PROJECT REFERENCE NO.	SHEET NO.
B-4660	X-1
R/W SHEET NO.	

ROADWAY DESIGN ENGINEER

NORTH CAROLINA PROFESSIONAL SEAL 35016 ENGINEER JONATHAN C. HEFNER

7/21/11

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SUITE 400
RALEIGH, NC 27601
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www.stewart-eng.com
FIRM NO.: C-1051
STEWART

CROSS SECTION SUMMARY

NOTE: EMBANKMENT COLUMN DOES NOT INCLUDE BACKFILL FOR UNDERCUT

STATION L	UNCL. EXC. (CU. YD.)	EMBT. (CU. YD.)
19+65.00	–	–
20+15.00	6	0
20+65.00	40	0
21+00.00	84	12
21+50.00	166	45
22+00.00	145	32
22+50.00	64	59
23+00.00	10	134
23+50.00	10	243
24+00.00	0	349
24+20.00	0	147

STATION L	UNCL. EXC. (CU. YD.)	EMBT. (CU. YD.)
29+00.00	–	–
29+50.00	27	40
30+00.00	27	6

Y1	UNCL. EXC. (CU. YD.)	EMBT. (CU. YD.)
11+50.00	–	–
12+00.00	16	8
12+30.00	8	10

STATION Y2	UNCL. EXC. (CU. YD.)	EMBT. (CU. YD.)
10+75.00	–	–
11+00.00	12	0
11+50.00	42	34
11+63.38	9	23

STATION Y2 & MUP1	UNCL. EXC. (CU. YD.)	EMBT. (CU. YD.)
11+63.38	–	–
12+00.00	8	23
12+50.00	3	132
13+00.00	3	215

STATION MUP2	UNCL. EXC. (CU. YD.)	EMBT. (CU. YD.)
10+00.00	–	–
10+32.78	5	70
10+81.21	13	80
11+00.00	45	9

STATION MUP2	UNCL. EXC. (CU. YD.)	EMBT. (CU. YD.)
12+00.00	–	–
12+45.00	80	16

STATION MUP2	UNCL. EXC. (CU. YD.)	EMBT. (CU. YD.)
13+05.00	–	–
13+50.00	17	9
14+00.00	45	9
14+50.00	55	4
14+97.52	46	1

CROSS SECTION INDEX

SHEET	BEGIN STATION	END STATION
X-2	-L- 19+65.00	-L- 21+00.00
X-3	-L- 21+50.00	-L- 22+50.00
X-4	-L- 23+00.00	-L- 23+50.00
X-5	-L- 24+00.00	-L- 24+50.00
X-6	-L- 25+00.00	-L- 25+50.00
X-7	-L- 26+00.00	-L- 26+50.00
X-8	-L- 27+00.00	-L- 28+00.00
X-9	-L- 28+50.00	-L- 30+00.00
X-10	-Y1- 11+25.00	-Y1- 12+00.00
X-11	-Y2- 10+75.00	-Y2- 11+50.00
X-12	-Y2- 11+63.38	-Y2- 12+00.00
X-13	-Y2- 12+50.00	
X-14	-MUP2- 11+00.00	-MUP2- 12+00.00
X-15	-MUP2- 12+45.00	-MUP2- 13+05.00
X-16	-MUP2- 13+50.00	-MUP2- 14+97.52

Note:

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

Earthwork quantities are calculated by the Roadway Design Unit. These earthwork quantities are based in part on subsurface data provided by the Geotechnical Engineering Unit.

REVISIONS

8/17/99

7/20/2011
...\Proj\B4660_RDY_PLANSHEETS.dgn
USER: jhefner

8/23/99

0 2.5 5	PROJ. REFERENCE NO.	SHEET NO.
	B-4660	X-2

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

235 230 225 220

S.S. 232.12

2:1

4:1

223.41

6:1

0.001

0.020

225.44

3:1

S.S. 220.76

21+00.00

235 230 225

0.080

0.014

0.020

227.34

0.044

S.S. 226.98

S.S. 226.15

20+65.00

240 235 230

S.S. 230.52

0.080

0.019

0.020

229.71

230.17

=DRIVEWAY=

20+15.00

240 235 230

232.94

19+65.00

—L—

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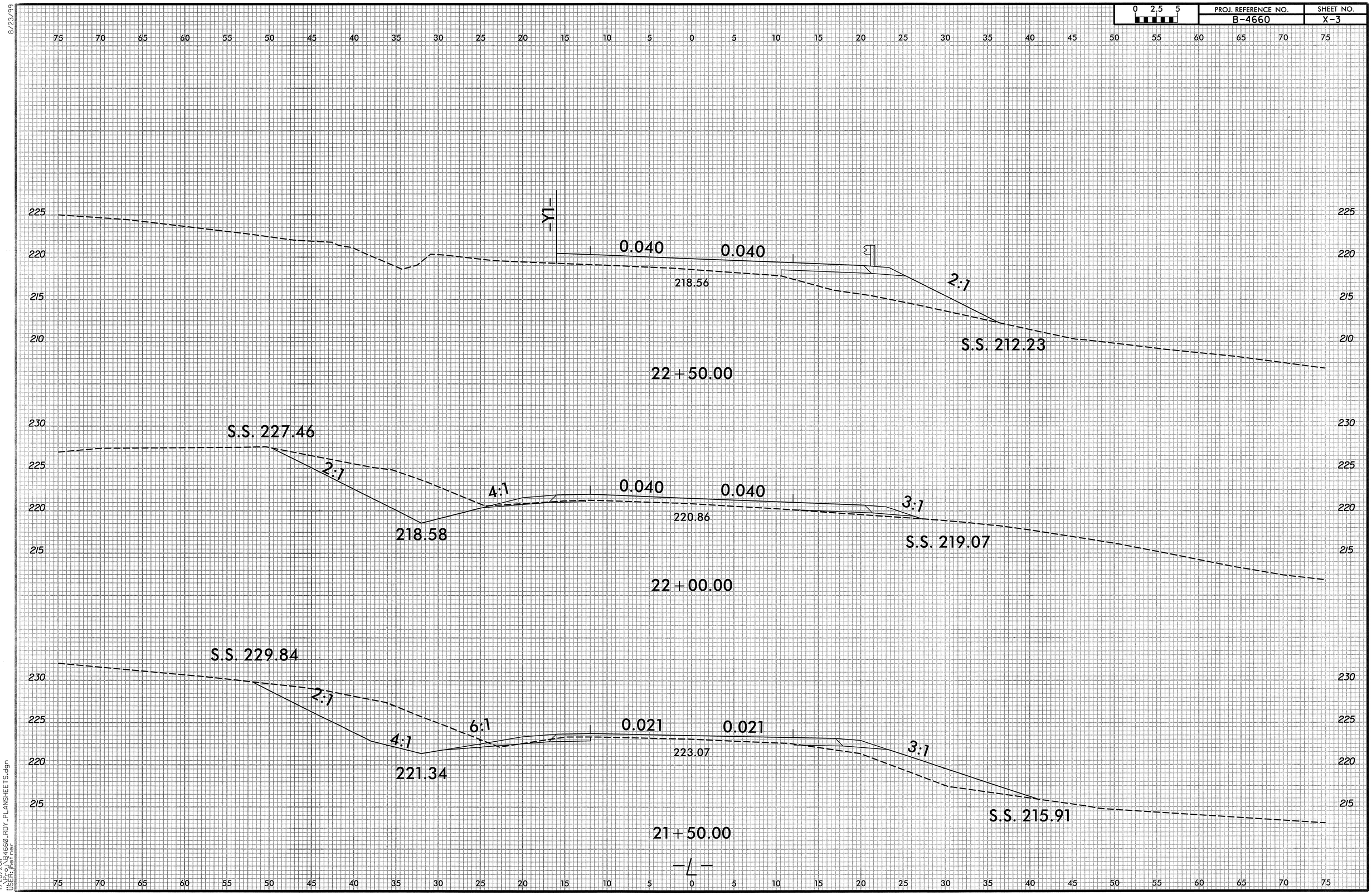

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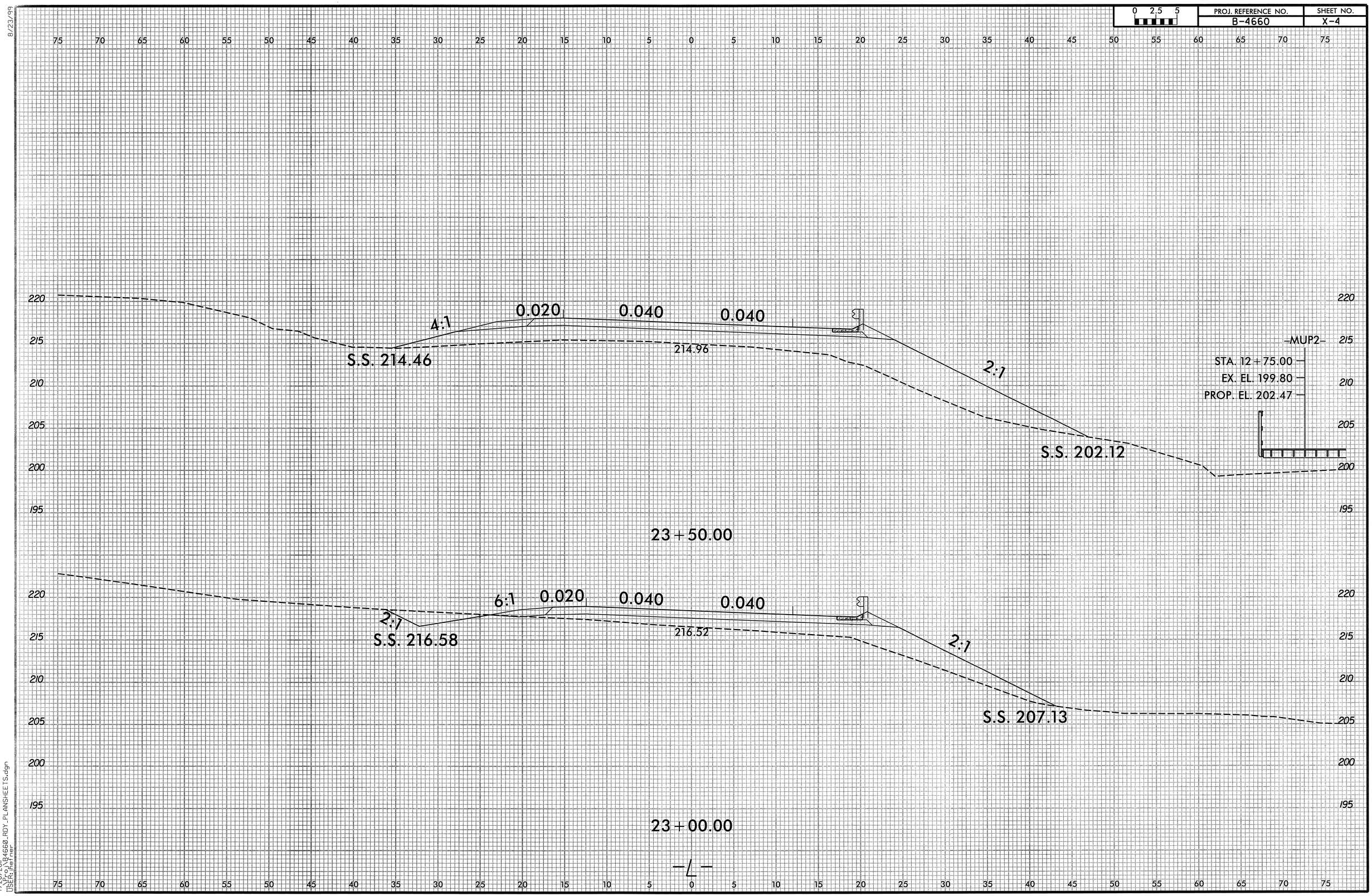

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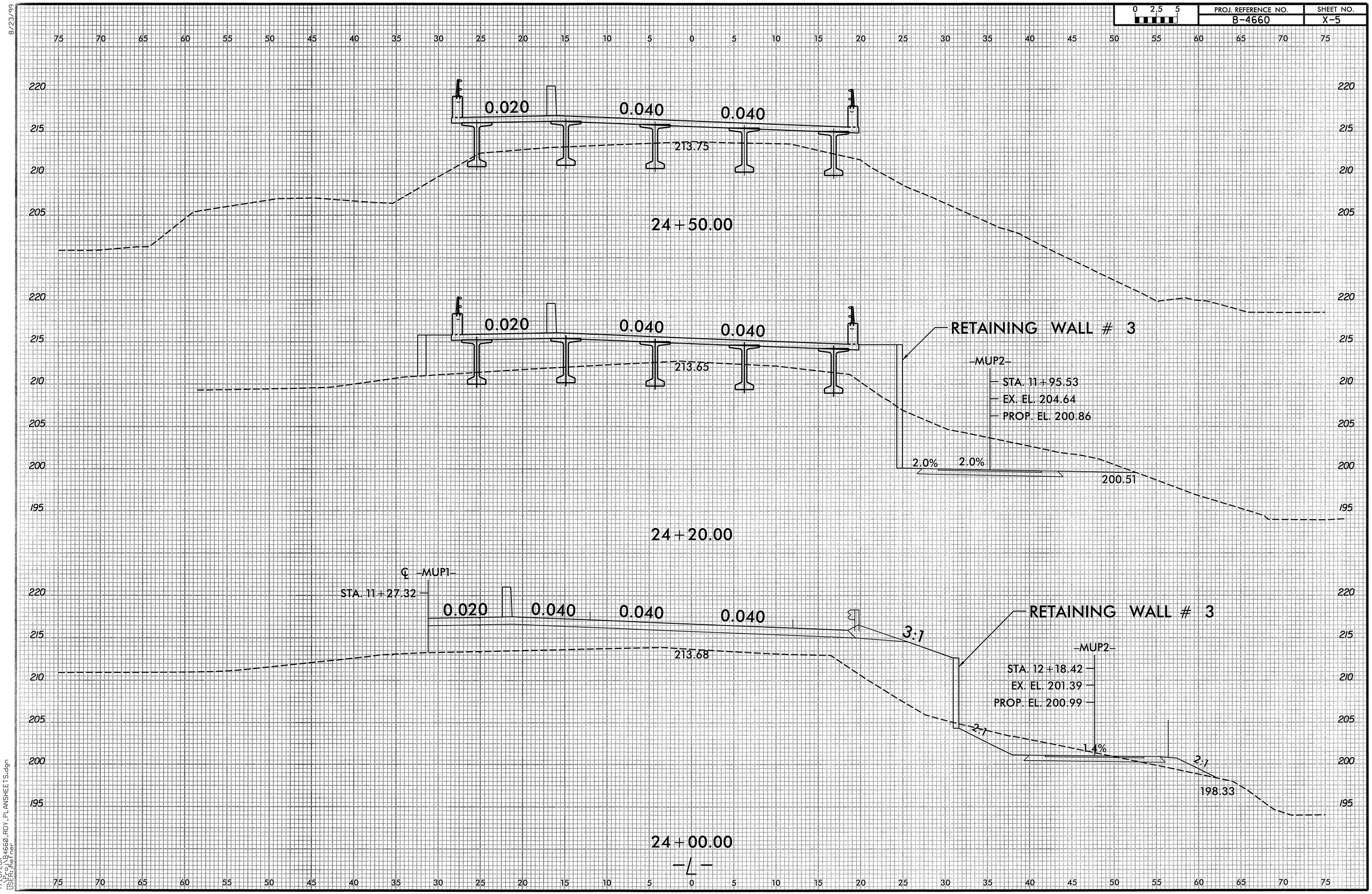

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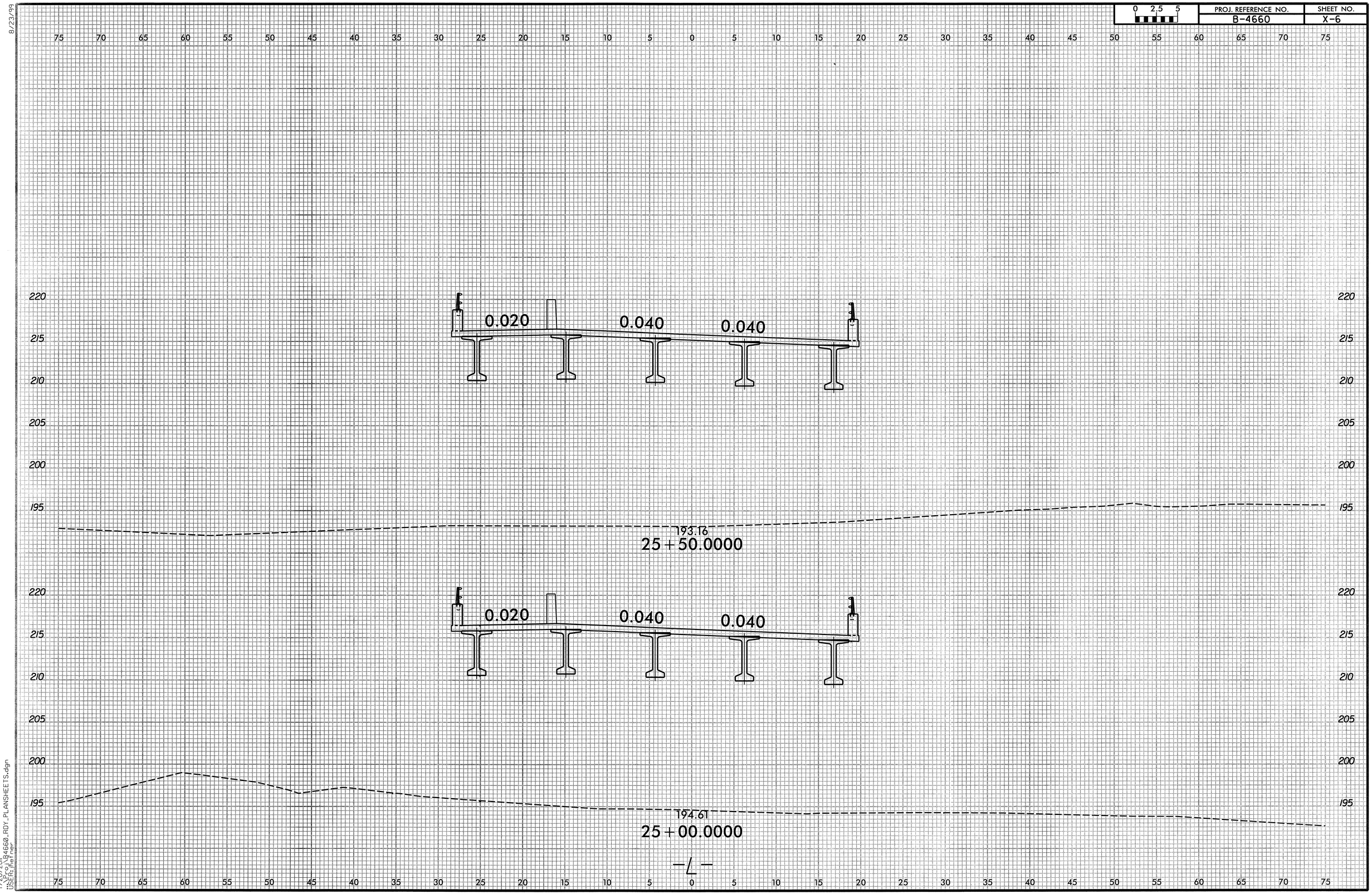

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PROJ. REFERENCE NO.	SHEET NO.
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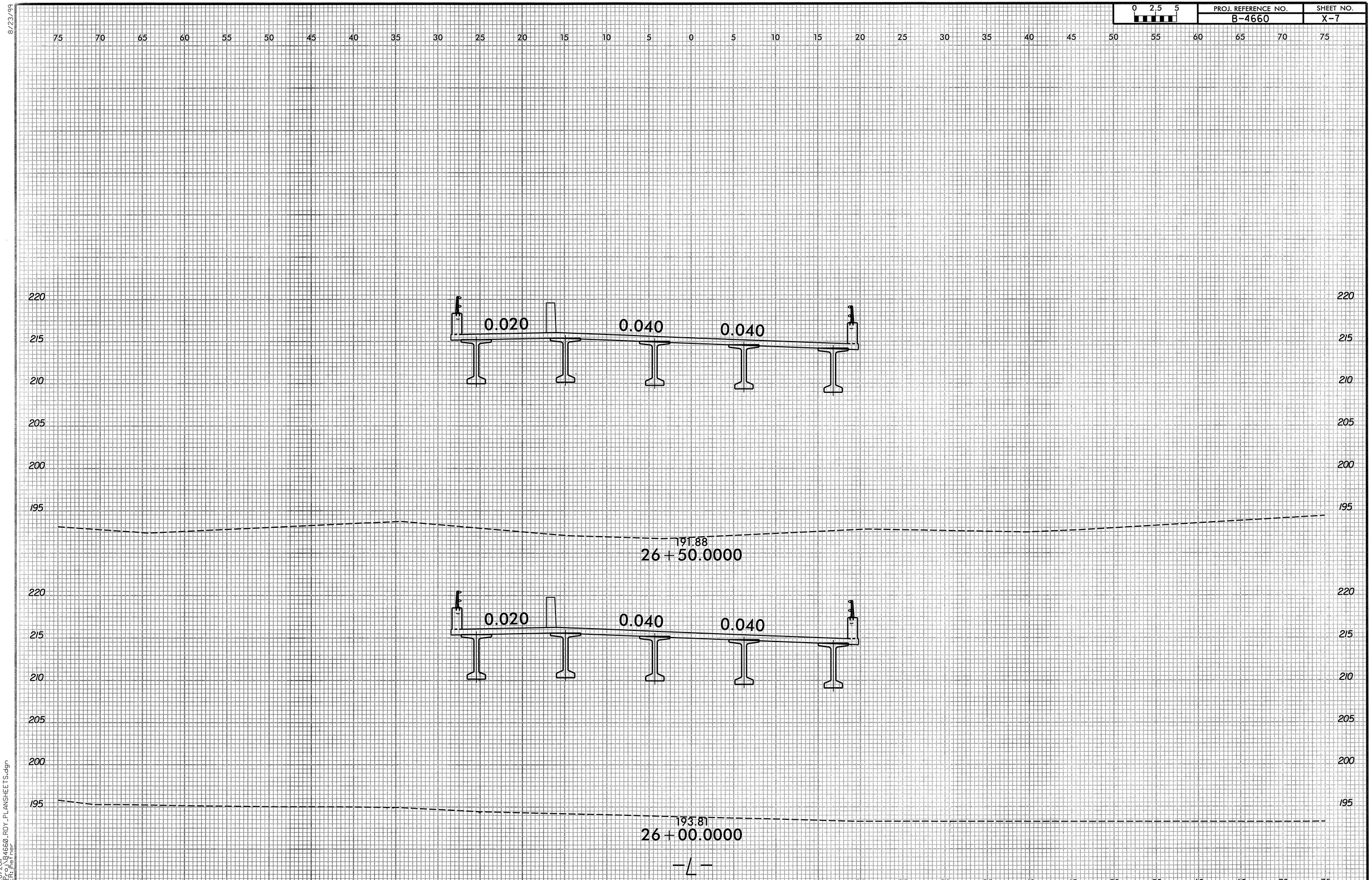

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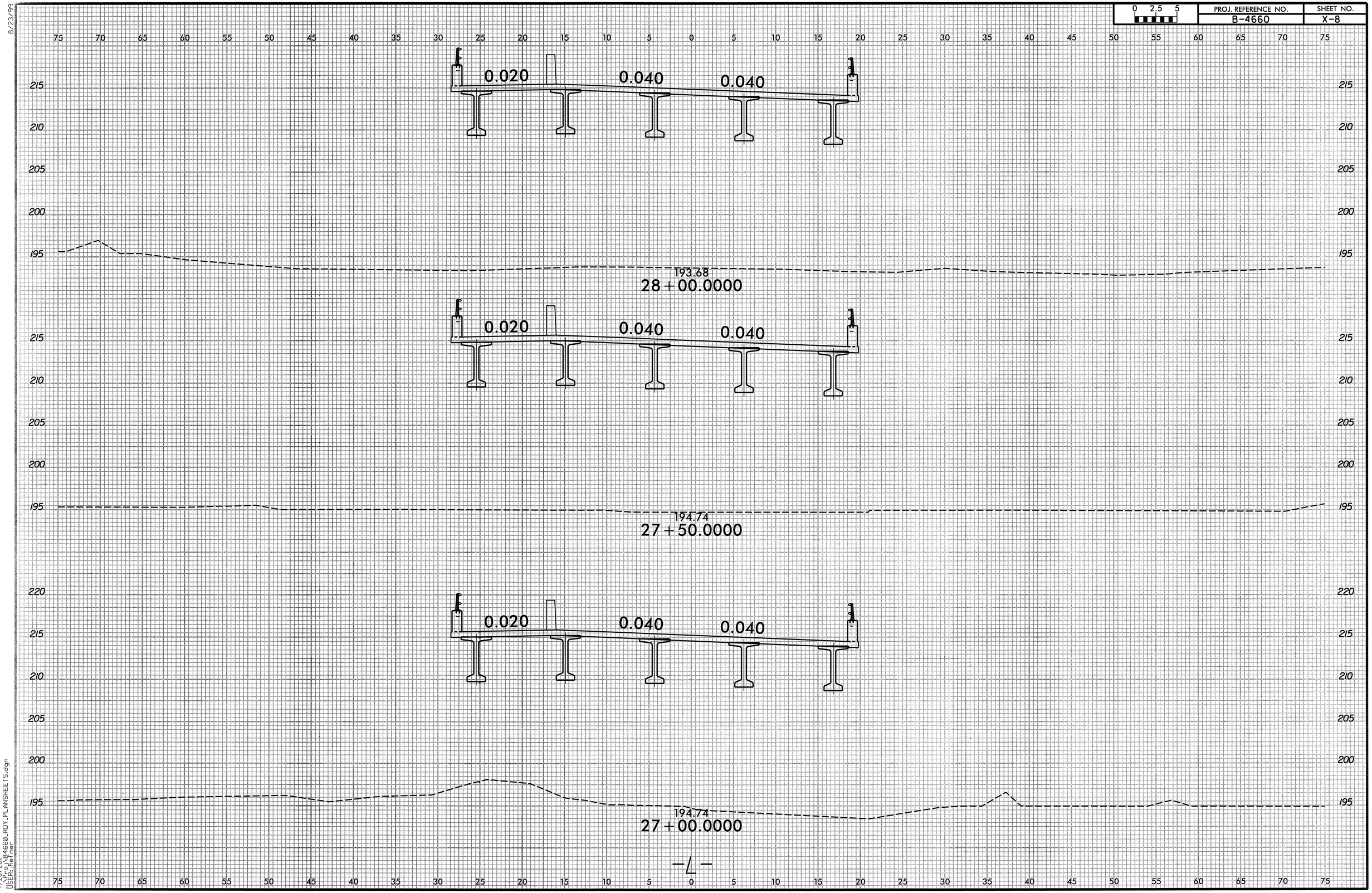

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USER: jhefner

8/23/99

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	B-4660	X-9

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

215 210 205

0.005

S.S. 214.89

214.37

30+00.0000

0.028 0.048 0.048

S.S. 213.59

214.01

S.S. 213.42

29+50.0000

0.020 0.040 0.040

213.80

215 210 205 200

29+00.0000

0.020 0.040 0.040

215 210 205 200 195

195.20

28+50.0000

—L—

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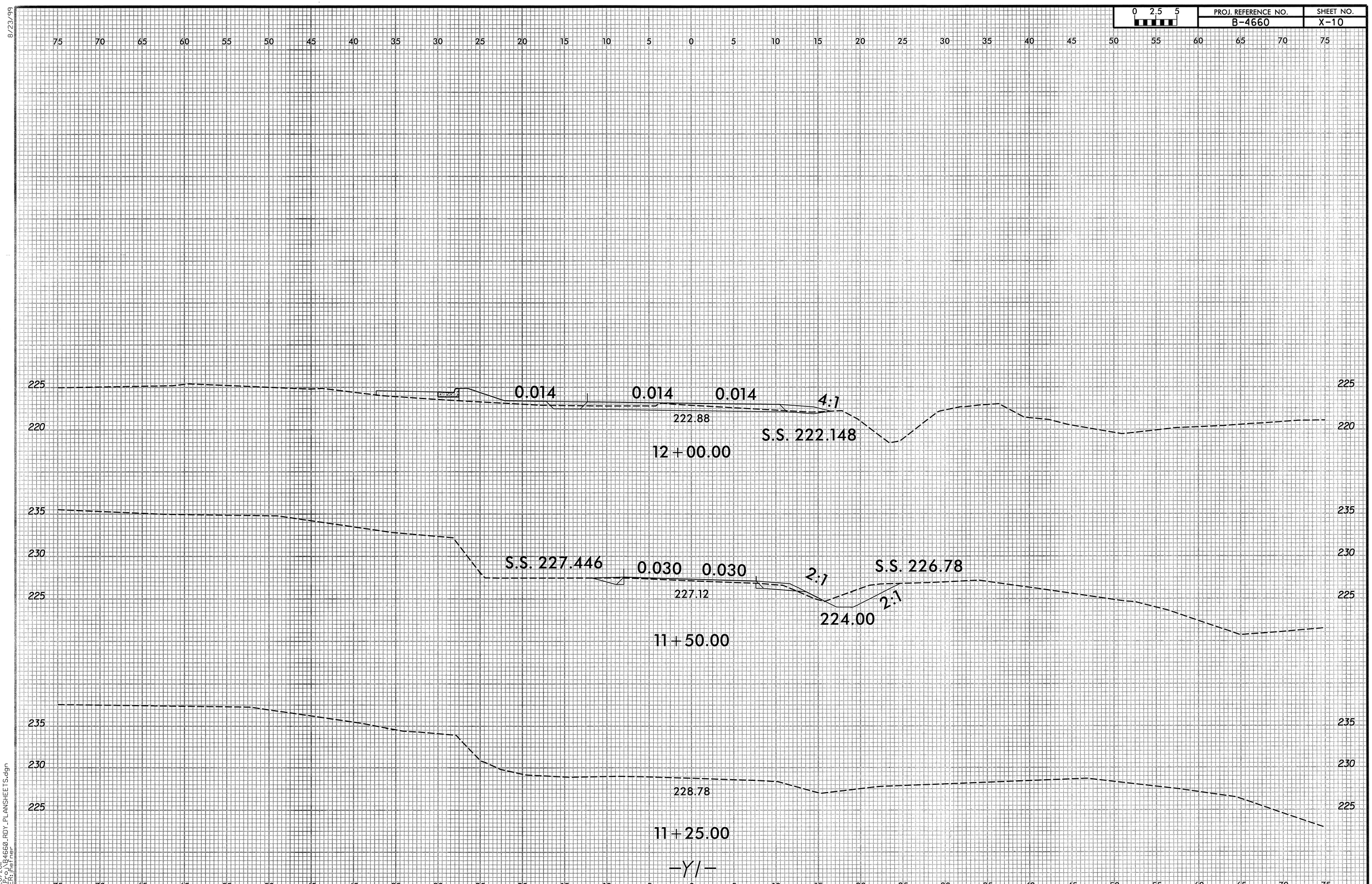

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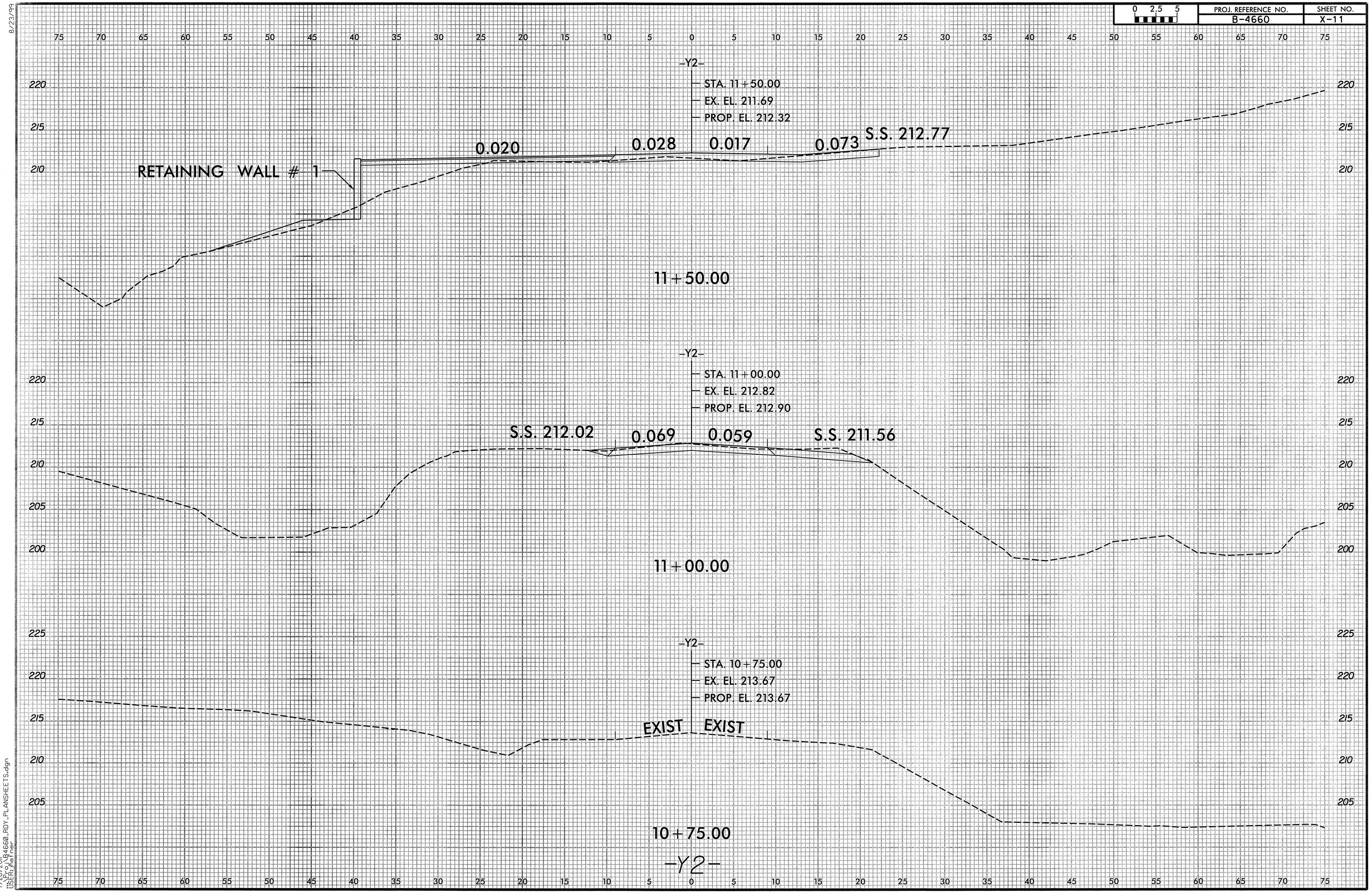

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8/23/99

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	B-4660	X-12

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

225 220 215 210 205 200

-MUP2-
STA. 10+32.78
EX. EL. 207.24
PROP. EL. 210.52

-Y2-
STA. 12+00.00
EX. EL. 211.87
PROP. EL. 213.14

48" RAIL
48" RAIL
0.020
0.020
.02
0.020
0.020
0.020
RETAINING WALL # 1
RETAINING WALL # 2
S.S. 213.07

12+00.00

-MUP2-
STA. 10+00.00
EX. EL. 208.95
PROP. EL. 211.79

-Y2-
STA. 11+63.38
EX. EL. 211.63
PROP. EL. 212.41

48" RAIL
0.020
0.020
0.009
0.032
RETAINING WALL # 1
S.S. 212.81

225 220 215 210 205 200 195

11+63.38

-Y2-

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

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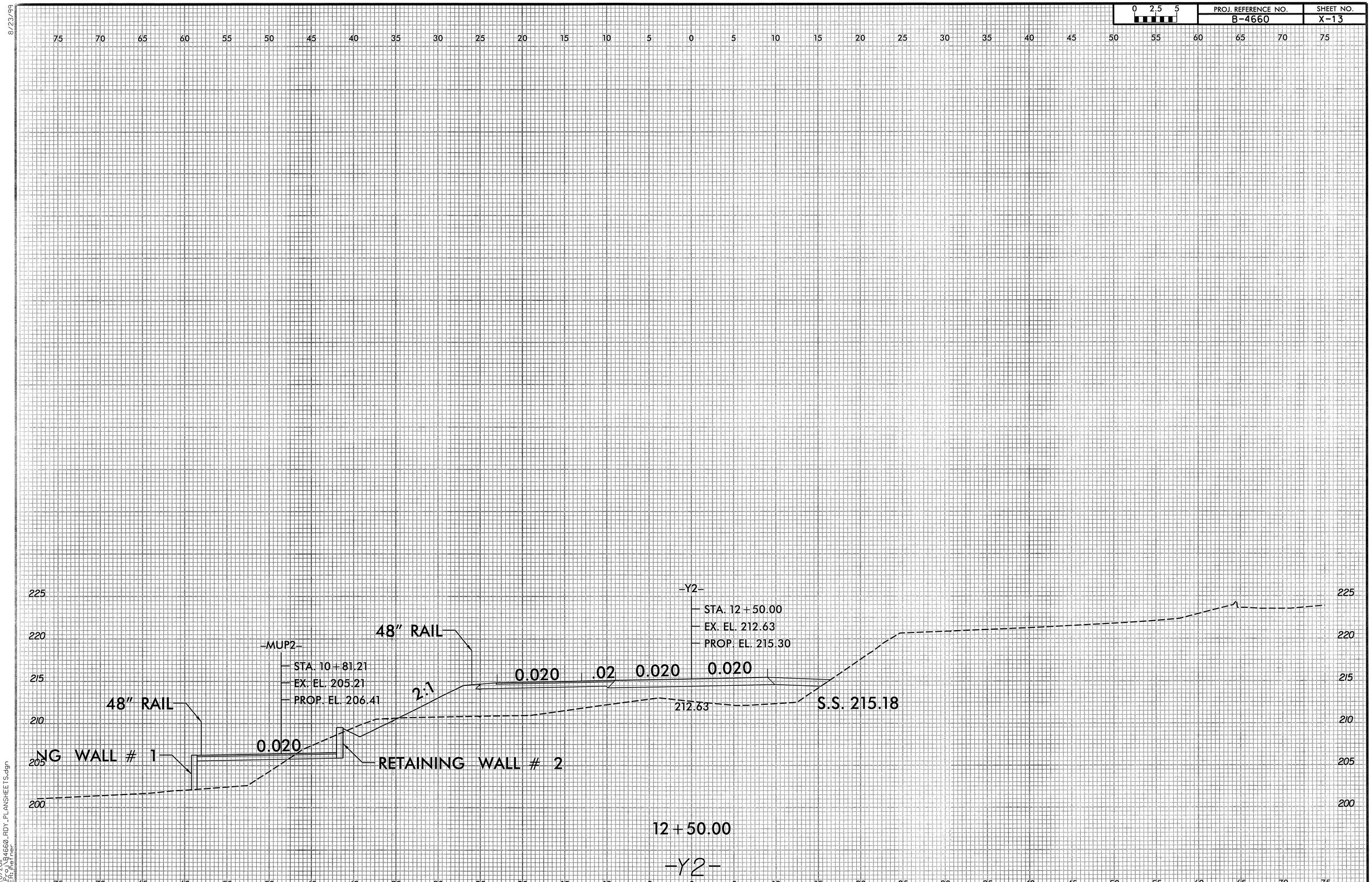

0 2.5 5
PROJ. REFERENCE NO.
B-4660
SHEET NO.
X-13
8/23/99
-Y2-
STA. 12+50.00
EX. EL. 212.63
PROP. EL. 215.30
48" RAIL
-MUP2-
STA. 10+81.21
EX. EL. 205.21
PROP. EL. 206.41
48" RAIL
0.020
.02
0.020
0.020
2:1
212.63
S.S. 215.18
0.020
NG WALL # 1
RETAINING WALL # 2
12+50.00
-Y2-
225
220
215
210
205
200
7/20/2011
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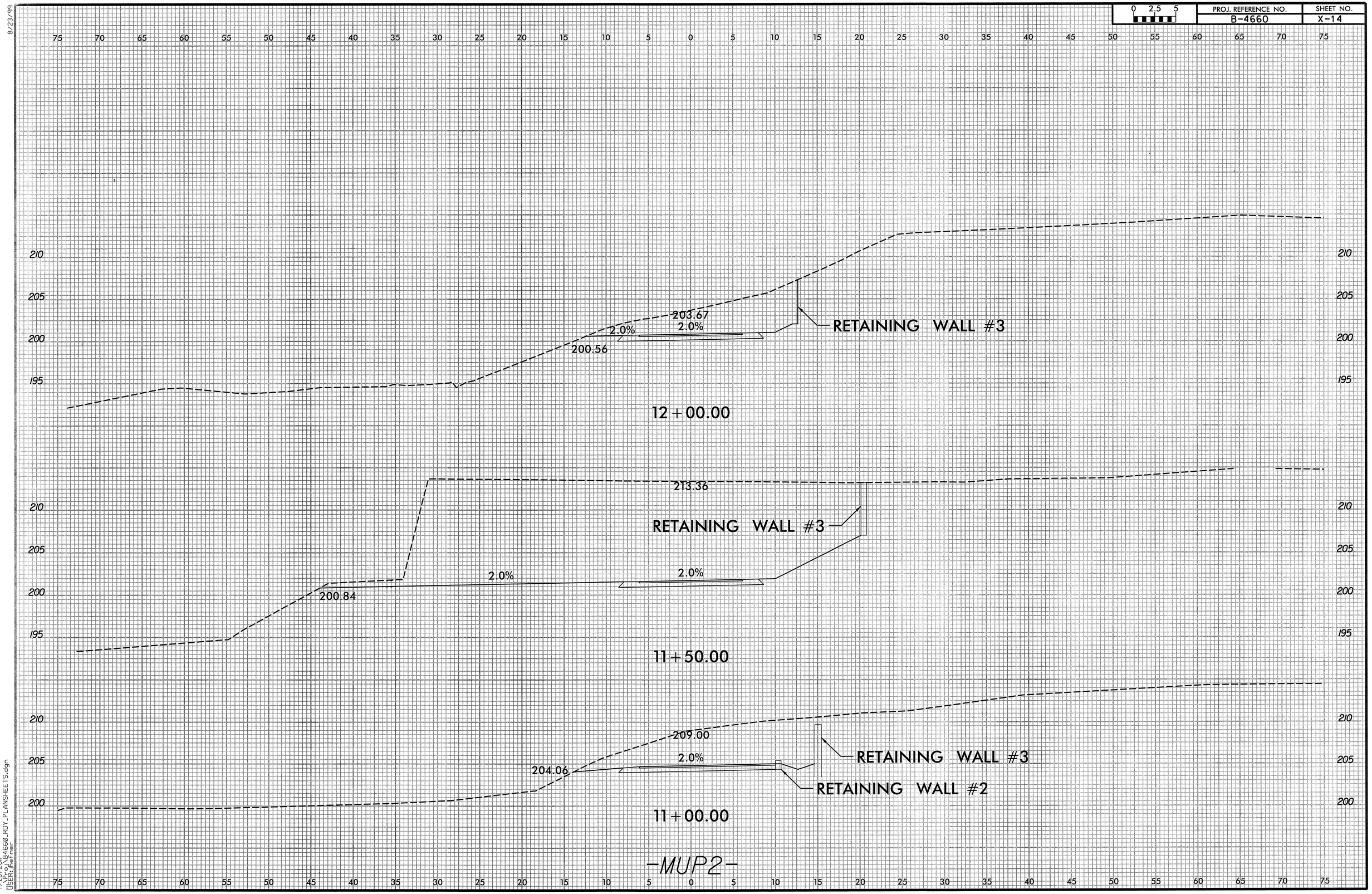

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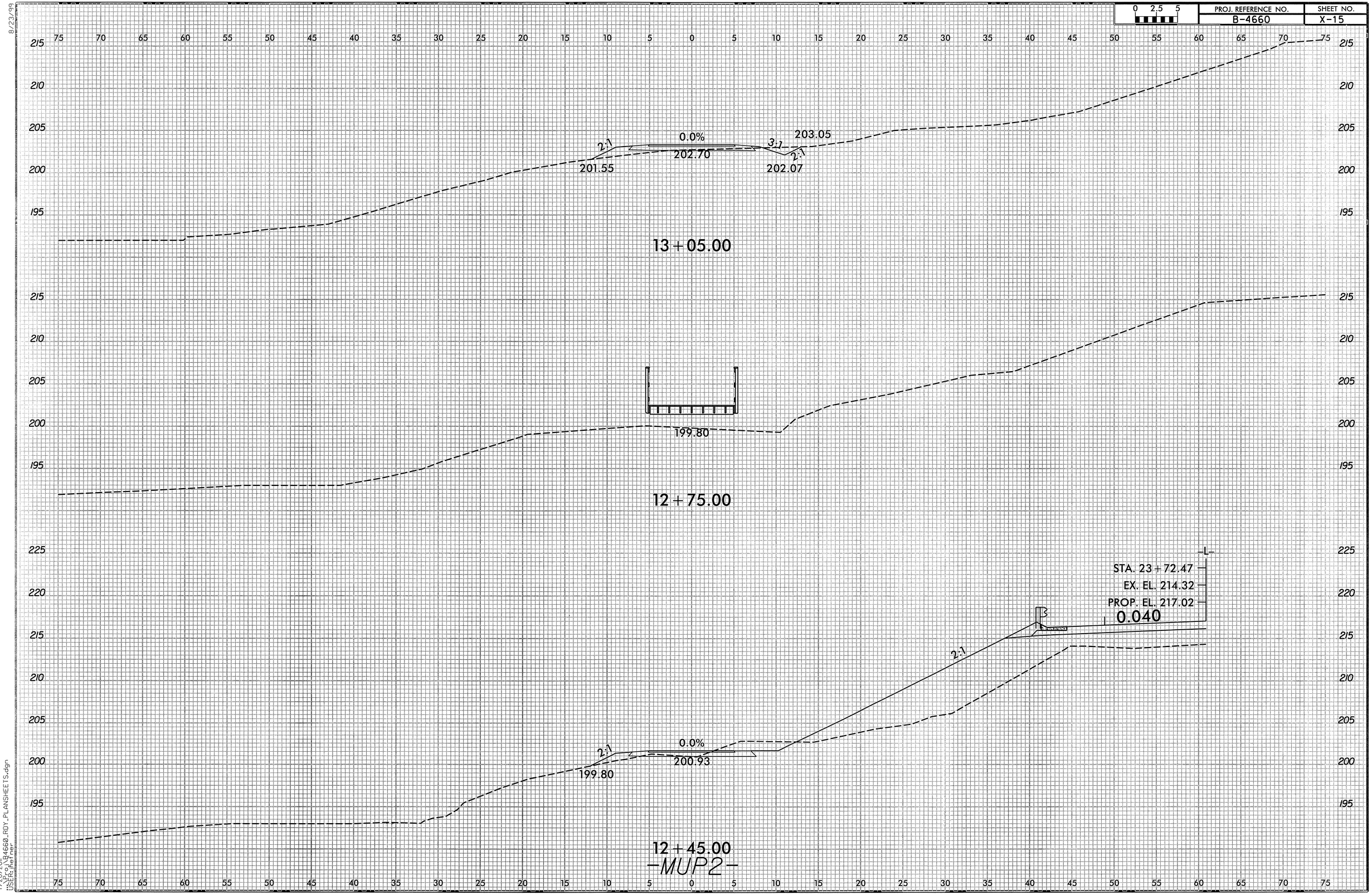

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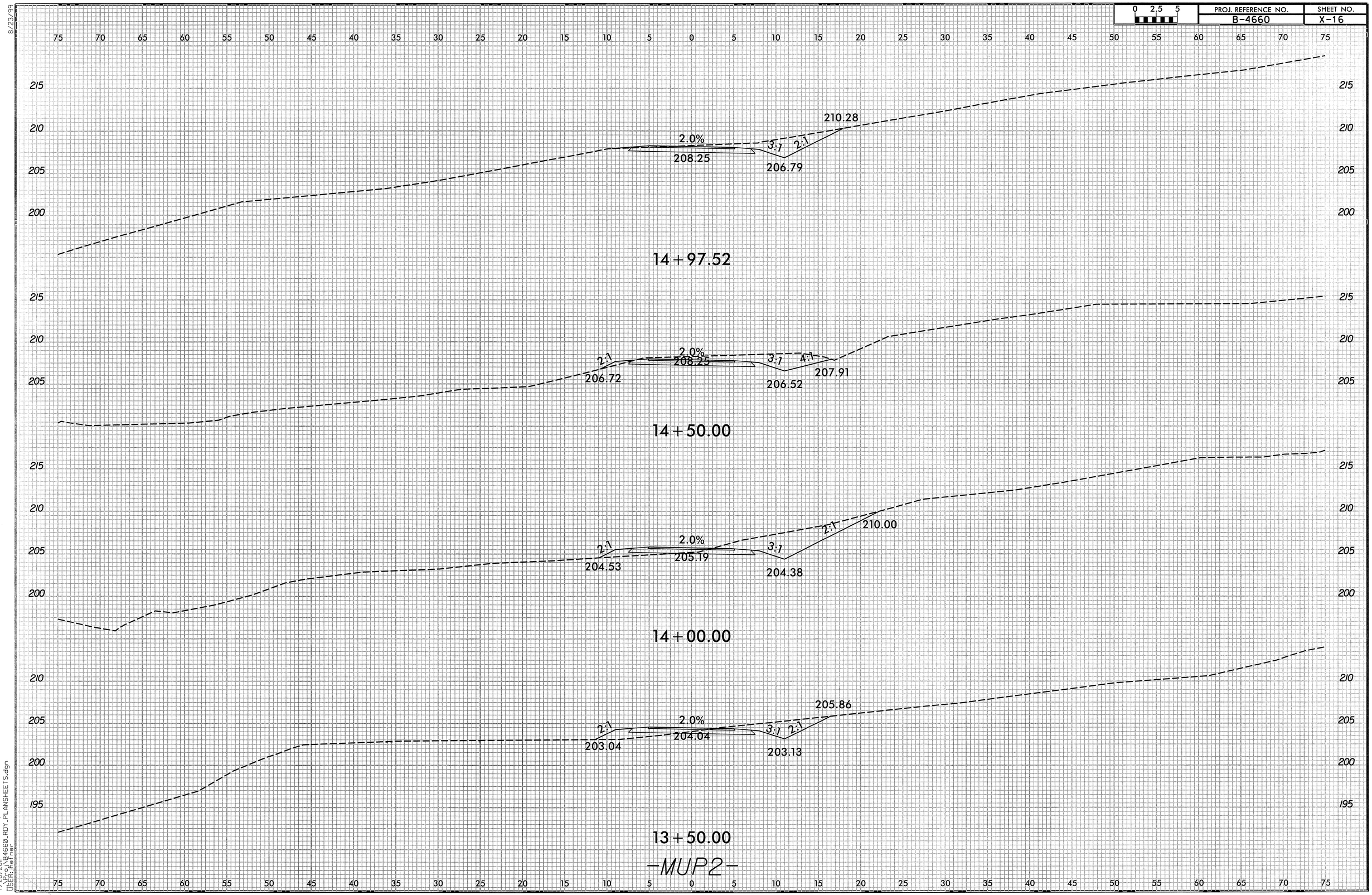

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