Earthwork Services Inc.

270 Lund Road **(360) 533-2007**
Cosmopolis, WA 98537 **FAX: (360) 533-1618**

Web Address: www.earthworkservices.com E-mail: earthwork@earthworkservices.com

October 6, 2003 Earthwork Services Job # 11070

Todd Tallan
Westech Engineering
3841 Fairview Industrial Dr. S.E. Suite #100
Salem, OR 97302

RE: Corvalis H.S. Floodway Volumes

Dear Todd,

Enclosed please find grid elevation, cut/fill graphics and volumes for this project, which was calculated using the average end area method and the following assumptions:

1. **No stripping or subgrades were applied to the site.**

TOTAL RAW VOLUMES IN PLACE

(Volumes are in Cubic Yards)

Region	Area *(ft²)*	Cut Volume	Fill Volume	Stripping Volume
Total Ex-Flood	148,790	0	12,401	0
Des-Flood	129,532	0	12,698	0
Storm Water Detention			-67 (1800 cf)	
Total Des-Flood	129,532	0	12,631	0

Please call after you have reviewed this information if you have any questions.

* Raw volumes have not been adjusted to reflect shrink or swell for compaction and expansion and are volumetric areas only.

CORVALIS H.S. ex-flood
1317.ESW
Units = Ft-CY
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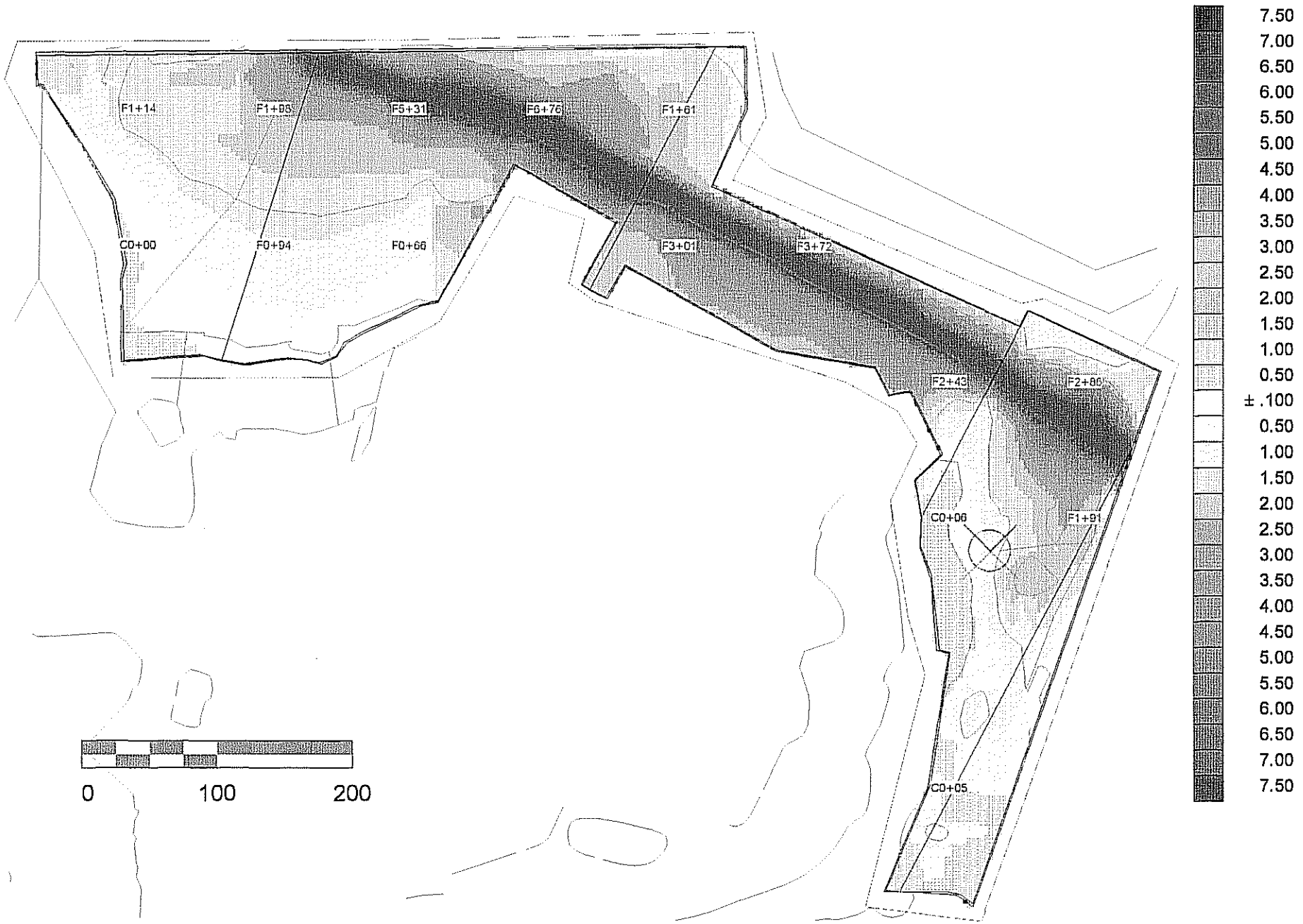
Volume	Area			Volume		Comp Ratio		Volume		Export	Change
Existing	Total	Cut	Fill	Cut	Fill	Cut	Fill	Cut	Fill	-Import	Per .1 FT
Job Total	148,790	11,232	137,558	89	12,401	1.00	1.00	89	12,401	-12,312	551

Strip Qtys	Depth	Length	Area	Volume
NONE	Total	0	0	

Sect Qtys	Depth	Length	Area	Volume
NONE	Total	0	0	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F1+83
F5+31
F6+76
F1+61
C0+00
F0+94
F0+66
F3+01
F3+72
F2+43
F2+86
C0+06
F1+91
C0+05
0
100
200
7.50
7.00
6.50
6.00
5.50
5.00
4.50
4.00
3.50
3.00
2.50
2.00
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0.50
1.00
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2.50
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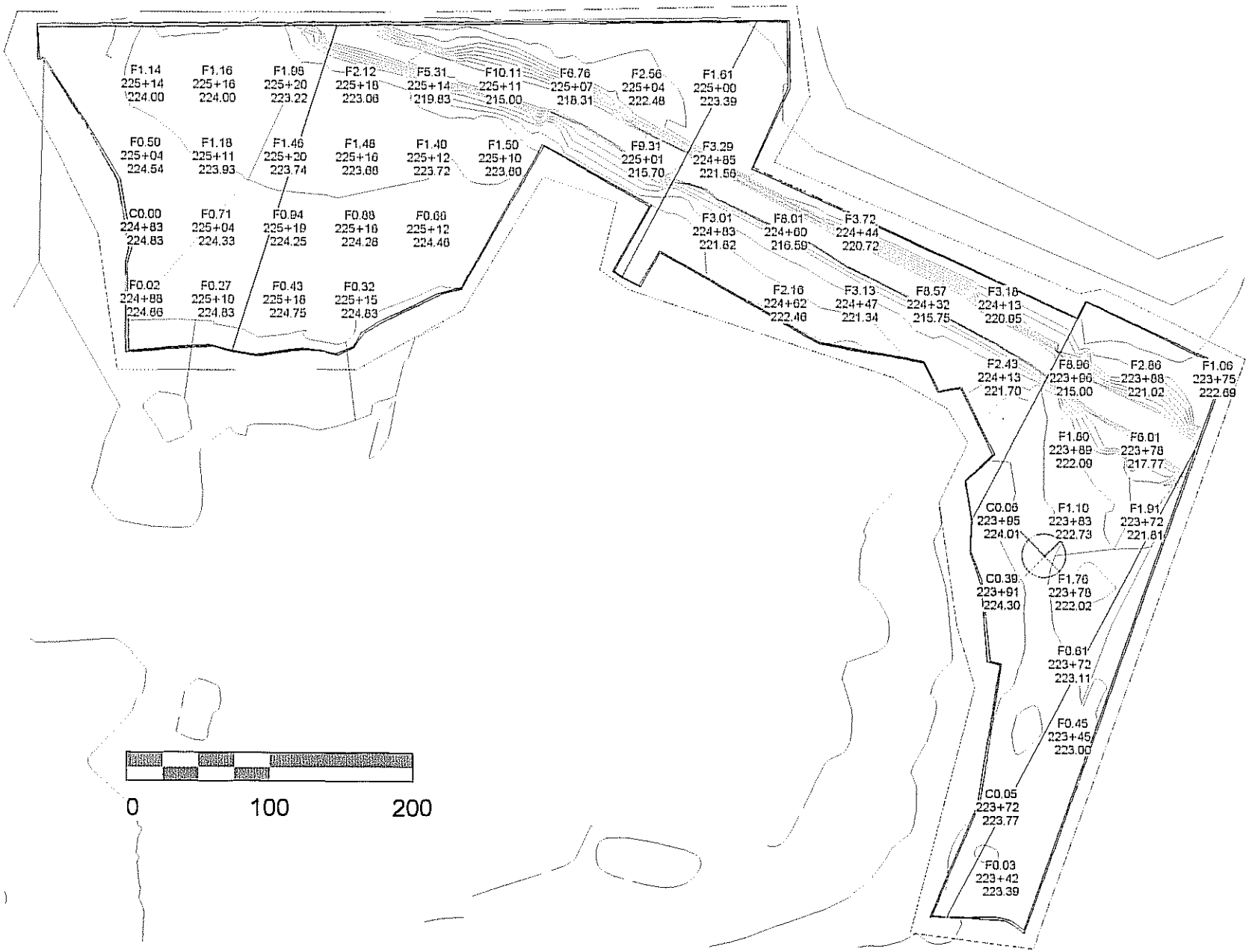
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224.00
F1.16
225+16
224.00
F1.96
225+20
223.22
F2.12
225+18
223.06
F5.31
225+14
219.83
F10.11
225+11
215.00
F8.76
225+07
218.31
F2.56
225+04
222.48
F1.61
225+00
223.39
F0.50
225+04
224.54
F1.18
225+11
223.93
F1.46
225+20
223.74
F1.48
225+18
223.68
F1.40
225+12
223.72
F1.50
225+10
223.60
F9.31
225+01
215.70
F3.29
224+85
221.56
C0.00
224+83
224.83
F0.71
225+04
224.33
F0.94
225+19
224.25
F0.88
225+16
224.28
F0.68
225+12
224.46
F3.01
224+83
221.82
F8.01
224+80
216.59
F3.72
224+44
220.72
F0.02
224+88
224.86
F0.27
225+10
224.83
F0.43
225+18
224.75
F0.32
225+15
224.83
F2.16
224+62
222.46
F3.13
224+47
221.34
F8.57
224+32
215.75
F3.18
224+13
220.85
F2.43
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221.70
F8.96
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F2.86
223+88
221.02
F1.06
223+75
222.69
F1.60
223+89
222.09
F6.01
223+78
217.77
C0.06
223+95
224.01
F1.10
223+83
222.73
F1.91
223+72
221.81
C0.39
223+91
224.30
F1.76
223+78
222.02
F0.61
223+72
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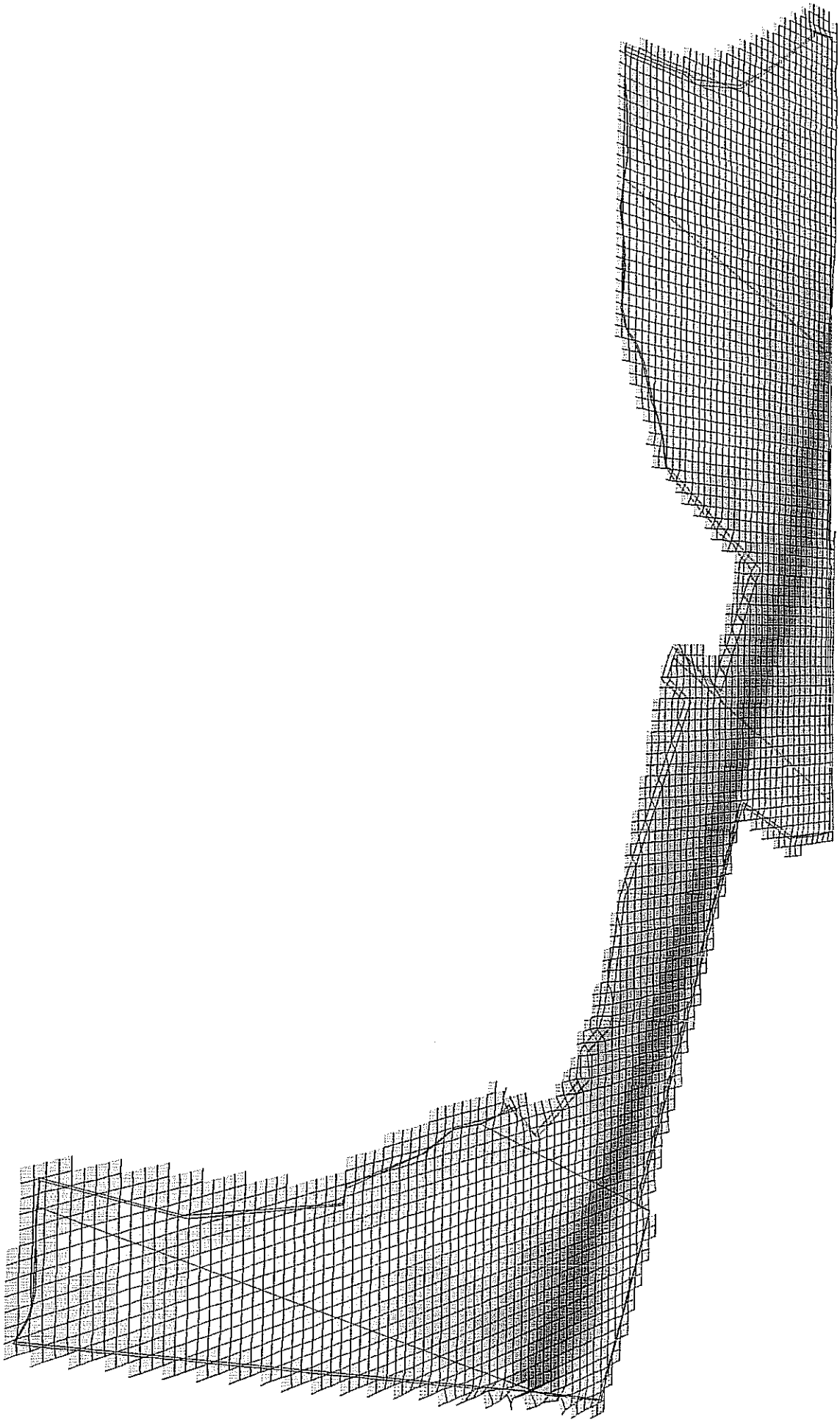

CORVALIS H.S. des-flood 2
1319.ESW
Units = Ft-CY
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Volume	Area			Volume		Comp Ratio		Volume		Export	Change
Existing	Total	Cut	Fill	Cut	Fill	Cut	Fill	Cut	Fill	-Import	Per .1 FT
Job Total	129,532	6,368	123,164	41	12,698	1.00	1.00	41	12,698	-12,657	479

Strip Qtys	Depth	Length	Area	Volume
NONE	Total	0	0	

Sect Qtys	Depth	Length	Area	Volume
NONE	Total	0	0	

F0+24
F2+15
F9+67
F4+25
F0+91
F5+31
F1+77
F1+34
F8+72
F1+27
F0+69
F0+42
F0+00
7.50
7.00
6.50
6.00
5.50
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4.50
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6.00
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7.00
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0
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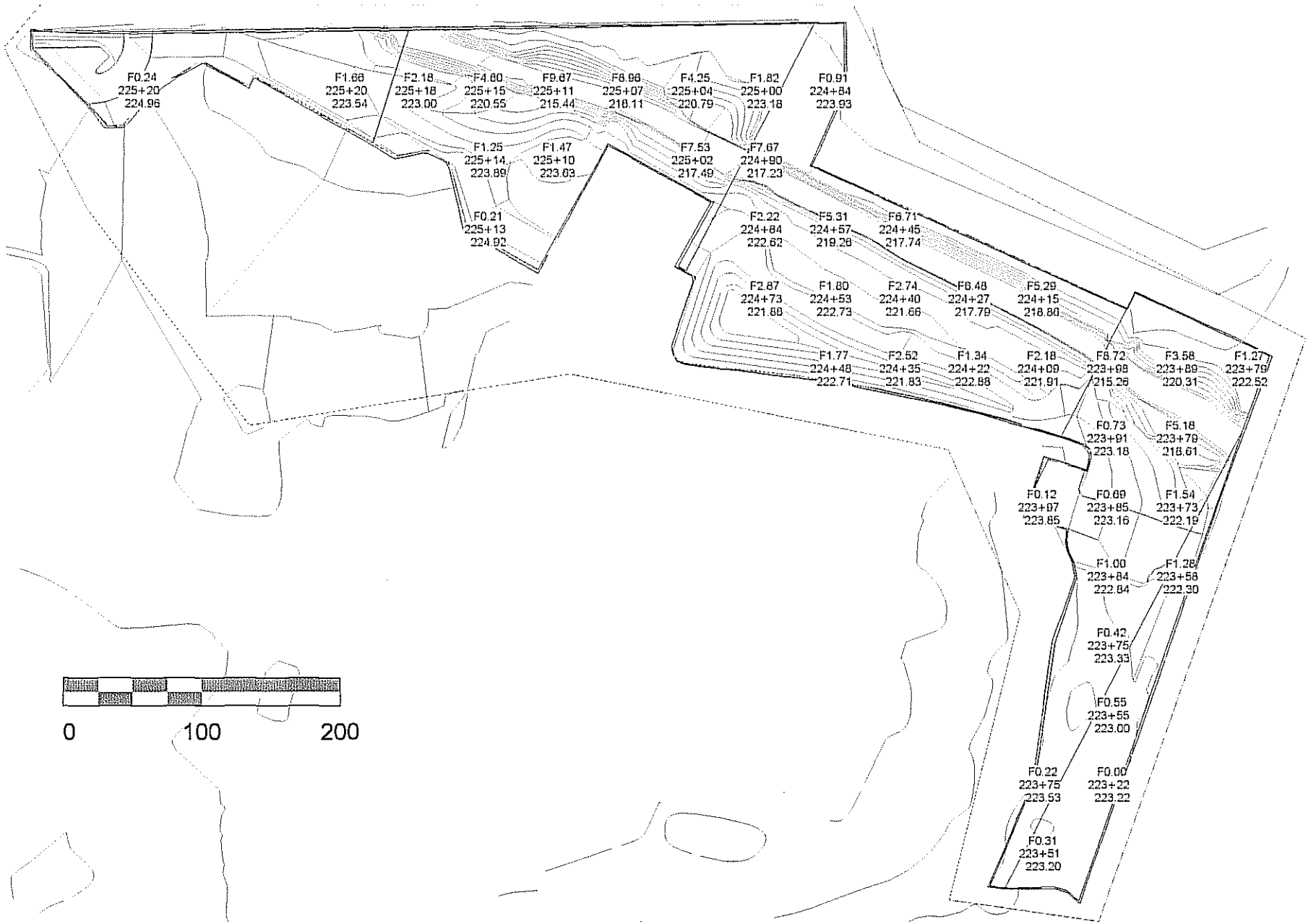
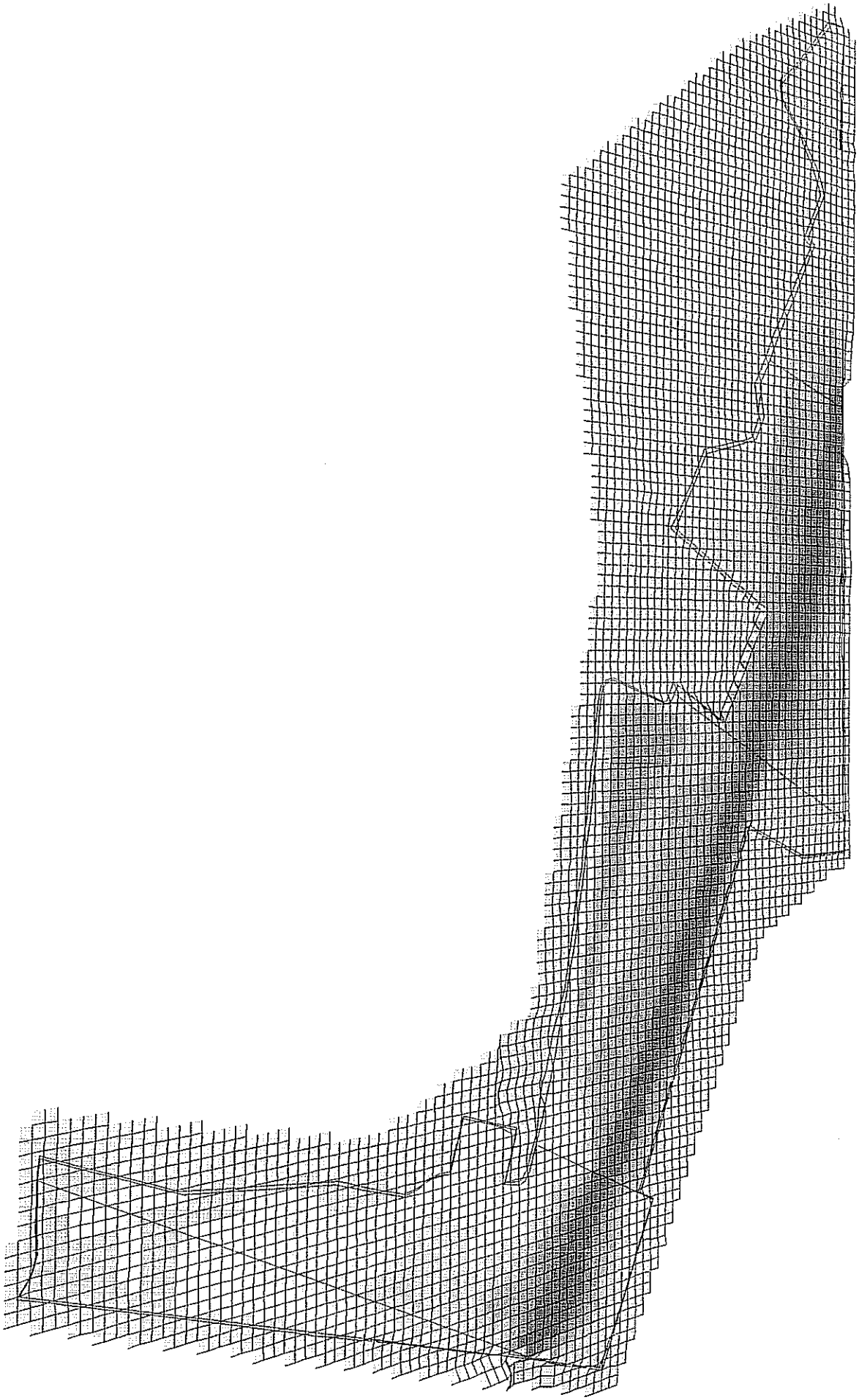
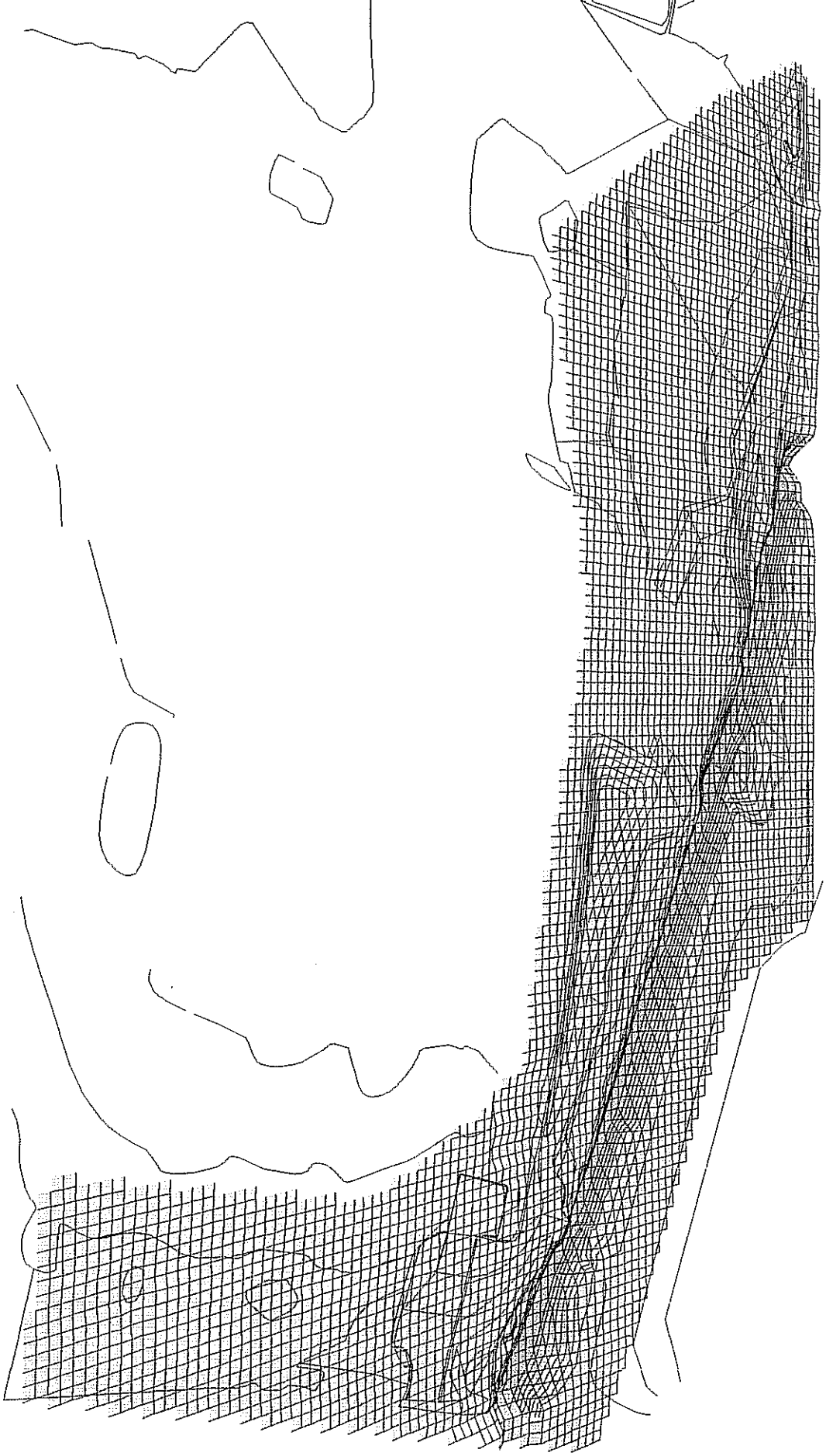
200


F0.24
225+20
224.96
F1.66
225+20
223.54
F2.18
225+18
223.00
F4.60
225+15
220.55
F9.87
225+11
215.44
F8.98
225+07
218.11
F4.25
225+04
220.79
F1.82
225+00
223.18
F0.91
224+84
223.93
F1.25
225+14
223.89
F1.47
225+10
223.63
F7.53
225+02
217.49
F7.67
224+90
217.23
F0.21
225+13
224.92
F2.22
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222.62
F5.31
224+57
219.26
F6.71
224+45
217.74
F2.87
224+73
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222.73
F2.74
224+40
221.66
F6.48
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217.79
F5.29
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218.80
F1.77
224+48
222.71
F2.52
224+35
221.83
F1.34
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220.31
F1.27
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223+22
223.22
F0.31
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