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Some Problems Of The Main Canal In North Jazira Irrigation Project & The Curves Which Are Used In It

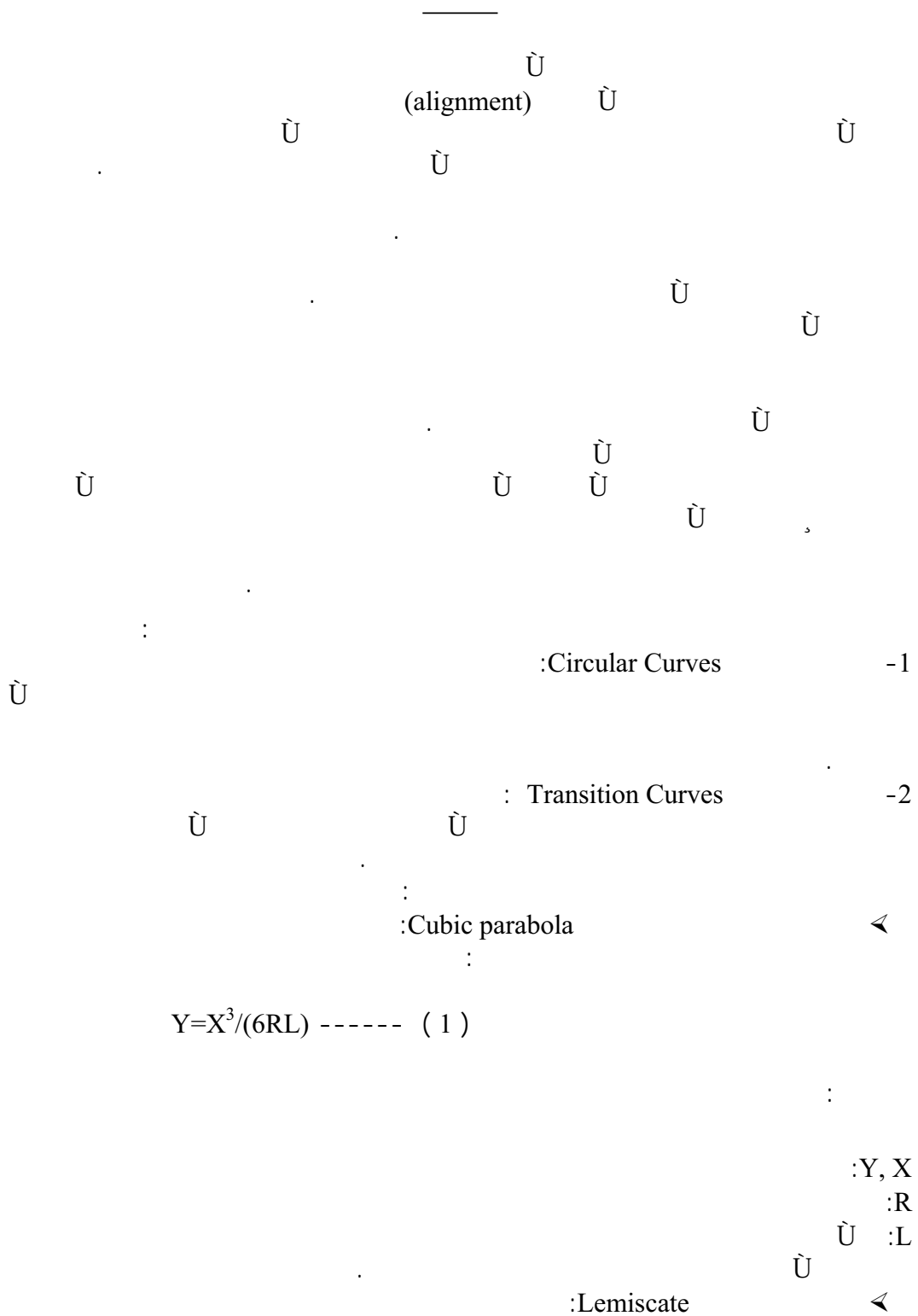
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Abstract

A good alignment of irrigation canal means efficient transport of irrigation water, least cost of construction and maintenance. In this study we determined some imported sections of the main canal in north Jazira irrigation project where sediment & collapse which happened in the banks and the bed of the main canal. We suggest some methods to stopped or treated them.

Keyword (Alignment Of Canal _ Curve _ North Jazira Irrigation Project)



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(3 w)

45

$P^2=K^2 \text{Sin}2w$ ----- (2)

:P
:K
:W

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:Clothoide curve
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[1]

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100

β^3 45

β^3 27

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. %95

2003 Ù

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2004

37+363

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26+524

7+680

Ù

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50

45+132

1993

Ù

100

Ù

40

[2]

(1) \hat{U} / 2

: (1) \hat{U}

()	\hat{U} (/)	()	()	(/)	(/ 3)		
8	0.00012	3.8	4.2	1.2	45.0	M01	1
8	0.00012	3.7	4.2	1.2	42.8	M02	2
8	0.00012	3.6	4.2	1.19	40.8	M03	3
8	0.00012	3.54	4.2	1.15	38.9	M04	4
8	0.00012	3.47	4.2	0.88	37.2	M05	5
7	0.00014	2.14	2.4	0.85	10.2	M06	6
7	0.00014	2.08	2.4	0.82	10.0	M07	7
7	0.00014	1.96	2.4	0.8	8.9	M08	8
7	0.00014	1.9	2.1	0.78	7.7	M09	9
7	0.00014	1.85	2.1	0.77	7.2	M10	10
7	0.00014	1.73	2.1	0.75	6.3	M11	11
7	0.00014	1.69	2.1	0.75	6.0	M12	12
6	0.00014	1.5	1.8	0.72	4.5	M13	13

(385 – 365)

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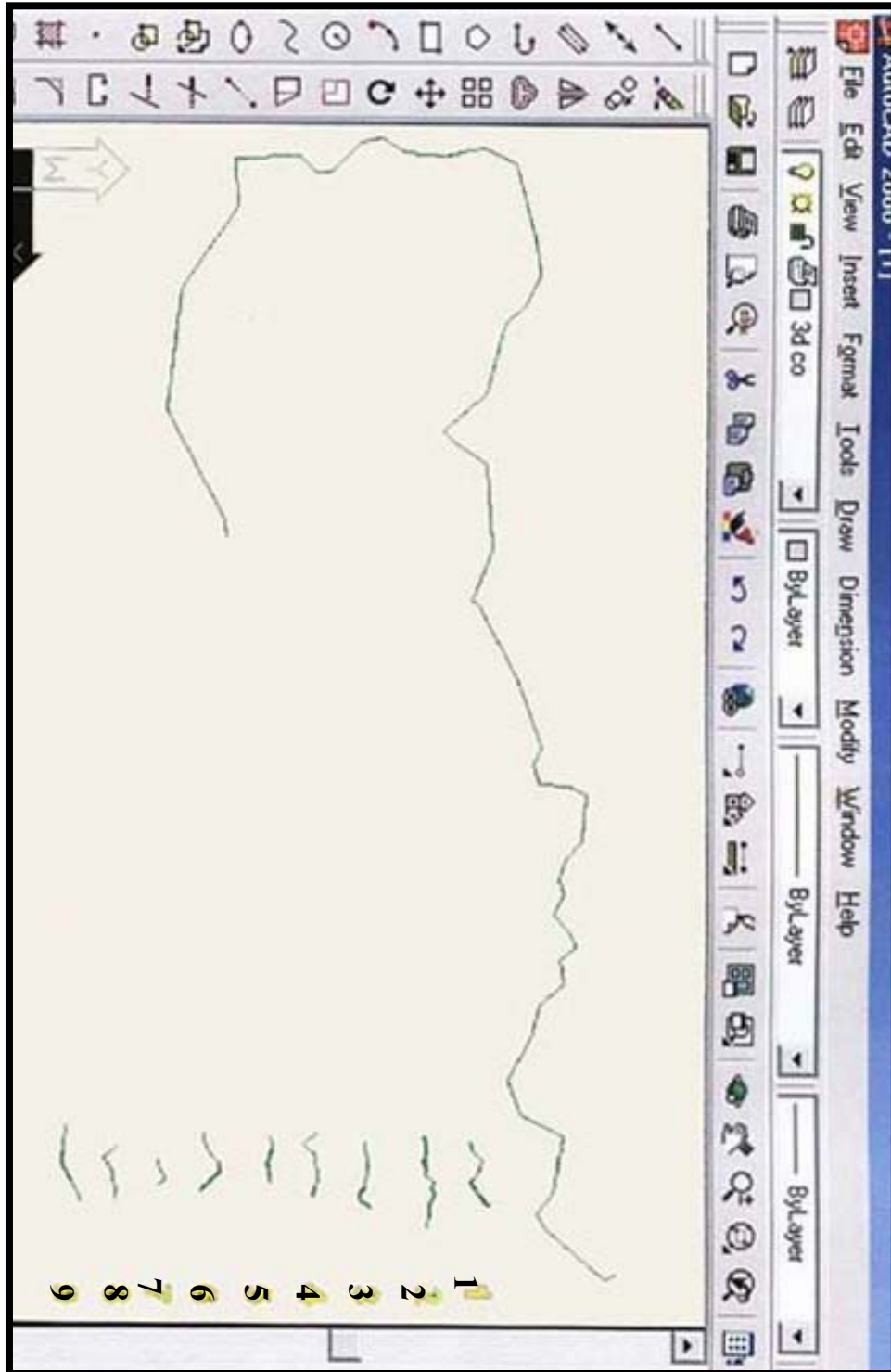
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 29+000 1+500 8+500 10+500 12+000 15+000 16+500 17+500
 5 1+500 11
 :
 .12+500 11+000 9+500 7+700 6+500 5+500 4+500
 5 \hat{U}
 44+000 33+000 26+500) . [3]
 (7 9 5 15) (50+200

%(0.02-0.005)

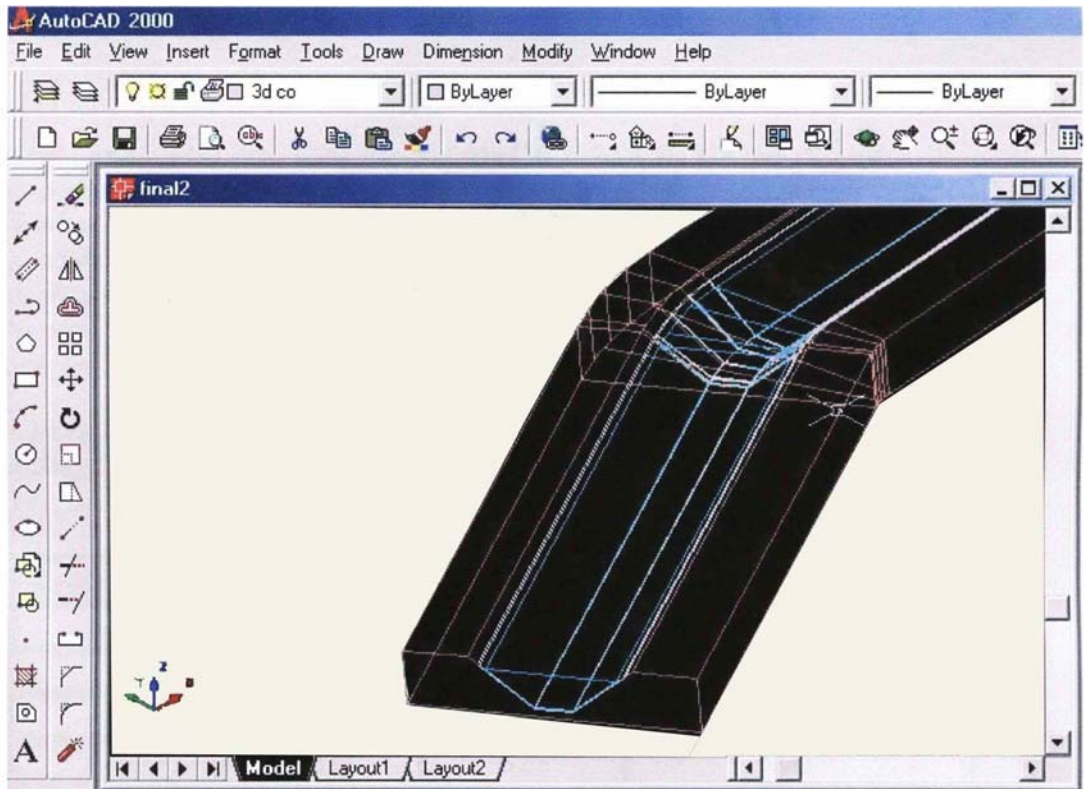
%(20-3)

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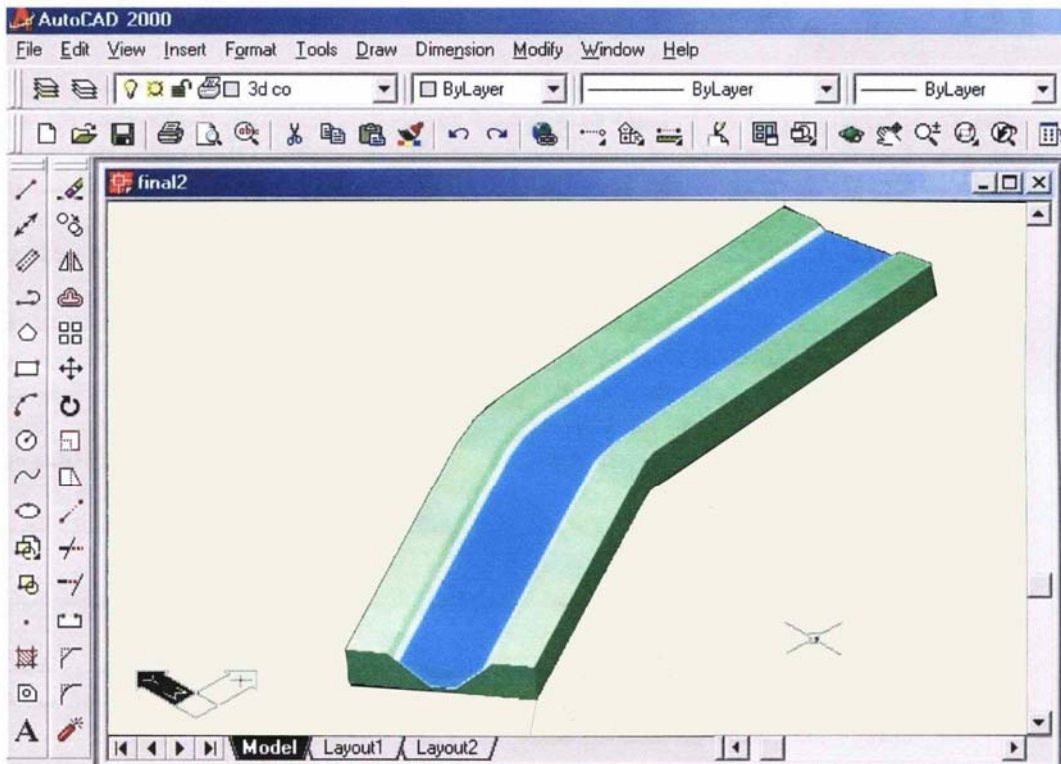
[6] \dot{U} 7770 \dot{U}) 45+130 37+360 11 (



∅ (1) :



:(2) Ø



:(3) Ø

() $\beta^3 24$ $\beta^3 45$ $\beta^3 36 - 24$ (3) β^3
 : (3) β^3

	/			
	0.944	31.59	M01	1
9	0.864	26.9	M03	2
15	0.72	7.84	M05	3
	0.637	6.65	M07	4
	0.571	6.47	M08	5
9	0.46	5.26	M10	6
9	0.46	4.14	M12	7
	0.55	3.69	M13	8

(Cross Regulators)

