PROJ. REFERENCE NO.	SHEET NO.
B-4038	X-1

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

CROSS-SECTION SUMMARY

NOTE: EMBANKMENT COLUMN INCLUDES BACKFILL FOR UNDERCUT

Station	Uncl. Exc. (cu. yd.)	Embt (cu. yd.)
-L-		
15+79.18	0	0
16+00.00	0	0
16+50.00	1	8
17+00.00	5	32
17+50.00	7	473
18+00.00	12	1028
18+50.00	40	1103
19+00.00	69	906
19+50.00	685	557
20+00.00	4025	176
20+50.00	9015	0
21+00.00	7530	0
21+50.00	1955	277
21+70.00 (BEG. BRIDGE)	0	111
23+55.00 (END BRIDGE)	0	111
24+00.00	0	479
24+50.00	0	1025
25+00.00	0	906
25+50.00	0	747
26+00.00	0	421
26+50.00	12	113
27+00.00	21	30
27+50.00	22	9
28+00.00	14	6
28+50.00	0	0
28+51.10	0	0
TOTAL	**23413**	**8518**

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

RAMEY KEMP & ASSOCIATES, INC.
TRANSPORTATION ENGINEERS
www.rameykemp.com

0 5	PROJ. REFERENCE NO.	SHEET NO.	TOTAL SHEETS
	B-4038	X-2	

3200.50

0.0050 0.0050

3:1

EP EP

3198.8

STA. 16+50.00
EL. 3200.37

exist. exist.

STA. 16+00.00
EL. 3201.07

BEGIN PROJECT -L- STA. 15+79.18

-L-

0 5	PROJ. REFERENCE NO.	SHEET NO.	TOTAL SHEETS
	B-4038	X-3	

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

3230
3225
3220
3215
3210
3205
3200
3195
3190
3185
3180

3199.86

0.0192

0.0192

3:1

4.8:1

EP

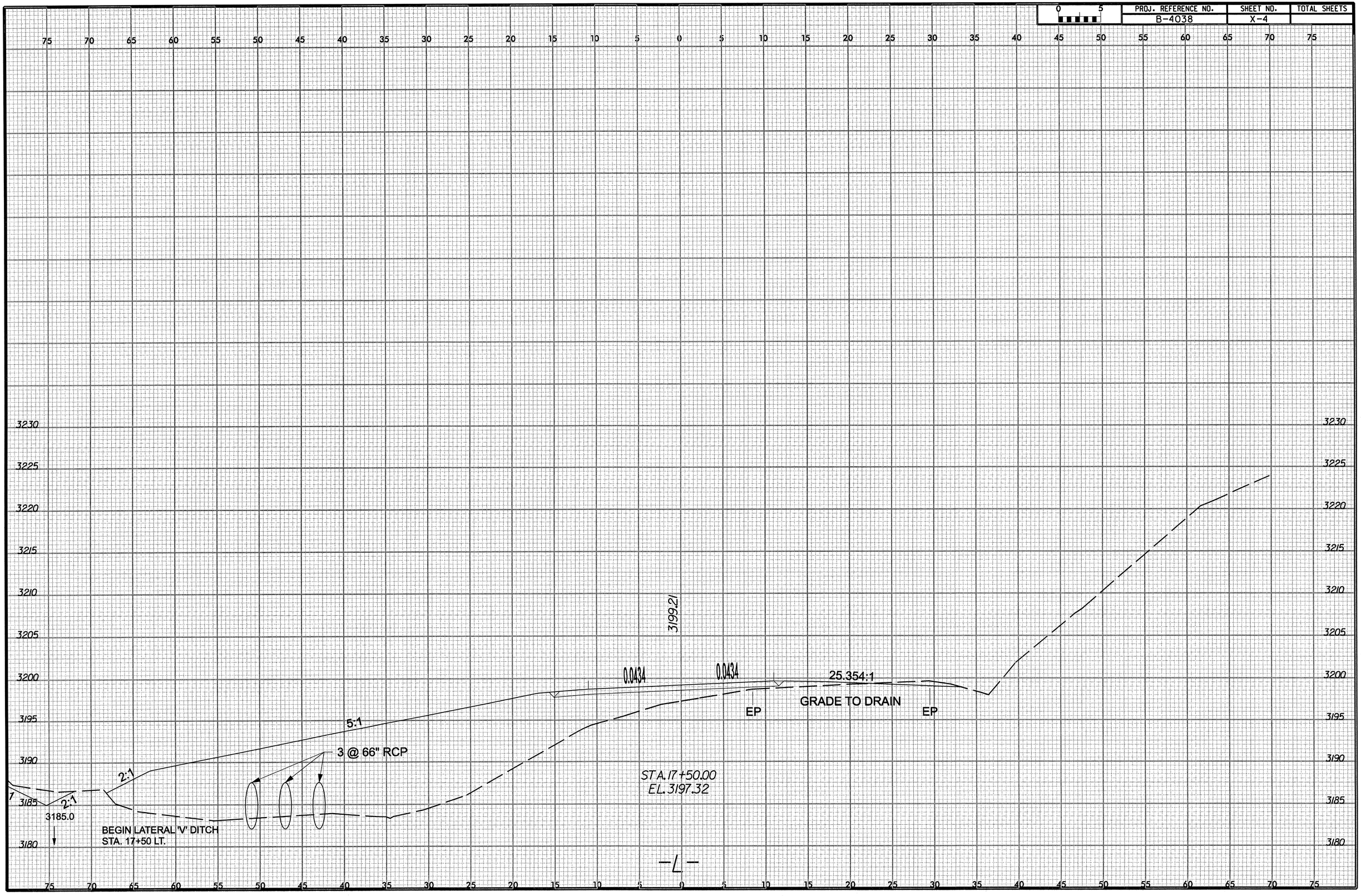
EP

3198.0

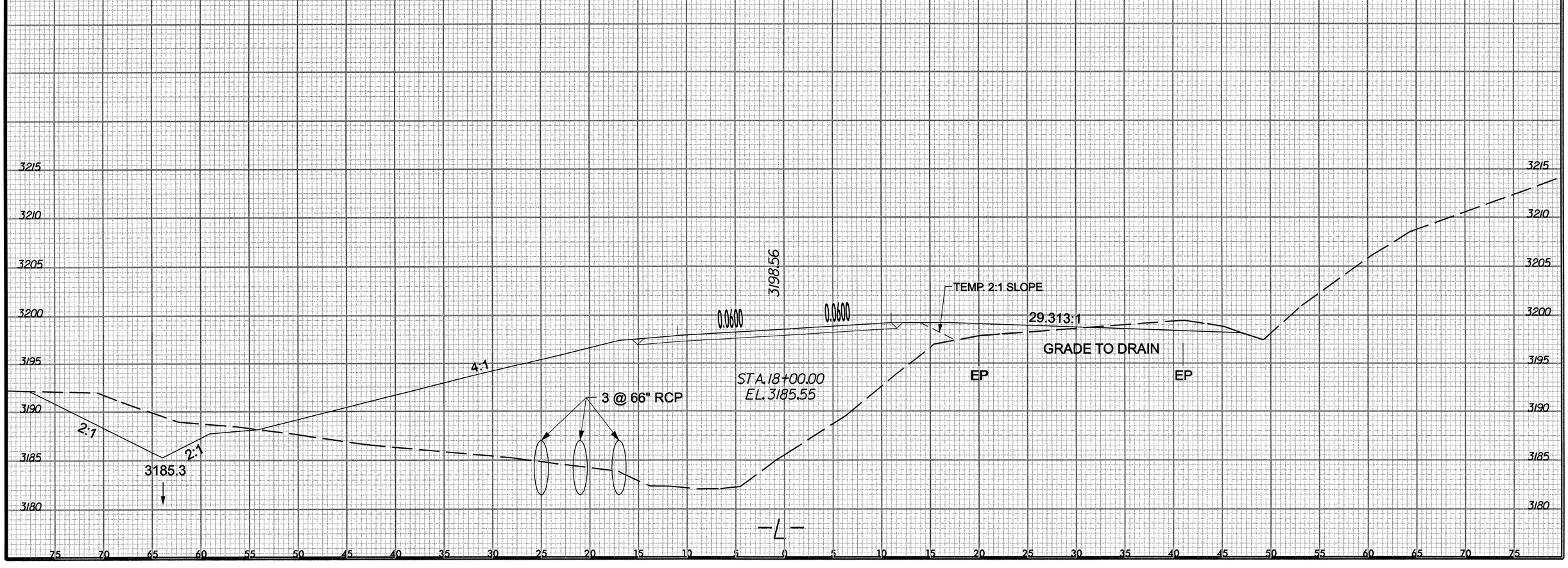
STA. 17+00.00
EL. 3199.65

—L—

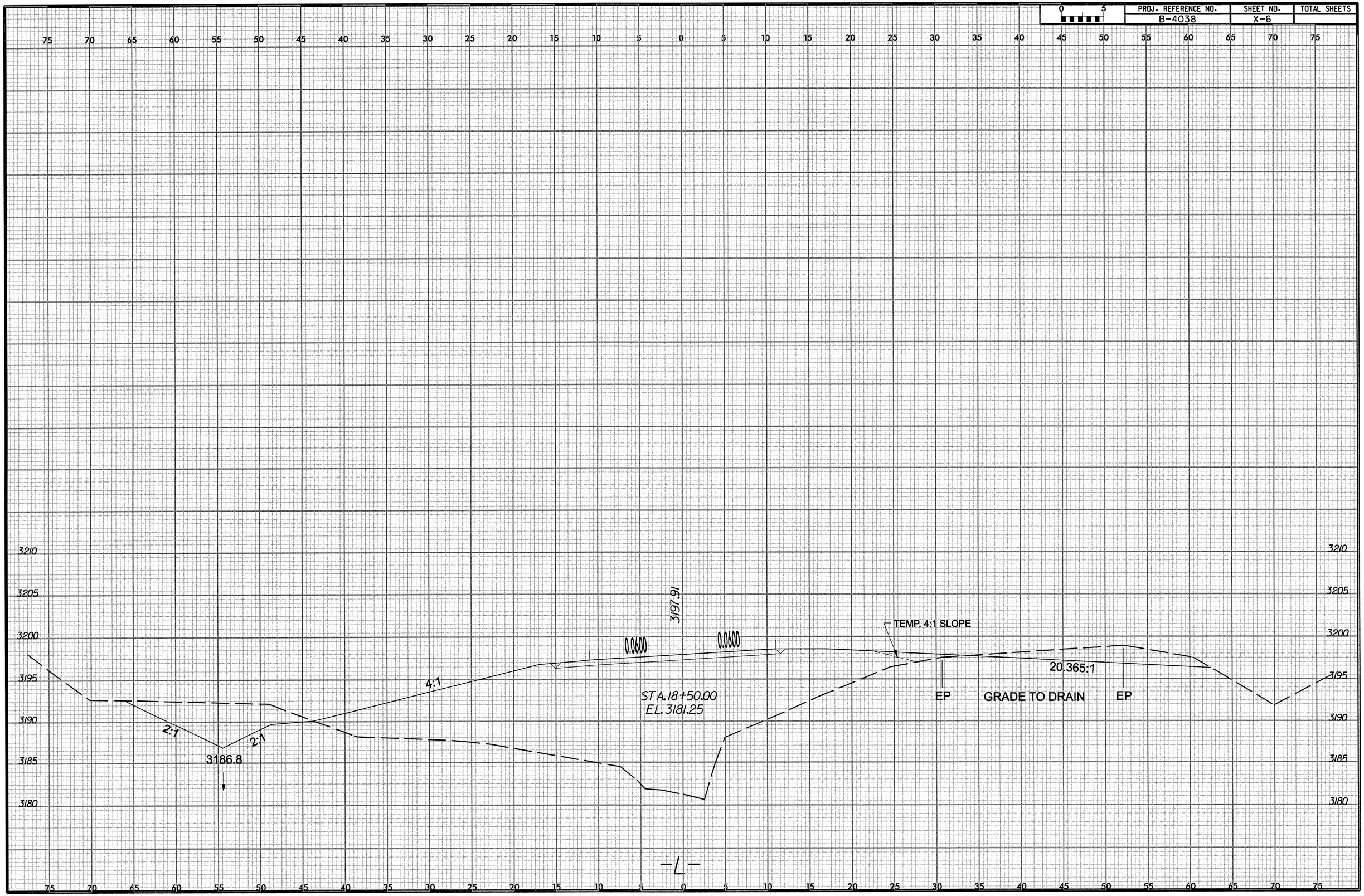
0 5	PROJ. REFERENCE NO.	SHEET NO.	TOTAL SHEETS
	B-4038	X-4	



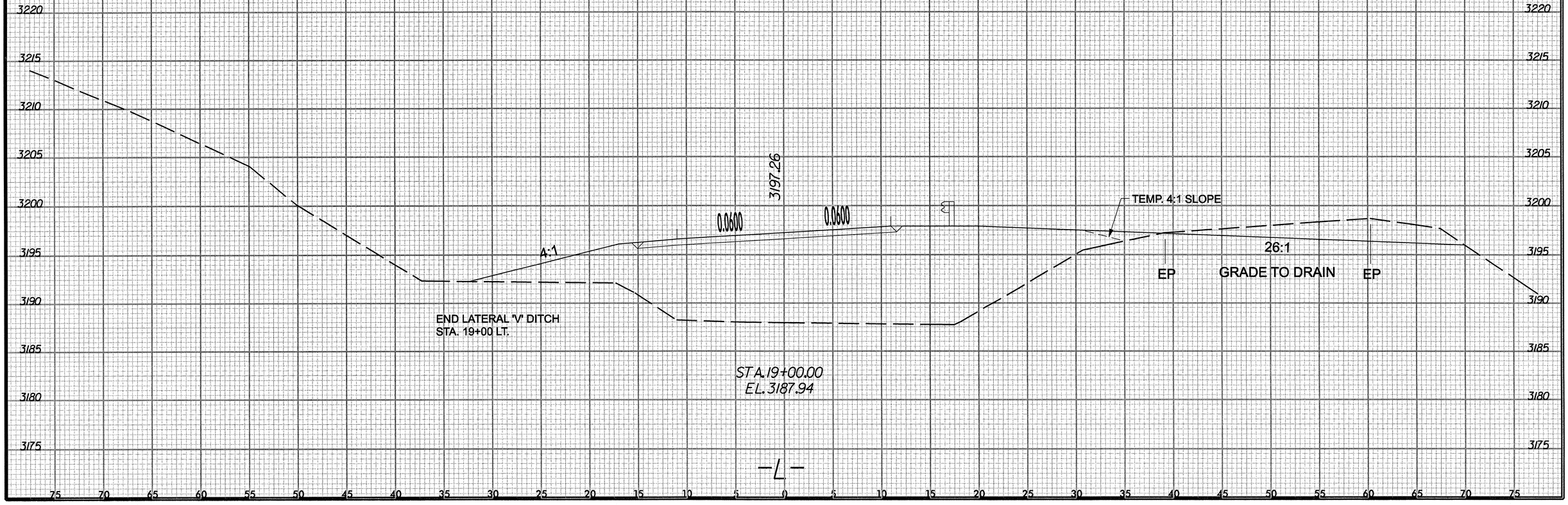
0 5	PROJ. REFERENCE NO.	SHEET NO.	TOTAL SHEETS
	B-4038	X-5	



0 5	PROJ. REFERENCE NO.	SHEET NO.	TOTAL SHEETS
	B-4038	X-6	



0 5	PROJ. REFERENCE NO.	SHEET NO.	TOTAL SHEETS
	B-4038	X-7	



0 5	PROJ. REFERENCE NO.	SHEET NO.	TOTAL SHEETS
	B-4038	X-8	

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

3255 3250 3245 3240 3235 3230 3225 3220 3215 3210 3205 3200 3195 3190 3185 3180

A

A

1.5:1

1.5:1

3196.62

0.0600

0.0600

4:1

TEMP. 4:1 SLOPE

29:1

EP GRADE TO DRAIN EP

STA. 19+50.00
EL. 3193.45

-L-

PROJ. REFERENCE NO.	SHEET NO.	TOTAL SHEETS
B-4038	X-9	

0 5

1.5:1

1.5:1

3196.10

0.05↑ 0.05↑

4:1

13:1

EP

EP

STA. 20+00.00
EL. 3219.38

—L—

0 5	PROJ. REFERENCE NO.	SHEET NO.	TOTAL SHEETS
	B-4038	X-10	

1.5:1

1.5:1

0.027

0.027

3195.76

4:1

4:1

4.785:1

3192.743

3193.760

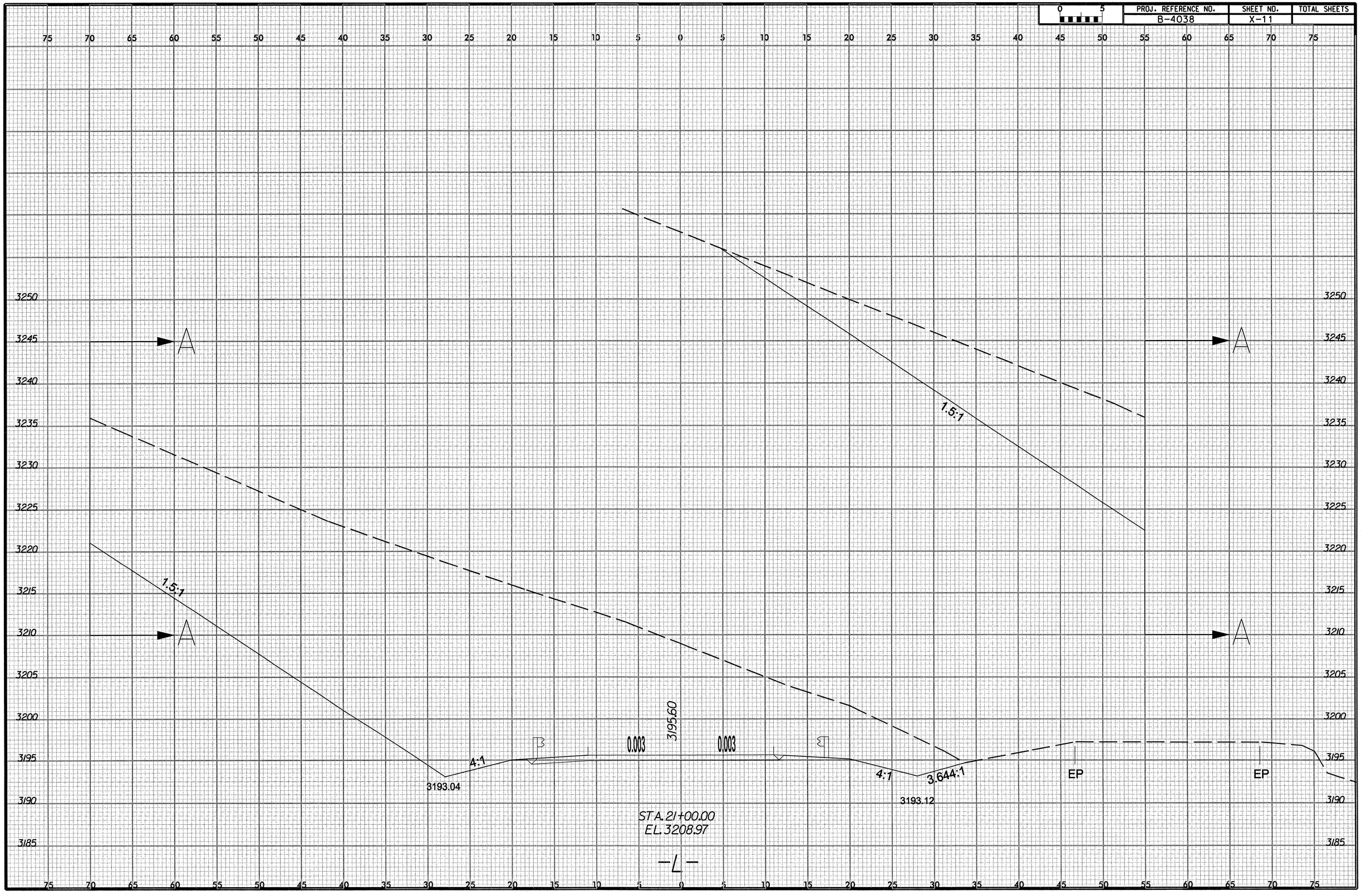
EP

EP

STA 20+50.00
EL. 3230.67

-L-

0 5	PROJ. REFERENCE NO.	SHEET NO.	TOTAL SHEETS
	B-4038	X-11	



PROJ. REFERENCE NO.	SHEET NO.	TOTAL SHEETS
B-4038	X-12	

0 5

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

3200 3195 3190 3185 3180 3175 3170

0.0200 0.0200

2:1

2:1

3184.8

END LATERAL 'V' DITCH
STA. 22+00 LT.

ST A. 22+00.00
EL. 3177.73

3220 3215 3210 3205 3200 3195 3190 3185 3180 3175

BEGIN BRIDGE -L- ST A. 21+70.00

3195.63

0.0200 0.0200

2:1

4:1

3193.1

2:1

BEGIN LATERAL 'V' DITCH
STA. 21+50 LT.

ST A. 21+50.00
EL. 3191.54

-L-

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

0 5	PROJ. REFERENCE NO.	SHEET NO.	TOTAL SHEETS
	B-4038	X-13	

0.0200 0.0200

STA. 23+00.00
EL. 3173.76

2:1 2:1

3181.0

BEGIN LATERAL 'V' DITCH
STA. 23+00 RT.

0.0200 0.0200

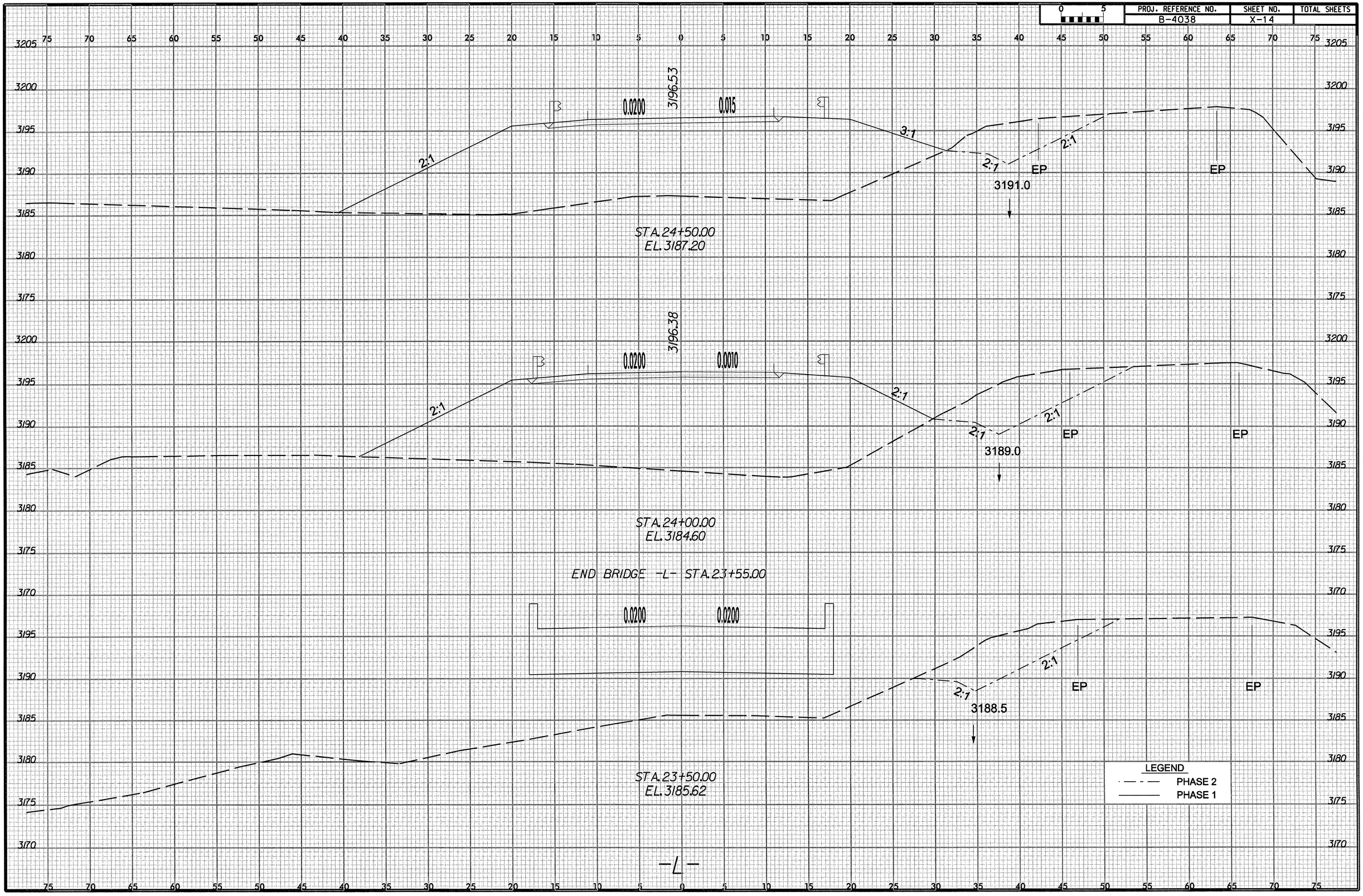
STA. 22+50.00
EL. 3171.58

LEGEND

PHASE 2

-L-

0 5	PROJ. REFERENCE NO.	SHEET NO.	TOTAL SHEETS
	B-4038	X-14	



0 5	PROJ. REFERENCE NO.	SHEET NO.	TOTAL SHEETS
	B-4038	X-15	

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

3205 3200 3195 3190 3185 3180 3175

3196.99

0.0600 0.0505

3:1 4:1 2:1

EP 3195.5 EP

STA. 26+00.00
EL. 3194.57

3196.84

0.0600 0.0600

2:1 4:1 2:1

3194.0 EP EP

STA. 25+50.00
EL. 3188.13

END SPECIAL LATERAL 'V' DITCH
STA. 25+50 RT.

3196.69

0.039 0.039

2:1 4:1 2:1

3193.0 EP EP

STA. 25+00.00
EL. 3187.66

END LATERAL 'V' DITCH
BEGIN SPECIAL LATERAL 'V' DITCH
STA. 25+00 RT.

LEGEND
PHASE 2
PHASE 1

-L-

0 5	PROJ. REFERENCE NO.	SHEET NO.	TOTAL SHEETS
	B-4038	X-16	

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

3205 3200 3195 3190 3185 3180 3175

3197.45

0.0192 0.0211

4:1

EP EP

STA. 27+50.00
EL. 3197.32

3200 3195 3190 3185 3180 3175

3197.29

0.0434 0.0028

EP EP

STA. 27+00.00
EL. 3196.58

3200 3195 3190 3185 3180 3175

3197.14

TEMP. 2:1 SLOPE

B

0.0600 0.0286

4:1 4:1 2:1

3195.2

EP EP

STA. 26+50.00
EL. 3195.38

3200 3195 3190 3185 3180 3175

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

—L—

0 5	PROJ. REFERENCE NO.	SHEET NO.	TOTAL SHEETS
	B-4038	X-17	

END PROJECT -L- STA. 28+51.10

exist. exist.

STA. 28+50.00
EL. 3197.66

3197.60

4:1

exist. exist.

EP EP

STA. 28+00.00
EL. 3197.49

-L-