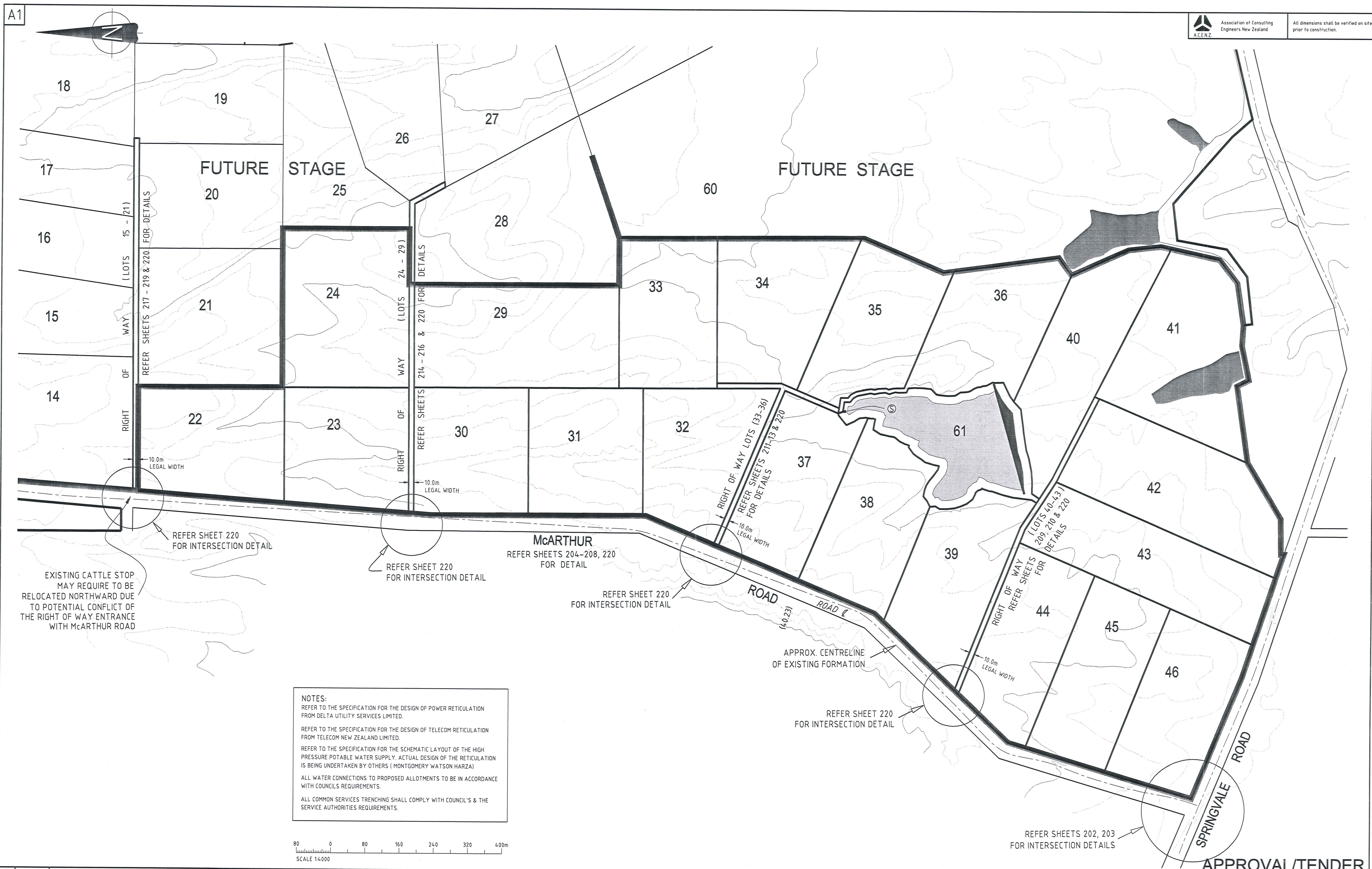
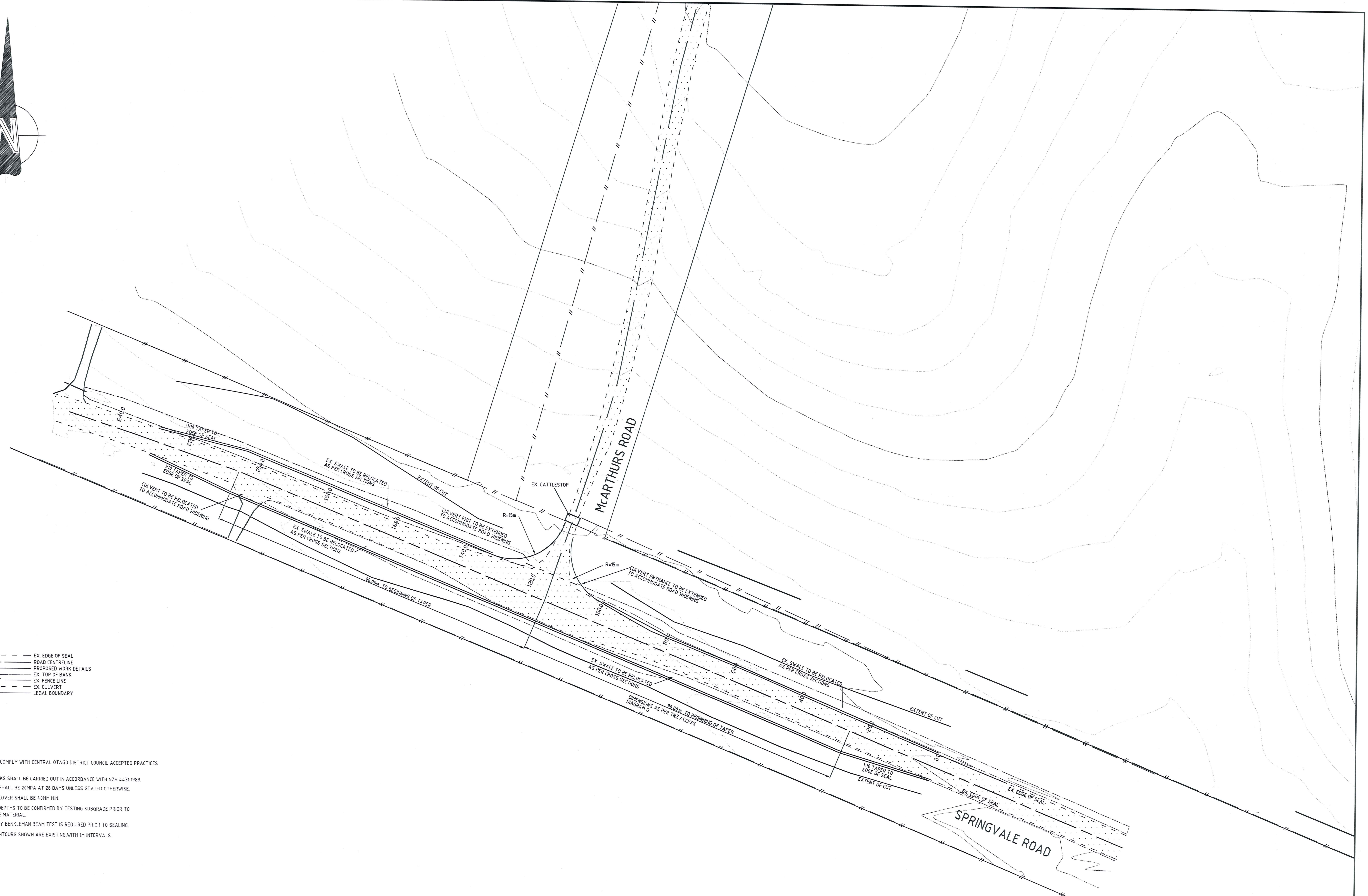




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EX. EDGE OF SEAL
ROAD CENTRELINE
PROPOSED WORK DETAILS
EX. TOP OF BANK
EX. FENCE LINE
EX. CULVERT
LEGAL BOUNDARY

- ALL WORKS TO COMPLY WITH CENTRAL OTAGO DISTRICT COUNCIL ACCEPTED PRACTICES FOR SUBDIVISION.
- ALL EARTHWORKS SHALL BE CARRIED OUT IN ACCORDANCE WITH NZS 4431:1989
- ALL CONCRETE SHALL BE 20MPA AT 28 DAYS UNLESS STATED OTHERWISE.
- ALL CONCRETE COVER SHALL BE 40MM MIN.
- METALCOURSE DEPTHS TO BE CONFIRMED BY TESTING SUBGRADE PRIOR TO PLACING SUBBASE MATERIAL.
- A SATISFACTORY BENCHMARK BEAM TEST IS REQUIRED PRIOR TO SEALING.
- UNDERLYING CONTOURS SHOWN ARE EXISTING WITH 1m INTERVALS.

Connell Wagner Limited
Level 4, Torrens House 195 Hereford St.
(P.O. Box 1061) Christchurch New Zealand

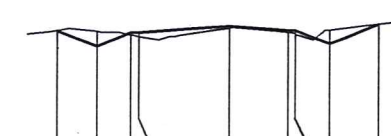
Telephone: +64 3 366 0821
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Email: cwchc@conwag.com

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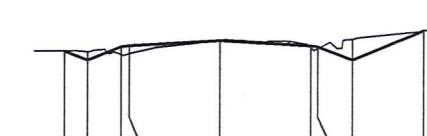
21522\60\dwg\1522-202

01				
Rev.	Date	Revision Details	Bv	Ver.



DATUM230	
FINISHED SURFACE	234.09 234.66 234.11 234.13 234.31 234.17 234.72 234.37
Cut Fill	0 0 0.49 -0.09 -0.14 0 0.06 0
NATURAL SURFACE	234.19 234.13 234.08 234.36 234.25 234.15 234.18 234.37
OFFSET FROM CL	-1.38 -8.75 -6.5 0 3.21 4.41 6.66 9.91

CH 60



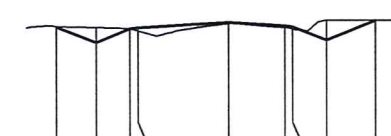
DATUM230	
FINISHED SURFACE	233.47 233.18 233.64 233.82 233.63 233.64 233.18 234.13
Cut Fill	0 0.27 -0.28 -0 0.06 -0.06 0.68 0
NATURAL SURFACE	233.45 233.45 233.34 233.36 233.82 233.59 233.85 234.13
OFFSET FROM CL	-10.24 -8.75 -6.5 0 6.5 8.75 13.5

CH 140



DATUM229	
FINISHED SURFACE	232.41 232.41 232.56 232.7 232.69 232.65 232.1 234.21
Cut Fill	0 0.37 -0.06 -0.01 0.03 0.01 0.76 0
NATURAL SURFACE	232.41 232.41 232.55 232.51 232.69 232.54 232.86 234.21
OFFSET FROM CL	-9.76 -9.24 -4.95 -4.45 0 4.68 7.23 17.77

CH 220



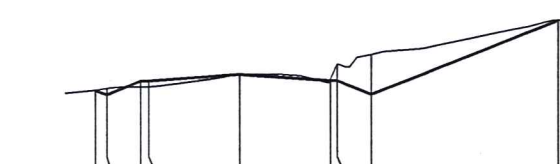
DATUM230	
FINISHED SURFACE	234.44 234.44 233.92 234.37 234.56 234.44 234.44 234.63
Cut Fill	0 0.48 -0.02 -0.1 0.04 -0.06 0.64 0
NATURAL SURFACE	234.44 234.4 234.32 234.63 234.52 234.34 234.63 234.63
OFFSET FROM CL	-11.37 -8.75 -6.5 0 3.74 2.24 6.49 9.72

CH 40



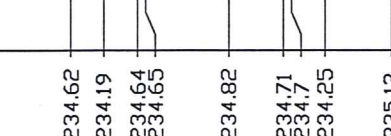
DATUM230	
FINISHED SURFACE	233.53 233.53 233.69 233.87 233.86 233.86 233.86 234.63
Cut Fill	0.24 -0.28 -0.01 0 0 0 0 0
NATURAL SURFACE	233.49 233.49 233.49 233.86 233.86 233.86 233.86 234.63
OFFSET FROM CL	-8.96 -6.5 -6.5 0 0 0 0 0

CH 120



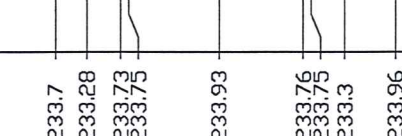
DATUM229	
FINISHED SURFACE	232.56 232.56 232.81 232.99 232.81 232.81 232.81 234.81
Cut Fill	0.18 -0.21 0 0 0.03 0.03 0.13 0
NATURAL SURFACE	232.53 232.53 232.51 233 232.84 232.81 232.81 234.81
OFFSET FROM CL	-8.96 -6.5 -6.5 0 6.5 8.75 21.05

CH 200



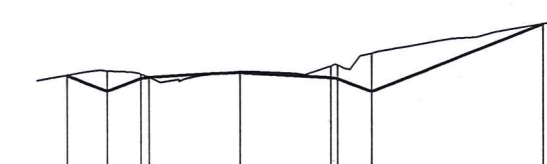
DATUM231	
FINISHED SURFACE	234.62 234.19 234.54 234.65 234.82 234.71 234.25 235.12
Cut Fill	0 0.32 -0.24 -0.29 0.01 0.01 0.77 0
NATURAL SURFACE	234.62 234.51 234.47 234.63 234.81 234.65 235.02 235.12
OFFSET FROM CL	-10.43 -8.27 -6.02 -5.52 0 3.63 4.13 6.38

CH 20



DATUM230	
FINISHED SURFACE	233.7 233.28 233.73 233.93 233.76 233.76 233.33 233.96
Cut Fill	0 0.5 0.06 -0.15 0.02 0.02 0.51 0
NATURAL SURFACE	233.7 233.78 233.67 233.6 233.9 233.78 233.75 233.96
OFFSET FROM CL	-10.83 -8.75 -6.5 -6.5 0 2.55 8.3 11.65

CH 100



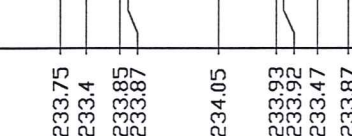
DATUM229	
FINISHED SURFACE	233.18 232.63 233.11 233.29 233.11 233.11 232.63 234.91
Cut Fill	0 0.69 0.01 0.02 0.02 0.02 1.28 0
NATURAL SURFACE	233.18 233.33 233.22 233.12 233.32 233.32 233.93 234.91
OFFSET FROM CL	-11.41 -8.75 -6.5 -6.5 0 6.5 8.75 20.08

CH 180



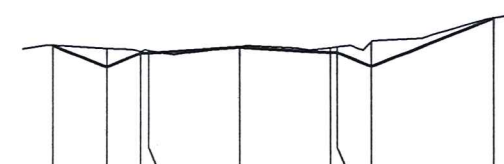
DATUM231	
FINISHED SURFACE	234.84 234.52 234.97 234.99 234.98 234.97 234.5 235.62
Cut Fill	0 0.17 -0.11 -0.08 0.01 0.01 0.73 0
NATURAL SURFACE	234.84 234.69 234.87 234.9 234.99 234.98 234.97 235.62
OFFSET FROM CL	-7.25 -5.75 -3.5 0 3.61 4.11 6.36 11.92

CH 0



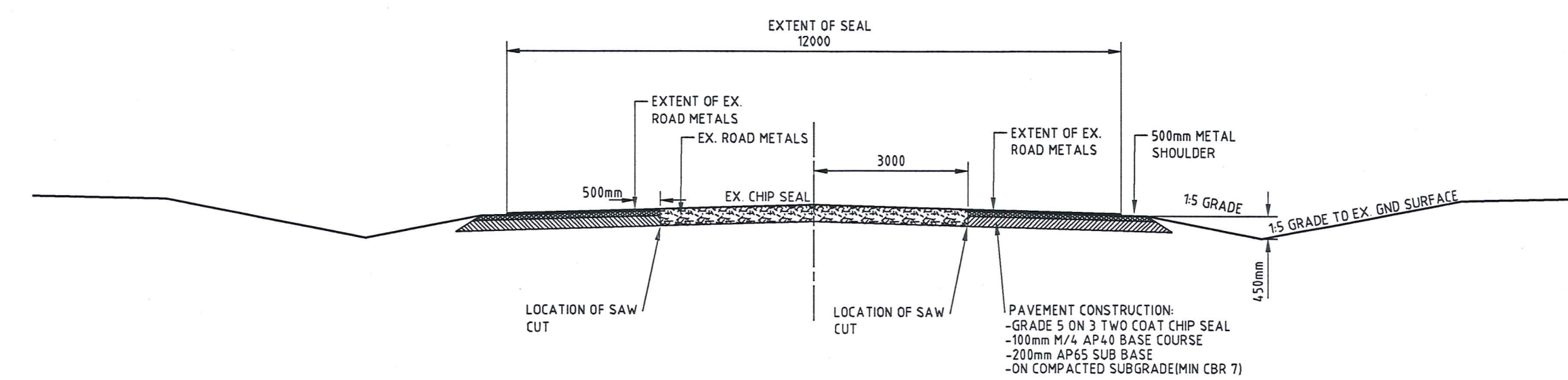
DATUM230	
FINISHED SURFACE	233.75 233.4 233.87 233.87 234.05 233.93 233.93 233.87
Cut Fill	0 0.4 -0.11 0 0.03 0.03 0.25 0
NATURAL SURFACE	233.75 233.61 233.71 233.71 234.03 233.86 233.87 233.87
OFFSET FROM CL	-10.47 -8.75 -6.5 -6.5 0 3.3 6.55 8.56

CH 80



DATUM229	
FINISHED SURFACE	233.65 232.94 233.41 233.59 233.41 233.39 232.94 234.55
Cut Fill	0 0.62 0.07 0 0.15 0.15 0.81 0
NATURAL SURFACE	233.65 233.56 233.46 233.59 233.55 233.55 233.75 234.55
OFFSET FROM CL	-12.3 -8.75 -6.5 -6.5 0 6.5 8.75 16.8

CH 160



TYPICAL CROSS SECTION OF
SPRINGVALE RD AND McARTHUR RD
INTERSECTION WIDENING
SCALE 1:100

SPRINGVALE ROAD CROSS SECTIONS

SCALE HZ 1:500 @ A1
VT 1:250 @ A1

APPROVAL/TENDER

Rev.	Date	Revision Details	By	Ver.	App.
01					

Connell Wagner

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Level 4, Torrens House 195 Hereford St.
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CENTRAL OTAGO
PINOT NOIR ESTATES
LIMITED

Project:

McARTHUR RIDGE
PINOT NOIR HOLDINGS

Surveyed	Signed	Date
Drawn	Signed DM	Date 04-03
Designed	Signed DM	Date 04-03
Verified	Signed JD	Date 04-03
Approved	Signed JD	Date 04-03

Drawing Title:

PROPOSED McARTHUR RD &
SPRINGVALE RD INTERSECTION
DESIGN CROSS SECTIONS
AND TYPICAL CROSS SECTION

CW Project No.

21522

Scale

AS SHOWN @ A1

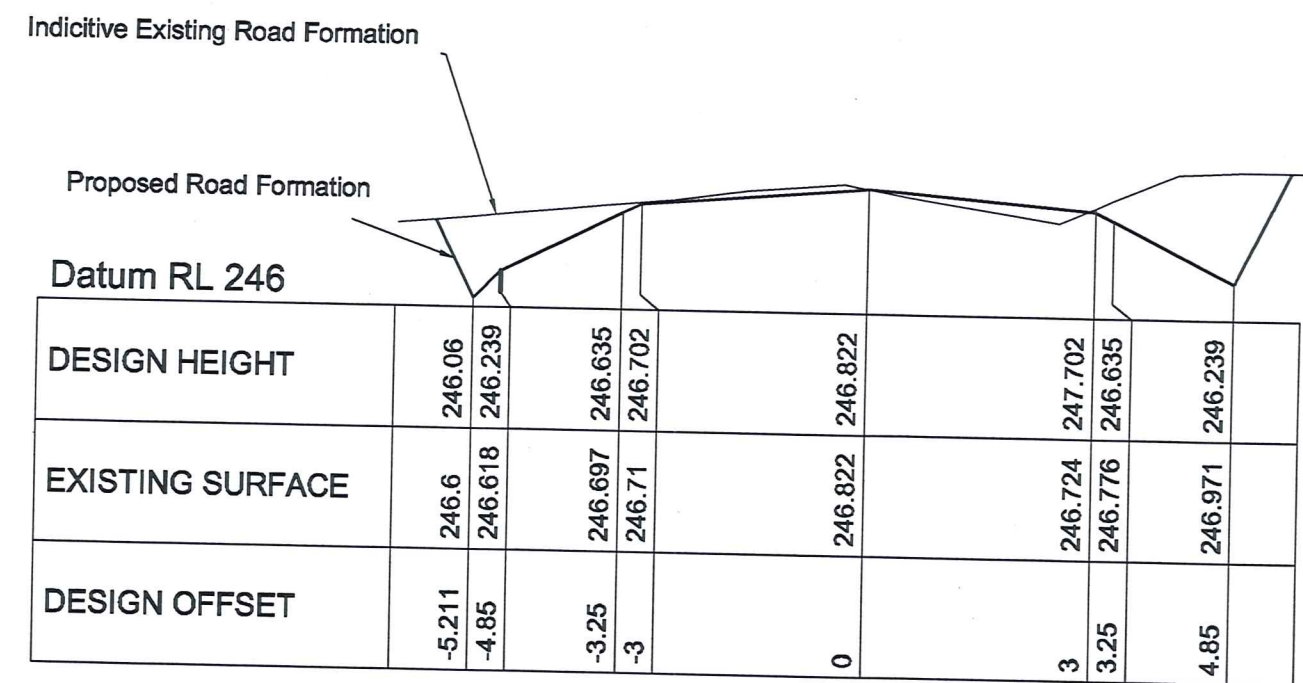
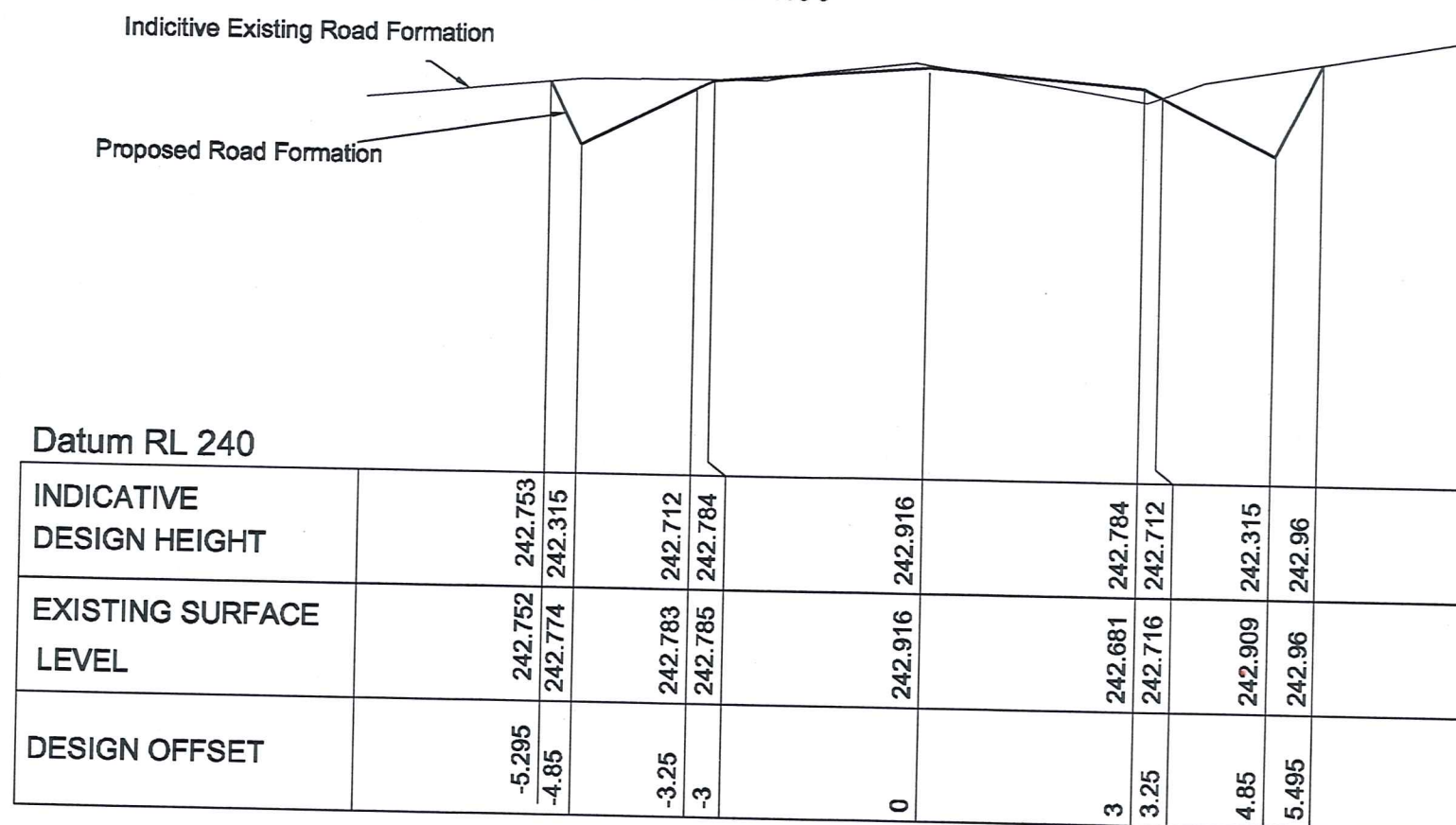
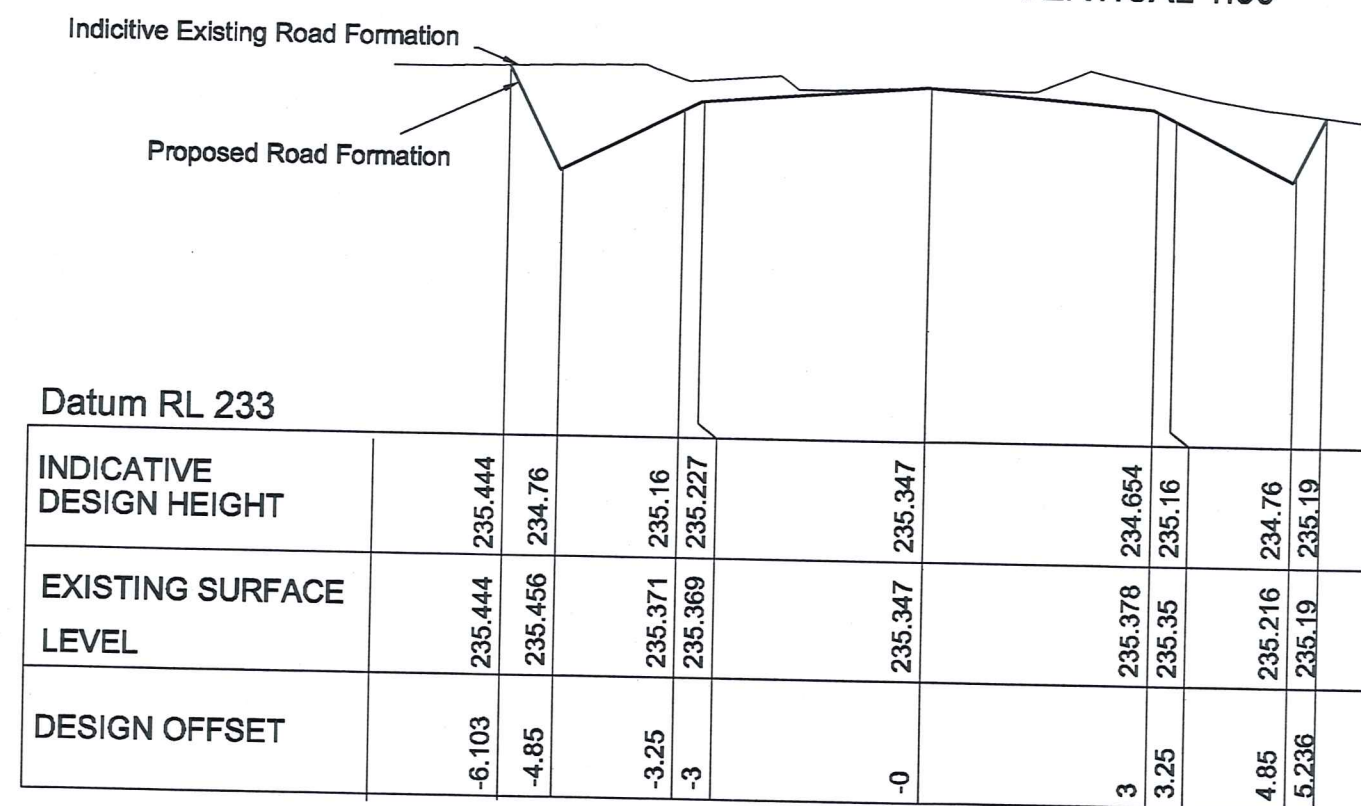
Drawing No.

Rev.

203

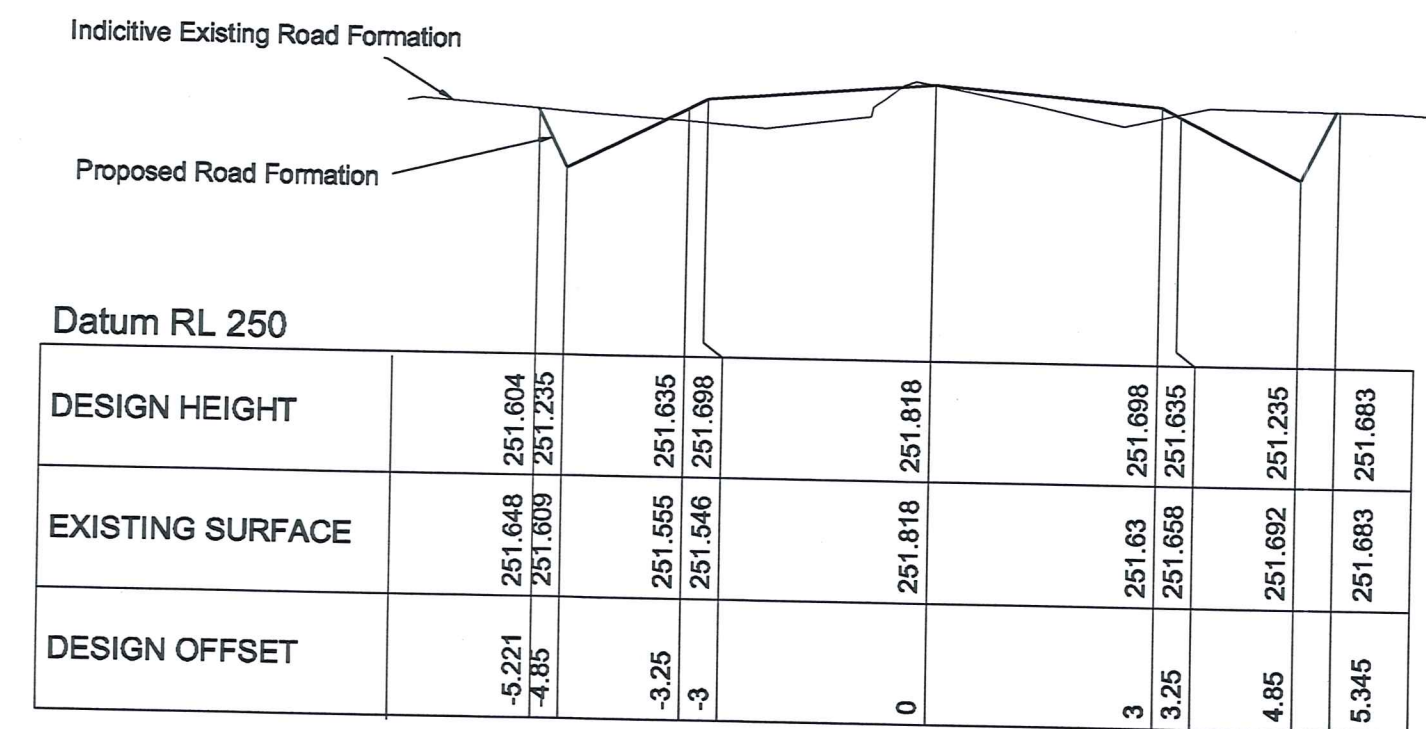
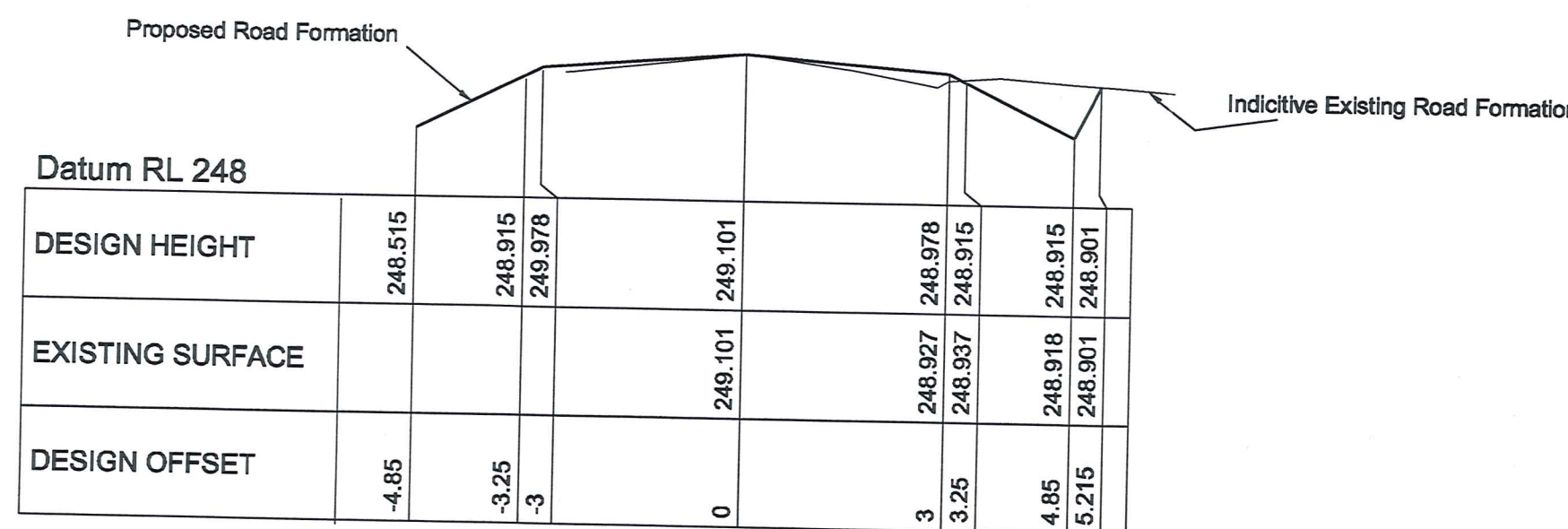
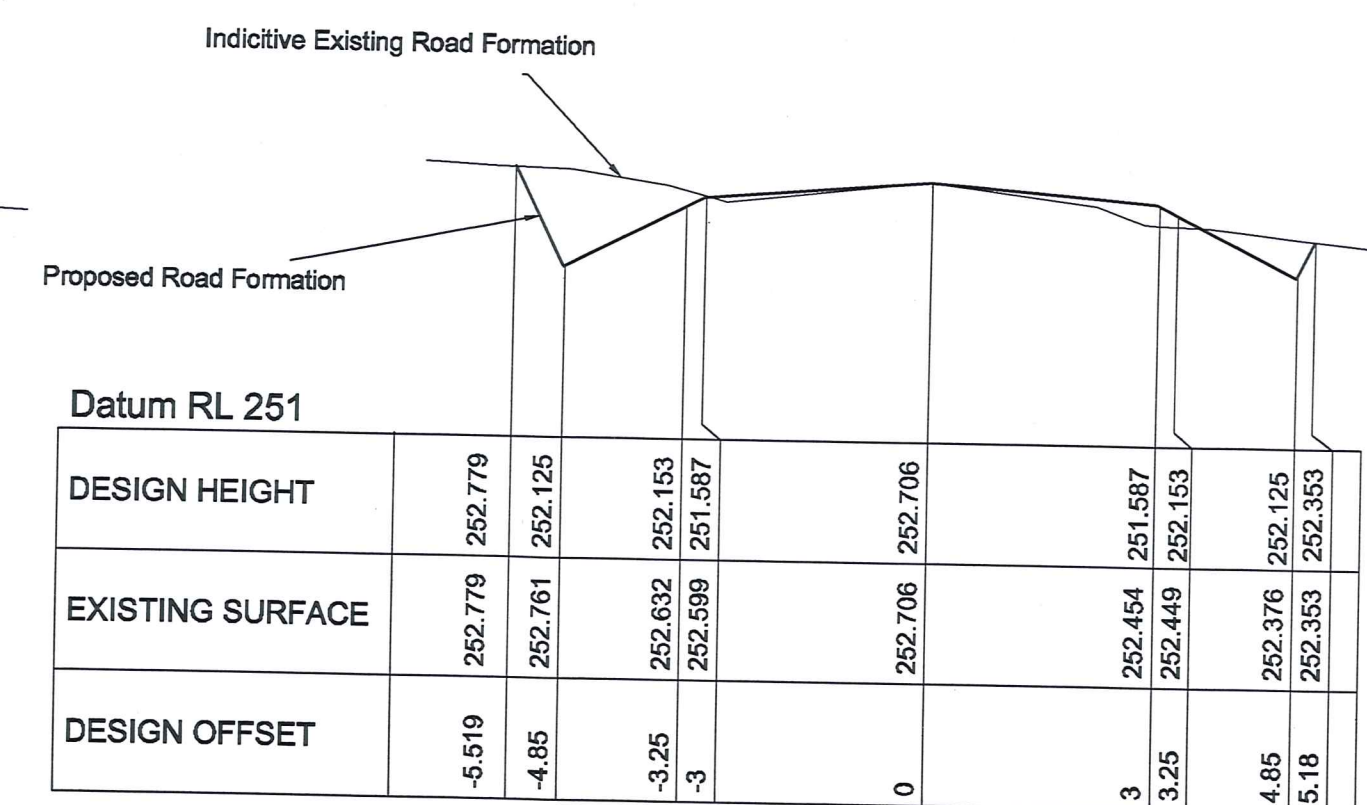
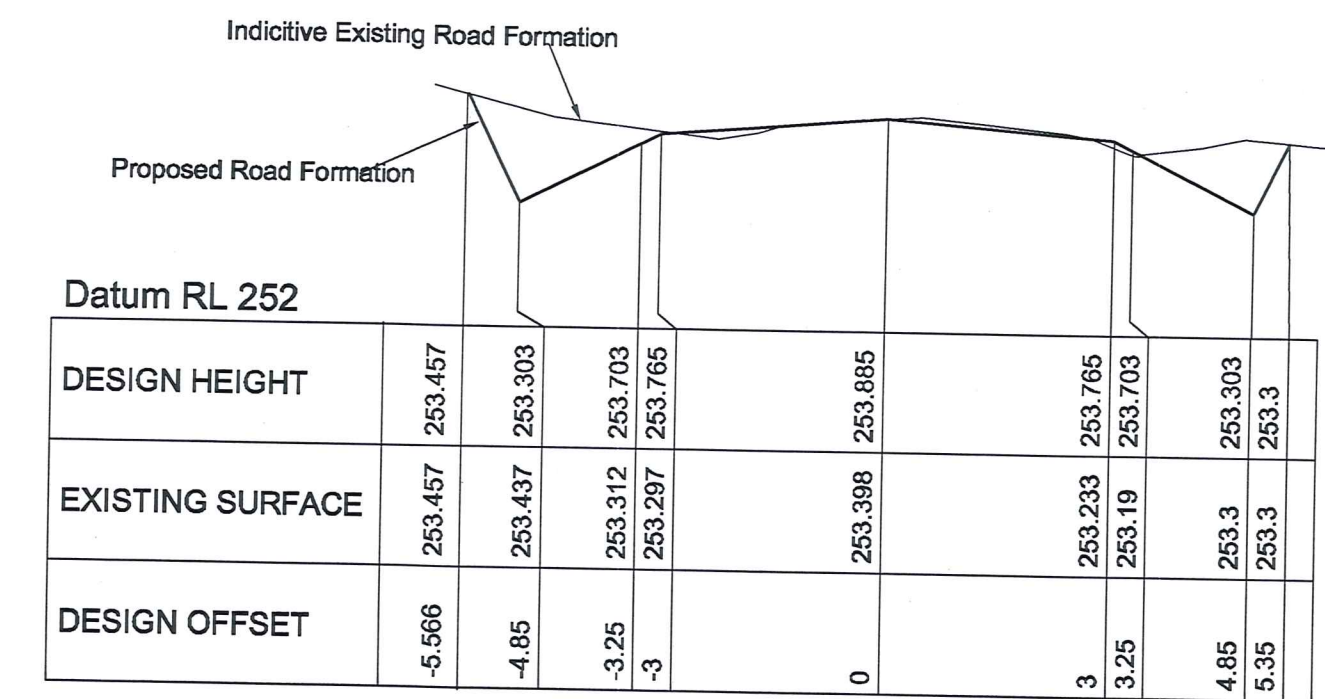
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g:\21522\A1\Drawings\21522-215

CHAINAGE 200.
HORIZONTAL 1:100
VERTICAL 1:50CHAINAGE 100. HORIZONTAL 1:100
VERTICAL 1:50CHAINAGE 0.
HORIZONTAL 1:100
VERTICAL 1:50

Datum RL232
INDICATIVE EXISTING VERTICAL ALIGNMENT
EXISTING GROUND LEVEL
ROAD CHAINAGES

SPRINGVALE ROAD

CHAINAGE 400
HORIZONTAL 1:100
VERTICAL 1:50CHAINAGE 300
HORIZONTAL 1:100
VERTICAL 1:50CHAINAGE 500
HORIZONTAL 1:100
VERTICAL 1:50CHAINAGE 600
HORIZONTAL 1:100
VERTICAL 1:50

Indicative Existing Road Formation

HORIZONTAL 1:1000
VERTICAL NOT TO SCALE**Connell Wagner**Connell Wagner Limited
Level 4, Torrens House 195 Hereford St.
(P.O. Box 1061) Christchurch New ZealandTelephone: +64 3 366 0821
Facsimile: +64 3 379 8955
Email: cwchc@connwag.com

Client:

CENTRAL OTAGO
PINOT NOIR ESTATES
LIMITED

Project:

Mc ARTHUR RIDGE
PINOT NOIR HOLDINGS

Surveyed	Signed	Date
Drawn	Signed RO	Date 04/03
Designed	Signed CHT/RO	Date 04/03
Verified	Signed CHT	Date 04/03
Approved	Signed CHT	Date 04/03

Drawing Title:

Mc ARTHUR ROAD
PROPOSED UPGRADE

CW Project No.

21522

Scale

Drawing No.

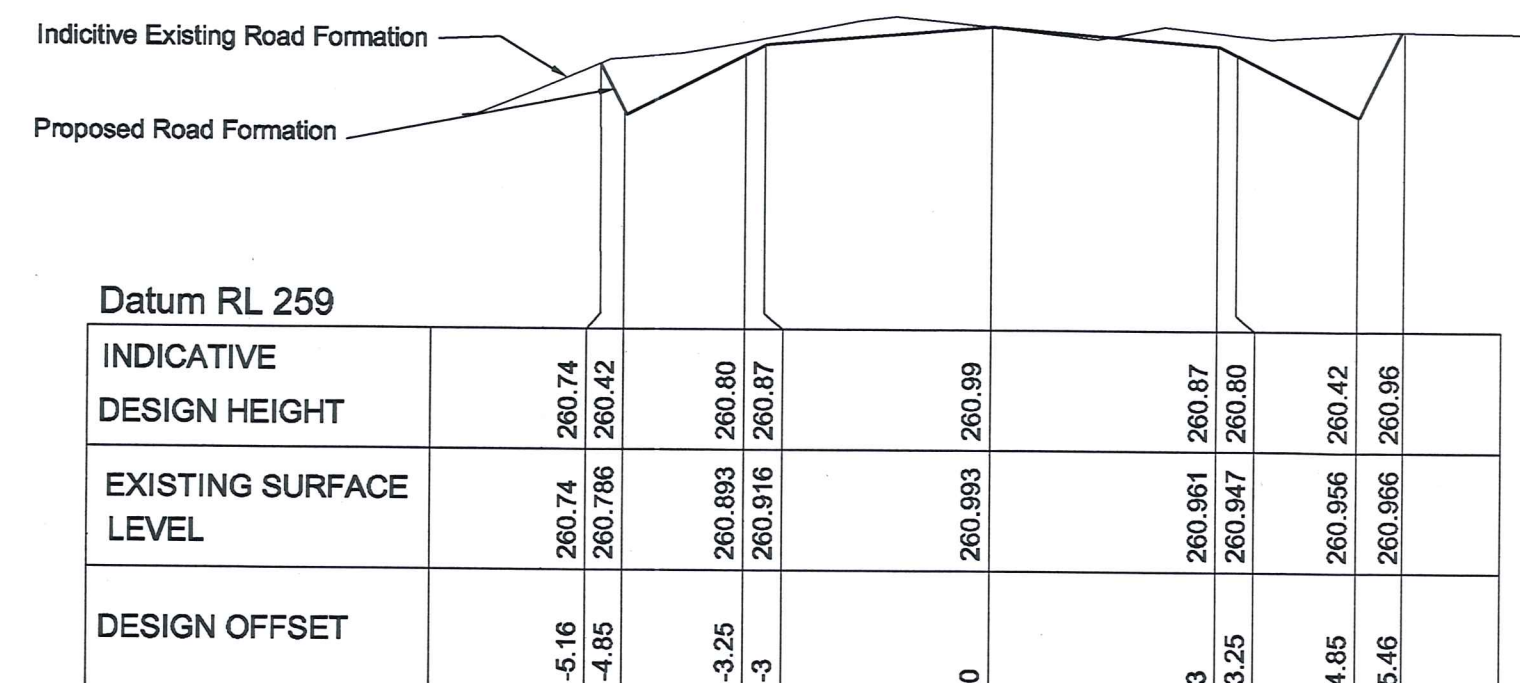
Rev.

204

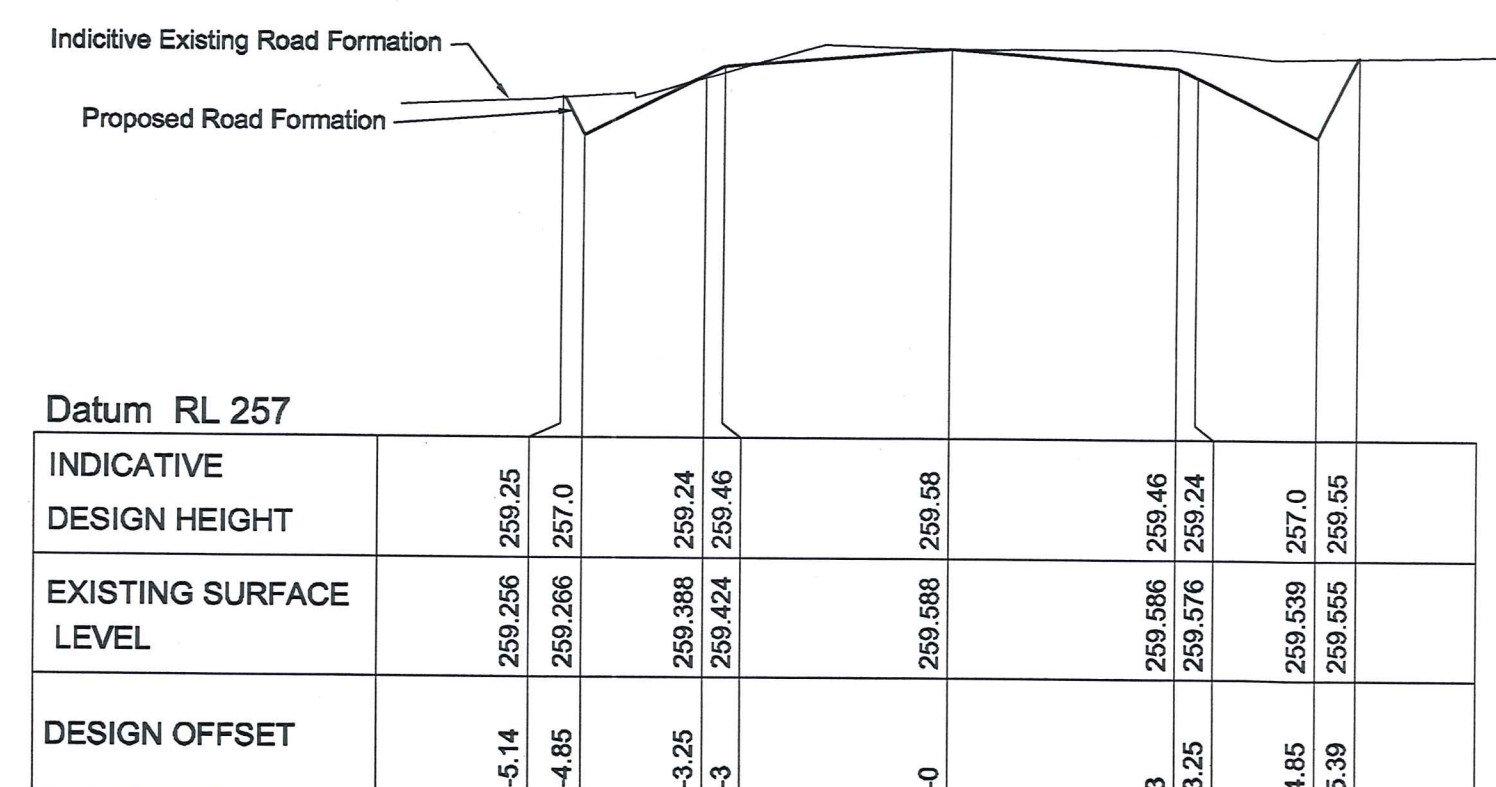
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Rev.	Date	Revision Details	By	Ver.	App.
01					

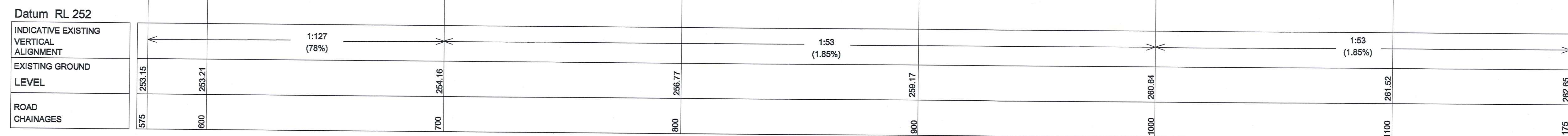
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CHAINAGE 1000
HORIZONTAL 1:100
VERTICAL 1:50

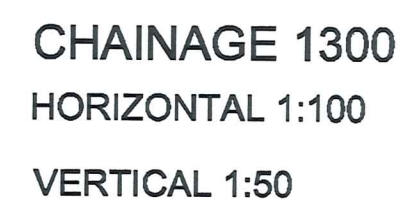


CHAINAGE 900
HORIZONTAL 1:100
VERTICAL 1:50



HORIZONTAL 1:1000
VERTICAL NOT TO SCALE

[illegible]





01					
Rev.	Date	Revision Details	By	Ver.	App.

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Level 4, Torrens House 195 Hereford St.
(P.O. Box 1061) Christchurch New Zealand

Telephone: +64 3 366 0821
Facsimile: +64 3 379 6955
Email: cwchc@conwag.com

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LIMITED

Project:	
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Mc ARTHUR RIDGE
PINOT NOIR HOLDINGS

Surveyed	Signed	Date
Drawn	Signed RO	Date 04/03
Designed	Signed CHT/RO	Date 04/03
Verified	Signed CHT	Date 04/03
Approved	Signed CHT	Date 04/03

Drawing Title:

Mc ARTHUR ROAD
PROPOSED UPGRADE

CW Project No.	
----------------	--

21522

Scale

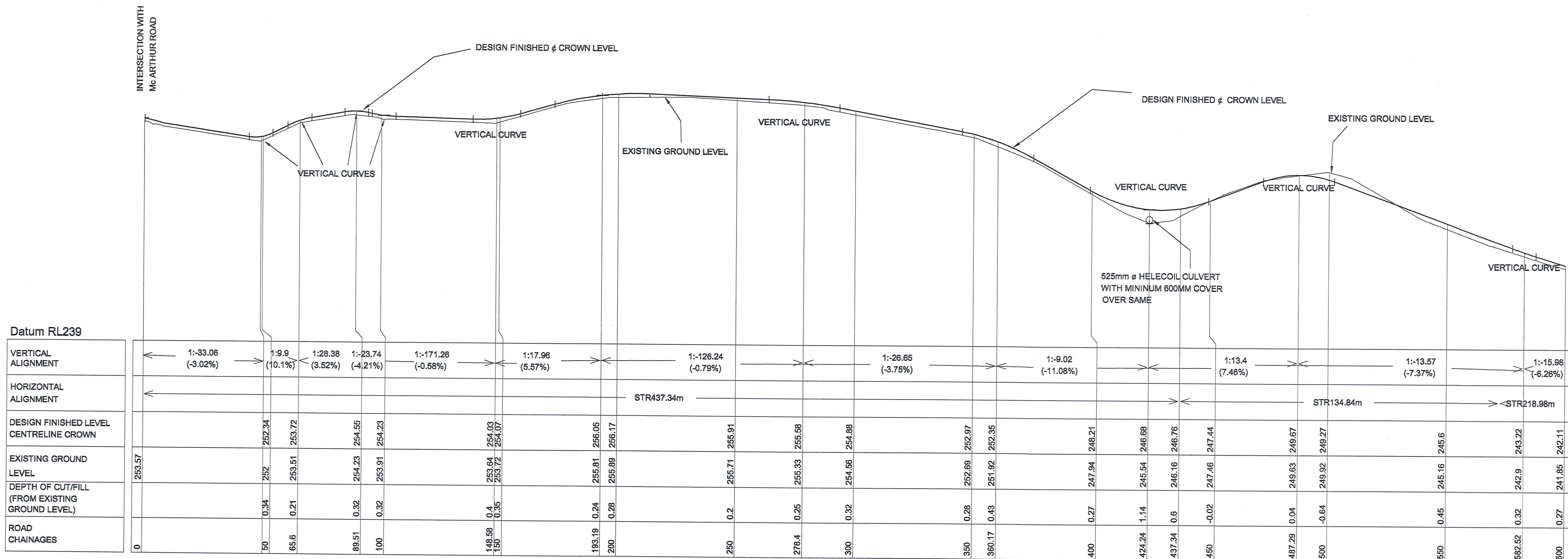
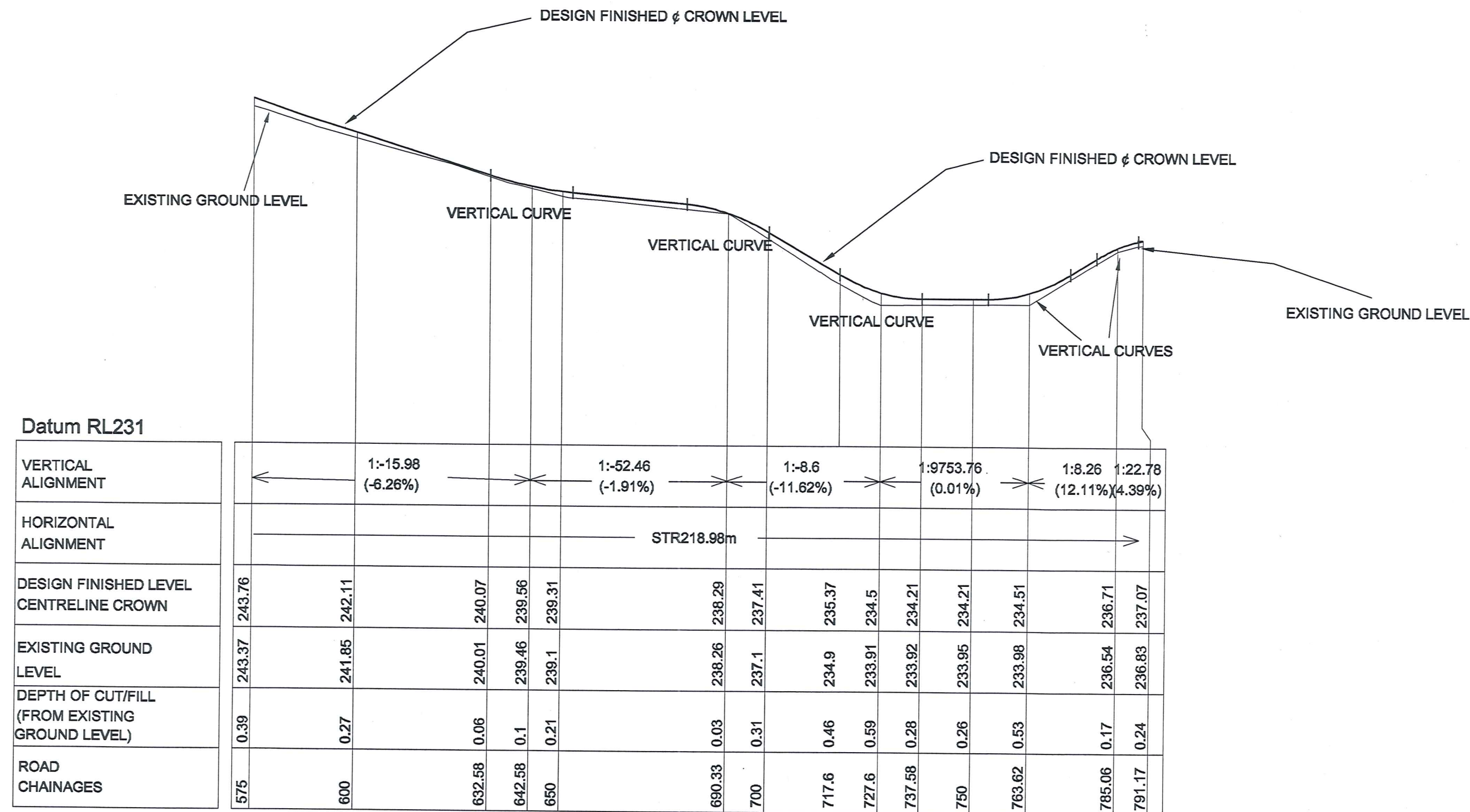
Drawing No.

Rev.

207

APPROVAL/TENDER





APPROVAL/TENDER

Rev.	Date	Revision Details	By	Ver.	App.
01					

Connell WagnerConnell Wagner Limited
Level 4, Torrens House 195 Hereford St.
(P.O. Box 1061) Christchurch New ZealandTelephone: +64 3 366 0821
Facsimile: +64 3 379 8955
Email: cwwc@connwag.comA person using Connell Wagner drawings and other data accepts the risk of:
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Client:

CENTRAL OTAGO
PINOT NOIR ESTATES
LIMITED

Project:

Mc ARTHUR RIDGE
PINOT NOIR HOLDINGS

Surveyed	Signed	Date
Drawn	Signed RO	Date 04/03
Designed	Signed CHT/RO	Date 04/03
Verified	Signed CHT	Date 04/03
Approved	Signed CHT	Date 04/03

Drawing Title:

DESIGN OF
ACCESS TO LOTS
40 - 43
(LONGSECTIONS)

CW Project No.

21522

Scale

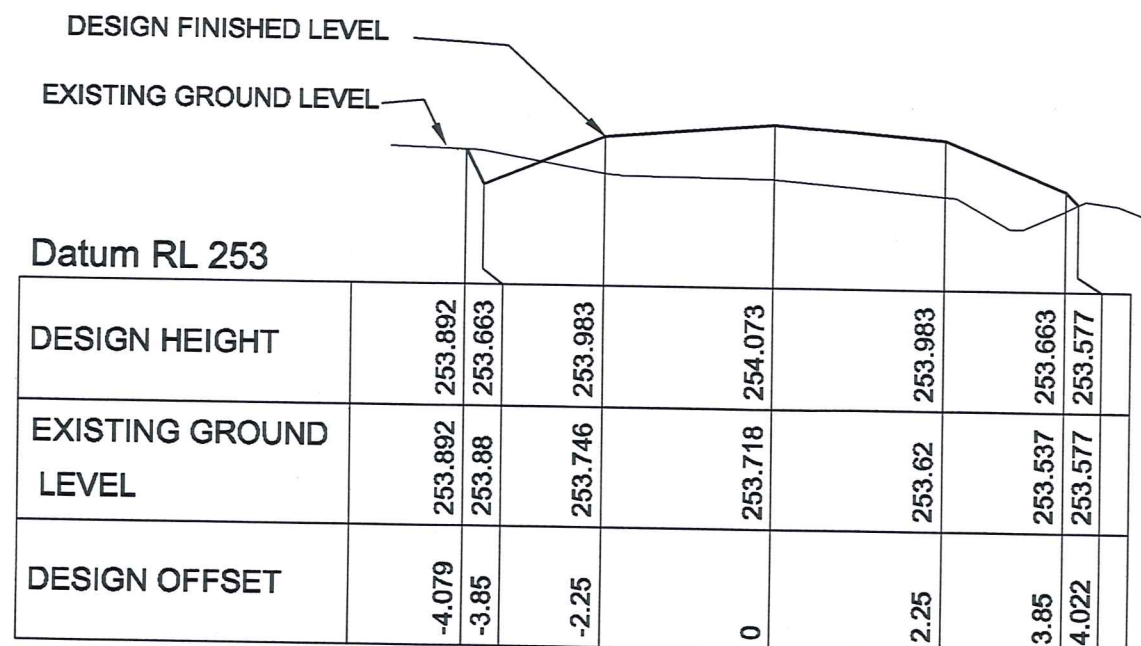
VERT NOT TO SCALE
HORIZ 1:100

Drawing No.

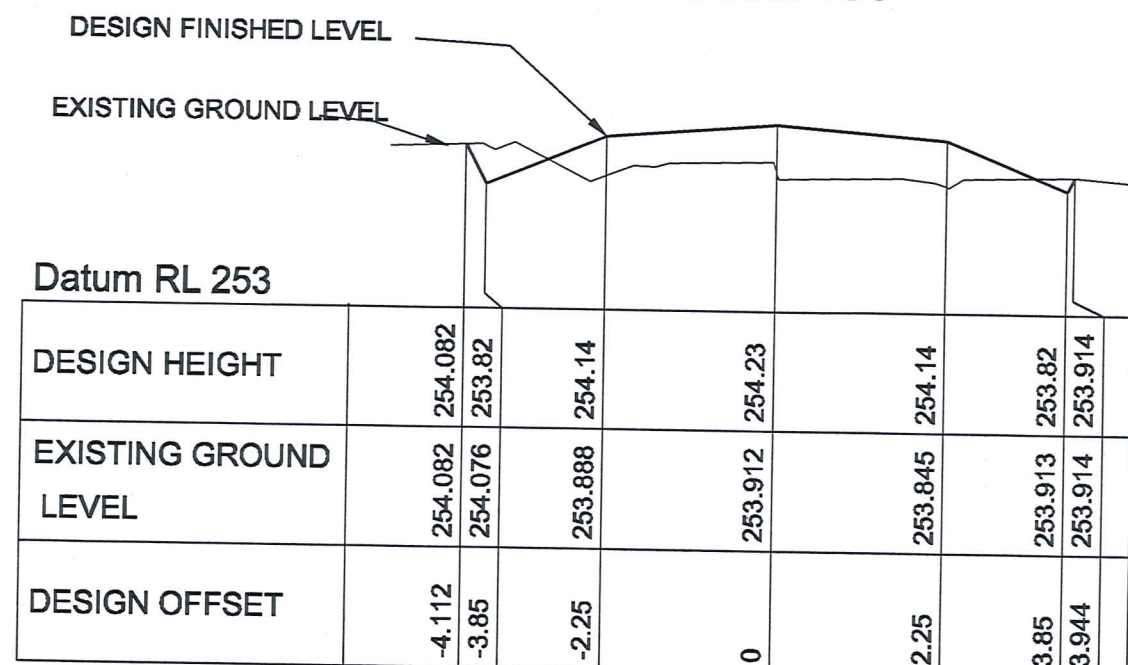
Rev.

209

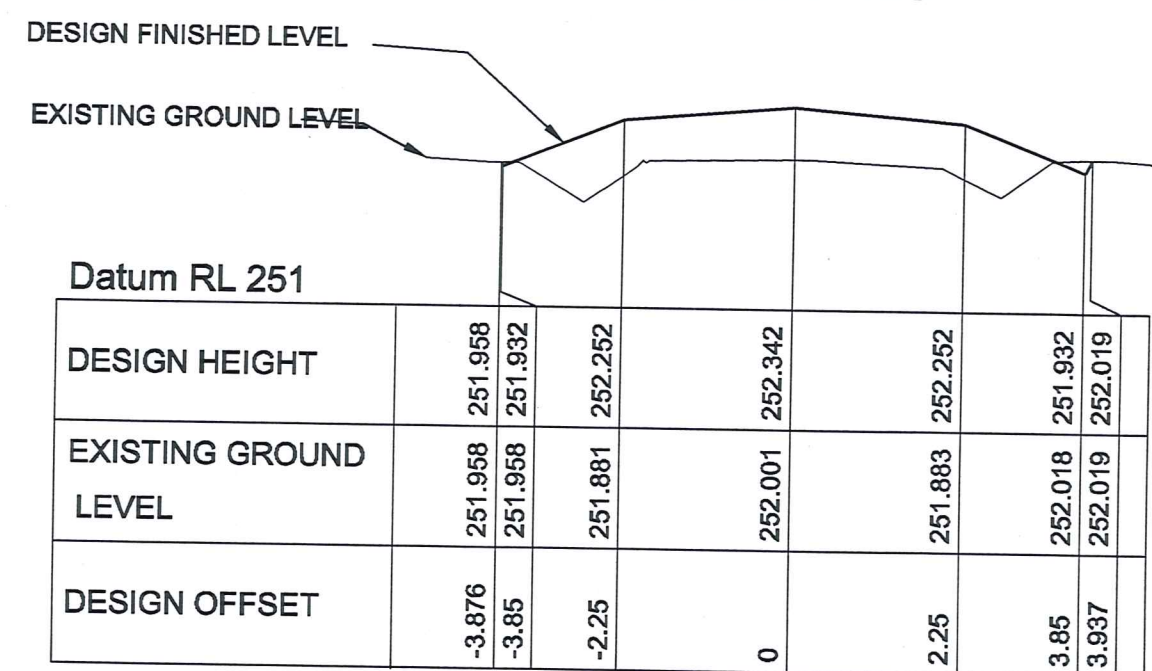
A



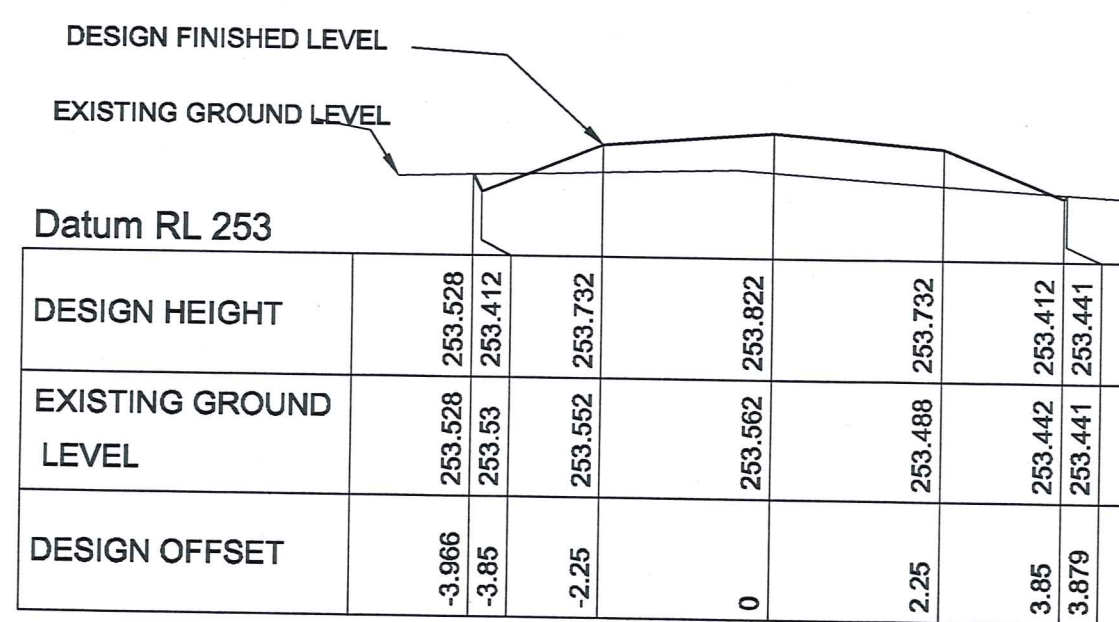
CHAINAGE 150



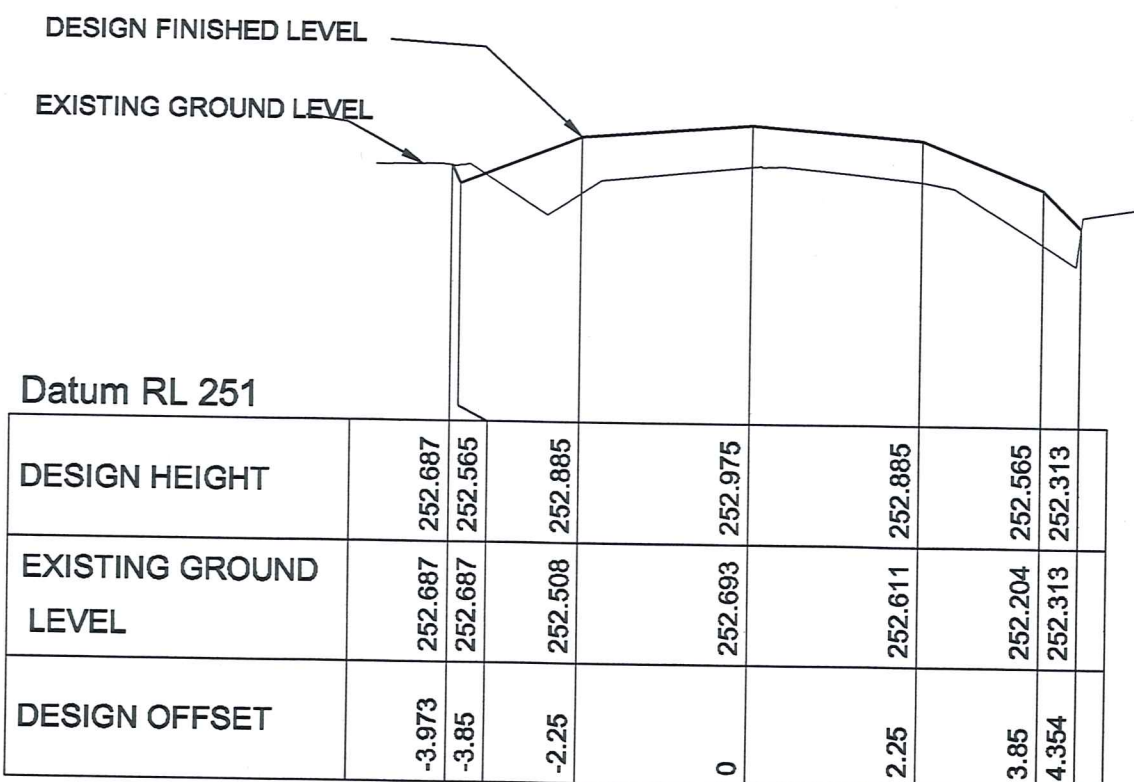
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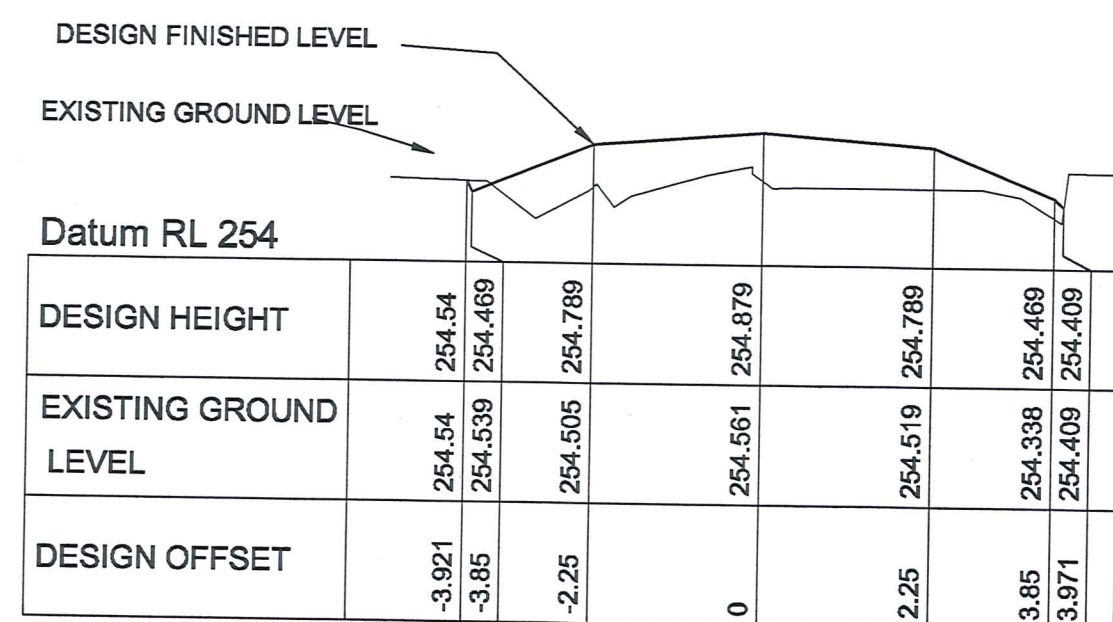
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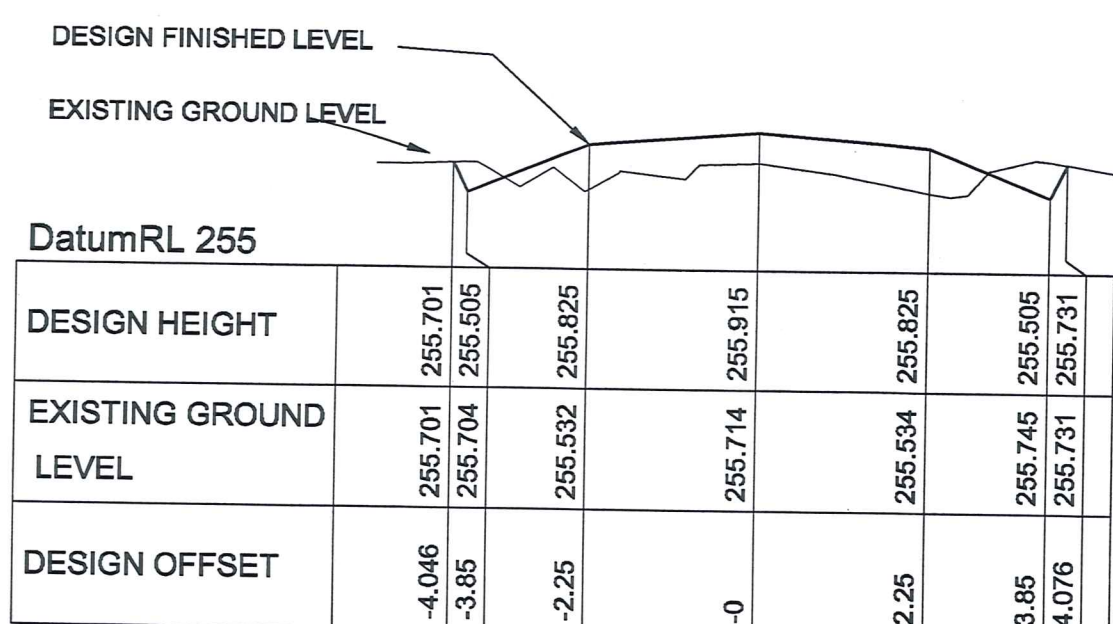
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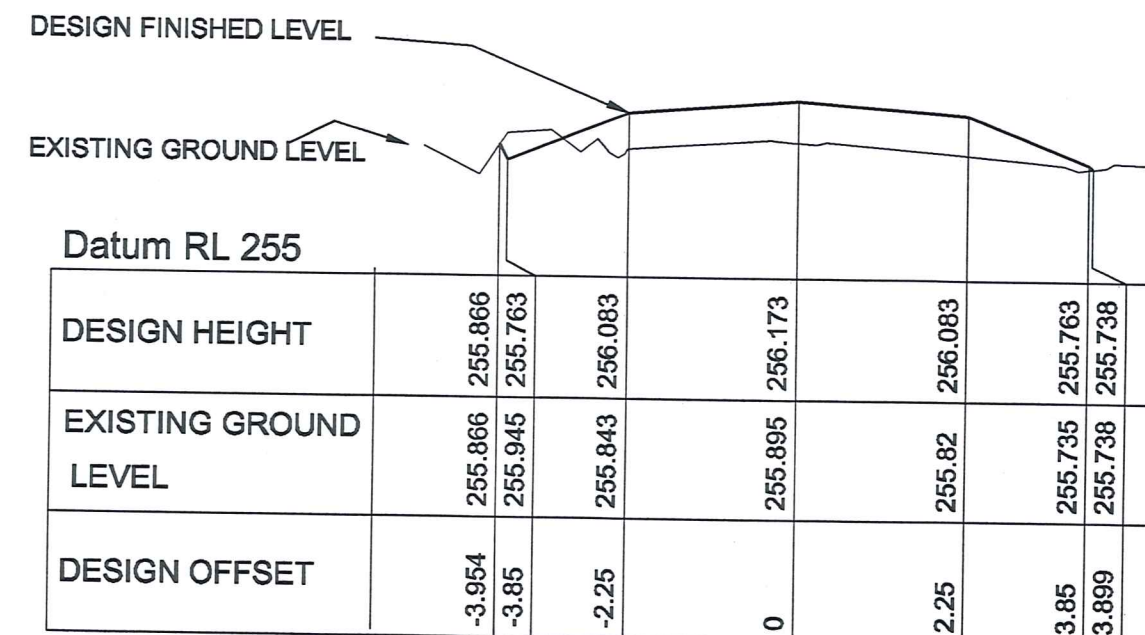
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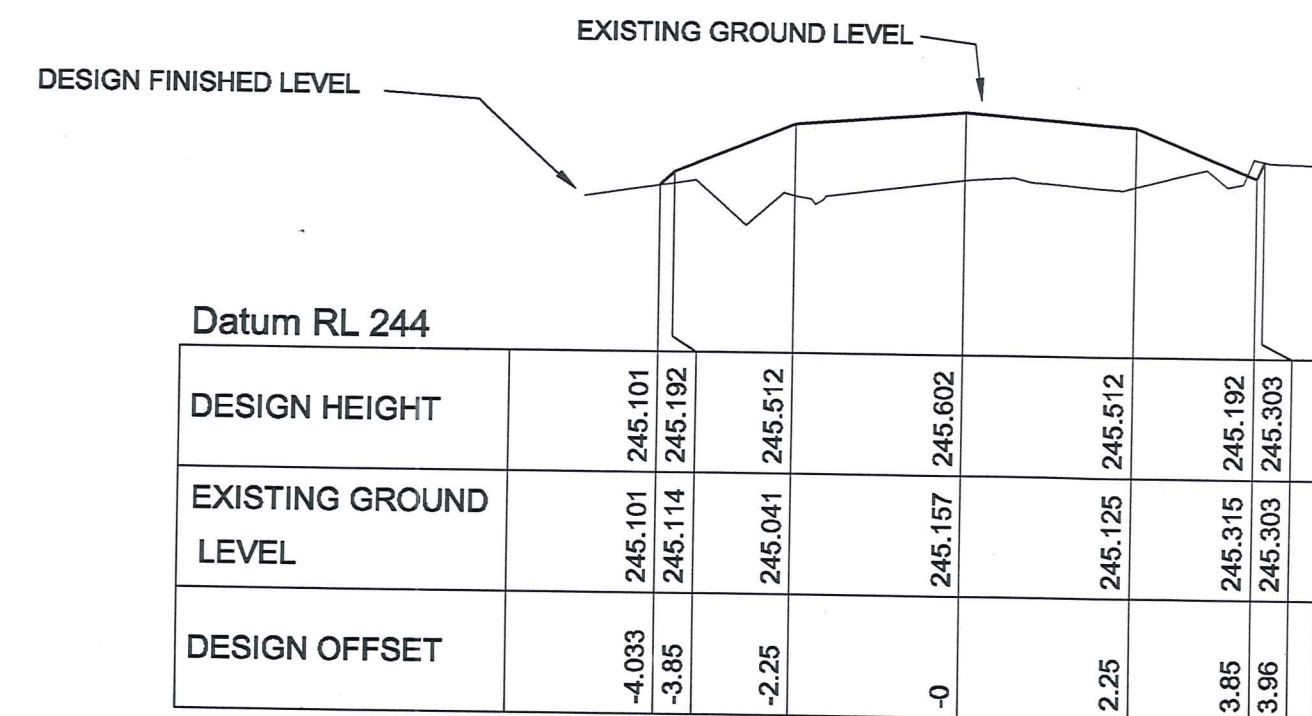
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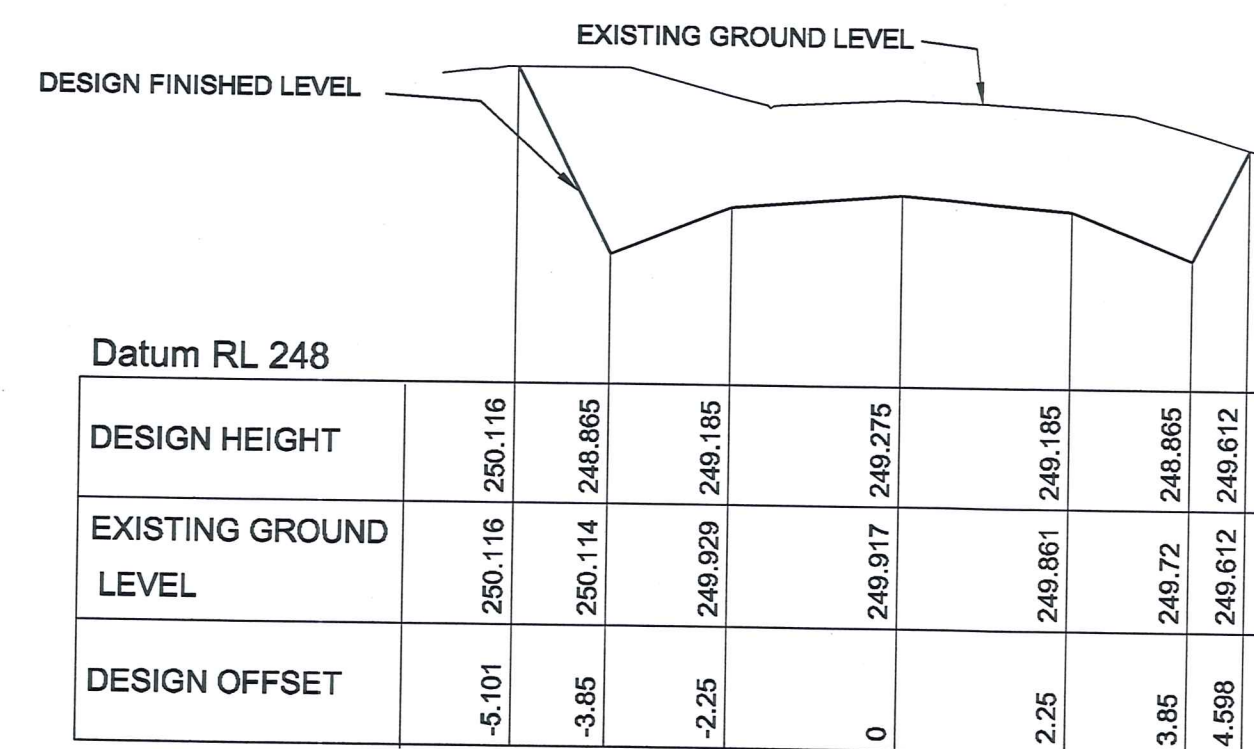
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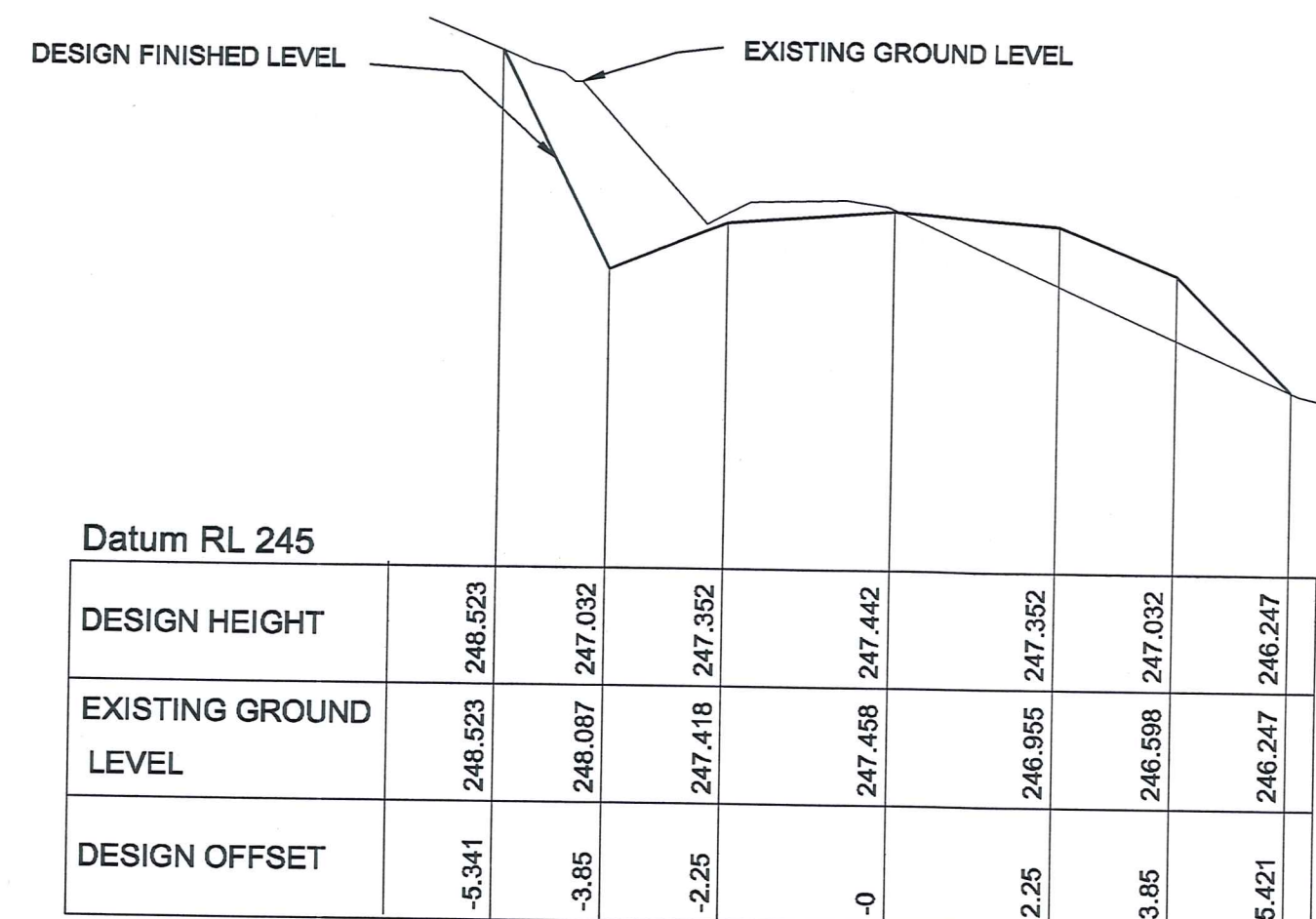
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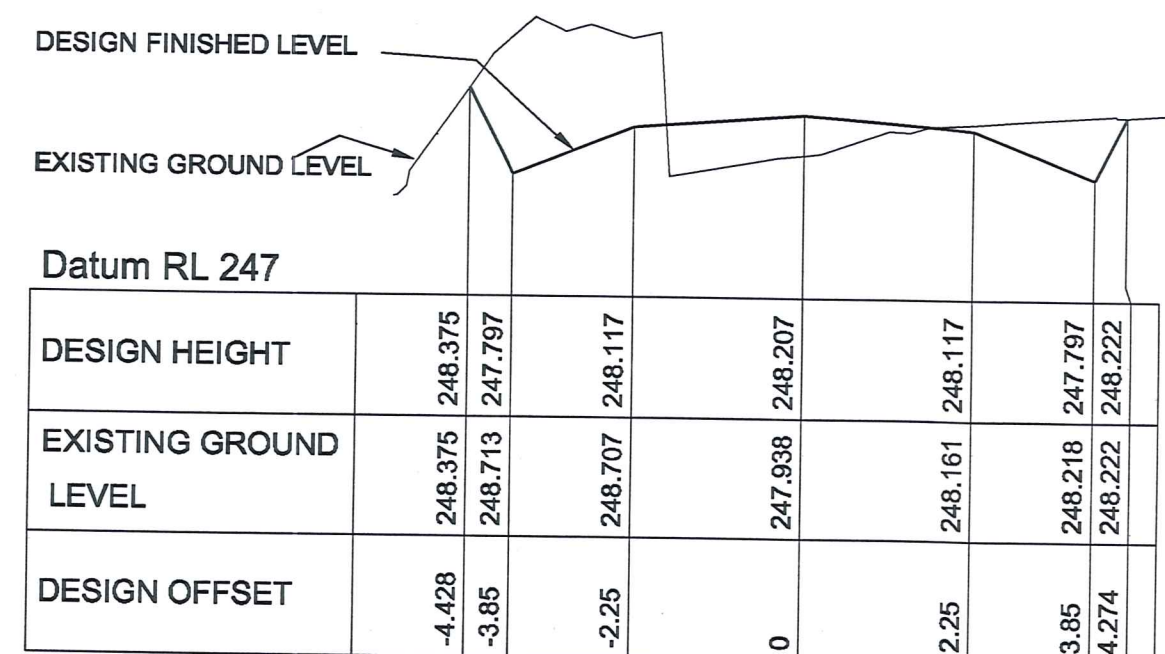
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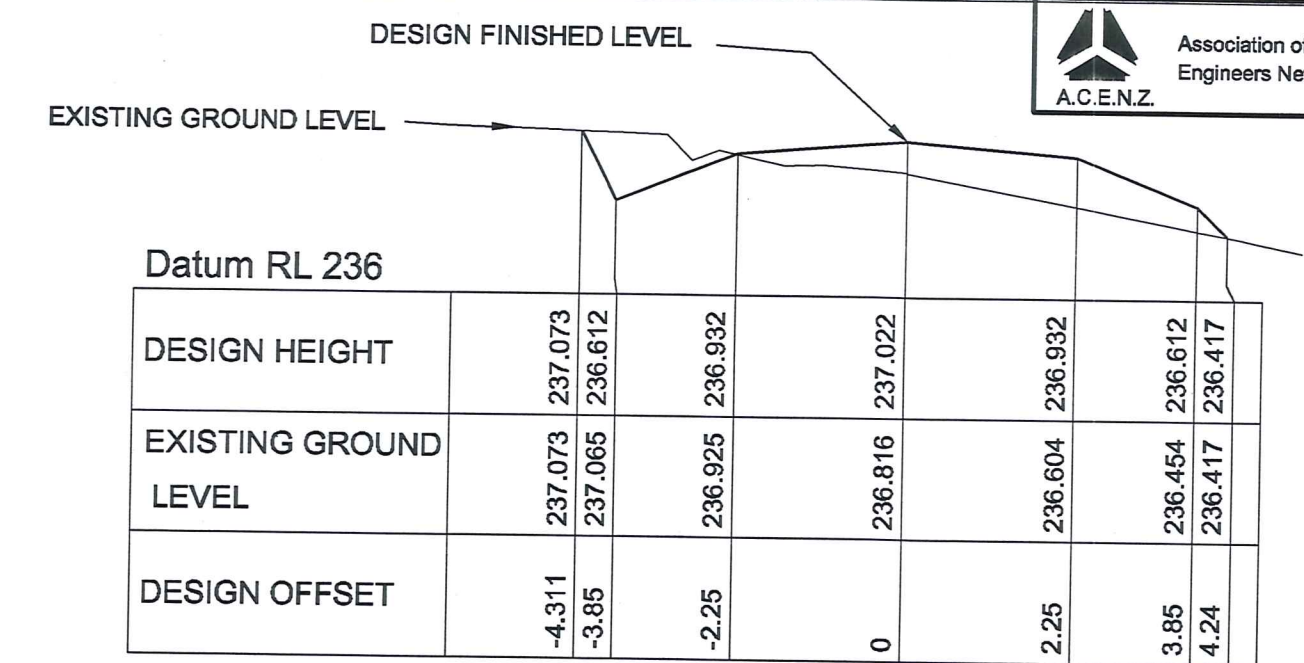
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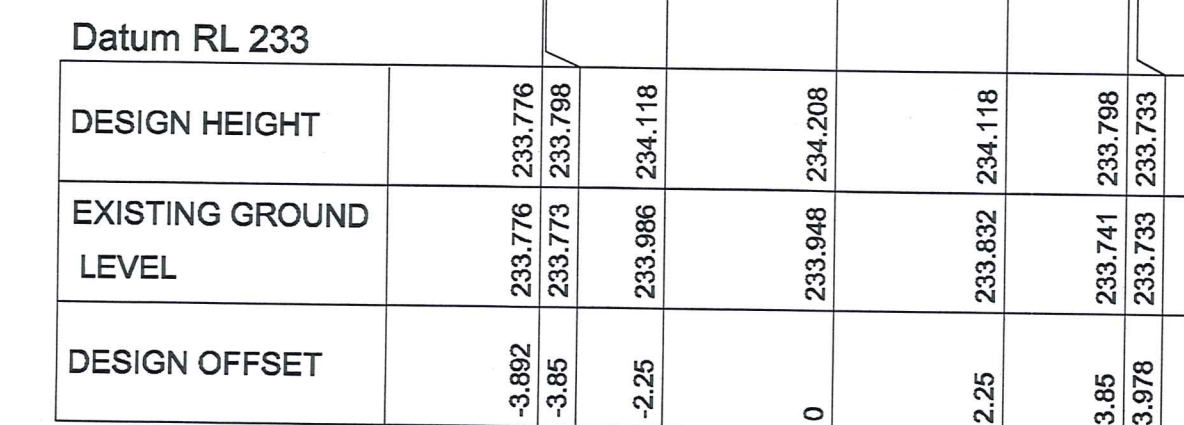
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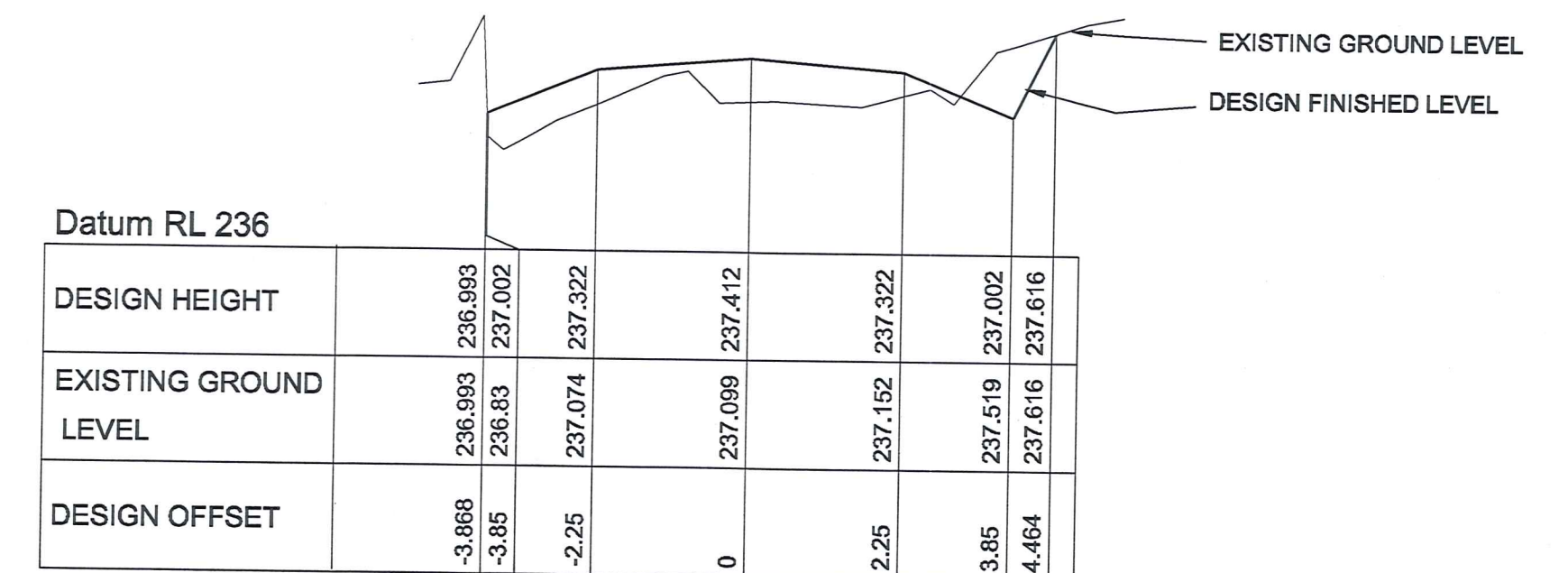
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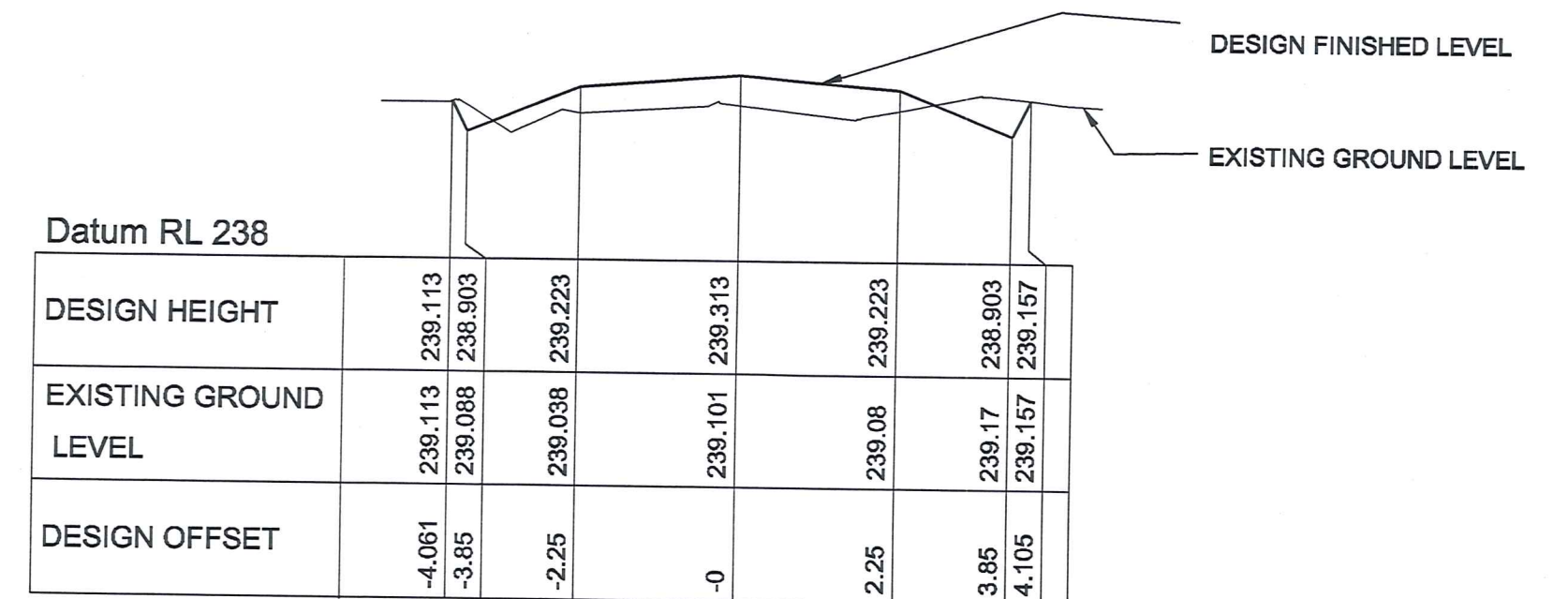
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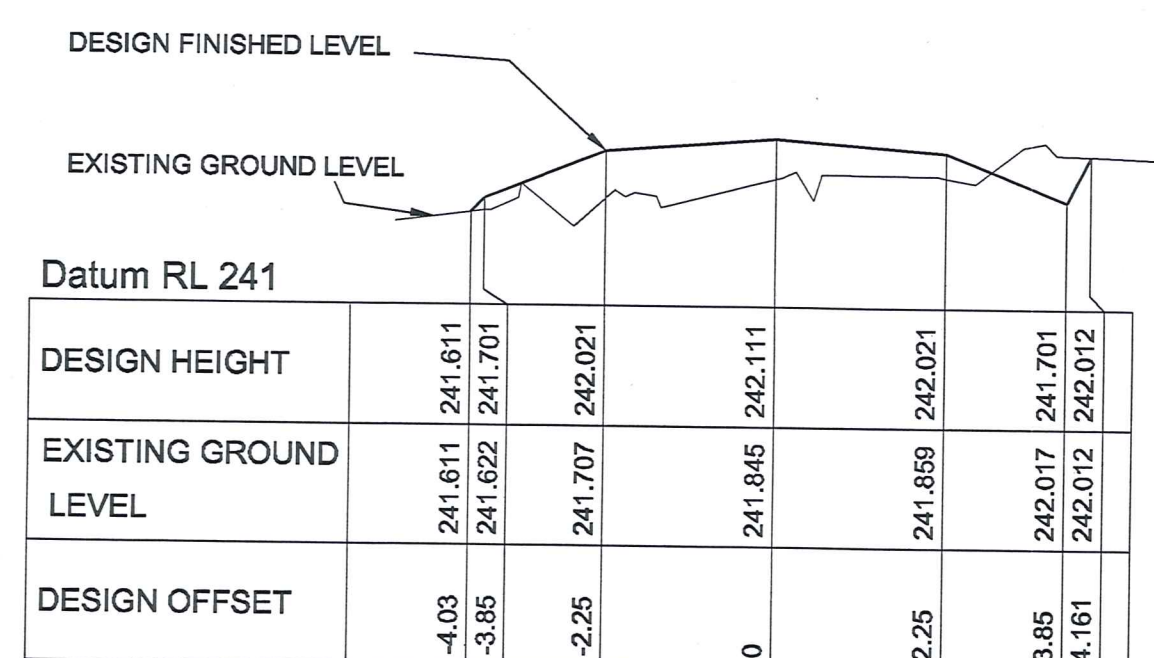
CHAINAGE 750



CHAINAGE 700



CHAINAGE 650



CHAINAGE 600.000

APPROVAL/TENDER

Rev.	Date	Revision Details	By	Ver.	App.
01					

Connell Wagner

Connell Wagner Limited
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Telephone: +64 3 366 0821
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Email: owc@connwag.com

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Client:

ROSS SECTIONS)
PINOT NOIR ESTATES
LIMITED

Project:

Mc ARTHUR RIDGE
PINOT NOIR HOLDINGS

Surveyed	Signed	Date
Drawn	Signed RO	Date 04/03
Designed	Signed CHT/RO	Date 04/03
Verified	Signed CHT	Date 04/03
Approved	Signed CHT	Date 04/03

Drawing Title:

DESIGN OF
ACCESS TO LOTS
40 - 43
(CROSS SECTIONS)

CW Project No.

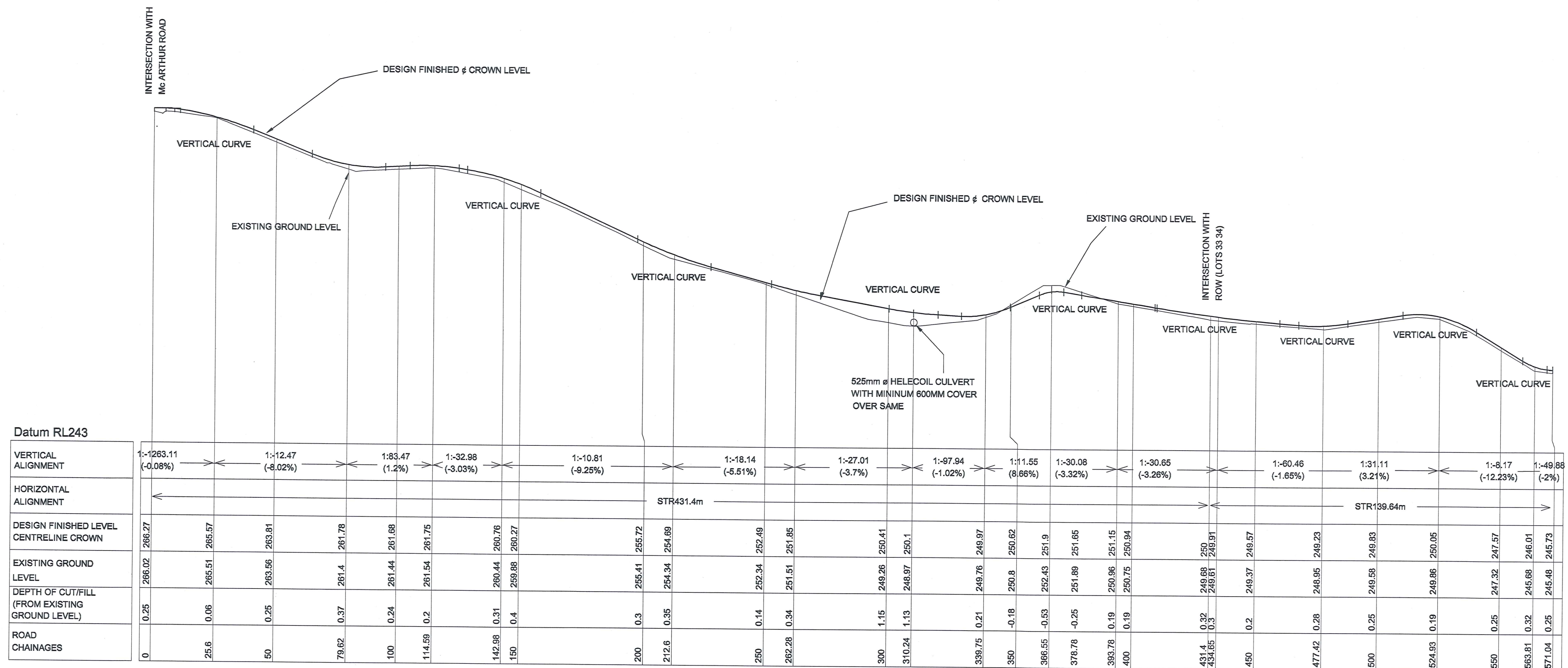
21522

Scale
VERT 1:50
HORIZ 1:100

Drawing No. Rev.

210

A



APPROVAL/TENDER

Rev.	Date	Revision Details	By	Ver.	App.
01					

Connell Wagner

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Client:

CENTRAL OTAGO
PINOT NOIR ESTATES
LIMITED

Project:

Mc ARTHUR RIDGE
PINOT NOIR HOLDINGS

Surveyed	Signed	Date
Drawn	Signed RO	Date 04/03
Designed	Signed CHT/RO	Date 04/03
Verified	Signed CHT	Date 04/03
Approved	Signed CHT	Date 0403

Drawing Title:

DESIGN OF
ACCESS TO LOTS
33 - 36
(LONGSECTION)

CW Project No.

21522

Scale
NOT TO SCALE VERT
HORIZ 1:100

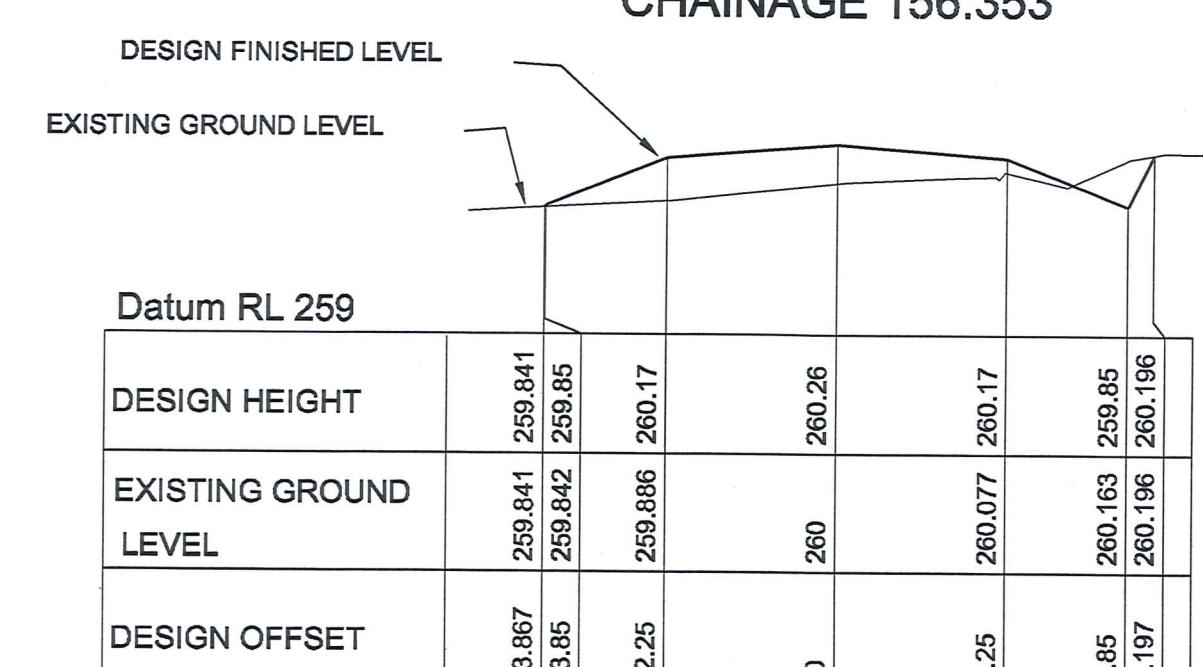
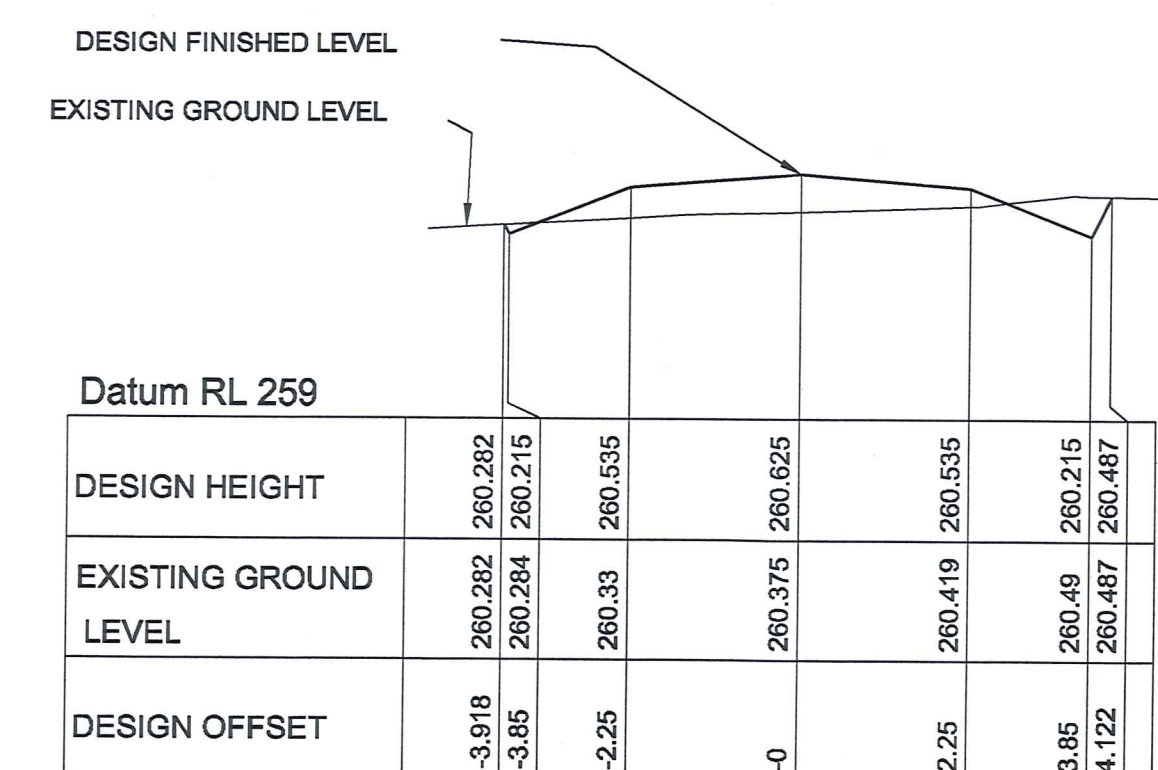
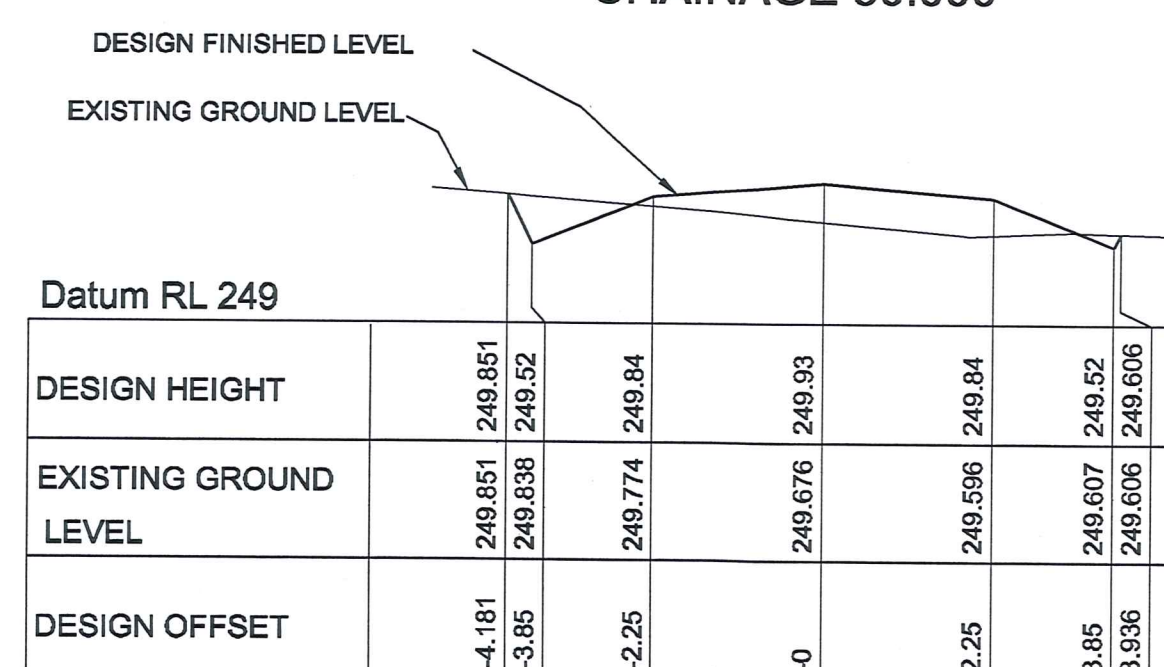
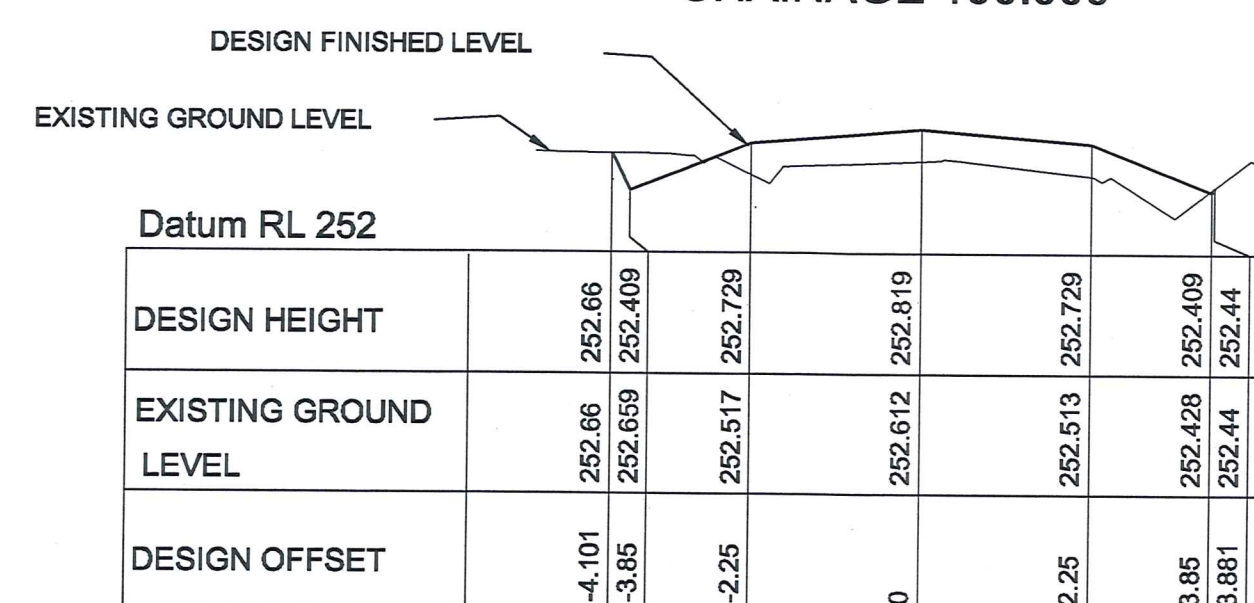
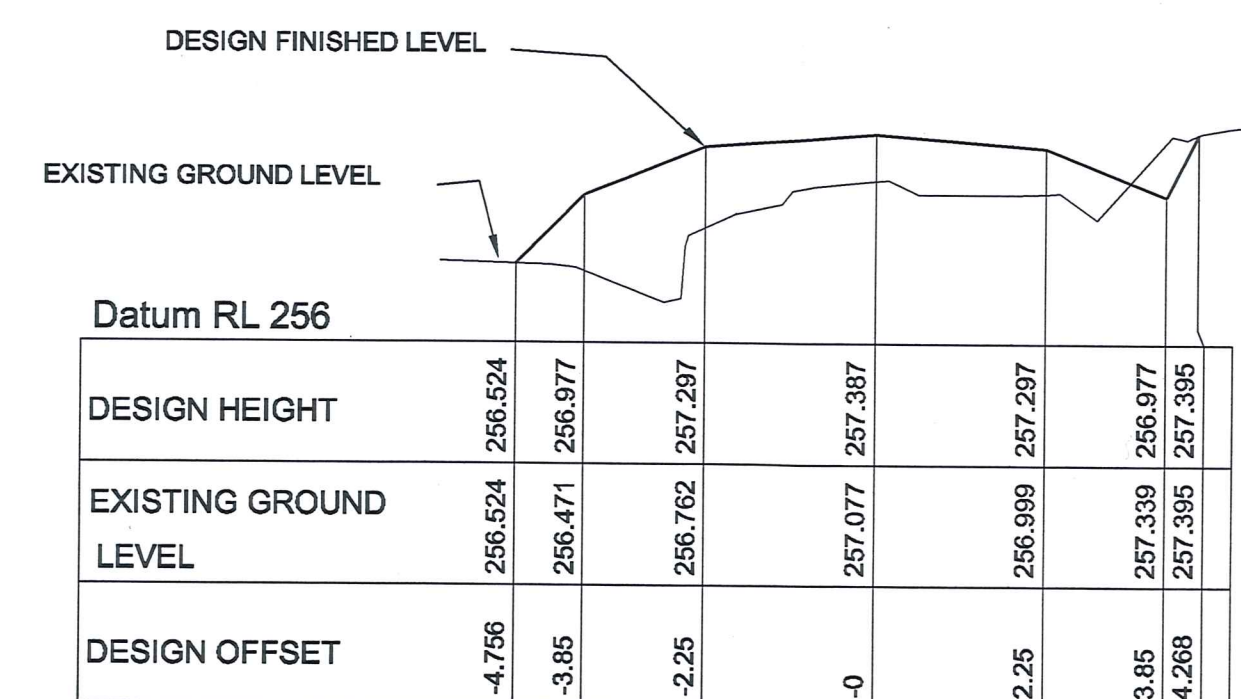
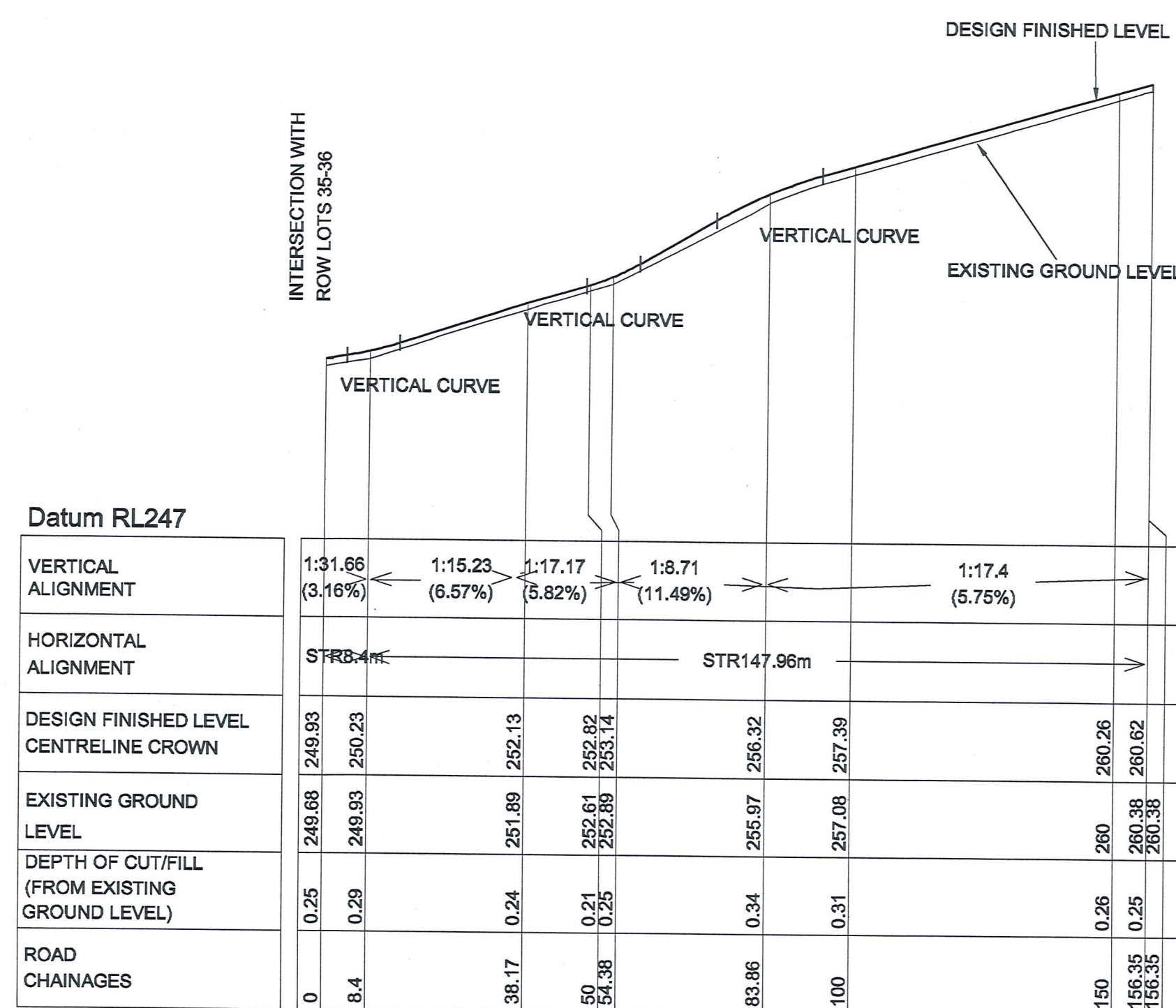
Drawing No.

211

Rev. A

20 10 0 10 20 30 40 50 100mm





Rev.	Date	Revision Details	By	Ver.	App.
01					

Connell WagnerConnell Wagner Limited
Level 4, Torrens House 195 Hereford St.
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Telephone: +84 3 368 0821
Facsimile: +84 3 379 8955
Email: cwc@cconnwag.comA person using Connell Wagner drawings and other data accepts the risk of:
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Client:

CENTRAL OTAGO
PINOT NOIR ESTATES
LIMITED

Project:

Mc ARTHUR RIDGE
PINOT NOIR HOLDINGS

Surveyed	Signed	Date
Drawn	Signed RO	Date 04/03
Designed	Signed CHT/RO	Date 04/03
Verified	Signed CHT	Date 04/03
Approved	Signed CHT	Date 0403

Drawing Title:

DESIGN OF
ACCESS TO LOTS
33 - 34
(LONGSECTION / CROSS SECTION)

CW Project No.

21522

Scale
NOT TO SCALE VERT
HORIZ 1:100

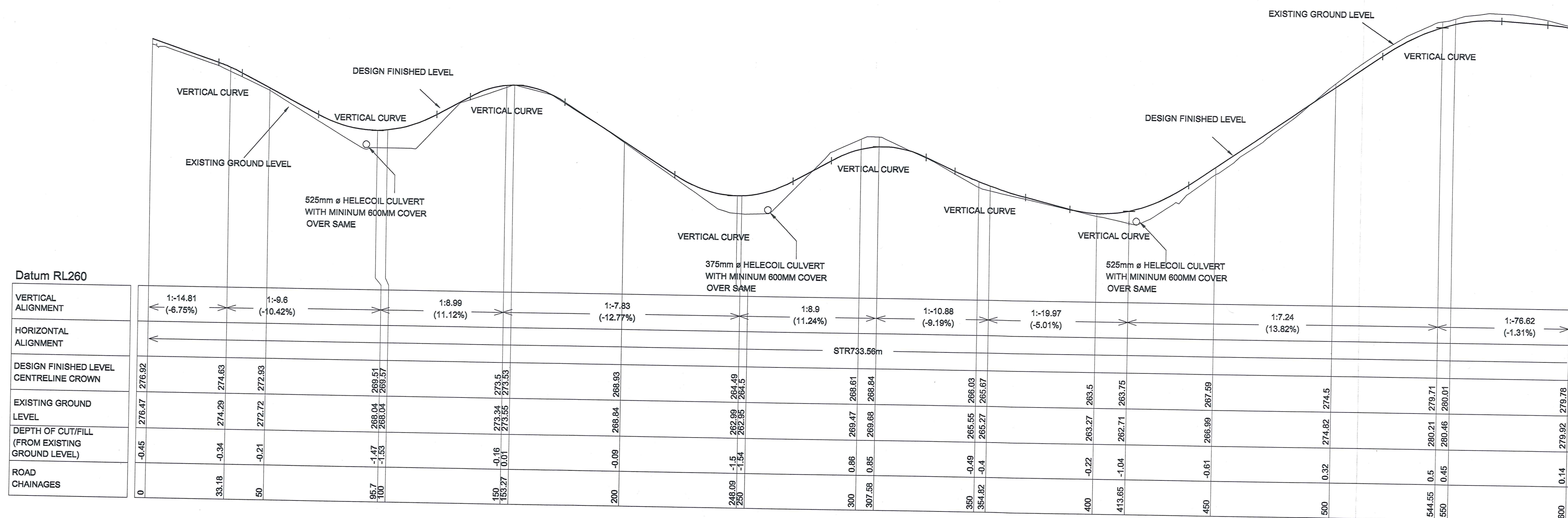
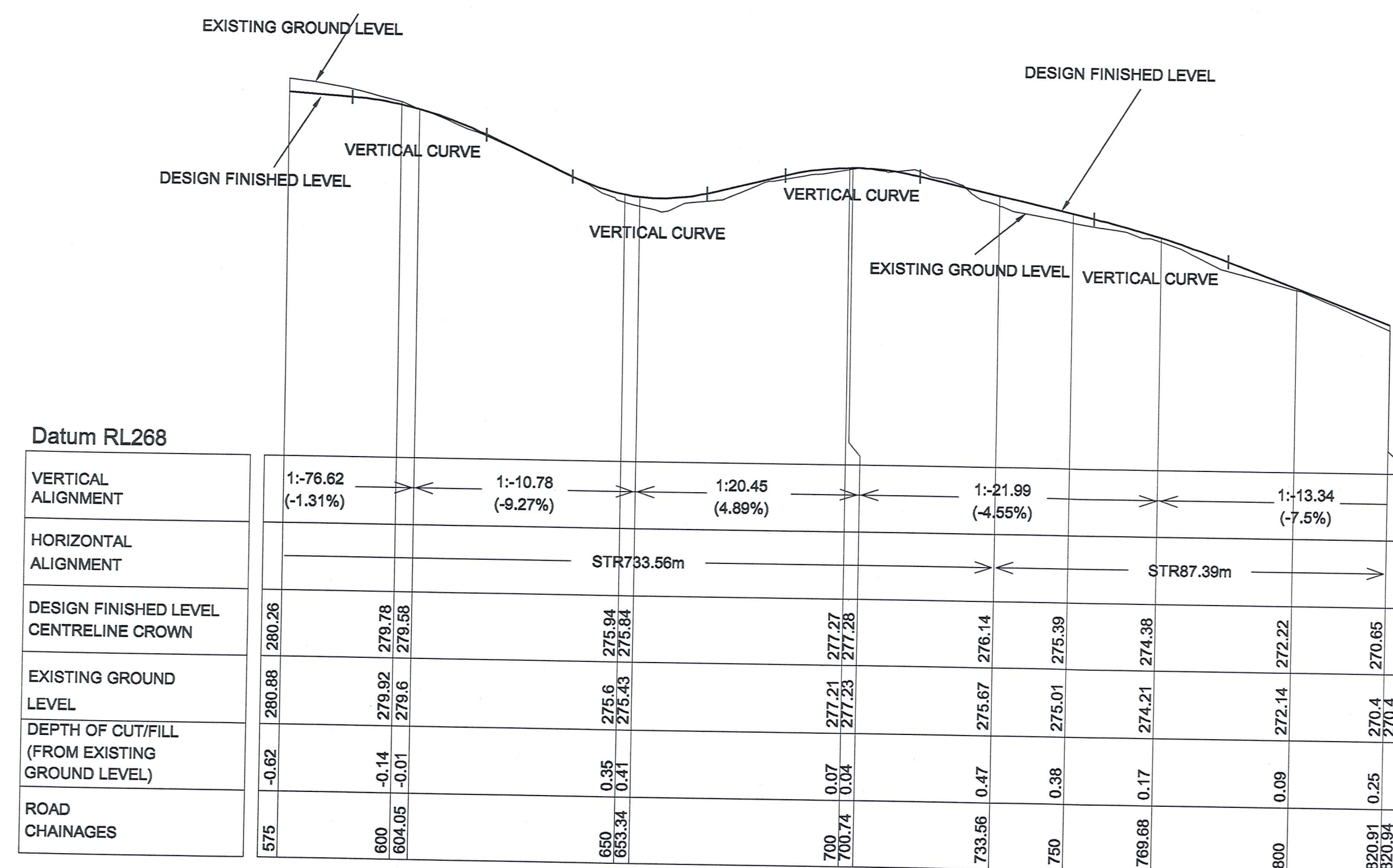
Drawing No.

213

Rev.

A

APPROVAL/TENDER

INTERSECTION WITH
McARTHURS ROAD**Connell Wagner**Connell Wagner Limited
Level 4, Torrens House 195 Hereford St.
(P.O. Box 1061) Christchurch New ZealandTelephone: +64 3 366 0821
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Email: cwoh@connwag.comA person using Connell Wagner drawings and other data accepts the risk of:
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2. using the drawings or other data for any purpose not agreed to in writing by Connell Wagner.

Client:

CENTRAL OTAGO
PINOT NOIR ESTATES
LIMITED

Project:

Mc ARTHUR RIDGE
PINOT NOIR HOLDINGS

Surveyed	Signed	Date	Drawing Title:
Drawn	Signed RO	Date 04/03	DESIGN OF ACCESS TO LOTS 24 - 29 (LONGSECTIONS)
Designed	Signed CHT/RO	Date 04/03	
Verified	Signed CHT	Date 04/03	
Approved	Signed CHT	Date 04/03	

APPROVAL/TENDER

CW Project No.

21522

Scale
VERT NOT TO SCALE
1:100

Drawing No.

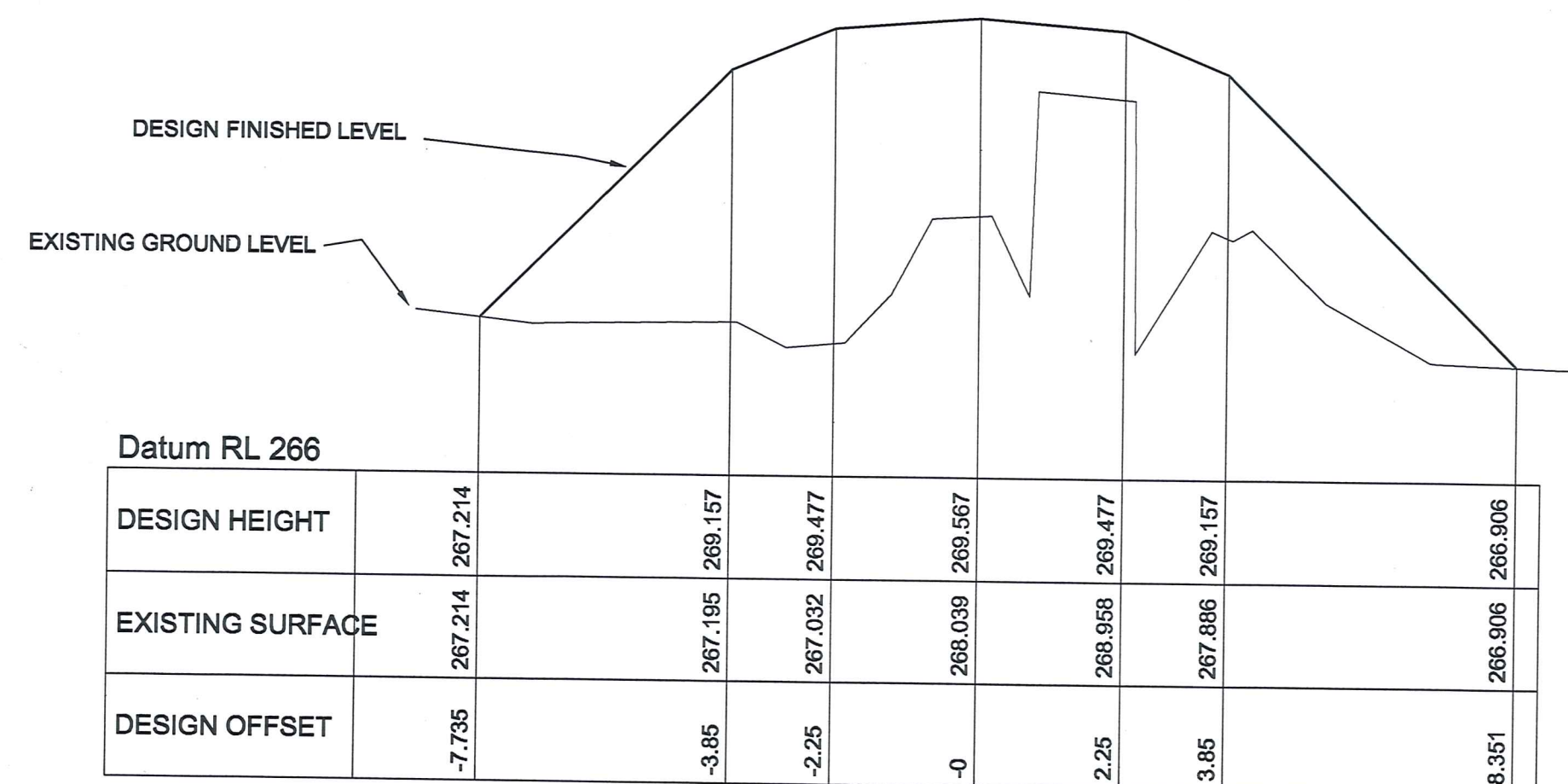
214

Rev.

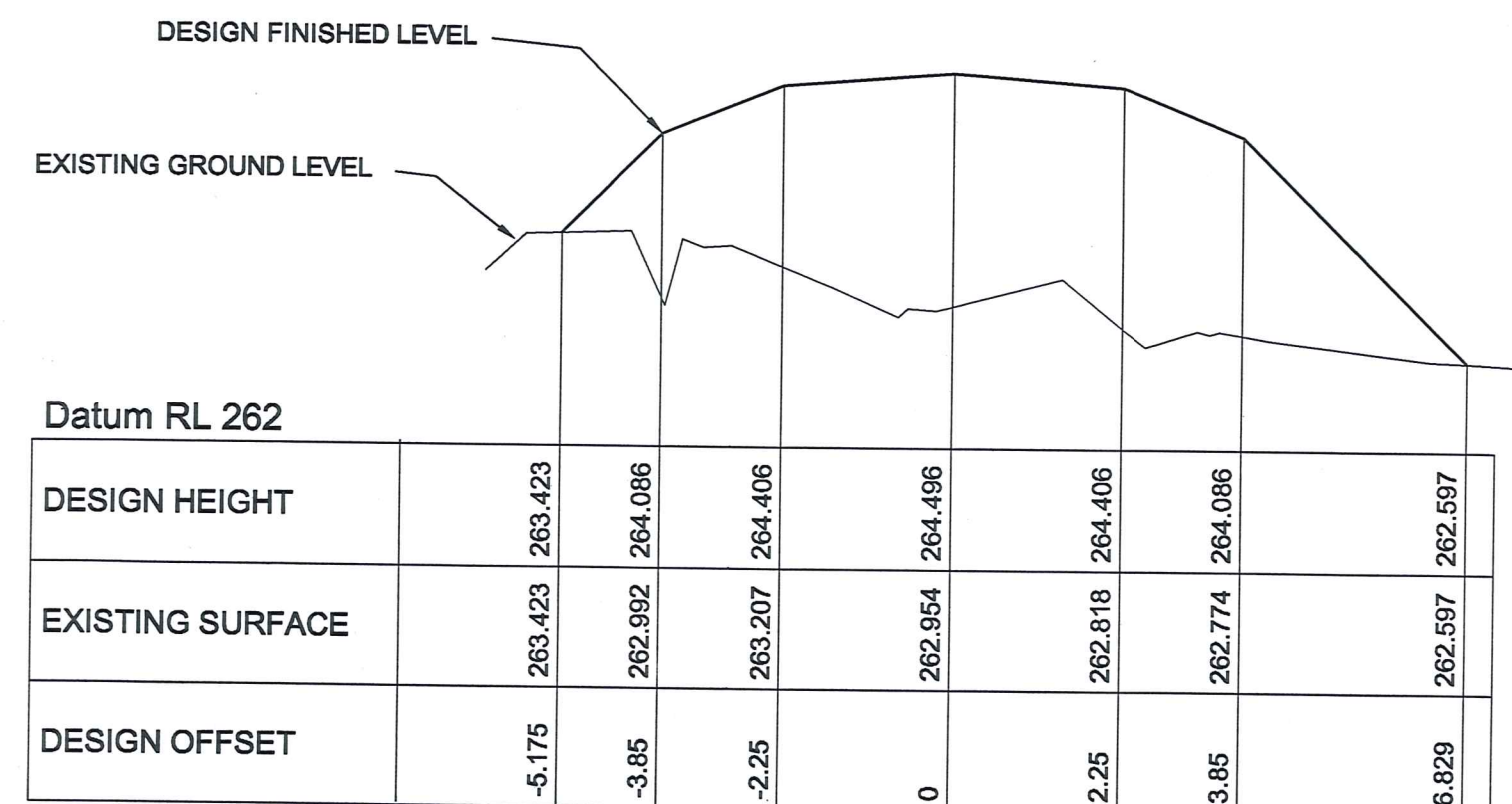
A

Rev.	Date	Revision Details	By	Ver.	App.
01					

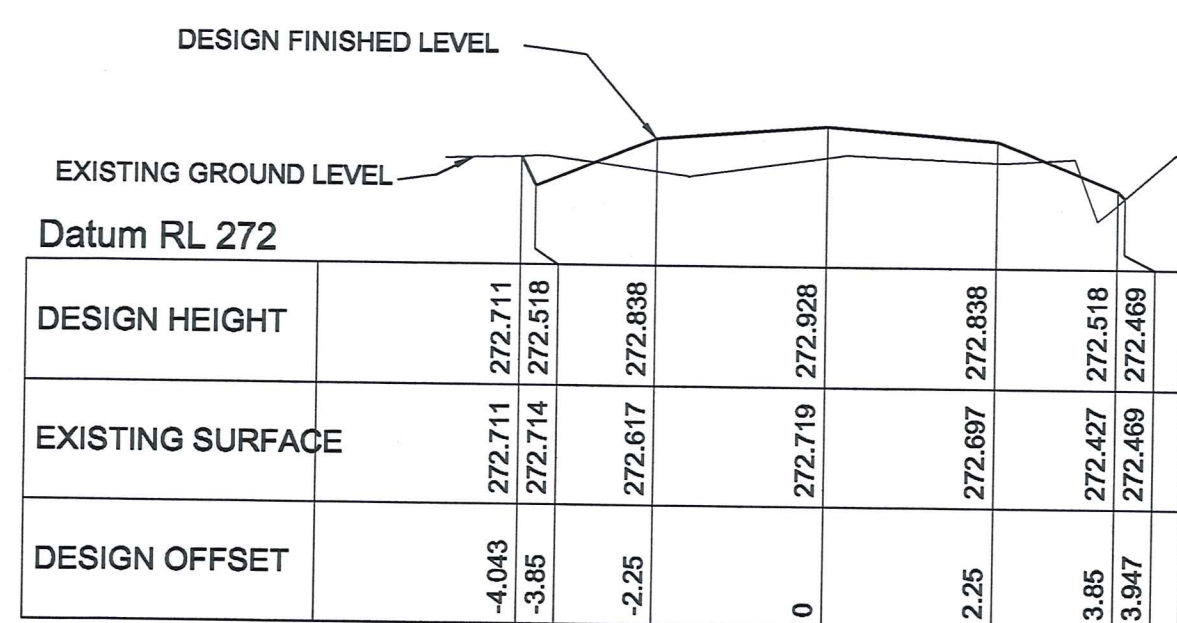
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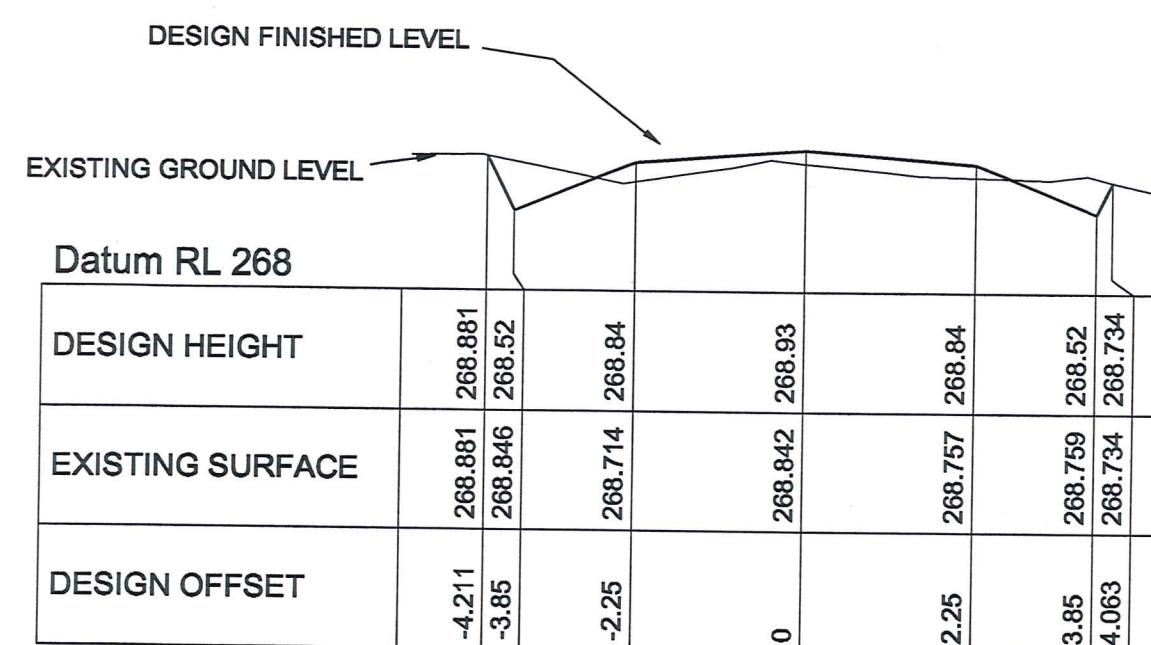
CHAINAGE 100



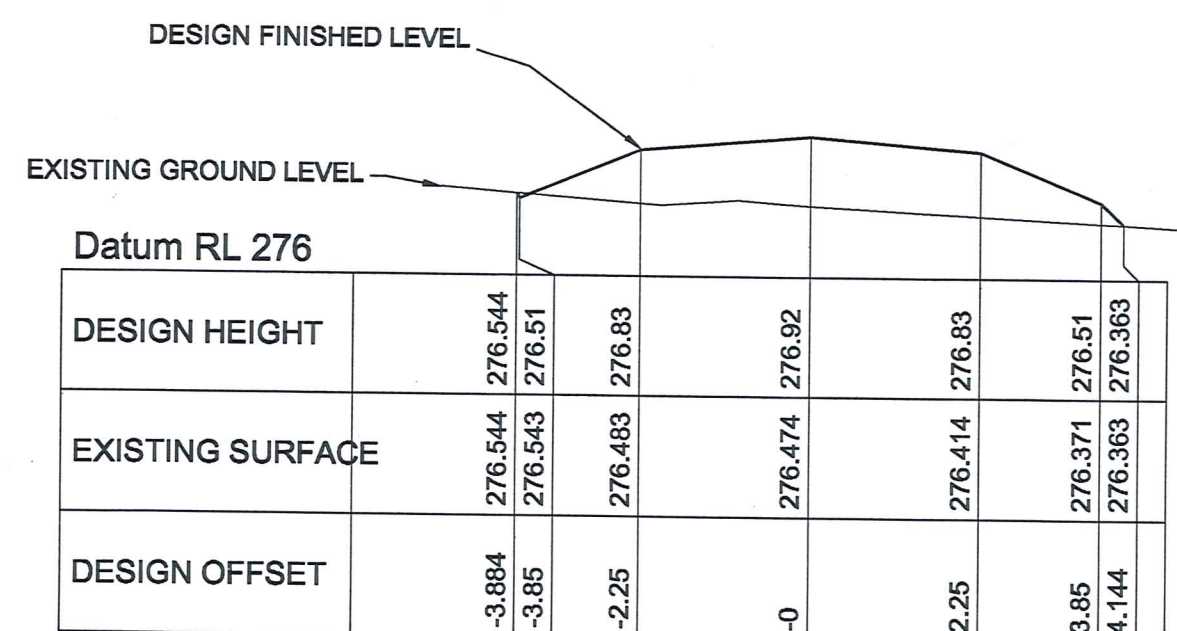
CHAINAGE 250



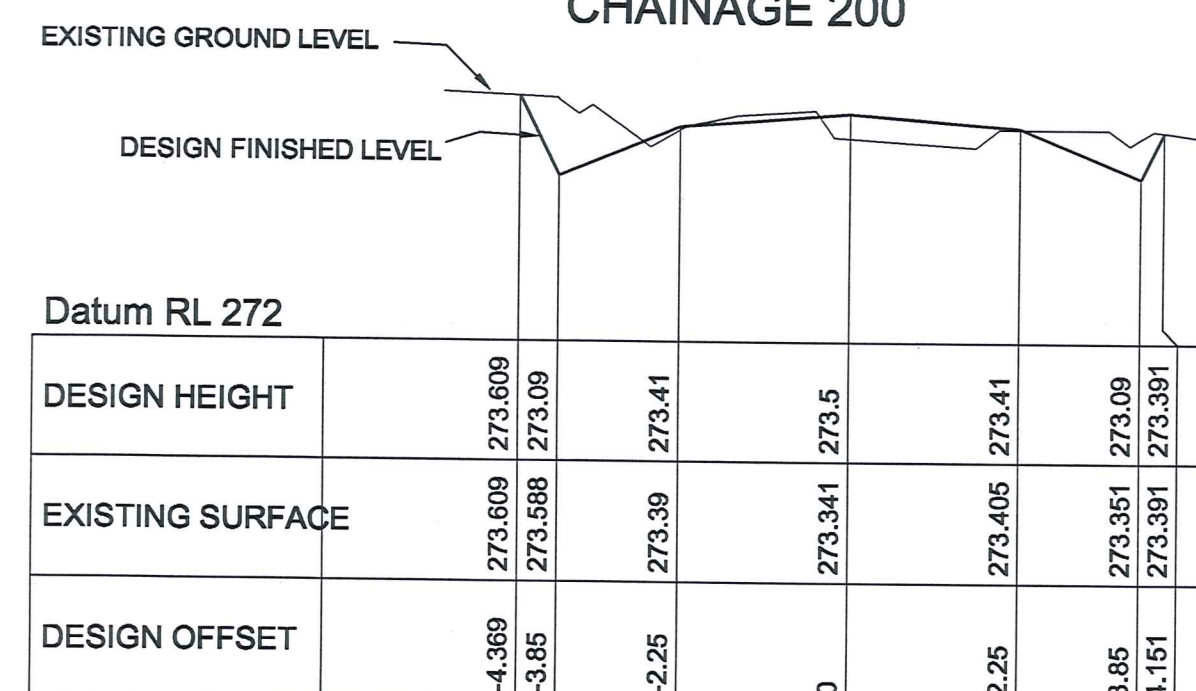
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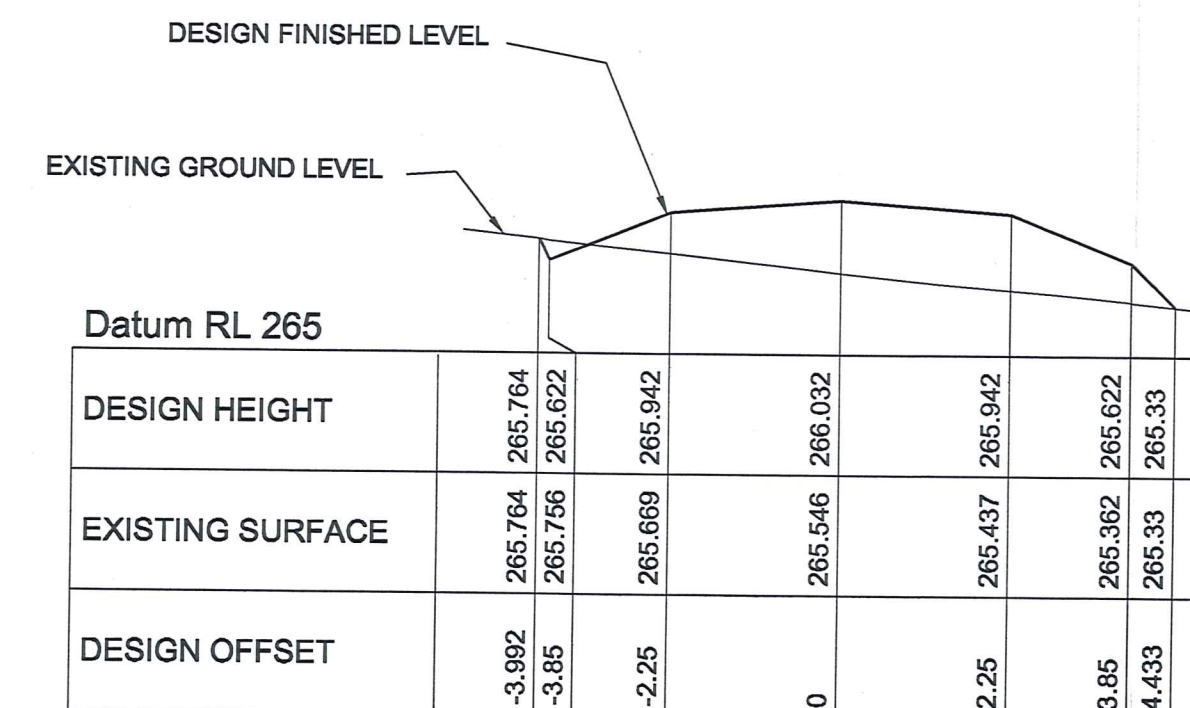
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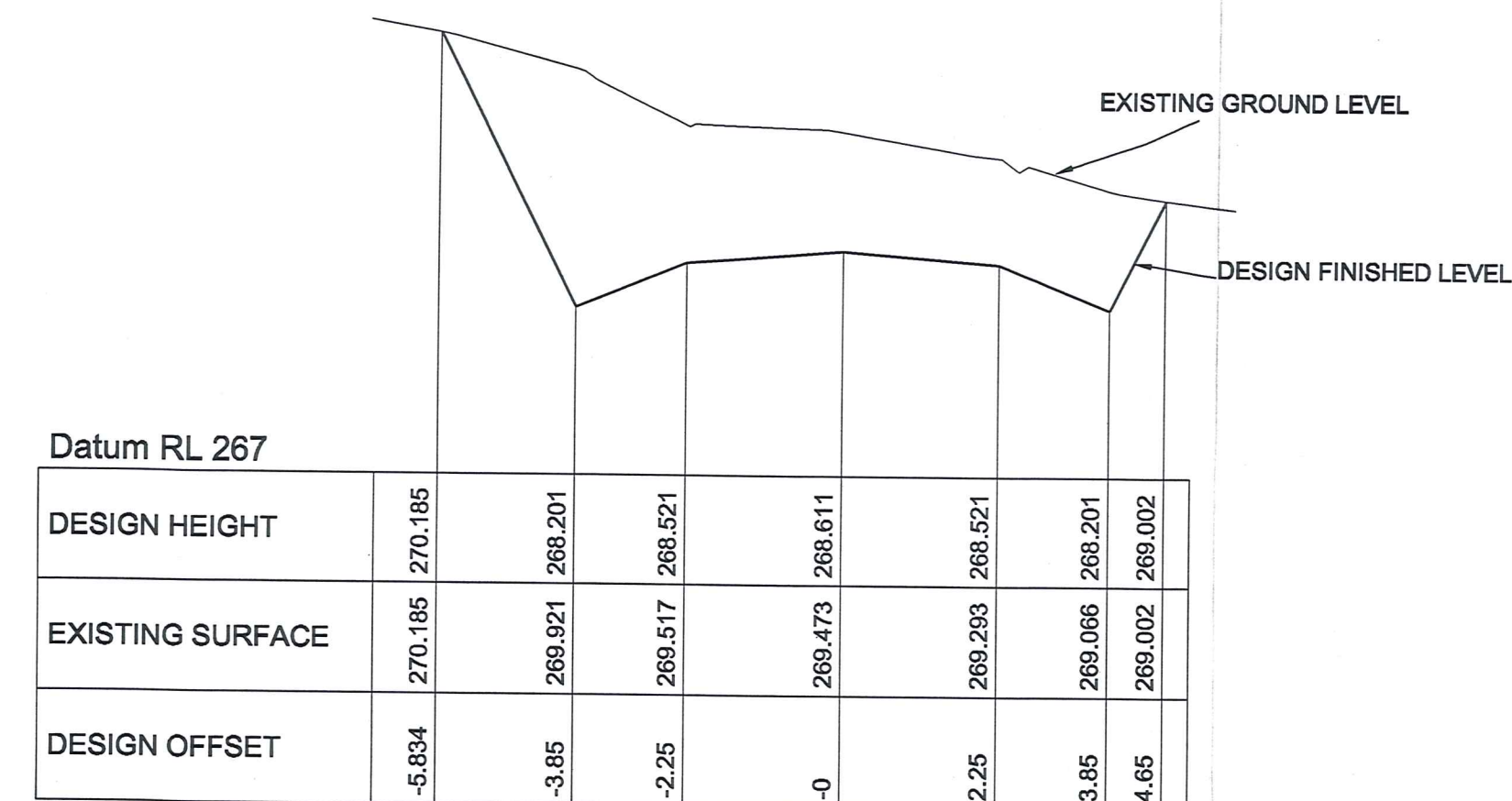
CHAINAGE 0



CHAINAGE 150



CHAINAGE 350



CHAINAGE 300

Rev.	Date	Revision Details	By	Ver.	App.
01					

Connell Wagner

Connell Wagner Limited
Level 4, Torrens House 195 Hereford St.
(P.O. Box 1081) Christchurch New Zealand

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Email: cwcho@connwag.com

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Client:

CENTRAL OTAGO
PINOT NOIR ESTATES
LIMITED

Project:

Mc ARTHUR RIDGE
PINOT NOIR HOLDINGS

Surveyed	Signed	Date
Drawn	Signed RO	Date 04/03
Designed	Signed CHT/RO	Date 04/03
Verified	Signed CHT	Date 04/03
Approved	Signed CHT	Date 04/03

Drawing Title:

DESIGN OF
ACCESS TO LOTS
24 - 29
(CROSS SECTIONS)

CW Project No.

21522

Scale

1:50

1:100

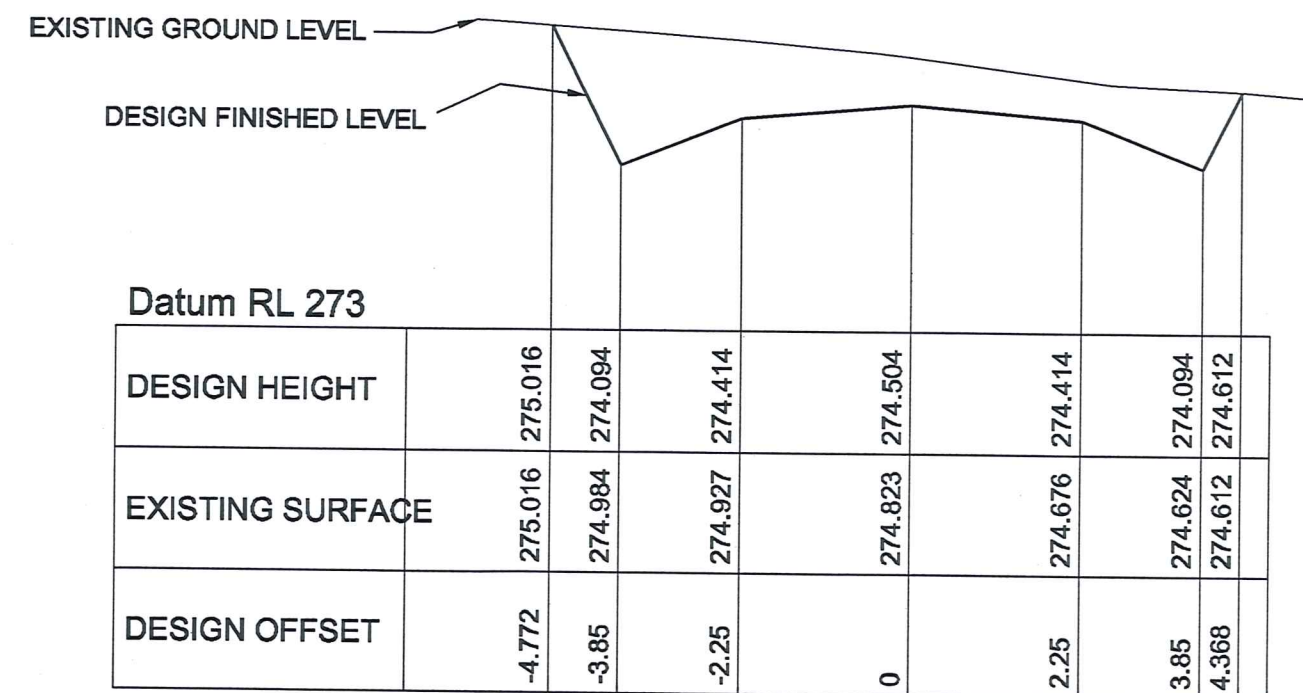
Drawing No.

Rev.

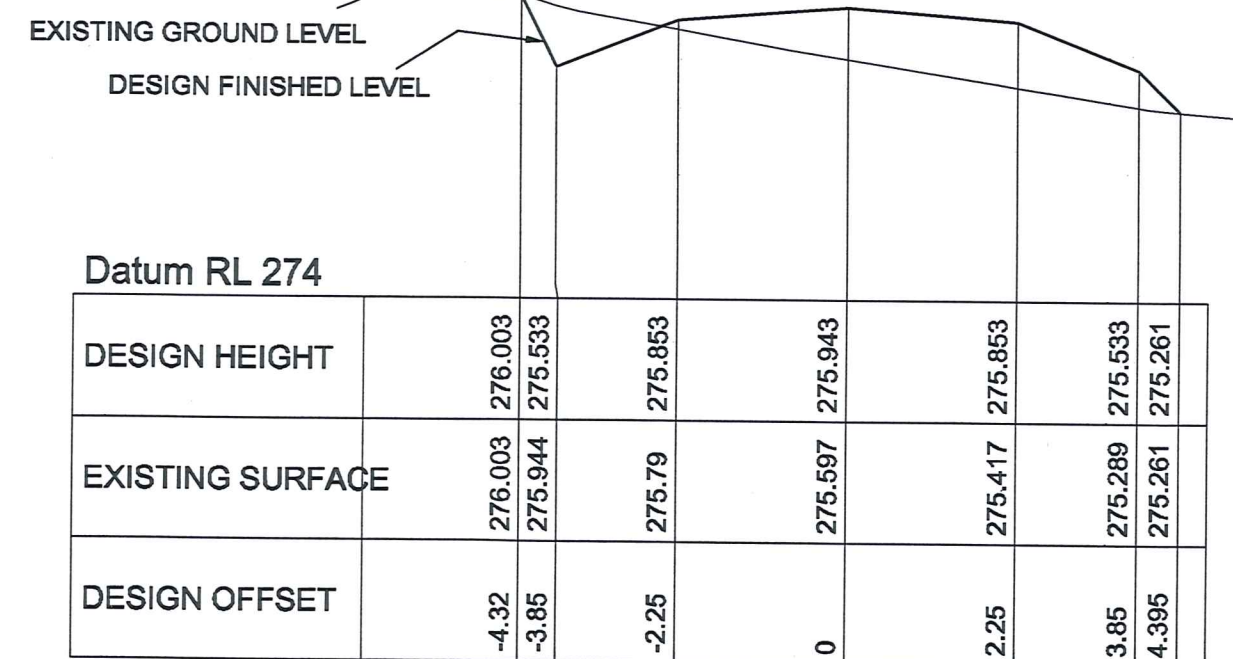
215

A

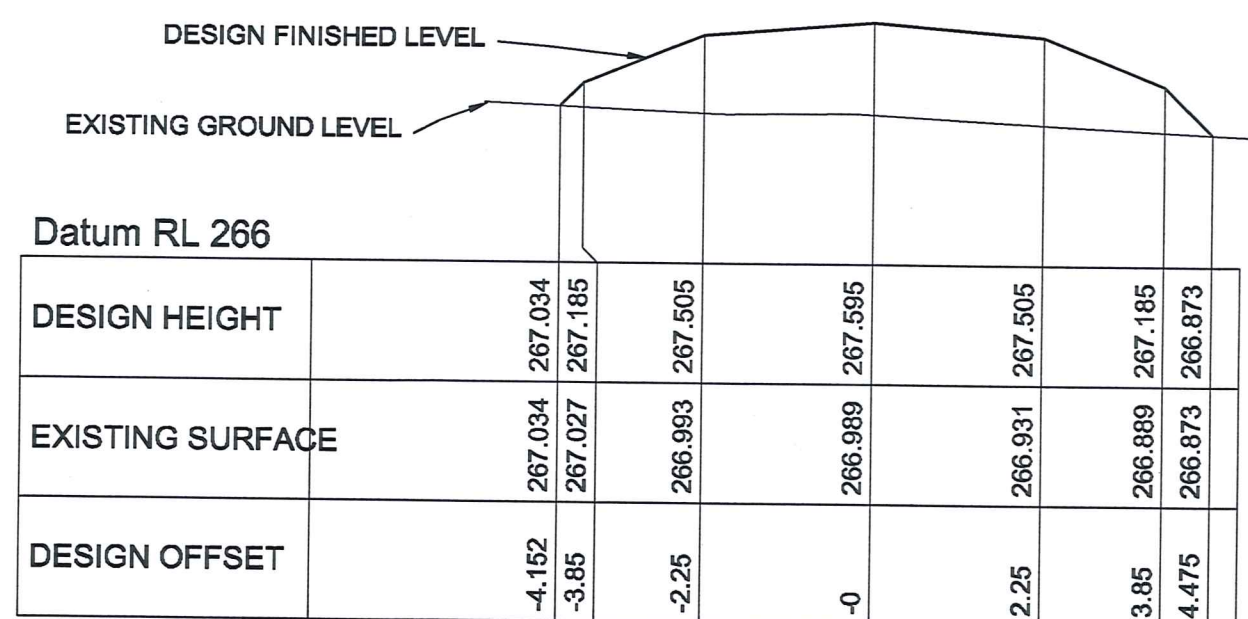
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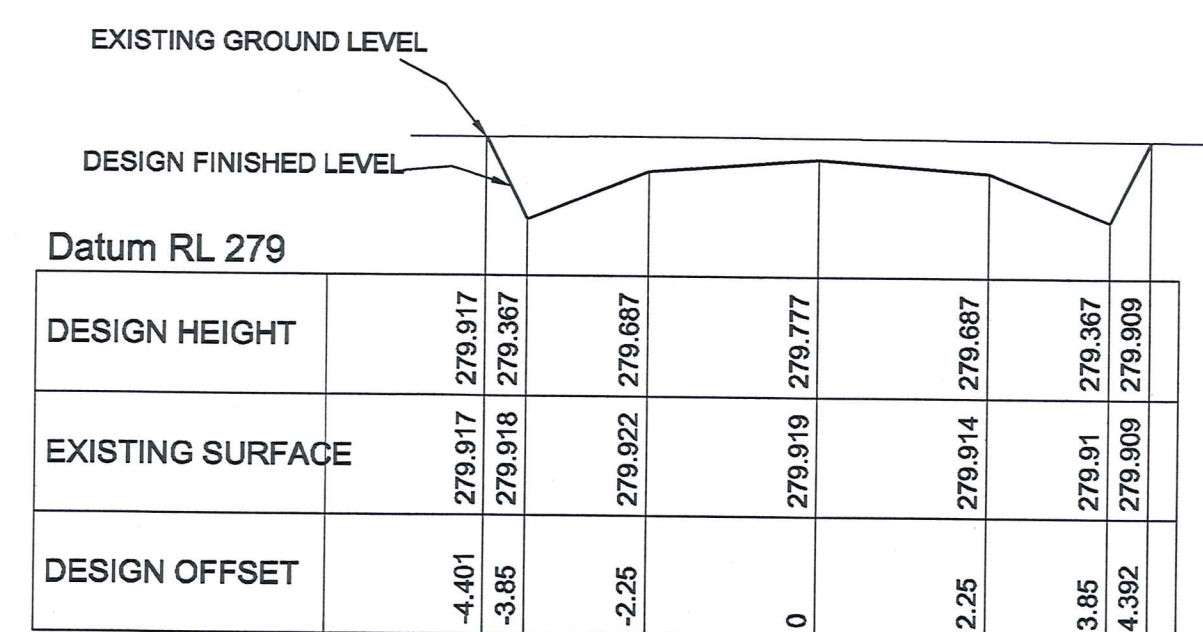
CHAINAGE 500



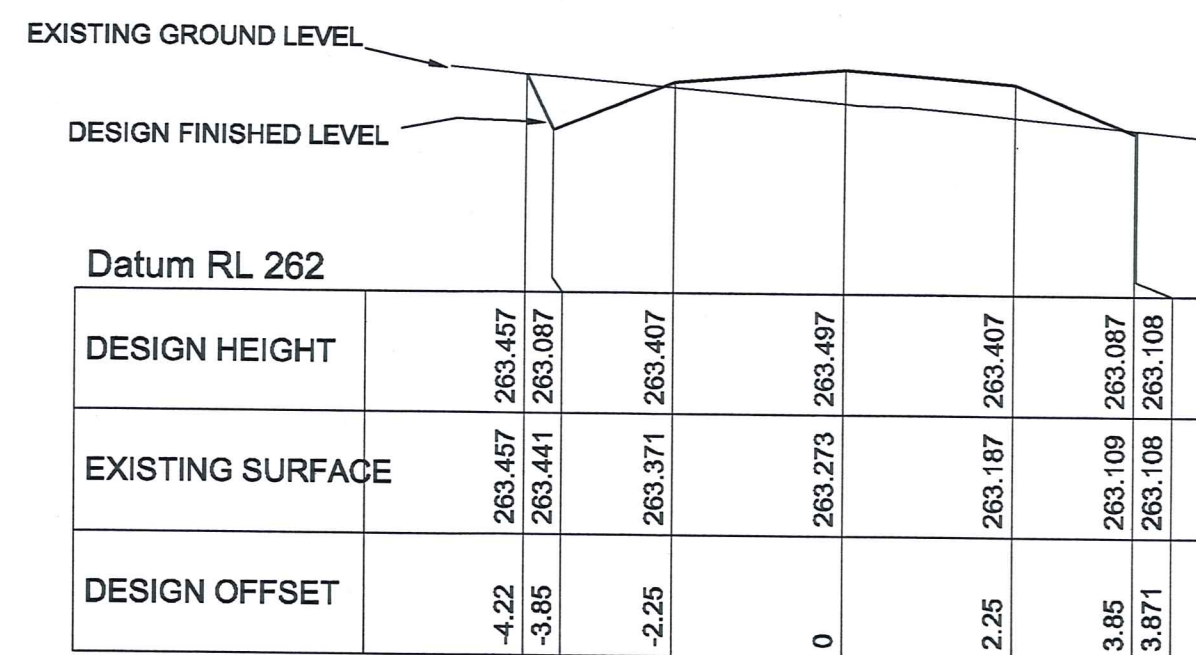
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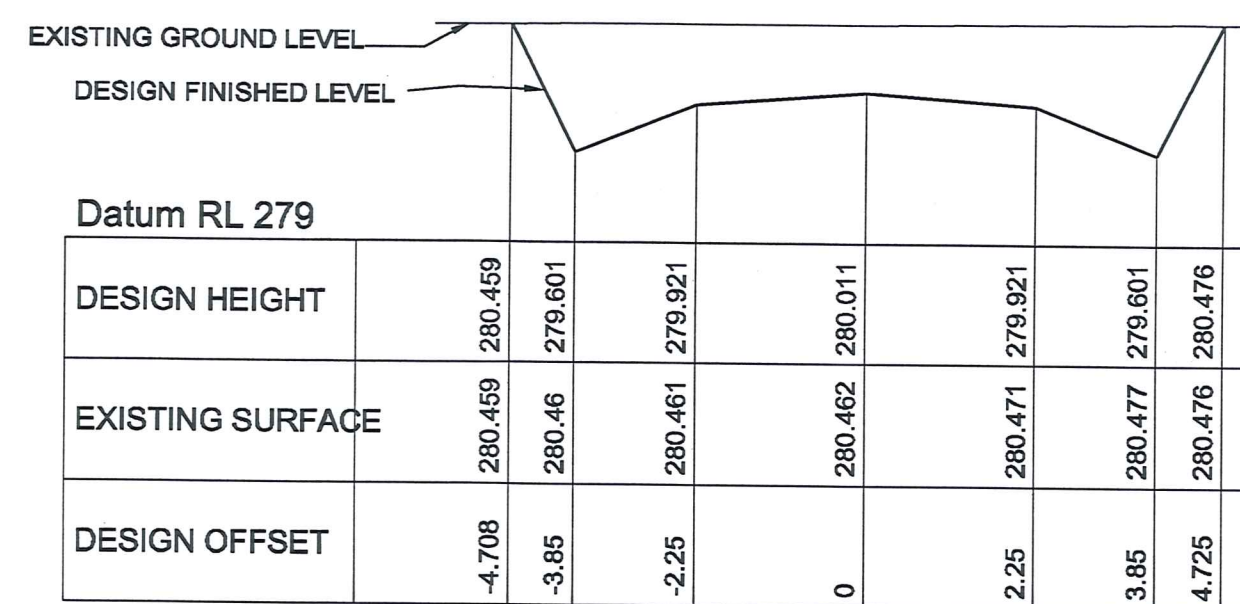
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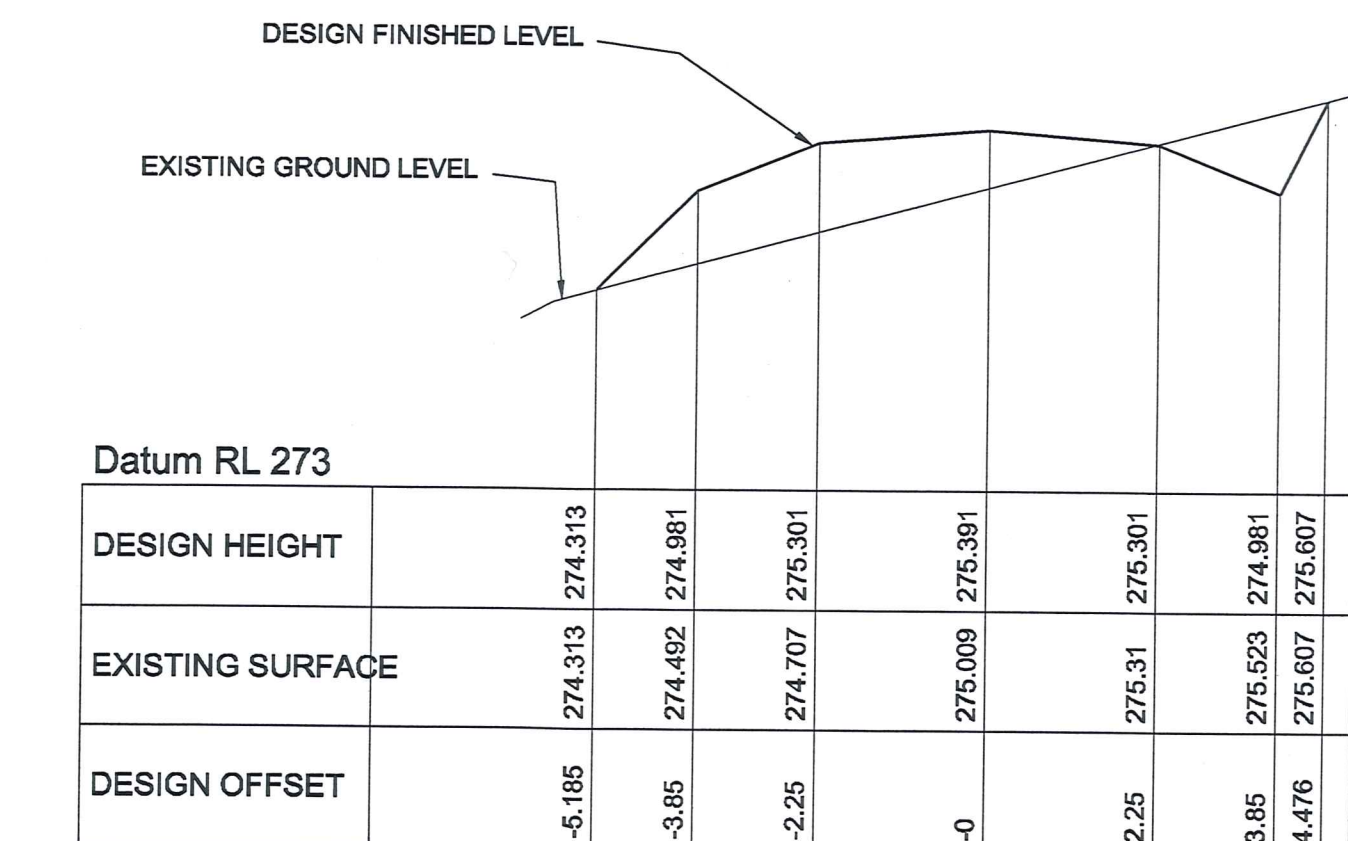
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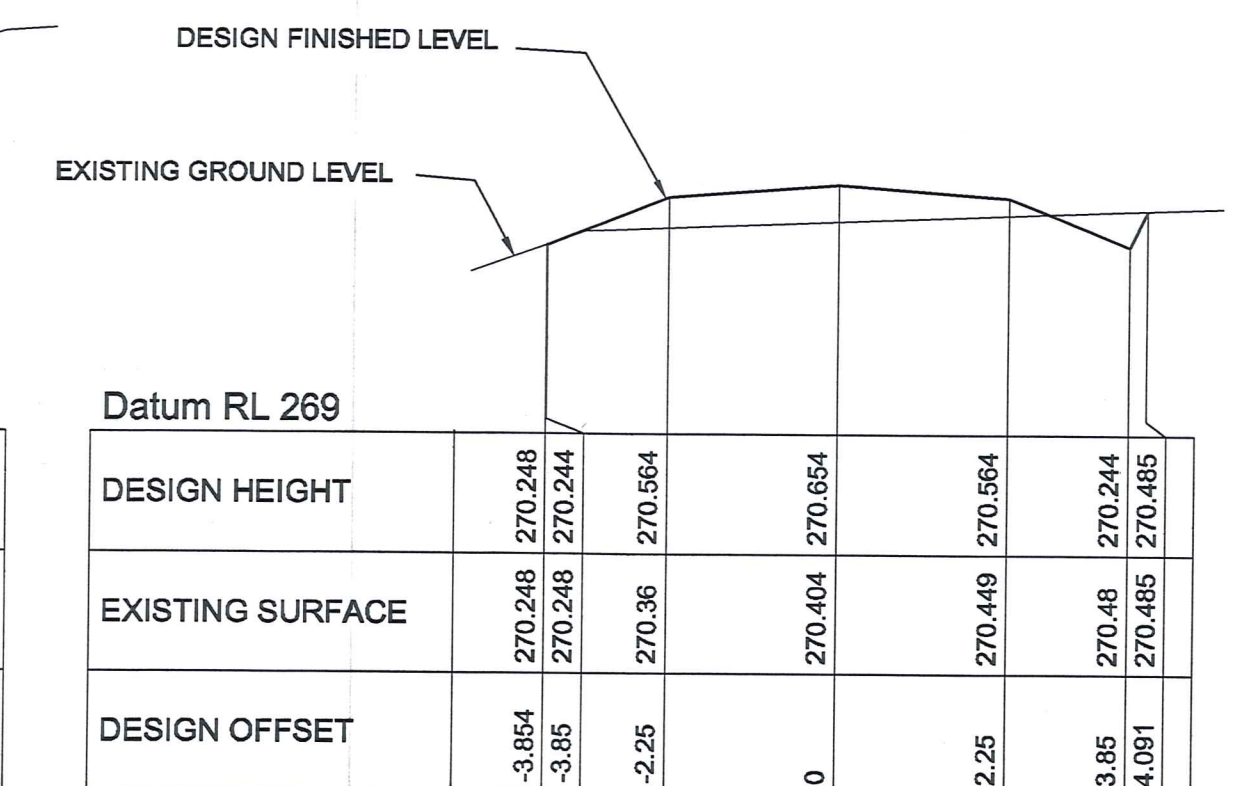
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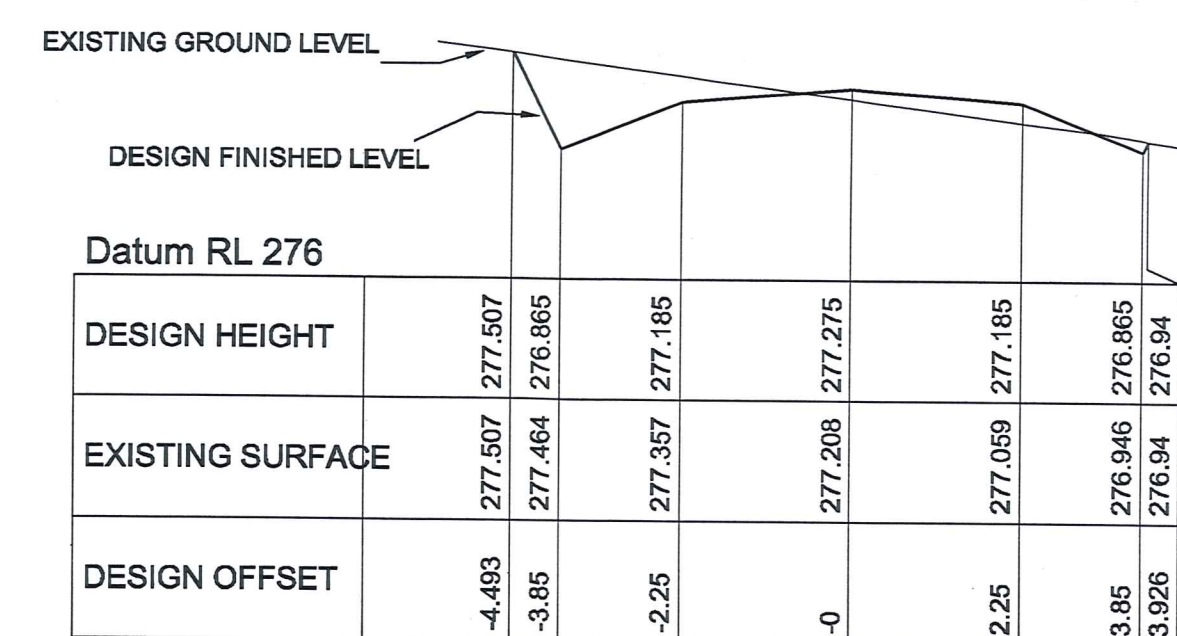
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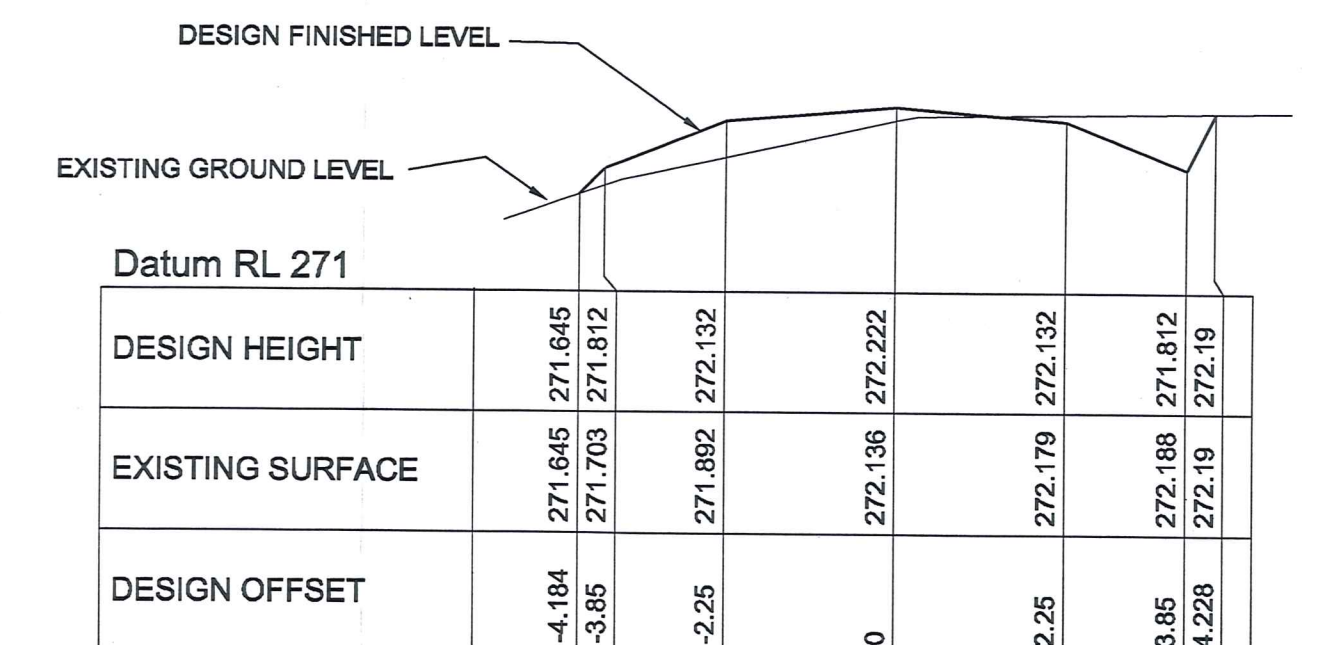
CHAINAGE 750



CHAINAGE 820.906



CHAINAGE 700



CHAINAGE 800

Rev.	Date	Revision Details	By	Ver.	App.
01					

Connell WagnerConnell Wagner Limited
Level 4, Torrens House 195 Hereford St.
(P.O. Box 1061) Christchurch New Zealand
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Email: cwcho@connwag.comA person using Connell Wagner drawings and other data accepts the risk of:
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Client:

**CENTRAL OTAGO
PINOT NOIR ESTATES
LIMITED**

Project:

**Mc ARTHUR RIDGE
PINOT NOIR HOLDINGS**

Surveyed	Signed	Date
Drawn	Signed RO	Date 04/03
Designed	Signed CHT/RO	Date 04/03
Verified	Signed CHT	Date 04/03
Approved	Signed CHT	Date 04/03

Drawing Title:

**DESIGN OF
ACCESS TO LOTS
24 - 29
(CROSS SECTIONS)****APPROVAL/TENDER**

CW Project No.

21522

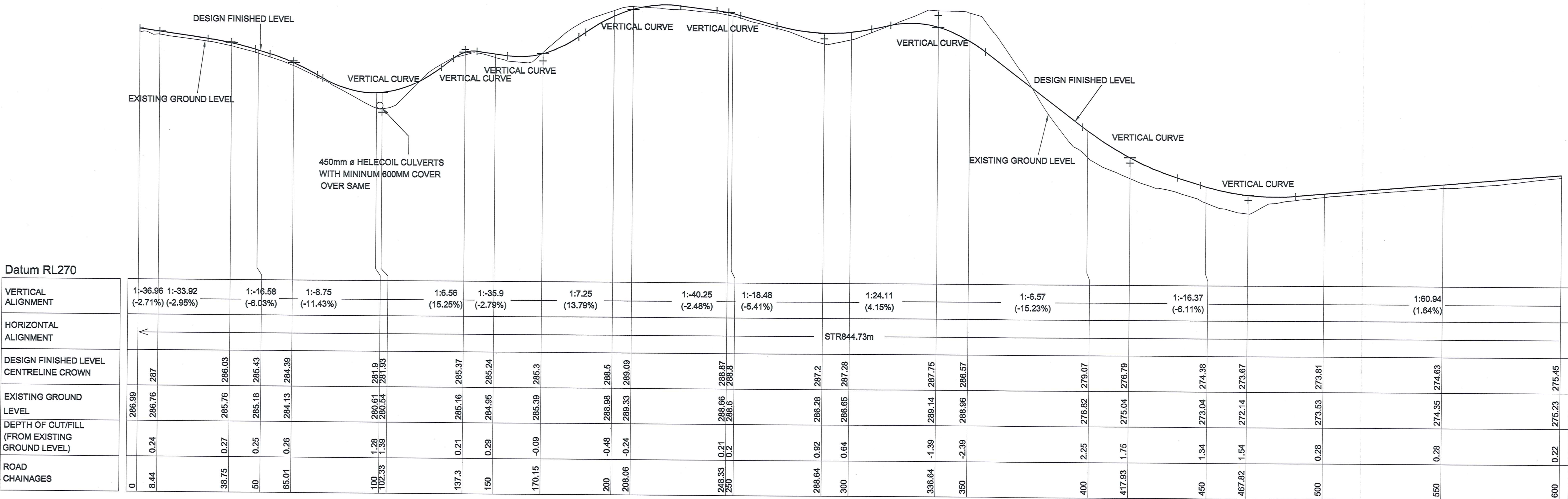
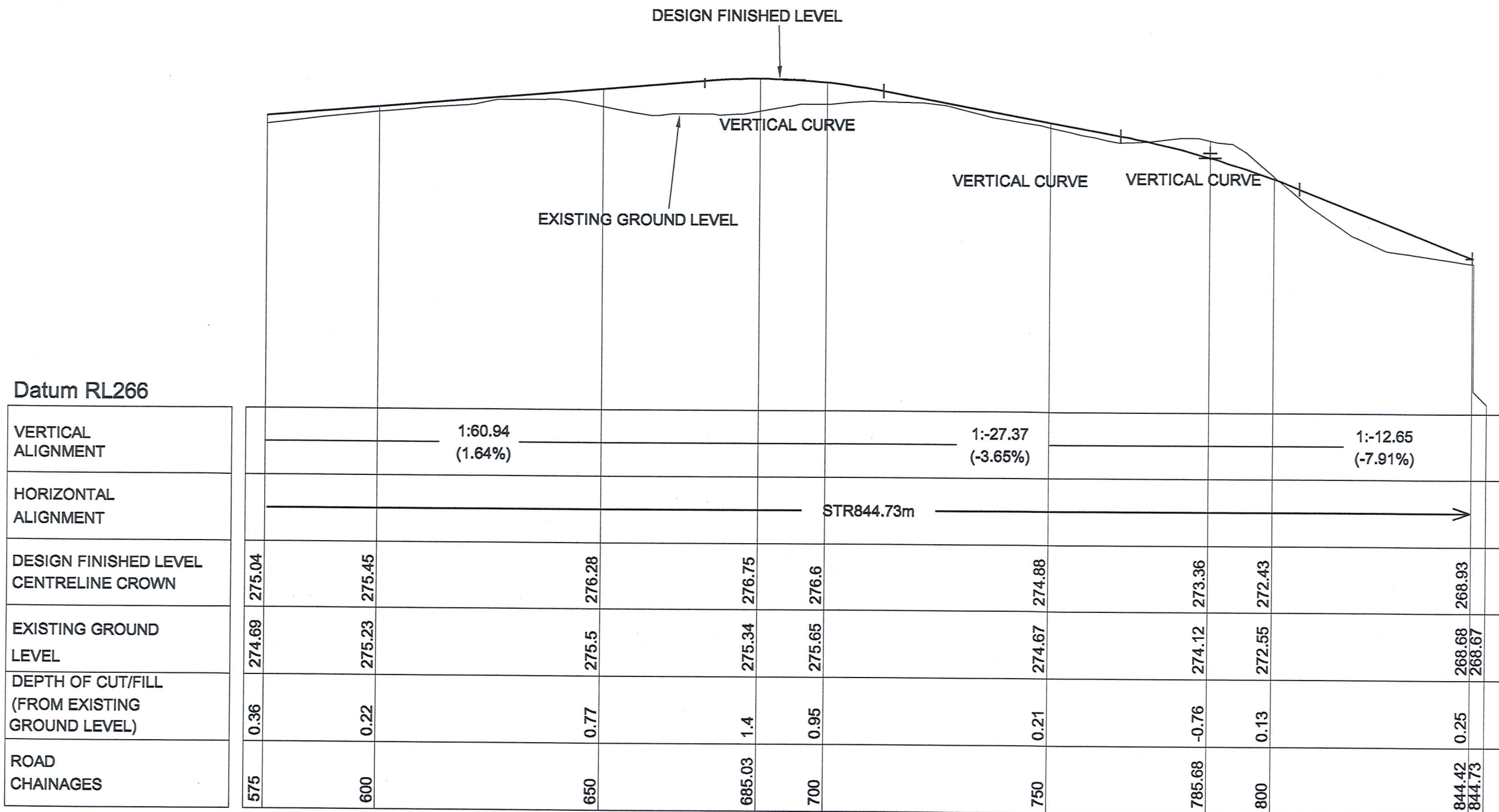
Scale

**1:50
HORIZ 1:100**

Drawing No.

216**A**

20 10 0 10 20 30 40 50 100mm



APPROVAL/TENDER

Rev.		Date	Revision Details		By	Ver	App.	Connell Wagner Connell Wagner Limited Level 4, Torrens House 195 Hereford St. (P.O. Box 1081) Christchurch New Zealand Telephone: +64 3 366 0821 Facsimile: +64 3 379 6955 Email: cwcho@connwag.com		Client: CENTRAL OTAGO PINOT NOIR ESTATES LIMITED	Project: Mc ARTHUR RIDGE PINOT NOIR HOLDINGS	Surveyed	Signed	Date	Drawing Title: DESIGN OF ACCESS TO LOTS 15 - 21 (LONGSECTIONS)	CW Project No. 21522
01								A person using Connell Wagner drawings and other data accepts the risk of: 1. using the drawings and other data in electronic form without requesting and checking them for accuracy against the original hard copy versions; 2. using the drawings or other data for any purpose not agreed to in writing by Connell Wagner.				Drawn	Signed RO	Date 04/03	Scale NOT TO SCALE VERT 1:100	Rev.
												Designed	Signed CHT/RO	Date 04/03		217
												Verified	Signed CHT	Date 04/03		A
												Approved	Signed CHT	Date 04/03		



CHAINAGE 500

CHAINAGE 450

CHAINAGE 400

CHAINAGE 700.000

CHAINAGE 650

CHAINAGE 600

CHAINAGE 550

CHAINAGE 844

CHAINAGE 800

CHAINAGE 750

Client:	
---------	--

CENTRAL OTAGO
PINOT NOIR ESTATES
LIMITED

Project:

Mc ARTHUR RIDGE
PINOT NOIR HOLDINGS

Surveyed	Signed	Date
Drawn	Signed RO	Date 04/03
Designed	Signed CHT/RO	Date 04/03
Verified	Signed CHT	Date 04/03
Approved	Signed CHT	Date 04/03

Drawing Title:

DESIGN OF
ACCESS TO LOTS
15 - 21
(CROSS SECTIONS)

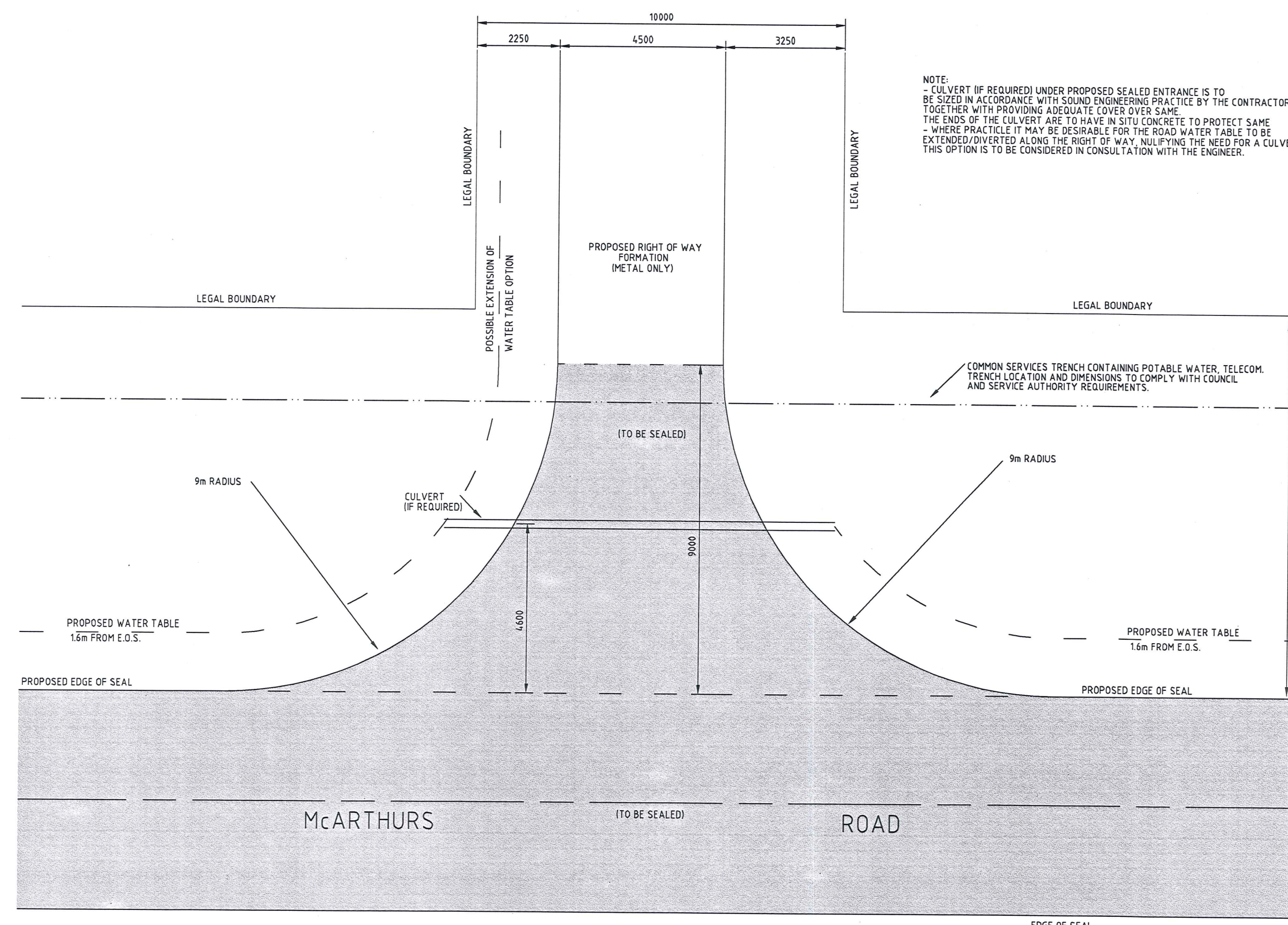
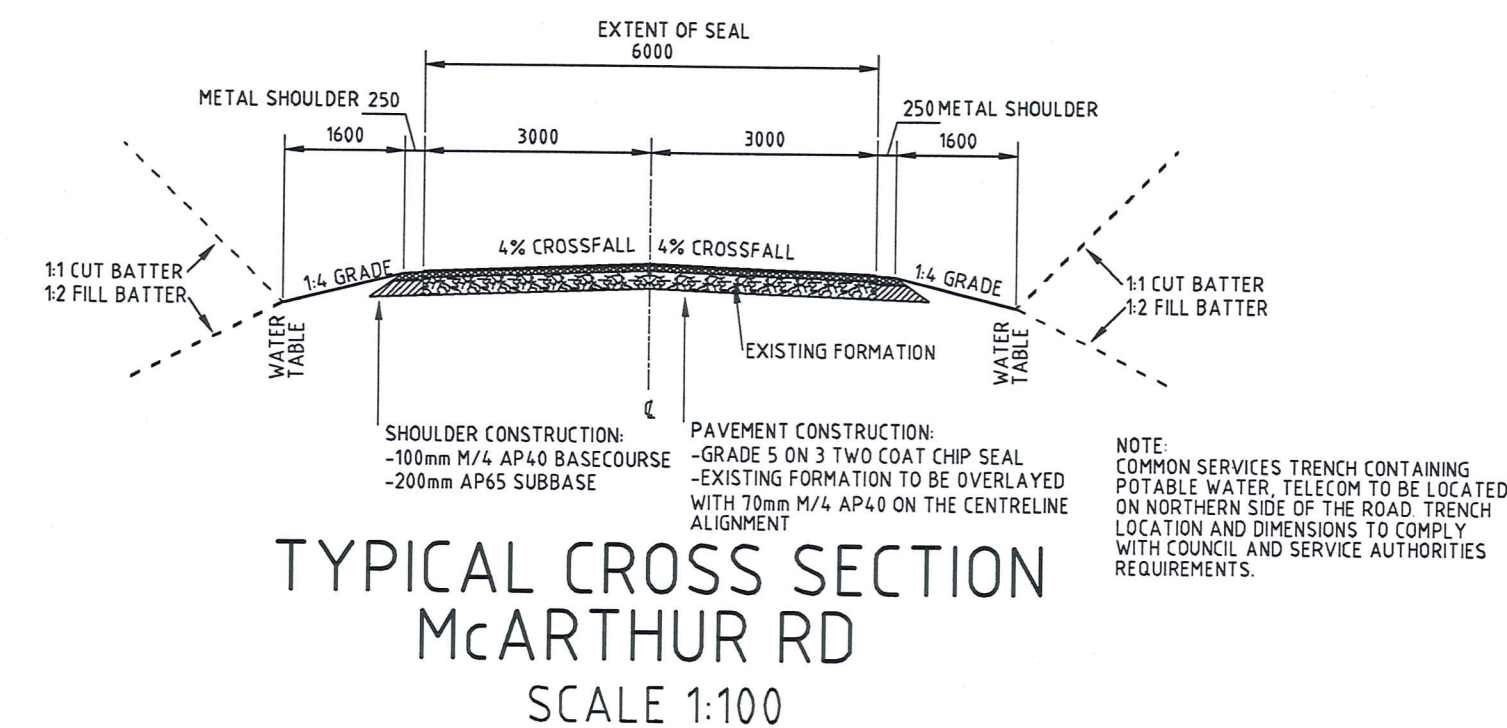
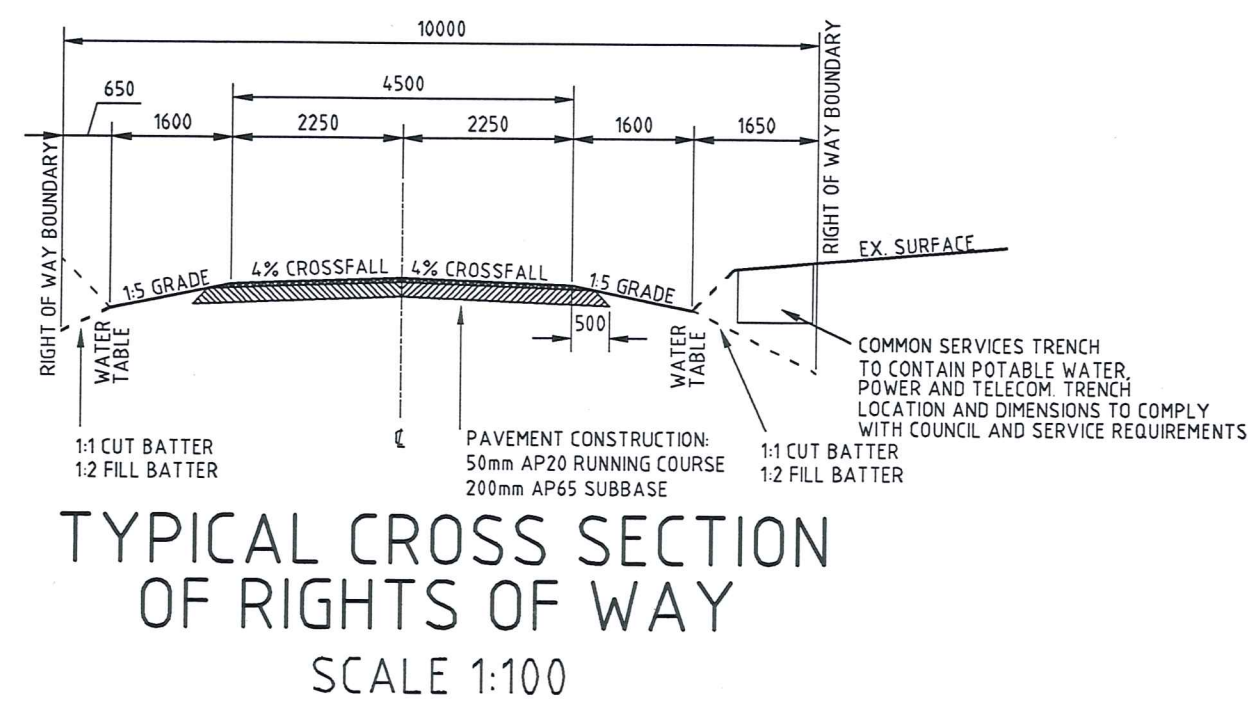
CW Project No.

21522

Scale
1:50
HORIZ 1:100

219

A



NOTE:
- CULVERT (IF REQUIRED) UNDER PROPOSED SEALED ENTRANCE IS TO BE SIZED IN ACCORDANCE WITH SOUND ENGINEERING PRACTICE BY THE CONTRACTOR TOGETHER WITH PROVIDING ADEQUATE COVER OVER SAME.
- WHERE PRACTICABLE IT MAY BE DESIRABLE FOR THE ROAD WATER TABLE TO BE EXTENDED/OVERTERED ALONG THE RIGHT OF WAY, NULLIFYING THE NEED FOR A CULVERT. THIS OPTION IS TO BE CONSIDERED IN CONSULTATION WITH THE ENGINEER.

APPROVAL/TENDER

Rev.	Date	Revision Details	By	Ver.	App.
01					

Connell Wagner

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Level 4, Torrens House 195 Hereford St.
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Email: cww@connellwagner.co.nz

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**CENTRAL OTAGO
PINOT NOIR ESTATES
LIMITED**

Project:

**McARTHUR RIDGE
PINOT NOIR HOLDINGS**

Surveyed	Signed	Date
Drawn	Signed DM	Date 04-03
Designed	Signed DM	Date 04-03
Verified	Signed JD	Date 04-03
Approved	Signed JD	Date 04-03

Drawing Title:
**PROPOSED ROW INTERSECTION
DETAIL &
McARTHUR RD & ROW
TYPICAL CROSS SECTIONS**

CW Project No.

21522

Scale

AS SHOWN @ A1

Drawing No.

220

A