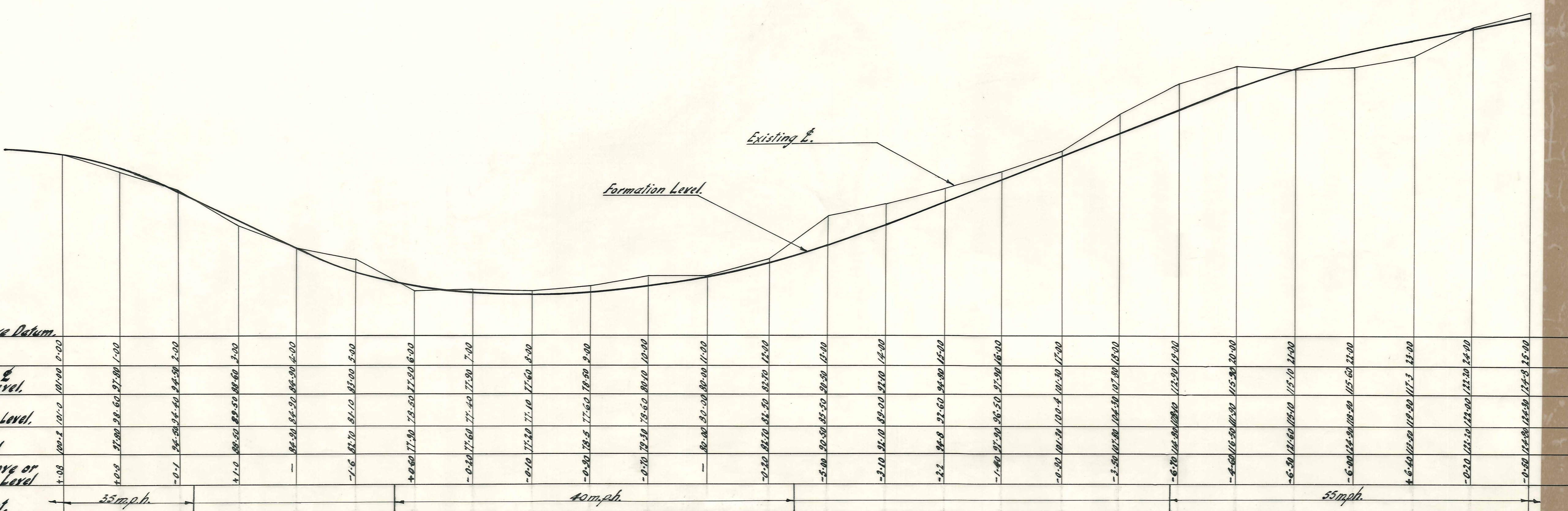
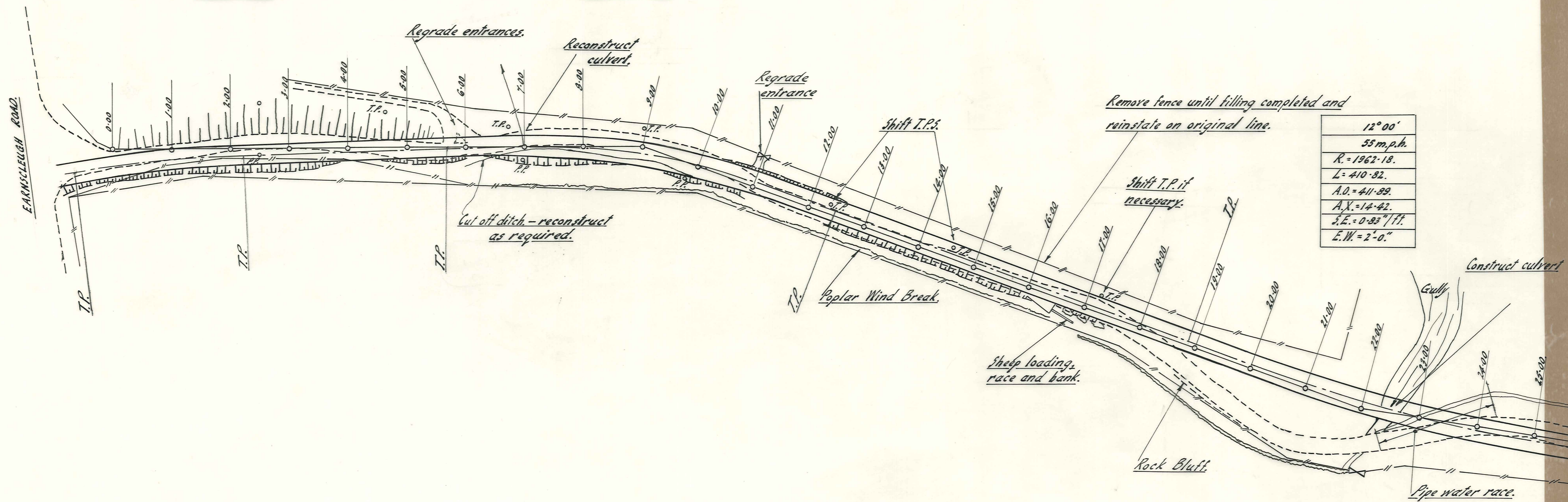


35 m.p.h.  
 D = 2° 00'  
 R = 1198.59  
 L = 146.43  
 A.O. = 146.55  
 S.E. = 0.35"/ft.  
 E.W. = 2'-0"  
 A.X. = 2.39

40 m.p.h.  
 D = 22° 30'  
 R = 860.66  
 L = 337.60  
 A.O. = 340.69  
 A.X. = 22.47  
 S.E. = 0.97"/ft.  
 E.W. = 2'-0"

12° 00'  
 55 m.p.h.  
 R = 1962.18  
 L = 410.82  
 A.O. = 411.89  
 A.X. = 14.42  
 S.E. = 0.83"/ft.  
 E.W. = 2'-0"



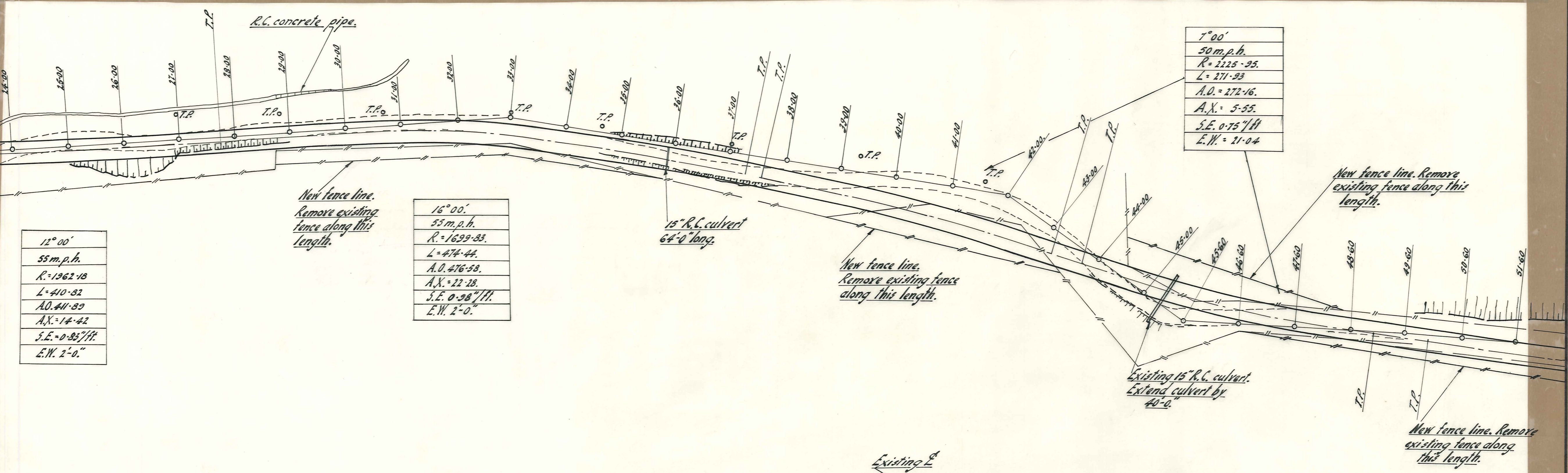
VINCENT COUNTY COUNCIL

CHAPMANS ROAD RECONSTRUCTION

AMENDMENTS				NAME	DATE
No.	By	Date	Description	Apprd.	

DUFFILL, WATTS & KING  
 CONSULTING CIVIL & STRUCTURAL ENGINEERS  
 DUNEDIN & INVERCARGILL N.Z.

File No. 4570/1  
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12° 00'  
55 m.p.h.  
R = 1962.18  
L = 410.82  
A.O. = 411.89  
A.X. = 14.42  
S.E. = 0.83"/ft.  
E.W. = 2'-0."

New fence line.  
Remove existing  
fence along this  
length.

16° 00'  
55 m.p.h.  
R = 1699.83  
L = 474.44  
A.O. = 476.53  
A.X. = 22.28  
S.E. = 0.98"/ft.  
E.W. = 2'-0."

15" R.C. culvert  
64'-0" long.

New fence line.  
Remove existing fence  
along this length.

Existing 15" R.C. culvert.  
Extend culvert by  
40'-0"

New fence line. Remove  
existing fence along this  
length.

New fence line. Remove  
existing fence along  
this length.

7° 00'  
50 m.p.h.  
R = 2225.95  
L = 271.93  
A.O. = 272.16  
A.X. = 5.55  
S.E. = 0.75"/ft.  
E.W. = 21'-0.4"

Formation Level.

Existing E

Chainage	Existing E Level	Formation Level	Peg Level	Height Above or Below Peg Level	Alignment
14+00	124.00	125.00	124.00	0.00	55 m.p.h.
15+00	125.00	126.00	125.00	1.00	
16+00	126.00	127.00	126.00	1.00	55 m.p.h.
17+00	127.00	128.00	127.00	1.00	
18+00	128.00	129.00	128.00	1.00	55 m.p.h.
19+00	129.00	130.00	129.00	1.00	
20+00	130.00	131.00	130.00	1.00	55 m.p.h.
21+00	131.00	132.00	131.00	1.00	
22+00	132.00	133.00	132.00	1.00	55 m.p.h.
23+00	133.00	134.00	133.00	1.00	
24+00	134.00	135.00	134.00	1.00	55 m.p.h.
25+00	135.00	136.00	135.00	1.00	
26+00	136.00	137.00	136.00	1.00	55 m.p.h.
27+00	137.00	138.00	137.00	1.00	
28+00	138.00	139.00	138.00	1.00	55 m.p.h.
29+00	139.00	140.00	139.00	1.00	
30+00	140.00	141.00	140.00	1.00	55 m.p.h.
31+00	141.00	142.00	141.00	1.00	
32+00	142.00	143.00	142.00	1.00	55 m.p.h.
33+00	143.00	144.00	143.00	1.00	
34+00	144.00	145.00	144.00	1.00	55 m.p.h.
35+00	145.00	146.00	145.00	1.00	
36+00	146.00	147.00	146.00	1.00	55 m.p.h.
37+00	147.00	148.00	147.00	1.00	
38+00	148.00	149.00	148.00	1.00	55 m.p.h.
39+00	149.00	150.00	149.00	1.00	
40+00	150.00	151.00	150.00	1.00	55 m.p.h.
41+00	151.00	152.00	151.00	1.00	
42+00	152.00	153.00	152.00	1.00	55 m.p.h.
43+00	153.00	154.00	153.00	1.00	
44+00	154.00	155.00	154.00	1.00	55 m.p.h.
45+00	155.00	156.00	155.00	1.00	
46+00	156.00	157.00	156.00	1.00	55 m.p.h.
47+00	157.00	158.00	157.00	1.00	
48+00	158.00	159.00	158.00	1.00	55 m.p.h.
49+00	159.00	160.00	159.00	1.00	
50+00	160.00	161.00	160.00	1.00	55 m.p.h.
51+00	161.00	162.00	161.00	1.00	
52+00	162.00	163.00	162.00	1.00	55 m.p.h.
53+00	163.00	164.00	163.00	1.00	
54+00	164.00	165.00	164.00	1.00	55 m.p.h.
55+00	165.00	166.00	165.00	1.00	
56+00	166.00	167.00	166.00	1.00	55 m.p.h.
57+00	167.00	168.00	167.00	1.00	

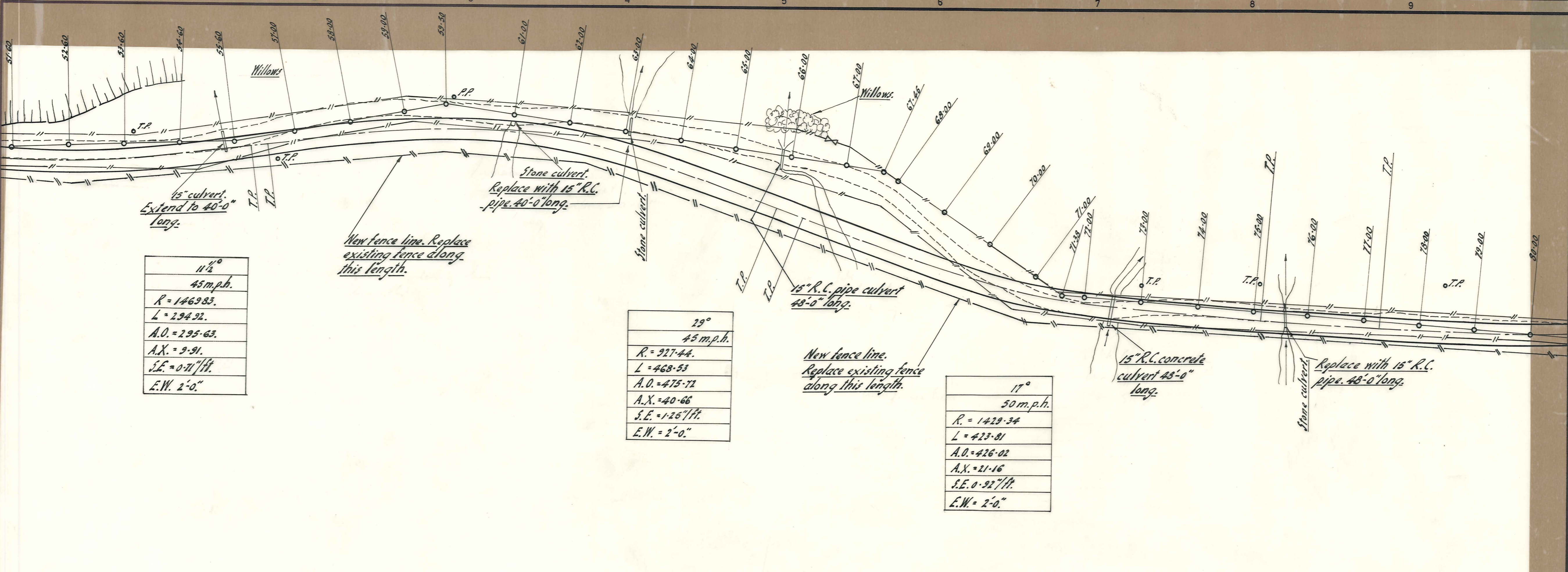
VINCENT COUNTY  
COUNCIL

CHAPMANS ROAD RECONSTRUCTION.

AMENDMENTS					NAME	DATE
No.	By	Date	Description	Apprd.		
					J.A. Hadley	Oct. 1965
					R. Alforden	Nov. '65

**DUFFILL, WATTS & KING**  
CONSULTING CIVIL & STRUCTURAL ENGINEERS  
DUNEDIN & INVERCARGILL N.Z.

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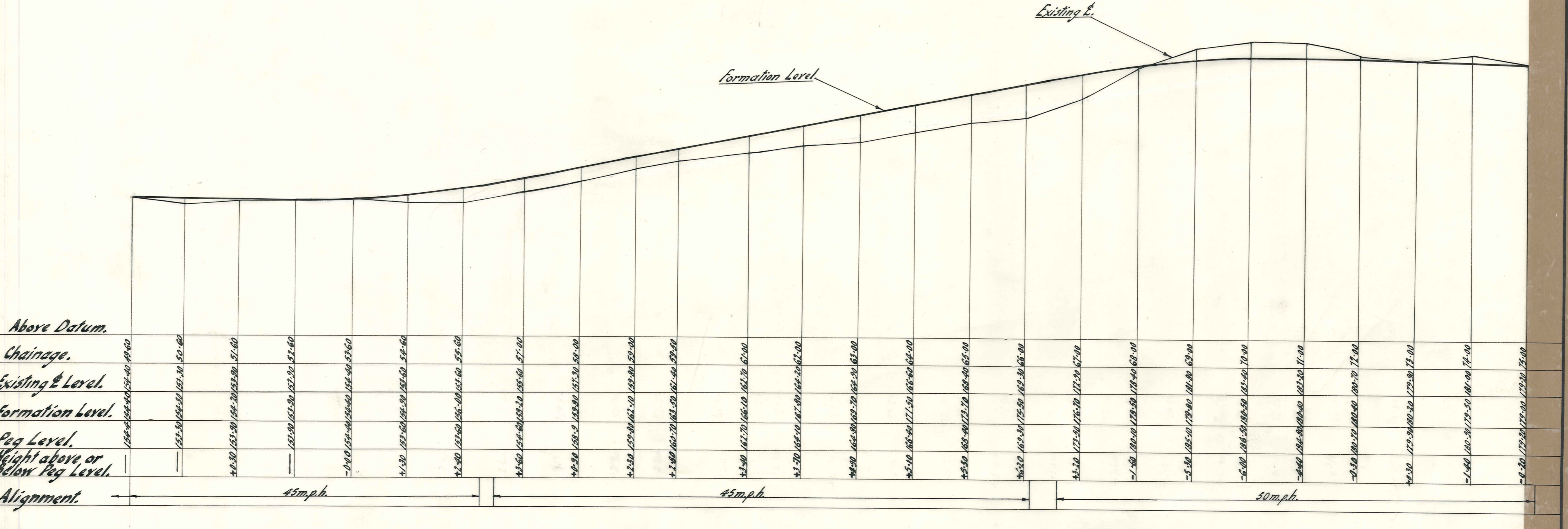
11 1/2°
45 m.p.h.
R = 1469.83
L = 294.92
A.O. = 295.63
A.X. = 9.91
S.E. = 0.71'/ft.
E.W. = 2'-0"

New fence line. Replace existing fence along this length.

29°
45 m.p.h.
R = 927.44
L = 468.53
A.O. = 475.71
A.X. = 40.66
S.E. = 1.25'/ft.
E.W. = 2'-0"

New fence line. Replace existing fence along this length.

17°
50 m.p.h.
R = 1429.34
L = 423.81
A.O. = 426.02
A.X. = 21.16
S.E. = 0.92'/ft.
E.W. = 2'-0"



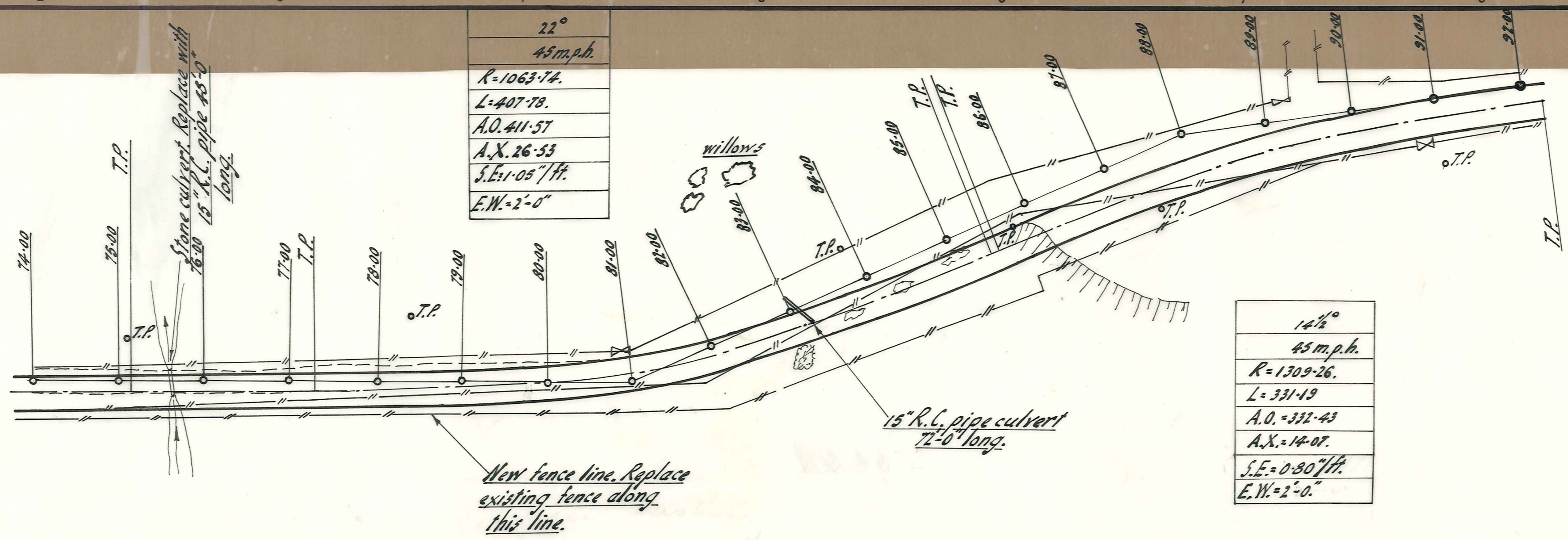
VINCENT COUNTY COUNCIL

CHAPMANS ROAD RECONSTRUCTION.

AMENDMENTS					NAME	DATE
No.	By	Date	Description	Apprd.		
					L.A. Hadley	Oct. 1965
					R. Alwarden	Nov. '65

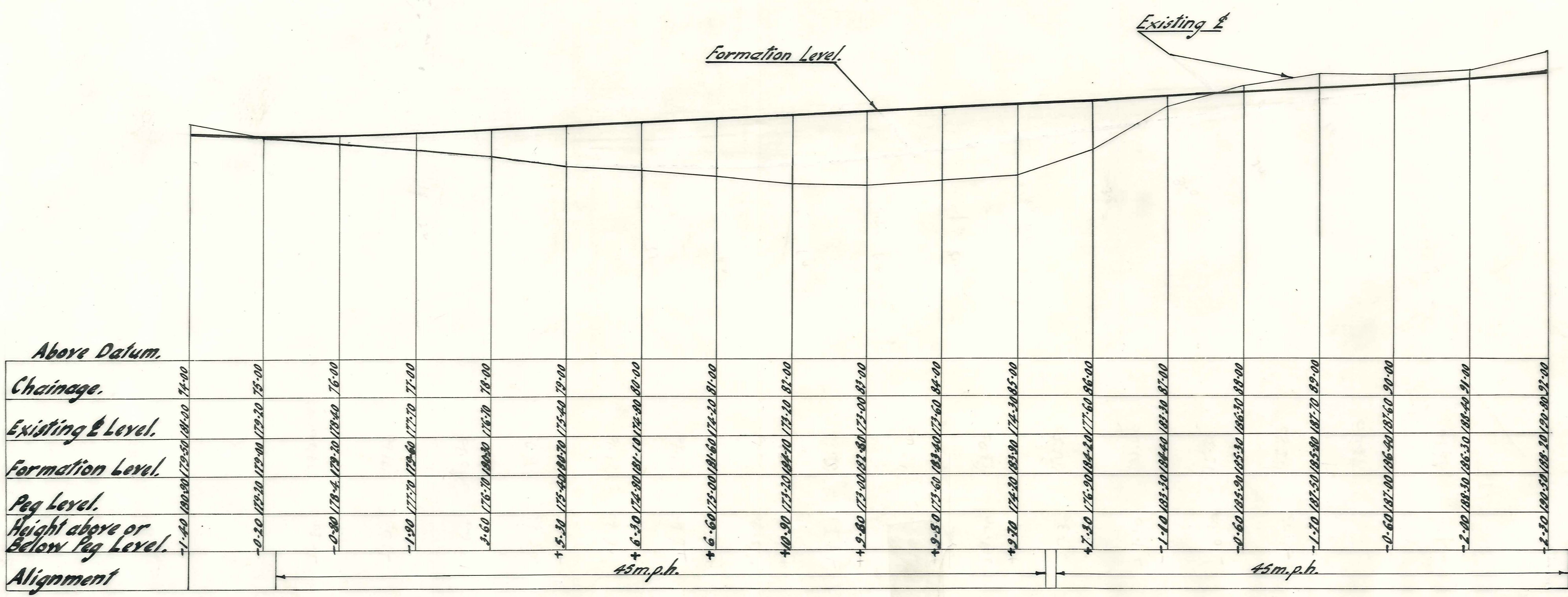
**DUFFILL, WATTS & KING**  
CONSULTING CIVIL & STRUCTURAL ENGINEERS  
DUNEDIN & INVERCARGILL N.Z.

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22°
45 m.p.h.
R=1063.74.
L=407.78.
A.O.=411.57
A.X.=26.53
S.E.=1.05'/ft.
E.W.=2'-0"

12 1/2°
45 m.p.h.
R=1309.26.
L=331.19
A.O.=332.43
A.X.=14.07
S.E.=0.80'/ft.
E.W.=2'-0"



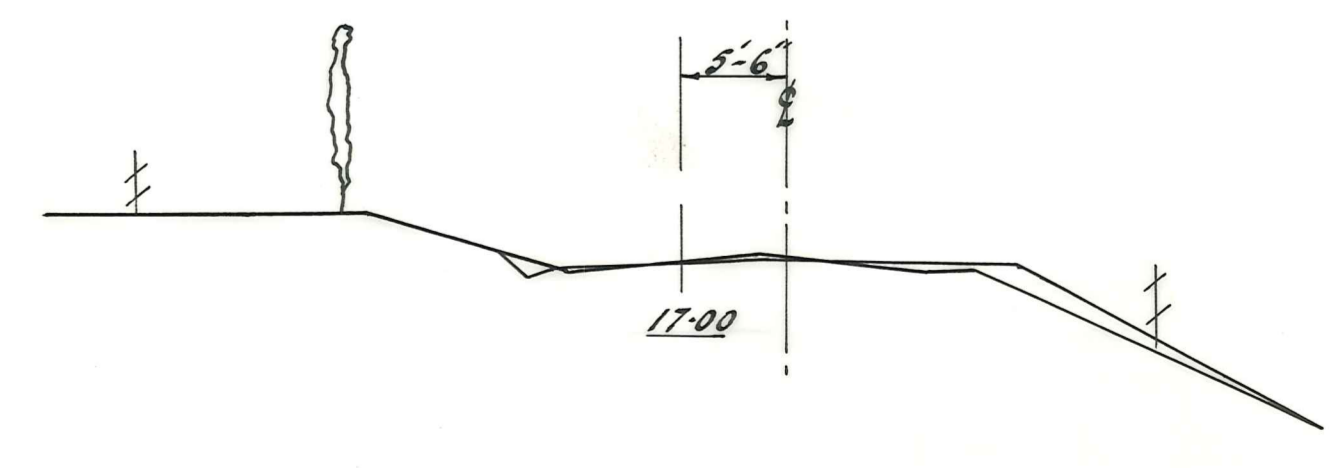
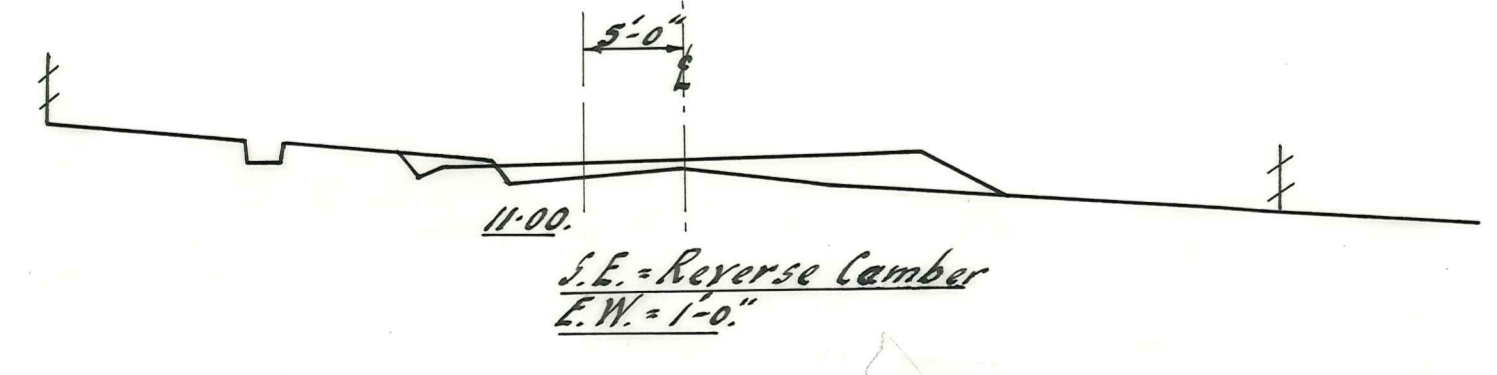
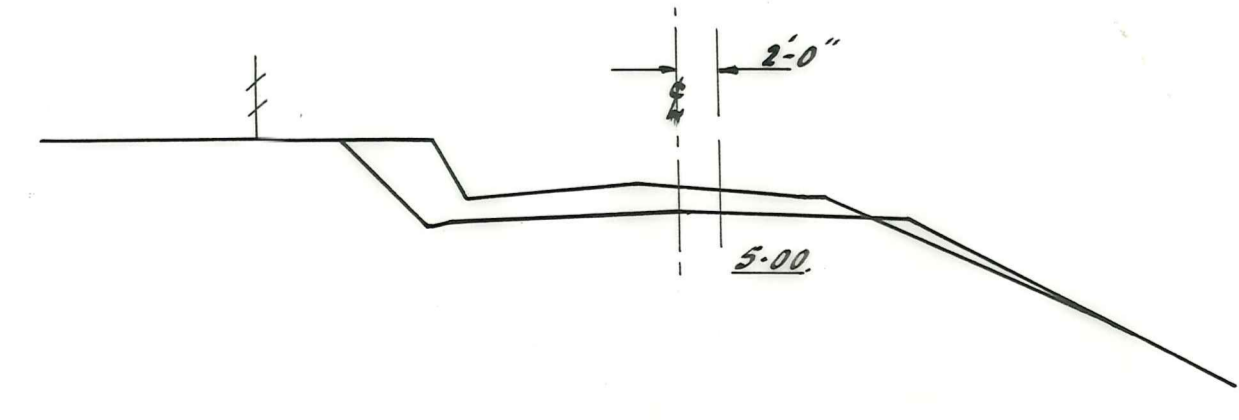
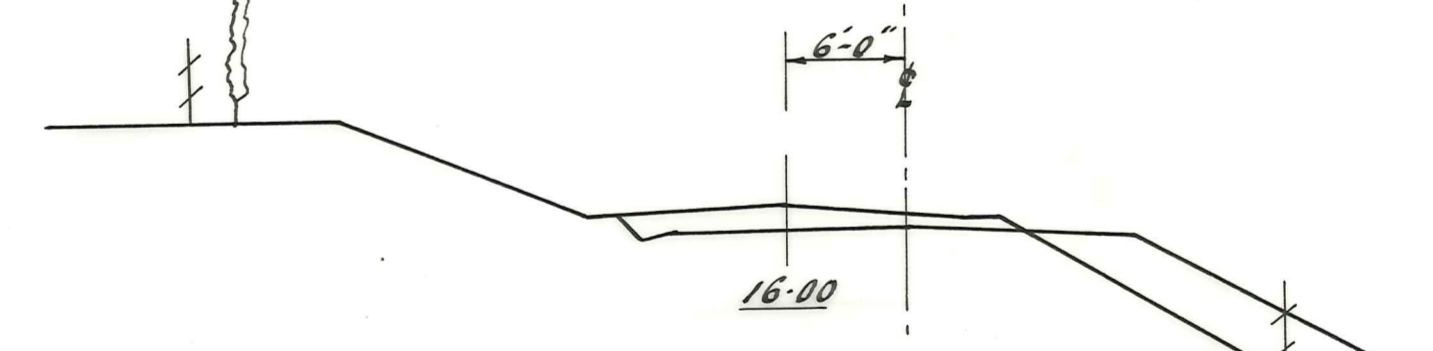
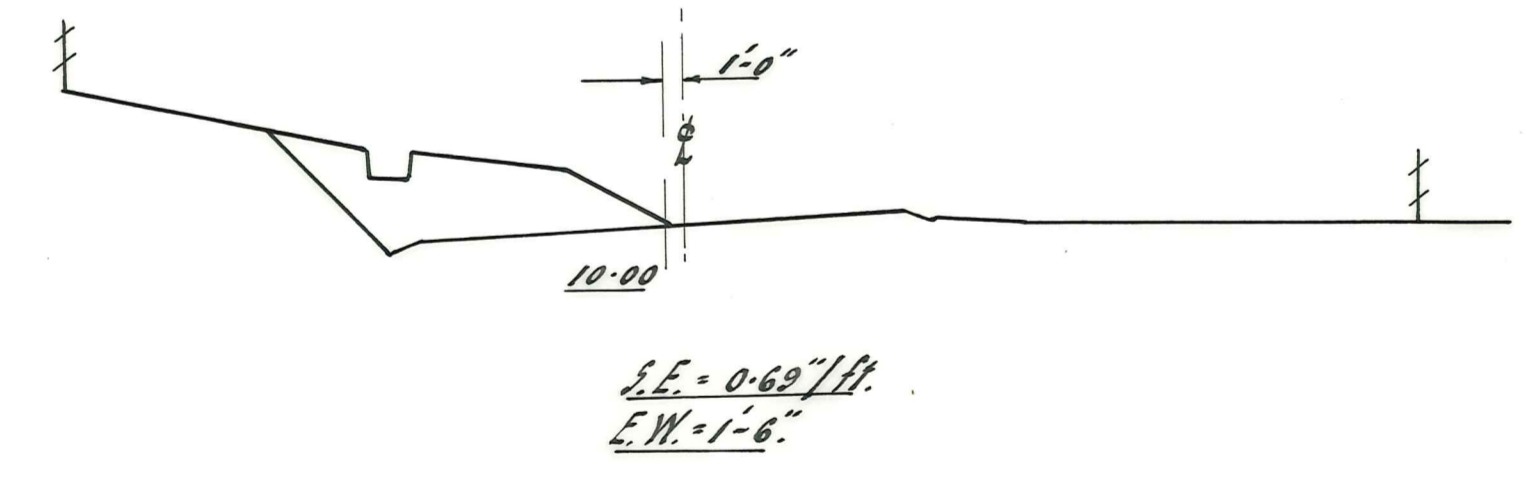
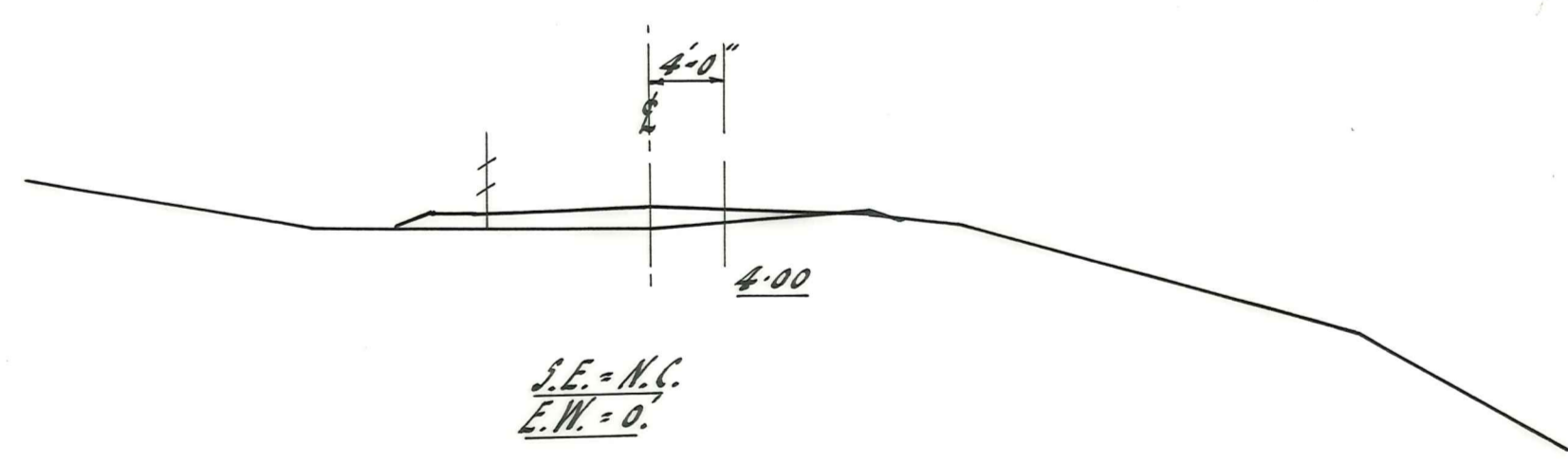
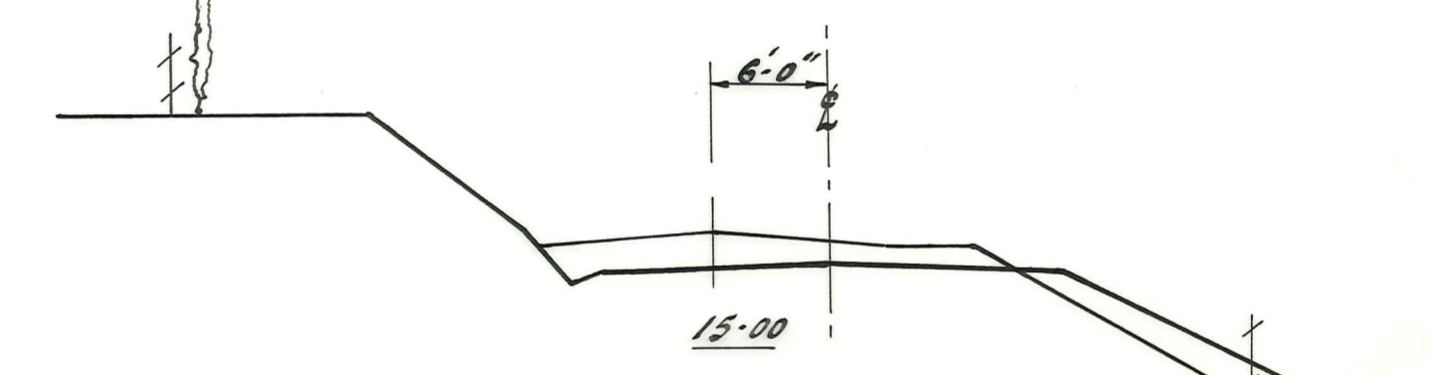
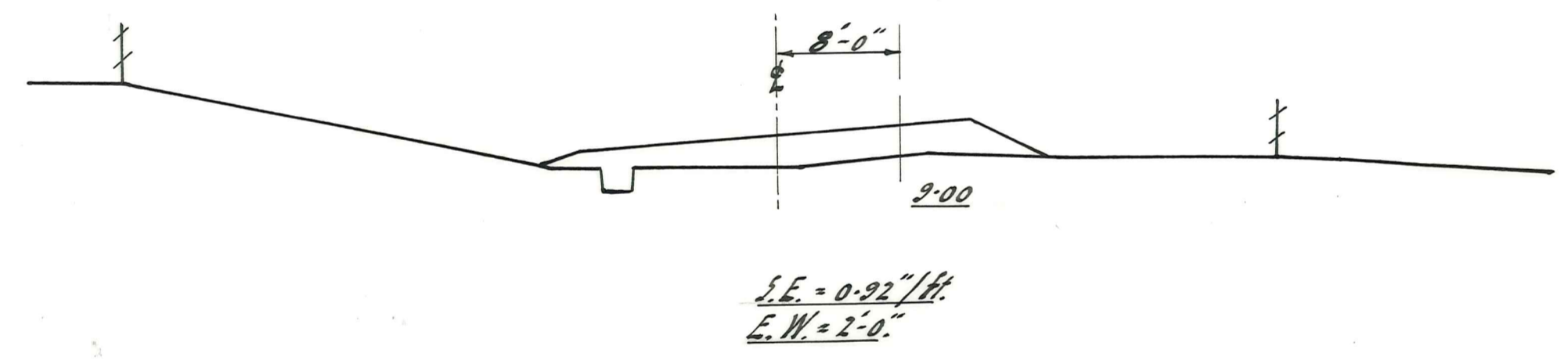
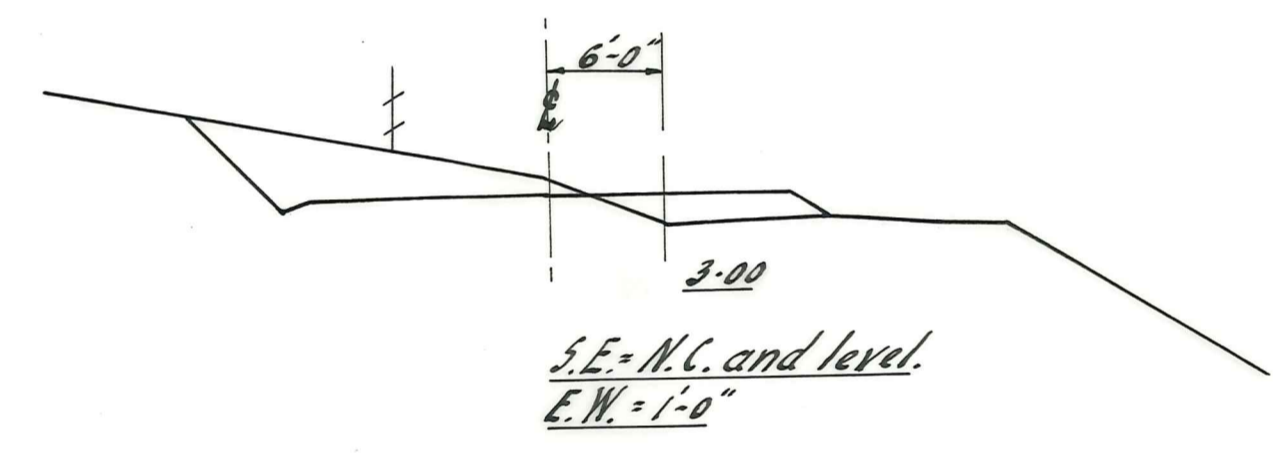
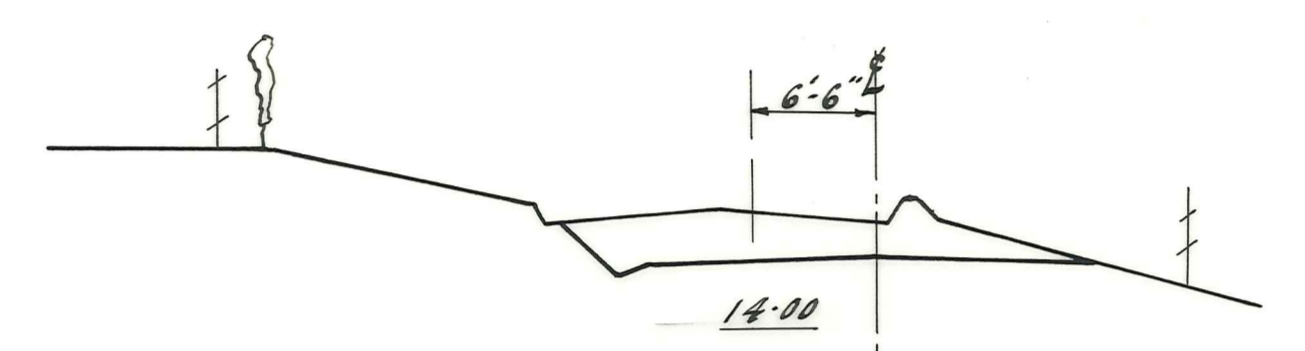
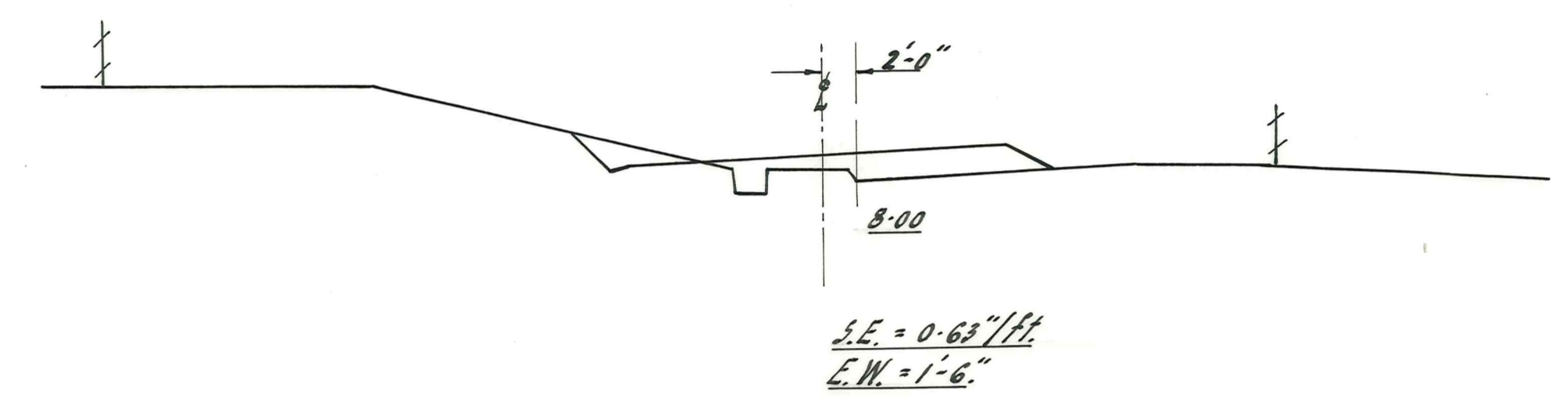
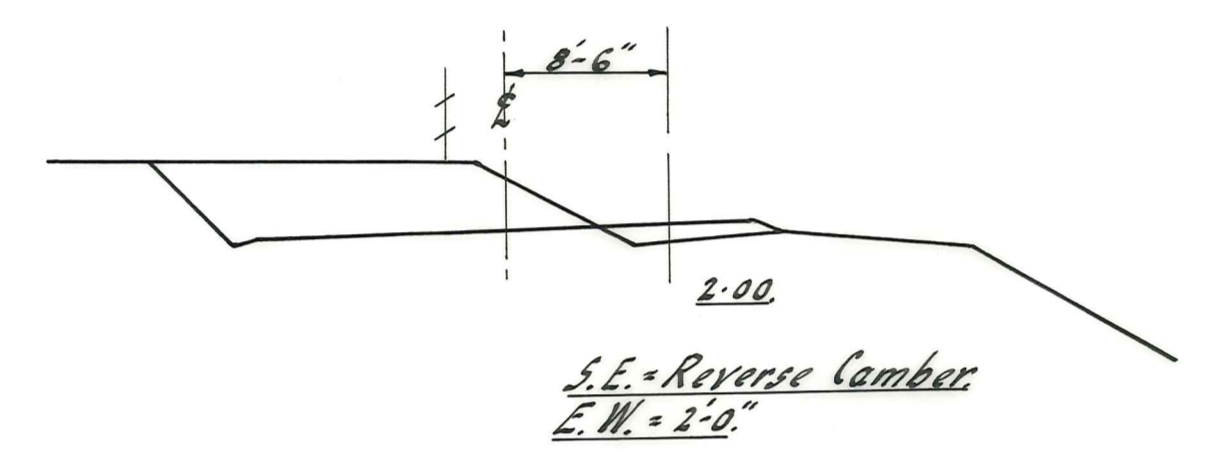
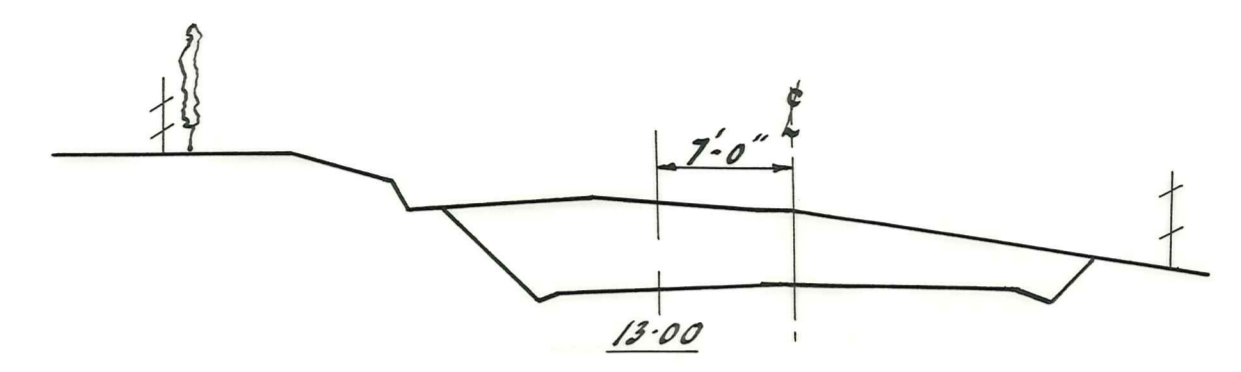
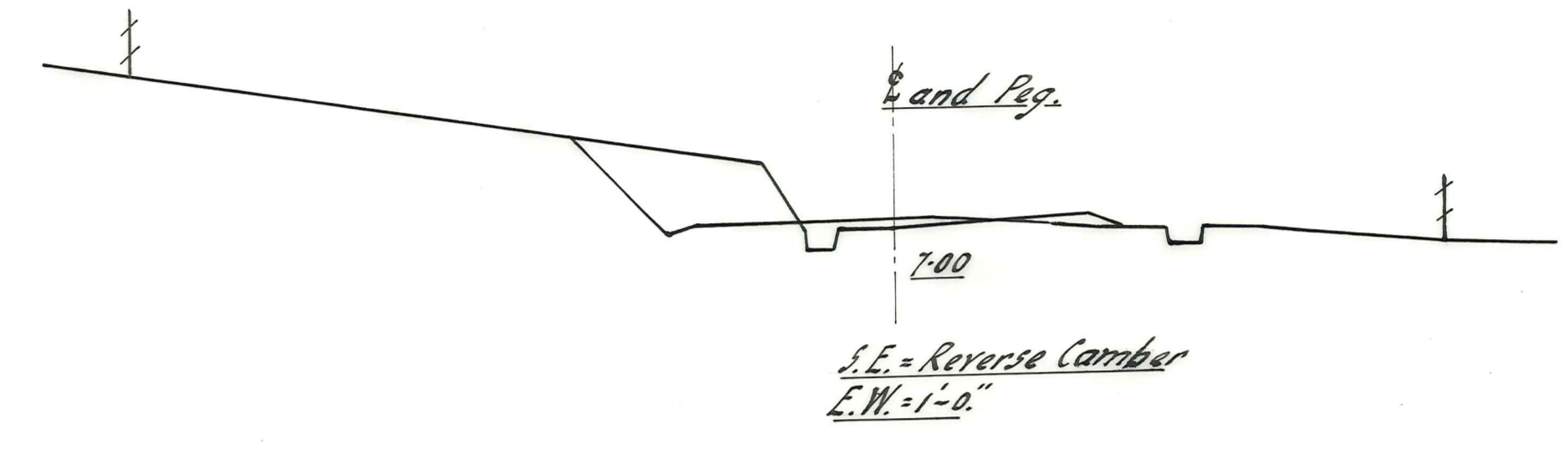
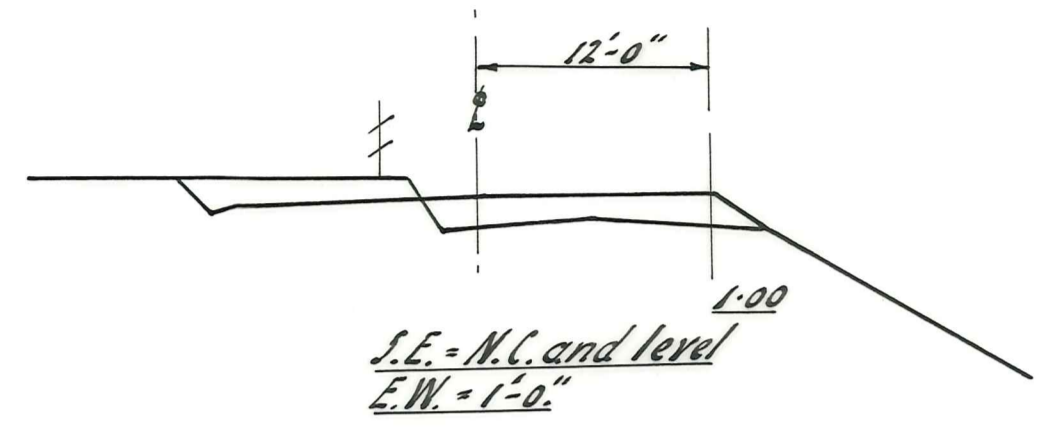
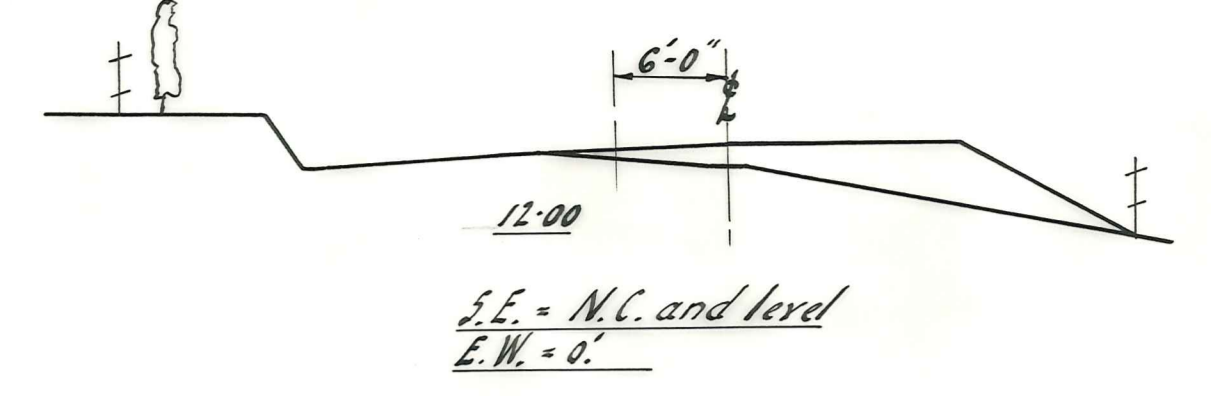
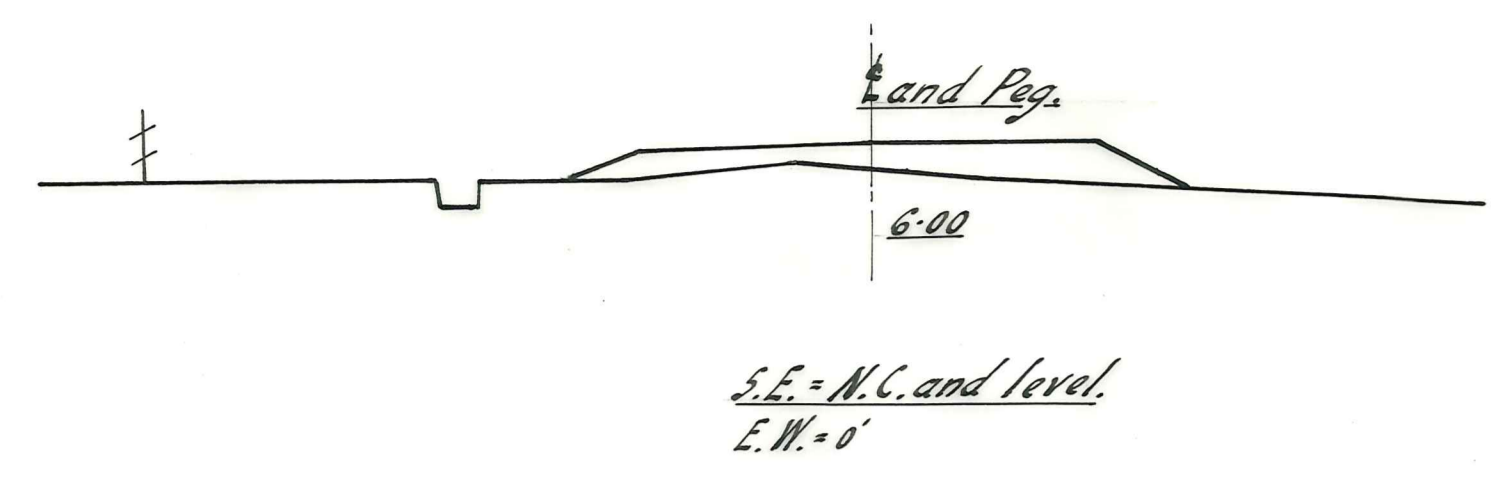
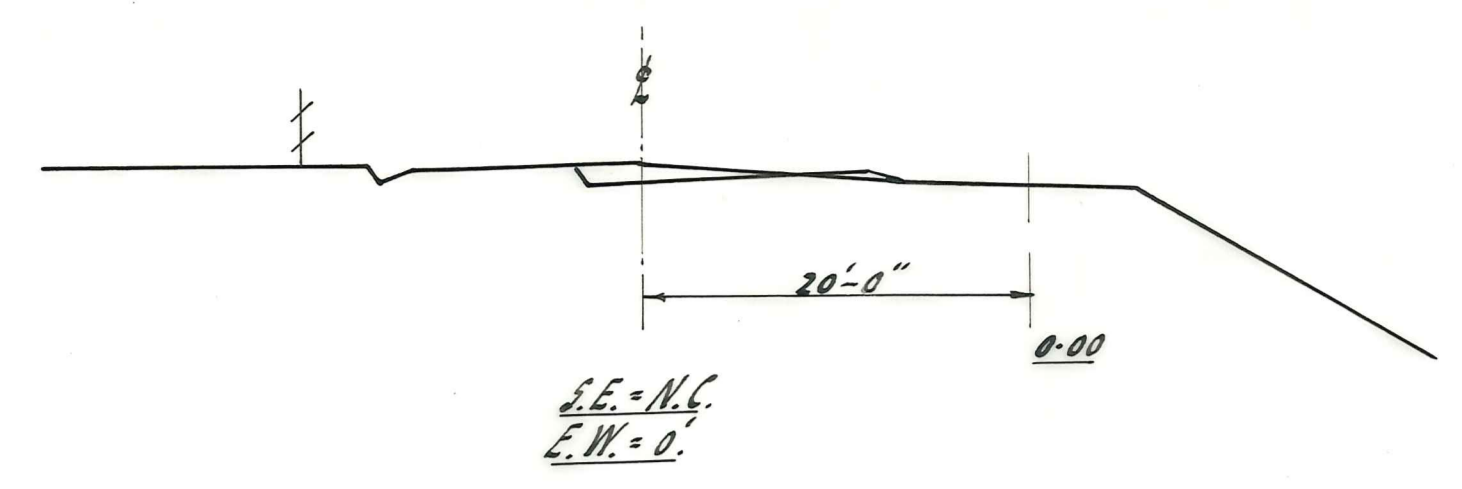
VINCENT COUNTY COUNCIL

CHAPMANS ROAD RECONSTRUCTION.

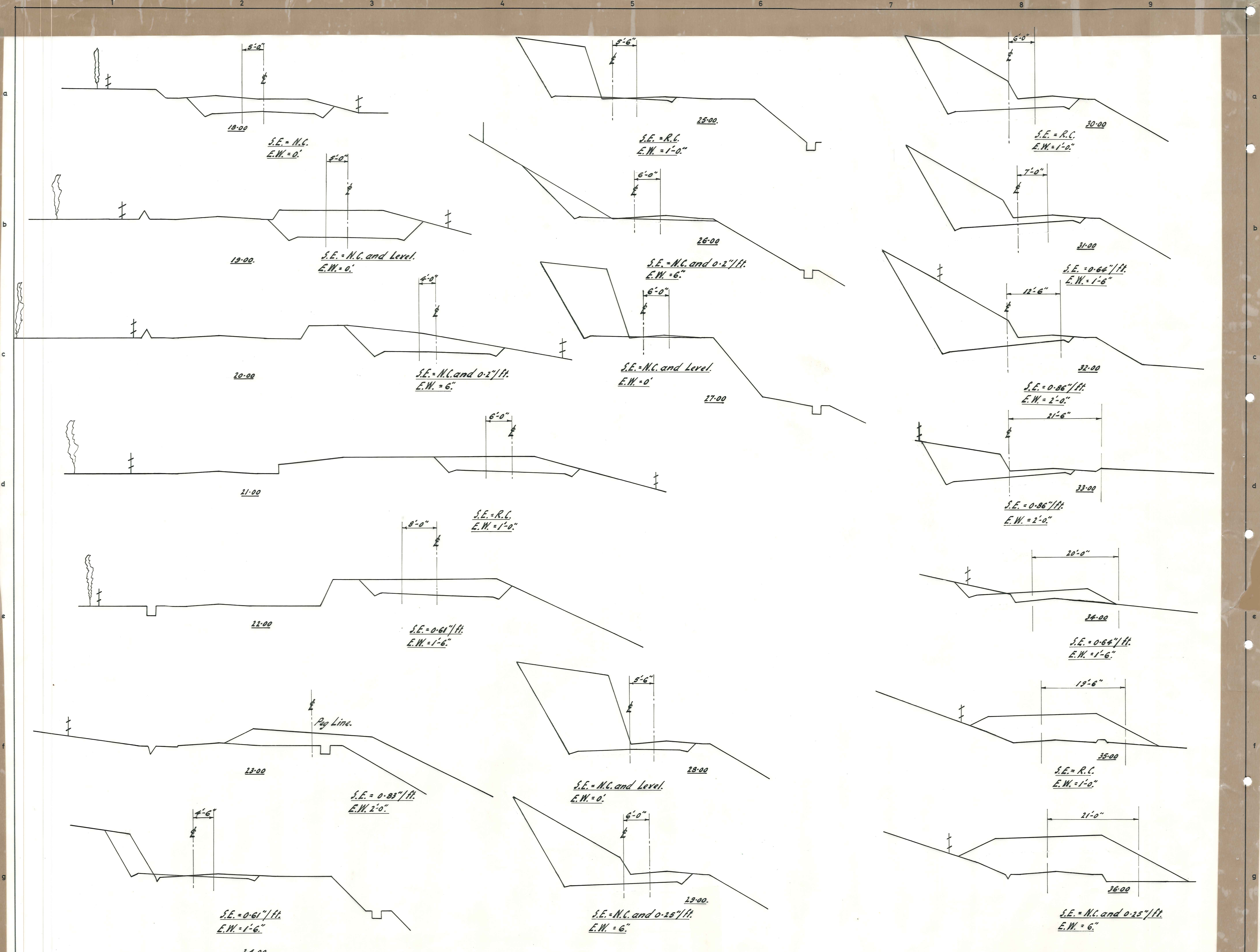
AMENDMENTS					NAME	DATE
No.	By	Date	Description	Apprd.		
					L. Allardley	Oct. 1965
					R. Allwarden	Nov. '65

**DUFFILL, WATTS & KING**  
CONSULTING CIVIL & STRUCTURAL ENGINEERS  
DUNEDIN & INVERCARGILL N.Z.

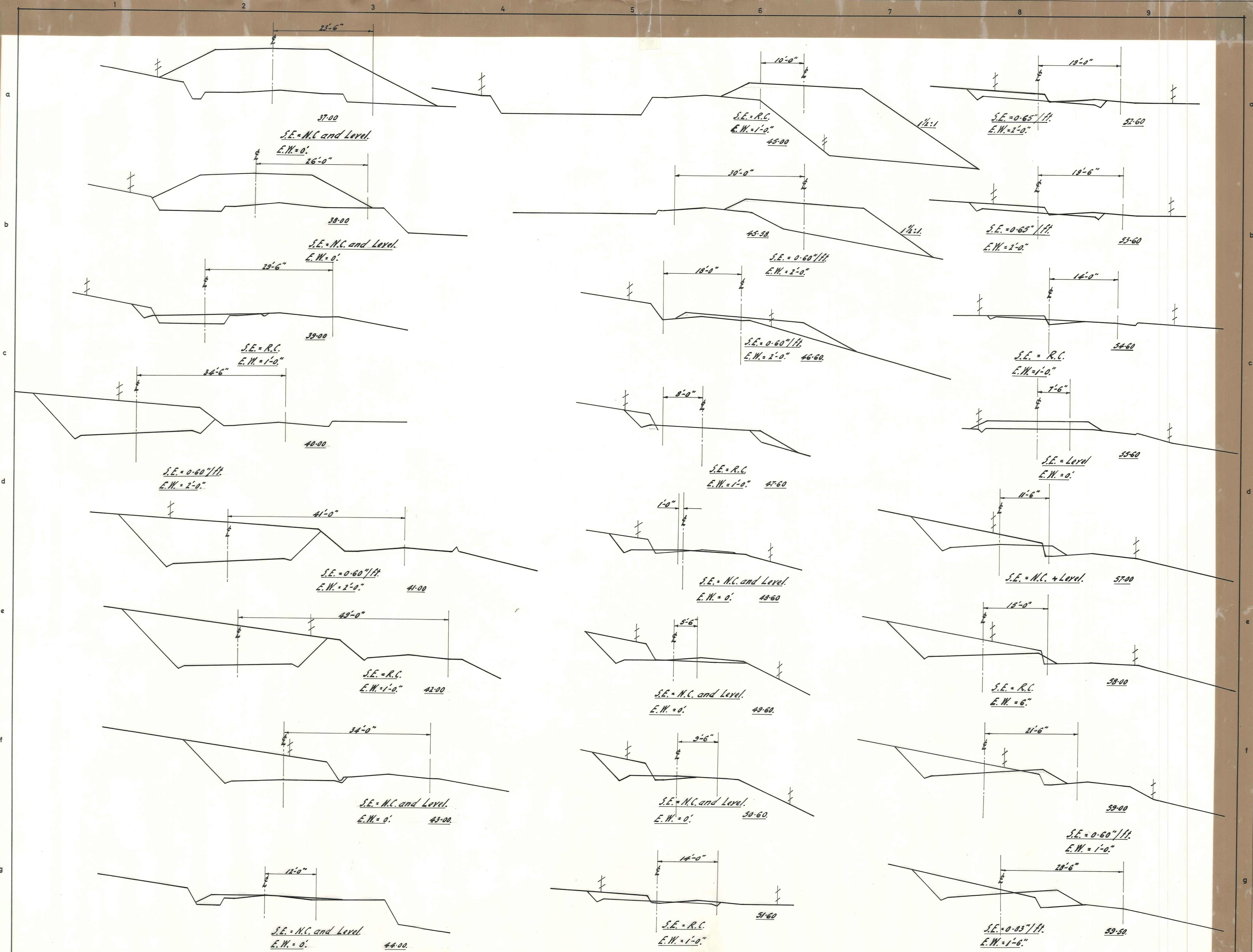
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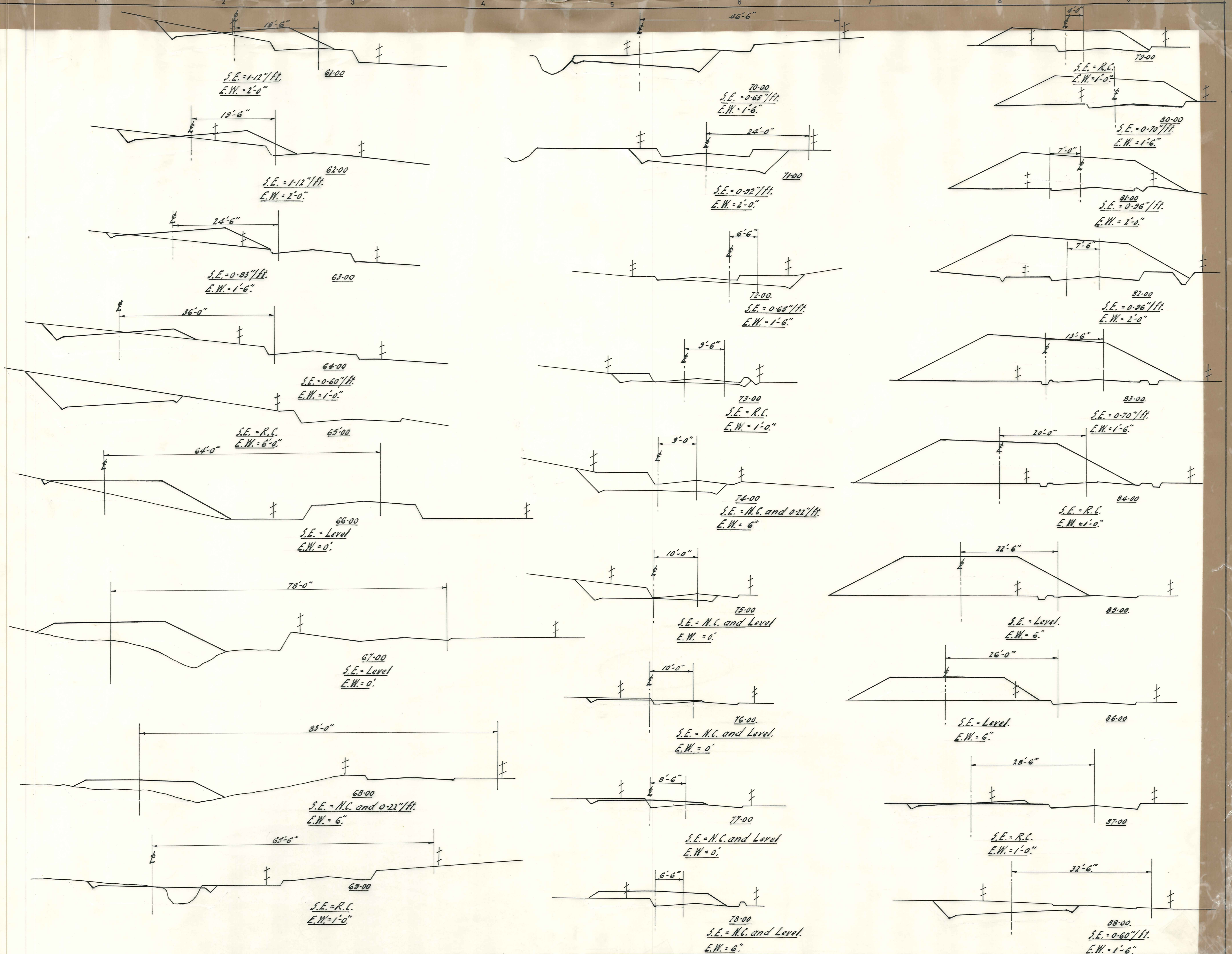
DUFFILL WATTS & KING CONSULTING CIVIL & STRUCTURAL ENGINEERS DUNEDIN & INVERCARGILL. N.Z.	VINCENT COUNTY COUNCIL	CHAPMAN'S ROAD RECONSTRUCTION.	DRAWING CROSS SECTIONS	REFERENCE DRAWINGS	REVISIONS	SCALES 1" = 10'-0"	NAME	DATE	SHEET No
				No. Description.	No. By Date. Description.		Survejed.	Drawn.	Calculations.
						CONTRACT No	J. A. Hadley	Nov. 1965	ISSUE
							E. Alwarden	Oct. '65	
							[Signature]	Dec. 65	



DUFFILL WATTS & KING CONSULTING CIVIL & STRUCTURAL ENGINEERS DUNEDIN & INVERCARGILL. N.Z.	VINCENT COUNTY COUNCIL	CHAPMAN'S ROAD RECONSTRUCTION.	DRAWING CROSS SECTIONS.	REFERENCE DRAWINGS	REVISIONS	SCALES 1" = 10'-0"	NAME J.A. Hadley	DATE Nov 1965	SHEET No 4570/6
				CONTRACT No	No. By Date. Description. Appr'd				

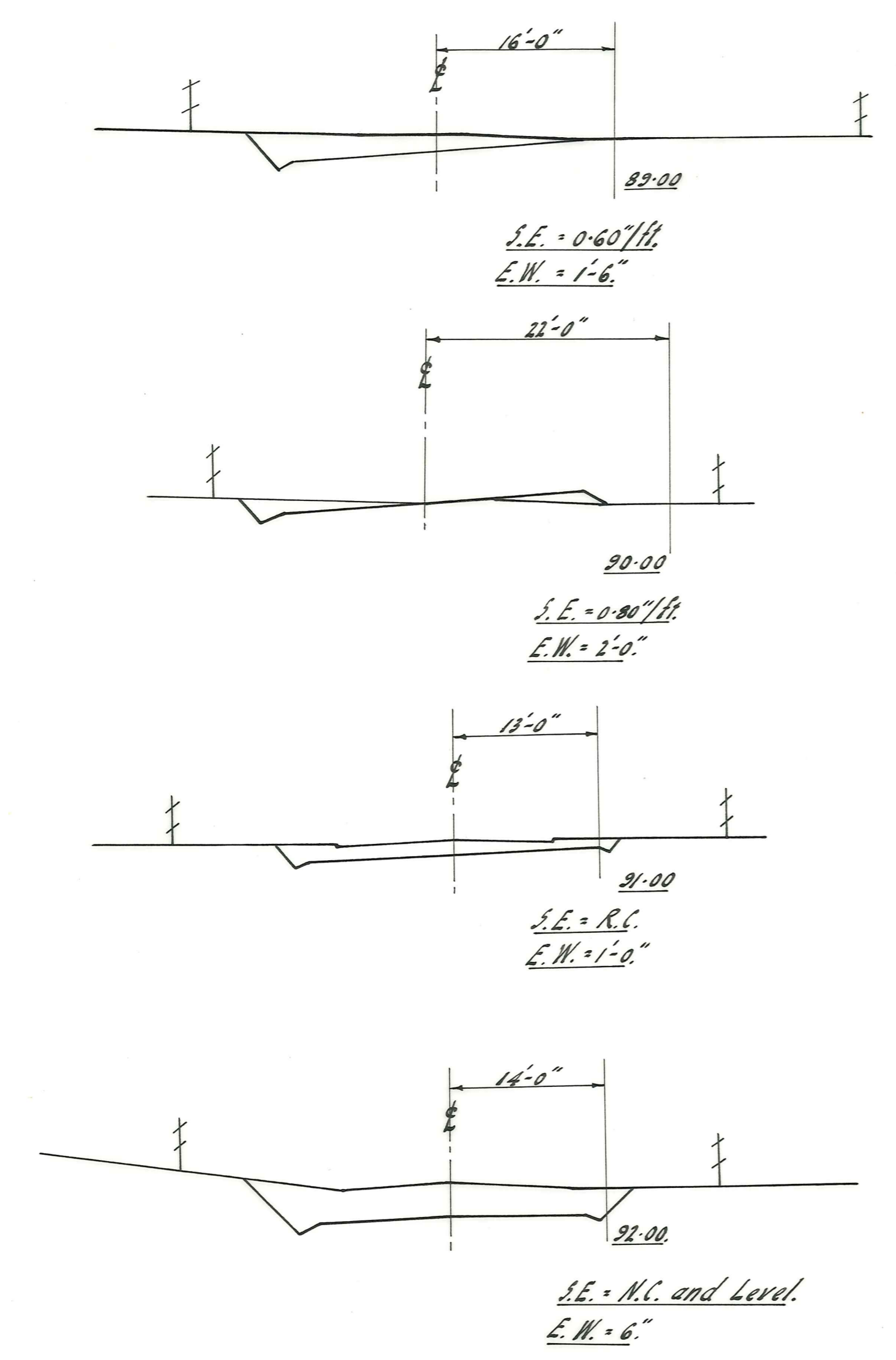


DUFFILL WATTS & KING CONSULTING CIVIL & STRUCTURAL ENGINEERS DUNEDIN & INVERCARGILL. N.Z.	VINCENT COUNTY COUNCIL.	CHAPMANS ROAD RECONSTRUCTION.	DRAWING CROSS SECTIONS	REFERENCE DRAWINGS	REVISIONS	SCALES 1 inch = 10'-0"	NAME DATE	SHEET No 4570/7
				Dep't. No. Description.	No. By. Date. Description.			



DUFFILL WATTS & KING CONSULTING CIVIL & STRUCTURAL ENGINEERS DUNEDIN & INVERCARGILL, N.Z.	VINCENT COUNTY COUNCIL	CHAPMANS ROAD RECONSTRUCTION	DRAWING CROSS SECTIONS	REFERENCE DRAWINGS	REVISIONS	SCALES 1" = 10'-0"	NAME	DATE	SHEET No
				Dep't. No. Description.	No. By. Date. Description.		Surveyed.	Drawn.	Calculations.
CONTRACT No							J.A. Hadley	Oct. 1965	8
CONTRACT No							R. Allwarden	Nov. 65	ISSUE





Scale: 1 inch = 10ft.

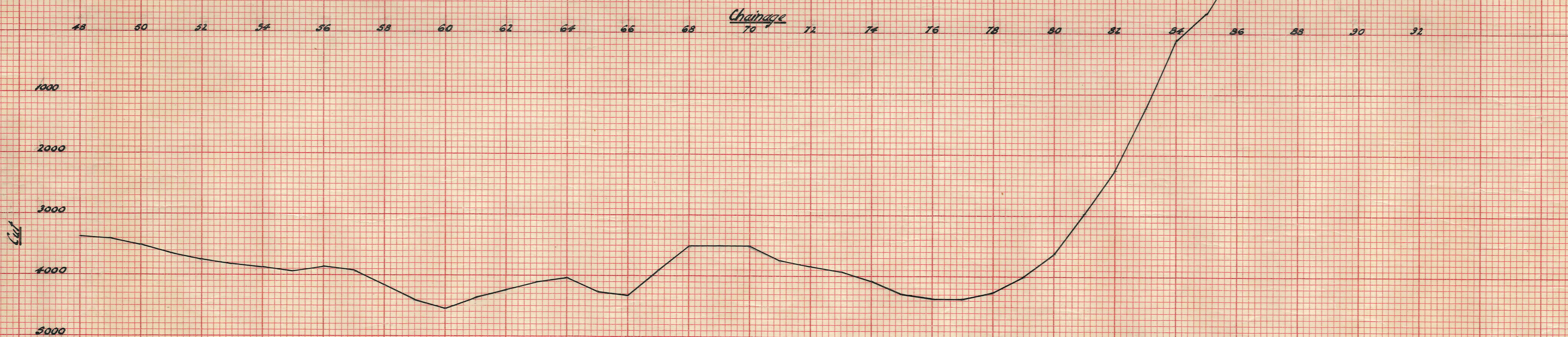
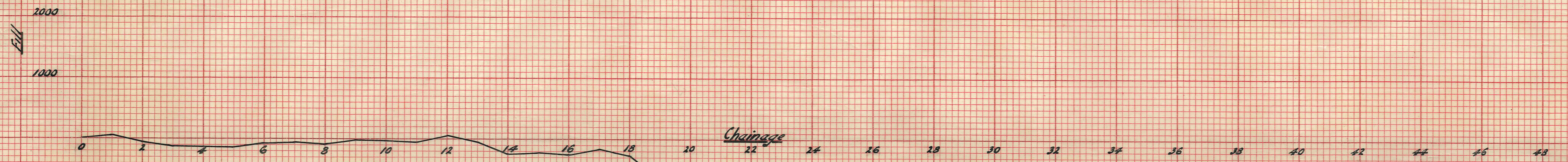
VINCENT COUNTY

CHAPMANS ROAD RECONSTRUCTION

AMENDMENTS					NAME	DATE
No.	By	Date	Description	Apprd.		
					Surveyed	
					Drawn	L.A. Hadley Oct. 1965
					Calculations	
					Traced	R. Allwarden Nov. '65
					Checked	
					Approved	

**DUFFILL, WATTS & KING**  
 CONSULTING CIVIL & STRUCTURAL ENGINEERS  
 DUNEDIN & INVERCARGILL N.Z.

File	JOB No.
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F. Bk.	
Sheet	of Sheets



— MASS CURVE —

VINCENT COUNTY COUNCIL

CHAPMANS ROAD RECONSTRUCTION

<b>PETILL, WATTS &amp; KING</b> CONSULTING CIVIL & STRUCTURAL ENGINEERS DUNEDIN and INVERCARGILL	DESIGNED BY <i>J.A. Hadley</i>	DATE <i>Nov. 1965</i>	JOB No. <b>4570/10</b>
	DRAWN BY <i>" "</i>	CHECKED BY <i>" "</i>	FILE No.
	REVISIONS <i>R. Warden</i>	DATE <i>Nov 1965</i>	
	APPROVED BY <i>[Signature]</i>		