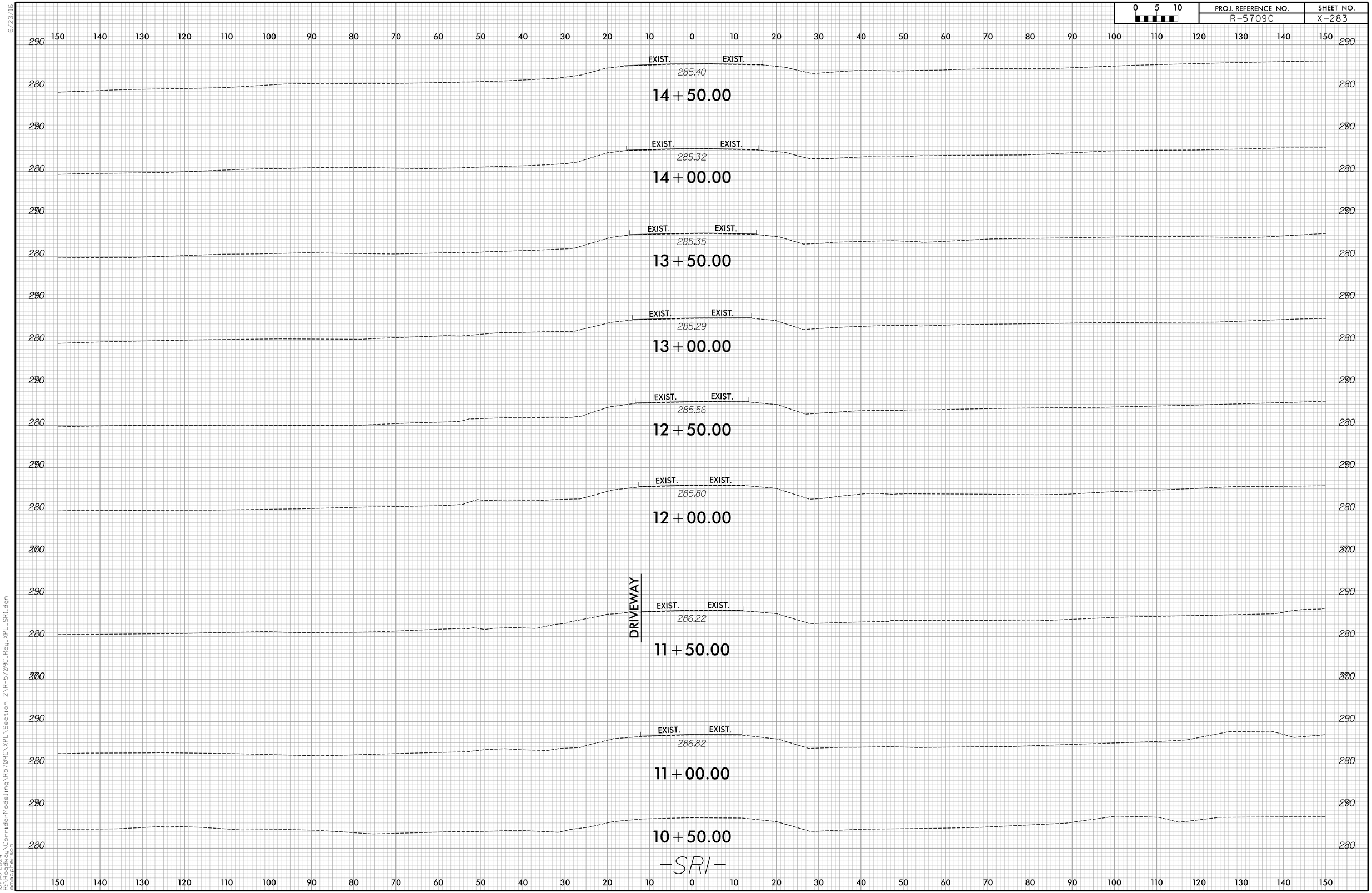
R:\Roadway\CorridorModeling\R5709C\XPL\Section 2\R-5709C_Rdy_XPL_Y26A.dgn
jcrocker

0 5 10	PROJ. REFERENCE NO.	SHEET NO.
	R-5709C	X-282

150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150





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amacpherson

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0 5 10	PROJ. REFERENCE NO.	SHEET NO.
	R-5709C	X-284

150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

300 290 280

9.77:1 6.52:1 0.016 0.005 4.63:1 6.95:1

284.40 285.52 285.37

17+50.00

290 280

6.18:1 0.018 0.030 5:1

285.63

17+00.00

290 280

6:1 4:1 0.020 0.008 5:1

285.28 285.88

280

16+50.00

290 280

5:1 0.020 0.013 5:1

285.92

16+00.00

300 290 280

4:1 0.020 0.020 4:1

285.85 284.78

15+50.00

300 290 280

END OVERLAY
BEGIN GRADE
–SR1– STA. 15+00.00

5:1 0.034 0.011 4:1 6:1

285.65 284.62

15+00.00

–SR1–

270

150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

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R:\Roadway\CorridorModeling\R5709C\XPL\Section 2\R-5709C_Rdy_XPL_SR1.dgn
amacpherson

0 5 10	PROJ. REFERENCE NO.	SHEET NO.
	R-5709C	X-285

150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

340
330
320

334.27
12+00.00

350
340
330
320

3:1 0.020 0.006 3:1

332.76
11+50.00

340
330
320

3:1 0.020 0.020 3:1

331.78
11+00.00

340
330
320

331.91
10+50.00

-DR7-

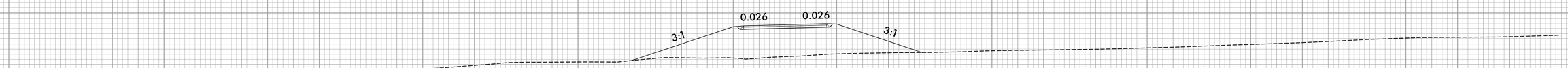
150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

6/23/16

0 5 10	PROJ. REFERENCE NO.	SHEET NO.
	R-5709C	X-286

150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

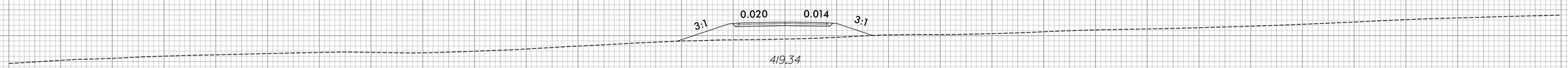
440 430 420 410



421.53

12 + 00.00

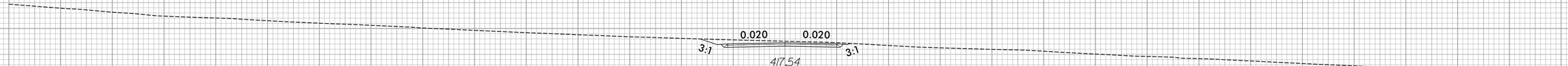
430 420 410



419.34

11 + 50.00

430 420 410



417.54

11 + 00.00

430 420 410

415.99

10 + 50.00

400

—DR8—

150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

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jcrocker

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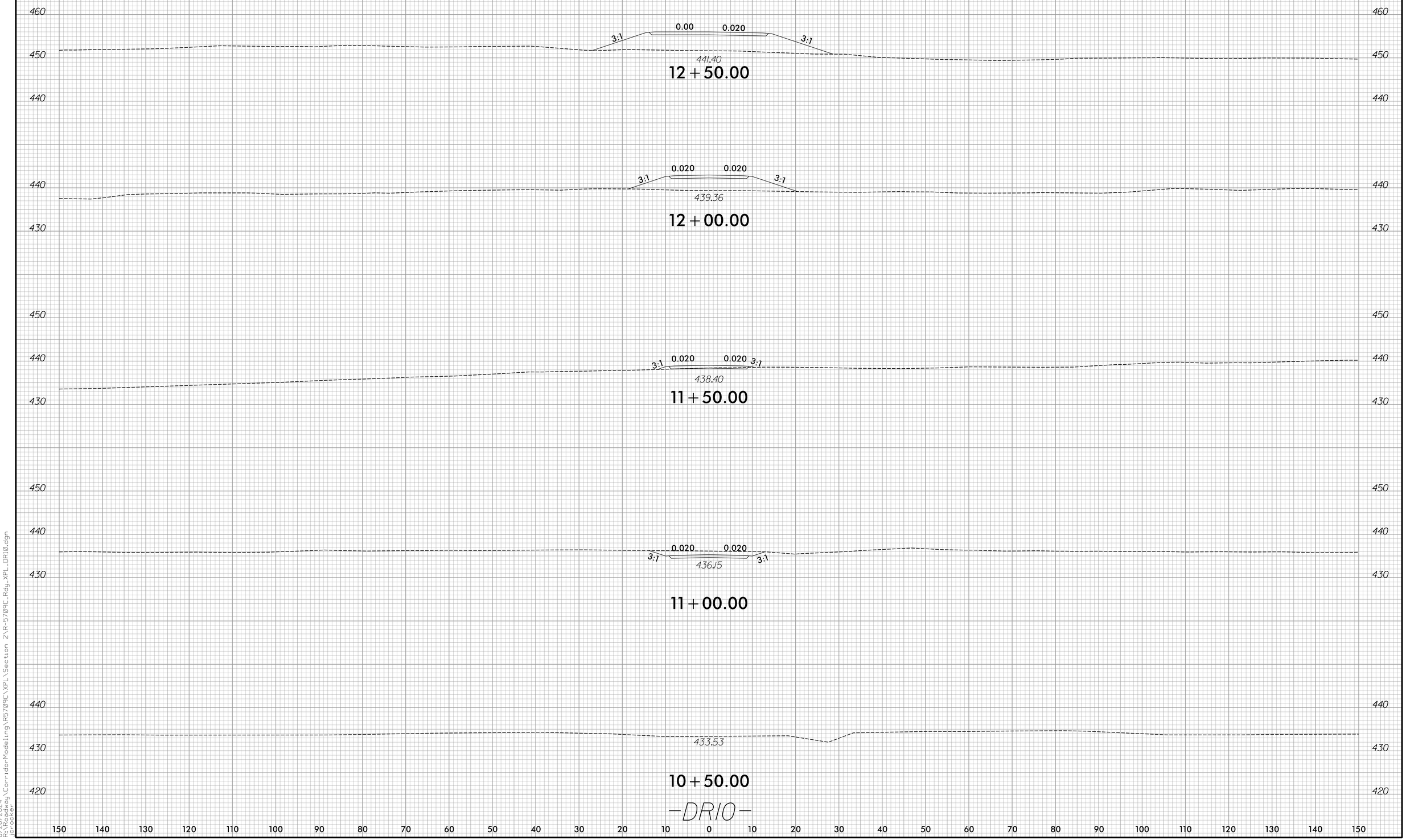
0 5 10	PROJ. REFERENCE NO.	SHEET NO.
	R-5709C	X-287



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jcrocker

0 5 10	PROJ. REFERENCE NO.	SHEET NO.
	R-5709C	X-288

150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

300 290 280

287.55

13+50.00

288.03

13+00.00

288.55

12+50.00

288.99

12+00.00

289.35

11+50.00

289.65

11+00.00

289.81

10+50.00

289.93

10+00.00

-DET_RAB-

0 5 10	PROJ. REFERENCE NO.	SHEET NO.
	R-5709C	X-289

150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

290 280 270

4:1 3:1 0.017 0.017 3:1 6:1
282.40 281.64
282.91
16+50.00

290 280 270

3:1 4:1 0.004 0.004 3:1 6:1
282.44 282.65
283.59
16+00.00

290 280 270

3:1 4:1 0.026 0.026 3:1 4:1
282.72 283.78
284.38
15+50.00

270

290 280 270

4:1 3:1 0.030 0.030 3:1 6:1
283.52 284.65
284.18
15+00.00

290 280 270

3:1 3:1 0.030 0.030 3:1 6:1
284.42 285.49
286.29
14+50.00

300 290 280

3:1 3:1 0.030 0.030 3:1
284.73
287.05
14+00.00

-DET_RAB-

150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

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jcrocker

6/23/16

0 5 10	PROJ. REFERENCE NO.	SHEET NO.
	R-5709C	X-290

150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

290 280 270

3:1 3:1 0.030 0.030 3:1 6:1
283.50 283.42
283.35
19+00.00

6:1 3:1 0.030 0.030 3:1 6:1
284.55 283.36
284.56
18+72.32

SHEAR LINE @ INTERSECTION WITH MOCKINGBIRD HILL RD.

0.030 0.030 3:1
283.29
18+50.00

3:1 3:1 0.030 0.030 3:1 3:1
281.00 280.32
282.11
18+00.00

3:1 3:1 0.030 0.030 3:1 3:1
281.23 280.87
281.89
17+50.00

3:1 3:1 0.030 0.030 3:1 6:1
281.45 281.41
282.12
17+00.00

-DET_RAB-

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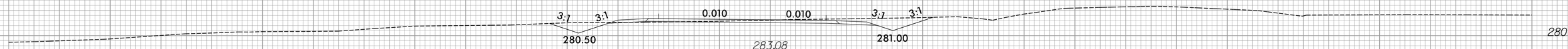
jcrocker

0 5 10	PROJ. REFERENCE NO.	SHEET NO.
	R-5709C	X-291

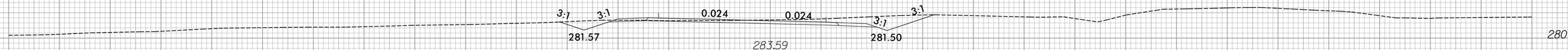
150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

290 280 270



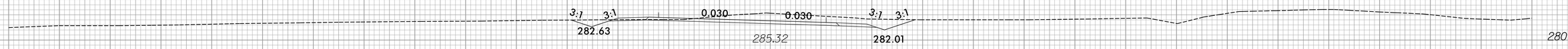
283.08

22+00.00



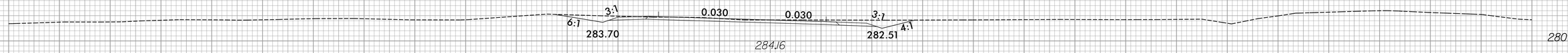
283.59

21+50.00



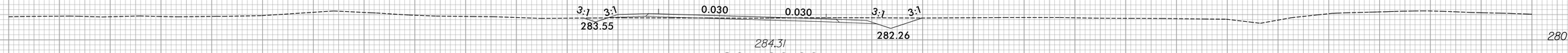
285.32

21+00.00



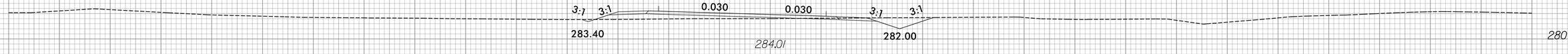
284.16

20+50.00



284.31

20+00.00



284.01

19+50.00

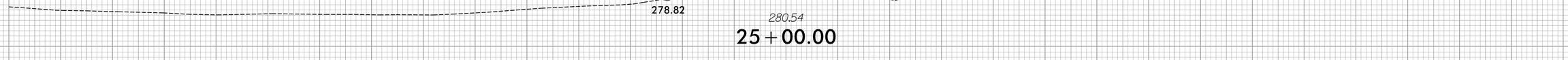
-DET_RAB-

150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

0 5 10	PROJ. REFERENCE NO.	SHEET NO.
	R-5709C	X-292

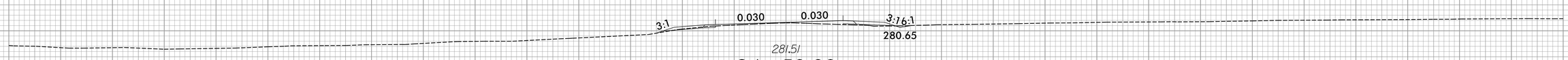
150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

290 280 270



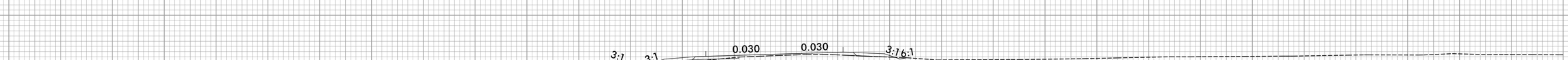
280.54

25+00.00



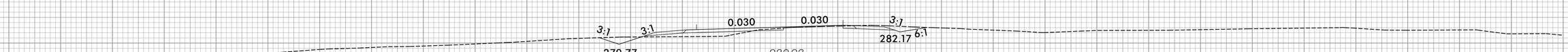
281.51

24+50.00



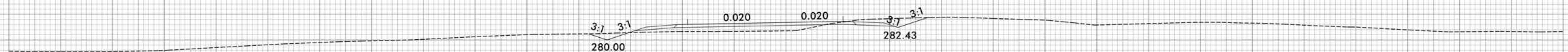
282.29

24+00.00



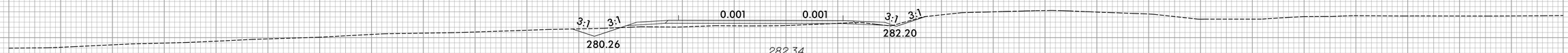
282.98

23+50.00



281.77

23+00.00



282.34

22+50.00

-DET_RAB-

6/23/16

0 5 10	PROJ. REFERENCE NO.	SHEET NO.
	R-5709C	X-293

150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

280
270

277.30
28+00.00

280
270

277.38
27+50.00

280
270

277.63
27+00.00

280
270

6:1 3:1 0.021 0.040
276.34

278.09
26+50.00

290
280
270

6:1 3:1 0.031 0.019
277.07

278.83
26+00.00

290
280
270

6:1 3:1 0.021 0.002
278.07

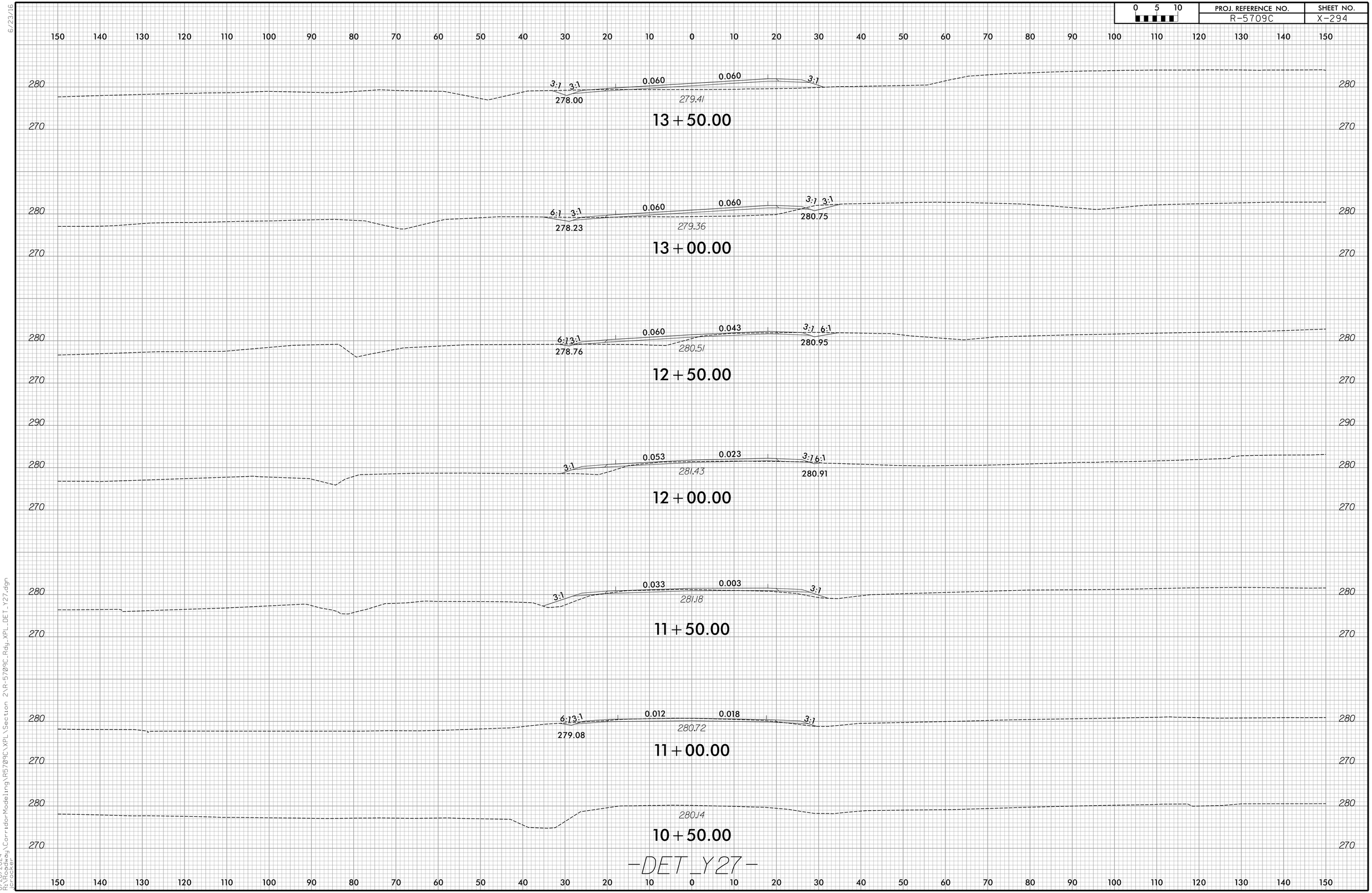
279.62
25+50.00

-DET_RAB-

150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

8/28/2024
R:\Roadway\CorridorModeling\R5709C\XPL\Section 2\R-5709C_Rdy_XPL_DET_RAB.dgn
jcrocker

0 5 10	PROJ. REFERENCE NO.	SHEET NO.
	R-5709C	X-294



6/23/16

0 5 10	PROJ. REFERENCE NO.	SHEET NO.
	R-5709C	X-295

150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

290 280 270

283.52

16+50.00

290 280 270

3:1 3:1 0.002 0.002 3.08:1

283.20 284.97

16+00.00

290 280 270

3:1 3:1 0.019 0.019 6:1

280.70 282.54

15+50.00

290 280 270

3:1 3:1 0.040 0.040 3:1

279.33 280.71

15+00.00

290 280 270

3:1 4:1 0.060 0.060 3:1 3:1

277.95 280.16 278.82

14+50.00

290 280 270

3:1 3:1 0.060 0.060 3:1 3:1

277.24 279.57 279.00

14+00.00

-DET_Y27-

150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

8/28/2024
R:\Roadway\CorridorModeling\R5709C\XPL\Section 2\R-5709C_Rdy_XPL_DET_Y27.dgn
jcrocker