BOX FOR DRIANAGE-NO 2

No C-No 1 C-No 2 No No 6 No 7 α 1.0000 1.0000 and the second No 1 1,3800 1.3800 No 2 1.6500 1.6500 No 3 0.0000 1.6500 No 4 1.4300 0.0000 No 5 0.0000 1.6500

BOX FOR DRIANAGE-NO 2

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No 1:67

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BOX FOR DRIANAGE-NO 2

		Deadload
No.	1	1
		1. Contract (1997)

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				Li (m)	Lo (m)	Pi (t∕m)	Pj (t∕m)
1 -	2		Y	0.000	3.400	-9.440	-9.440
3-	4		Y	0.000	3.400	-9,440	-9.440
3- 2-	3		Y	0.000	2.400	-103.060	-103.060
4-	1		. Y	0.000	2.400	129.807	129.807
.:		$\Sigma V =$	1	0.001 (1)			
••		$\Sigma H =$		0.000 (t)			

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÷			1.6	~								:	
		 -	· · ·					 1.1	-				

BOX FOR DRIANAGE-NO 2

		No .	: Earth p : 2	ressure lo	ad		
				Li (m)	Lo (m)	Pi (t∕m)	Pj (t/m)
-	1 1 3 3	$ \begin{array}{rrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrr$	X X X X	0.000 1.400 0.000 2.000	1.400 2.000 2.000 1.400	69.070 61.510 -41.910 -61.510	61.510 41.910 -61.510 -69.070
		Σ	} ¥ = H =	0.000 (t) 0.000 (t)			

BOX FOR DRIANAGE-NO 2

	No.	: Water j : 3	pressure load			
			Li (m) L	.o (m)	Pi (t/m)	Pj (t∕m)
1 1- 3 3-	24	X X		1.400 1.400	13.720 0.000	0.000 -13.720
	Σ	CV = CH =	0.000 (t) 0.000 (t)		·	

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	÷	- P		Li (m)	0.000
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Pj (t/m)

2 - 29

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-36.474 36.474

2.400

0.000

Pj (t/m)

Pi (t/m)

Lo (m)

Li (m)

: HB live load-VL

No.

BOX FOR DRIANAGE-NO 2

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FOR DR	
BOX F	

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· · ·	ROTA. (mmRad)	-0.1235 0.0644 0.1235 0.1235	ROTA.(mmRad)	0.6825 -0.4137 0.4137 -0.6825	• • • • • •	
	3 Y-DIS.(mm)	0.0000000000000000000000000000000000000	6 Y-DIS.(mm)	0.00000 -0.86837 -0.86837 -0.00000		
· · ·	Case. X-DIS.(mm)	0.00000 -0.00882 -0.01152 -0.02035	Case. X-DIS.(mm)	0.00000 -0.04159 -0.38576 -0.42735		
	2 Y-DIS.(mm) ROTA.(mmRad)	-3.01109 2.86181 3.01109 3.01109	ROTA.(mmRad)	-0.87218 0.87218 -0.87218 0.87218		
	2 Y-DIS.(mm)	0.0000000000000000000000000000000000000	5 Y-DIS. (mm)	000000000000000000000000000000000000000	. · ·	
- - -	Case. X-DIS.(mm)	0.00000 -0.02007 -0.23379 -0.23379	Case. X-DIS.(mm)	0,00000 0,00000 0,006997 1,0 0,0 1		
-	ROTA. (mmRad)	3.13708 -2.76377 -2.76377 -3.13708	ROTA. (mmRad)	0.92425 0.92425 0.92425 -0.92425	ROTA.(mmRad)	-2.28204 -2.45330 -2.45330 -2.45330 2.282330 2.28230
	1 Y-D1S.(mm)	0.00000 47505 0.47505 0.00000	4 Y-DIS,(mm)	0.00000 -0.14881 -0.14881 -0.14881 0.00000	7 Y-DIS.(mm)	0.00000 -0.65557 -0.65557 -0.65557 -0.0000
· · ·	Case. 1 X-DIS.(mm) Y-DIS.(mm)	0.00000 -0.00614 0.00614	Case. X-DIS.(mm)	000000000000000000000000000000000000000	Case. X-DIS.(mm)	0.00000 +0.05615 -0.52023 -0.57638
-	No	⊷ ∾ ₩ 4	No	- 0 C 4	No.	

	RM (tm)	0.000	R.Y. (t.m.)	0.000		
	3 RY (t)	0.000	б RY (t)	-0.001		
	Case. RX (t)	0.000	Case. RX (t)	0.000		
		000	(E	000		
	RM (tm)	0.000	RM (tm)	0000.0	a da se	
	2 RY (t)	000.0	5 RY (t)	0000.0		
	Case. RX (t)	0.000	Case. RX (t)	0.000		•• •
	RM (tm)	0.000	RM (tm)	0.000	RM (tm)	0.000
	RY (t)	0.000	RY (t)	0.000	RY (t)	-0.001
3	Case. 1 RX (t)	0000.0	Case. 4 RX (t)	0000	Case. 7 RX (t)	0.000
BOX FOR DRIANAGE-NO			No.	1. 4.	° X	••• ••
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	S (t)	72.06		1 C C C C C C C C C C C C C C C C C C C	0.0 • • •		00.201	129.24		1 0 - 0	02.00	4.38	77.75	0.00	77.75	194.38	-233.257		43.40	10.0	82.90	247	89.73	155.44	-178.061	•	77.55	1 29	92.51		92.51	231.29	-277.550	
Case 6		03.44	-70.09	0 0 0 0 0	ο σ	+ C + C		1. 4 2	88.7	0 U - 0 O	> • •	40.94	5.69	1.24	5:69	45.94	-88.709		88.70	1.43	2.50	16.1	525	70.09	-103.441		03.44	2.55	44.58	3.08	4.58	52.55	-103.441	
	N (t)	00	00.	0.000	00	ŝ		3	00	ii t C C	7 L -1-7 -1-7 -1-0 -1-0	01.92	29.15	29.15	29.15	29.15	-29.155		00.	00.	00	00,	8	0.000	00	-	29.15	29.15	29.15	29.15	29.15	9.15	52	
I D	Ś	9.15 0	5.72	10.430	0.00	543			ы С	C C).<) < •	3	с <u>о</u>	80.	0.000	00.	00.		9.15	5.72	5.43	00.0	15.43	-25.725	29.15		200	8.0	00	80.	00.	0.000	00.	•
5 HB li	~	9.68	4.19	8.151	5,09	8.15		n (- (- (. 68	0 8 9		ו.0 הים הים	9.68	9.58	Ó	9.68	9.68		9.68	4.19	8.15	5.09	8.15	-4.197	9.69		80 S	9.68	9.68	9.68	9.68	9.0.8	•	
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BOX FOR DRIANAGE-NO 2

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ase 3 Water	M (tm)	.37	0.0	0 0 0	.19	.18	÷.0	12.	0.71	0.71	0.71	-0.715	0.71	0.71	17.0	T1.0	.49	0.185	.19	08. 80	.06	. 37	1.37	1.37	1.37	1.37	1.37	-1.372	1.37	
U	N (f)	00.	00.	.00	00.	.00	0.000	00.	9.04	89.04	89.04	-89.049	89.04	89.04	89.04	.00	00.	0.000	.00	00.	00.	00.	105.77	105.77	105.77	105.77	105.77	-105.777	105.77	
pressure load	S S	10	2.07	2.24	3.64	52.38	747	89.04	00.	00	00	0.000	00.	.00	.00	9.04	0.47	52.385	3.64	52.24	92.07	5.77	00.	00.	0.0.	00.	.00	0.000	00.	
Earth	N (tm)	33.	3.65	9.54	51.02	25.21	.82	31.77	31 77	31.77	31.77	-31.778	31.77	31.77	31.77	31.77	4.82	25.2]4	1.02	9.54	13.65	3.43	33.43	33.43	33.43	33.43	33.43	-33.436	33.43	
Cas	N (t)	155.76	153.88	148.21	139.72	131.22	25.56	123.6	10 10	ις L	10 10	2.557	50	55	.01	123.67	125.56	-131.224	139.72	148.21	153.88	155.76	2.55	2.55	2.55	2.55	2,55	-2.557	2 55	
ad	S (†)	10	50	10	0.0	55	10	2.557	23 67	3.06	41.22	0	41.22	103.06	23.67	2.55	2 55	-2.557	2.55	2.55	2.55	2.5	55.76	29.80	1.92	0.00	51.92	-129.807	155.76	
se 1 D	M (tm	27.47	26.96	25.42	23.12	20.82	19.29	-18.779	5 77	3 89	7 - 7	55.424	7.17	3.89	5	18.77	19.29	0.82	23.12	25.42	26.96	27.	7.47	1.08	5.60	5.98	5.60	1.085	.47	
Ca	L(m)	•	. 20	. 80	. 70	. 60	. 20	0	000	000	80	1.200	.60	50	.40	.00	.20	0.800	70	.60	.20	.40	00.	.20	. 80	.20	. 60	2.200	.40	
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BOX FOR DRIANAGE-NO 2

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PICK-UP No. 1 *

BOX FOR DRIANAGE-NO 2

-267 127 -192 814 -195.564 -193.364 -193.564 -143.402 (t) -145.402-143.402277.549 -274.944 -181.089 -243.679 -173.273 -212.354 -240.157 -240.157 -240.157 -178.061 -178.061 -143.402 -170.667 -233.257 -235.862 -204.538 -1.78.061 -178.061 2 MUMINIW 142.223 Ð 0.000 155.446 89.739 -173.551 129.249 82.907 -4.335 -194.381-233.257-207.678 -240.157 214.960 179.134 71.653 0.000 178.061 -193.364 1.70.667 -110.231-77.752 2.479 -231.291 -277.550 143.402 -116.261 S Ś 79.156 26.619 -58.806 -95.509 -95.509 -4.48651.245 9.50.02-3.299 -66.558 M (tm) -103.44.1 -111.324 -71.915 35.695 -45.945 -88.709 -88.709 -61.433 2.505 41.910 3.321 30.173 44.586 103.441 52.557 Case 0000000 50 **NO000** ß 90 N G G G G 99999999 2222222 2222222 699999999 -255.403 -255.403 -235.862 -233.257 -212.354-204.538-143.402 -173.273-181.089-192.814-267.127-274.944-277.5499 -178.061 -178.061 -178.061 -240.157 -240.157 -240.157 -240.157 -214.960 -143.402 -143.402 -193.364 -193.364 -193.364 -170.667 2. MAXIMUM -2.479 -82.907 -129.249 240.157 233.257 194.381 77.752 0.000 -142.223 -155.446 -178.061 193.364 173.551 277.550 231.291 92.517 £ 4.335 -179.134 -56.889 0.000 -143.402 -89.739 -71.653 110.231 1.6.2.6 S • v 41.910 -61 433 -111.324 1 355.9 655.9 8955 8955 -95.509 -58.806 26.619 79.156 3.299 103.441 - 52.55717.652 3.321 (tm) 30.173 -4.486 -95.509 -70.096 44.586 -88.709 64.220 71.915 103.441 111.32 ≥; Case ~ ~ ~ ~ ~ 9992222 ဖဖဖဖ 90000 5 2222222 2222222 299999999 22229 2.600 0.800 2.600 3.200 3.400 Г (@) 0.800 .700 .600 2.200 0.000 1.200 200 .400 .400 0.800 200 2.400 .600 0.200 0.200 1.700 0.000 0.800 0.000 0000.0 0.200 s 2

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PICK-UP No. 1

BOX FOR DRIANAGE-NO 2

-277.549 -274.944 -267.127 -267.127 -265.403 -2255.403 -235.852 -233.257 (£) -233.257 -235.862 -243.679 -243.679 -243.679 -255.403 -2274.944 \mathbb{Z}_{n} ≥. 55 143.402 129.249 82.507 2.479 2.479 -155.446 -178.061 ----89.739 -2.479 -82.907 170.667 142.223 56.889 0.000 -56.889 £ 155.446 178.063 -129.249 -143.402 -170.667-142.22 <u>.</u>.... 2 ٥0 <u>і</u>ны Σ <u>م</u>: -70.096 41.910 2.505 -88.709 -95.509 -64.220 -4.486 6.892 -64.220 -88.709 -61.433 2.505 41.910 3.299 -70.096 M (tm) -4.486 -103.441 Case 0000000 ຍ ບ ບ ບ ບ ບ ບ 99999999 2222929292 -214.960 -2204.538 -204.538 -192.814 -1173.273 -1173.273 -143.402 -143.402 -143.402 -143.402 -143.402 -143.402 -143.402 -143.402 ê \gtrsim MAXIMUM 233.257 194.381 77.752 0.000 -77.752 -194.381 240.157 207.678 -116.201 -116.201 -173.551 -173.551 -193.364 3 -233.257 S ÷ 2 - - - 88.709 355.945 551.2695 455.945 455.945 455.945 455.945 455.945 (tm) -88.709 > Case ~~~~~~ 0000000 00000000 699999999 0.000 0.200 3.200 3.400 3.400 3.400 (m)

PICK-UP No.

BOX FOR DRIANAGE-NO 2

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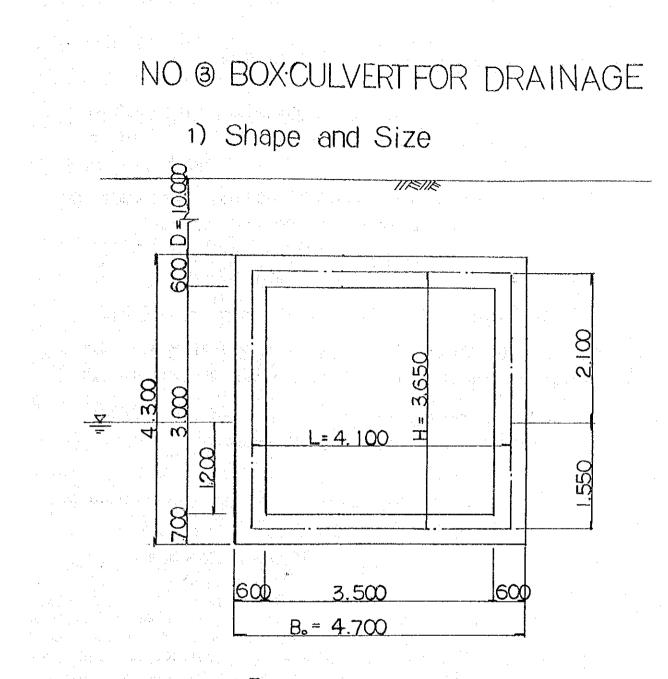
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Where --- D<sup>m</sup> = depth of asphalt and similar surface soil.

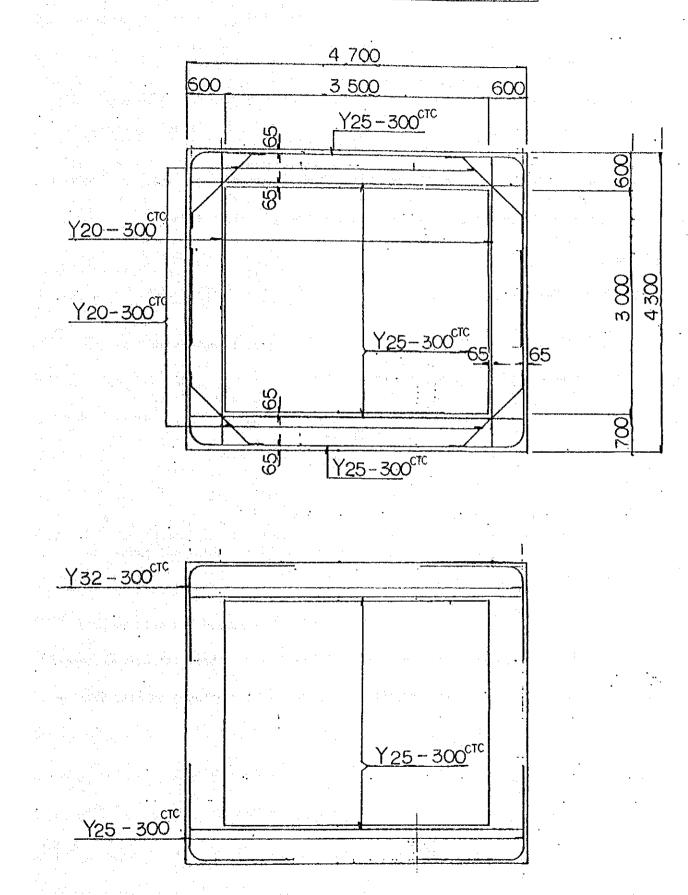
2) Factor of section  $A = 1.00 \times 0.60(0.70) = 0.6000^{m^2}(0.7000)$   $(0.70^3)$   $I = \frac{1.00 \times 0.60^3}{12} = 0.01800^{m^4}(0.02858)$ Ec= 25 kN/mm<sup>2</sup> = 2.5 × 10<sup>7</sup> kN/m<sup>2</sup>

### <u>No. ③ BOX CULVERT FOR DRAINAGE</u> $(D=10.0^m)$

1. calculation for bending moment section  $b=100^{cm}$ d = 53.5 d' = 6.5h = 601) For upper slab a) intersection point @= ③ Mu.min = -387.4<sup>KNm</sup>  $A_s = Y_{25} - 150^{ctc} = 4.909/0.150 = 32.73$ cm<sup>2</sup>  $X = \frac{0.87 \times 41000 \times 32.73}{0.40 \times 2500 \times 100} = 11.8 \text{ cm}$  $Z = 53.5 - \frac{11.8}{2} = 47.6 \text{ cm} < 0.95 \times 53.5 = 50.8 \text{ cm}$  OK  $M_{Rs} = 0.87 \times 41000 \times 32.73 \times 47.6 \times 10^{-5} = 555.7^{KNm} > Mu = 387.4^{KNm}$  $M_{Rc} = 0.40 \times 2500 \times 100 \times 11.8 \times 47.6 \times 10^{-5} = 561.6^{KNm} > Mu = 387.4^{KNm}$ notice : the bar is decide for sheaing stress as following  $A_{s} = \begin{pmatrix} Y_{30} - 300^{\text{ctc}} \\ Y_{25} - 300^{\text{ctc}} \end{pmatrix} = 43.17 \text{ cm}^{2}$ b) middle point  $@\sim3$  Mu.max=440.4<sup>KNm</sup>  $A_s = Y_{25} - 150^{ctc} = 4.909/0.150 = 32.73$ Cm<sup>2</sup>  $X = \frac{0.87 \times 41000 \times 32.73}{0.40 \times 2500 \times 100} = 11.8 \text{ cm}$  $Z = 53.5 - \frac{11.8}{2} = 47.6$  <sup>cm</sup>  $< 0.95 \times 53.5 = 50.8$  <sup>cm</sup> OK  $M_{Rs} = 0.87 \times 41000 \times 32.73 \times 47.6 \times 10^{-5} = 555.7^{KNm} > Mu = 440.4^{KNm}$  $M_{Rc} = 0.40 \times 2500 \times 100 \times 11.8 \times 47.6 \times 10^{-5} = 561.6^{KNm} > Mu = 440.4^{KNm}$ 2) For bottom slab section  $b=100^{cm}$  h=70d = 63.5d' = 6.5a) intersection point (4)=(1) Mu.min=-359.9<sup>KNm</sup>  $A_s = Y_{20} - 150^{\circ tc} = 3.142/0.15 = 20.95 \text{ cm}^2$  $X = \frac{0.87 \times 41000 \times 20.95}{0.40 \times 2500 \times 100} = 7.6^{m}$  $Z = 63.5 - \frac{7.6}{2} = 59.7^{\circ m} < 0.95 \times 63.5 = 60.3^{\circ m}$ 0K  $M_{Rs} = 0.87 \times 41000 \times 20.95 \times 59.7 \times 10^{-5} = 446.1^{KNm} > Mu = 359.9^{KNm}$  $M_{Rc} = 0.40 \times 2500 \times 100 \times 7.6 \times 59.7 \times 10^{-5} = 453.7^{KNm} > Mu = 359.9^{KNm}$ notice : the bar is decide for sheaing stress as following  $A_s = Y_{25} - 150^{ctc} = 32.73 \text{ cm}^2$ 

b) middle point  $(4) \sim (1)$  Mu. max = 542. 4<sup>KNm</sup>  $A_s = Y_{25} - 150^{c+c} = 4.909/0.150 = 32.73$  $X = \frac{0.87 \times 41000 \times 32.73}{0.40 \times 2500 \times 100} = 11.8$  cm  $Z = 63.5 - \frac{11.8}{2} = 57.6$  cm  $< 0.95 \times 63.5 = 60.3$  cm OK  $M_{RS} = 0.87 \times 41000 \times 32.73 \times 57.6 \times 10^{-5} = 672.4^{KNm} > Mu = 542.4^{KNm}$  $M_{RC} = 0.40 \times 2500 \times 100 \times 11.8 \times 57.6 \times 10^{-5} = 679.6^{KNm} > Mu = 542.4^{KNm}$ 0K 2. calculation for shearing force (U.L.S) a) For upper slab Su.max =  $492.4^{KN}$  ··· d<sup>cm</sup>, distance intersection point @=3Su.max =  $295.5^{KN}$   $\cdots$   $2d^{cm}$ , distance section b =100<sup>cm</sup> h = 60d=53.5 d' = 6.5 $A_{s} = \left(\begin{array}{c} Y_{2s} - 300^{\circ t \circ} = 4.909/0.300\\ Y_{32} - 300^{\circ t \circ} = 8.042/0.300 \end{array}\right)$ = 43.17 cm<sup>2</sup>  $P = \frac{43.17}{100 \times 53.5} \times 100 = 0.807 \%$  $V_{C_1} = \frac{492.4 \times 10^3}{100 \times 53.5} = 92.1 \text{ N/cm}^2$  $V_{C_2} = \frac{295.5 \times 10^3}{100 \times 53.5} = 55.3 \text{ N/cm}^2$  $< Vca_1 = \left\{ 50.0 + 15.0 \times \frac{(0.807 - 0.50)}{0.50} \right\} \times \frac{2d}{d} = 118.4 \text{ N/cm}^2$ OK  $< Vca_{z} = \left\{ 50.0 + 15.0 \times \frac{(0.807 - 0.50)}{0.50} \right\} \times \frac{2d}{2d} = 59.2 \text{ N/cm}^{2}$ 0K b) For botton slab section  $b = 100^{cm}$  h = 70 d = 63.5 d' = 6.5Su.max =  $493.0^{\kappa N}$  ··· d<sup>cm</sup>, distance intersection point (1), (4) Su.max =  $235.8^{KN}$   $\cdots$   $2d^{cm}$ , distance  $A_s = Y_{25} - 150^{ctc} = 4.909/0.150 = 32.73 \text{ cm}^2$  $P = \frac{32.73}{100 \times 63.5} \times 100 = 0.515 \%$  $Vc_1 = \frac{493.0 \times 10^3}{100 \times 63.5} = 77.7 \text{ N/cm}^2$  $Vc_2 = \frac{235.8 \times 10^3}{100 \times 63.5} = 37.2$  N/cm<sup>2</sup>  $< Vca_1 = \left\{ 50 + \frac{15}{0.50} (0.515 - 0.50) \right\} \times \frac{2d}{d} = 100.9 \text{ N/cm}^2$ 0K  $< Vca_1 = \left\{ 50 + \frac{15}{0.50} (0.515 - 0.50) \right\} \times \frac{2d}{2d} = 50.5 \text{ N/cm}^2$ 0K notice : the bar is decide for sheaing stress about point @, ③ and (4), (1)

## NO BOX CULVERT FOR DRAINAGE



Load (1)Dead load a) Vertical load Where  $\alpha = 1.35$  {earth pressure factor of vertical}  $\frac{D}{B_0} = \frac{10.0}{4.7} = 2.2 < 3.0 < 3.0$ For upper slab w1 = 22.6×0.50+17.5×9.50×1.35+23.60×0.600 = 249.898 kN/m For side wall  $w2 = 23.6 \times 0.60$ = 14.160 "  $2 \times 14.160 \times 3.65$ For bottom slab W3 = 249.898 += 275.110" 4.10 b)Horizontal load ---- earth pressure For side wall P1 =  $(22.6 \times 0.50 + 17.50 \times 9.80) \times 0.500$ = 91.400 kN / m = 109.775  $P2 = (22.6 \times 0.50 + 17.50 \times 11.9) \times 0.500$ "  $P3 = (22.6 \times 0.50 + 17.50 \times 11.9 + 8.7 \times 1.55) \times 0.500$ = 116.518 C)Horizontal load ----- water Pressure  $Pw = 9.80 \times 1.55$ = 15.190 kN/m (2)Live load live load surcharge of axle width of despersal of wheel KN/axle unite 10 X -30  $B= 0.300 \pm 10.00 \pm 0.600 = 10.900 m$ 3.50 x B 30 10 = 7.864 KN/m3.50 × 10.90 or live load surcharge of vihicle kN/rihiole unit 40 30 ÷ 34.300 KN/m<sup>\*</sup> > 2P = 15.728 KN/m<sup>\*</sup> go ≈ 3.50 × 10.0 OF curse the loaded of live load is consider as following case-1 Vaertical load For upper slab and bottom slab w1=w2=34.300 KN/m case-2 Horizontal load -- eath pressure of live load surcharge For side wall pe =  $go \cdot ko = 34.300 \times 0.500 = 17.150 \text{ KN/m}$ 

|                            |       | 101<br>00 0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       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| 0.0000<br>3.6500<br>3.6500 | · · · | A (m2)<br>0.60000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 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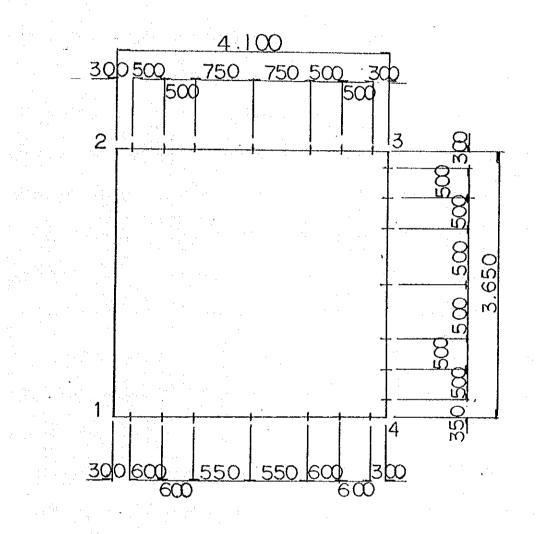
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# CALCULATION POINTS OF EACH FORCE



|            | Pi (t/m) Pi (t | -14.160<br>-14.160<br>-14.160<br>-14.160<br>-249.898<br>-249.898<br>-249.898<br>-249.898<br>-249.898<br>-249.898<br>-249.898<br>-275.110 |                   | Pi (t/m) Pj (t/m) | 116.518 109.775<br>109.775 91.400<br>-91.400 -109.775<br>-109.775 -116.518 |                        |            | (t/m) Pj ( | 15.190 15.190<br>+15.190 -15.19      |           |
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|            | Lo (m)         | 3.650<br>4.100<br>000<br>000                                                                                                             | load              | Lo (m)            | 1.550<br>2.100<br>2.100<br>1.550                                           | ~~~                    | load       | ,<br>E     | 1.550                                | <u> </u>  |
| <b>v</b> ' | Li (m)         | 00000                                                                                                                                    | pressure 10       | Li (m)            | 0.000<br>1.550<br>0.000<br>2.100                                           | 0.000 (t)<br>0.000 (t) | pressure 1 | Li (m)     | 0.000<br>2.100                       | 0.000 (t) |
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BOX FOR DRAINAGE-NO 3

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| and and a second se | Lo (m)<br>4.100<br>4.100      |           |                           | Lo (m)   |                   |                        |
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|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|---|-----------------------|---|-----------------|------------|-----------------|----------------|-----------------|------------------|
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                     |   |                       |   |                 |            |                 |                |                 |                  |
| an an an Araba.<br>An an an an an ann an an an an an an an a                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                     |   |                       |   | (tm)            | 0.000      | (tm)            | 000            |                 |                  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                     |   | •                     |   | RM CI           | 00         | RM (t           | 0.000          |                 |                  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                     | · |                       |   | 3<br>RY (t)     | 0.000      | 6<br>RY (t)     | -0.001         |                 |                  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | •                   |   |                       | · | Case.<br>RX (t) | 0.000      | Case.<br>RX (t) | 0.000          | · .             |                  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                     |   |                       |   |                 |            |                 |                |                 |                  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | ·                   |   |                       | • | RM (tm)         | 0.000      | RM (tm)         | 0.000          |                 |                  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                     |   |                       |   | 2<br>RY (1)     | 0.000      | 5<br>RY (t)     | 0.000          |                 |                  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                     |   | · .                   |   | Case.<br>RX (t) | 0.000      | Case.<br>RX (t) | 0.000          |                 |                  |
| 85000<br>85000<br>85000<br>85000<br>85000<br>85000<br>85000<br>85000<br>85000<br>85000<br>85000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                     |   |                       |   |                 |            | •               | ·              | ·               |                  |
| 0.00000<br>0.0000<br>0.00000<br>0.00000<br>0.00000<br>0.00000<br>0.00000<br>0.00000<br>0.00000<br>0.00000<br>0.00000<br>0.00000<br>0.00000<br>0.0000<br>0.0000<br>0.0000<br>0.0000<br>0.0000<br>0.0000<br>0.0000<br>0.0000<br>0.0000<br>0.0000<br>0.0000<br>0.0000<br>0.0000<br>0.0000<br>0.0000<br>0.0000<br>0.0000<br>0.0000<br>0.0000<br>0.0000<br>0.0000<br>0.0000<br>0.0000<br>0.0000<br>0.0000<br>0.0000<br>0.0000<br>0.0000<br>0.0000<br>0.0000<br>0.0000<br>0.0000<br>0.0000<br>0.0000<br>0.0000<br>0.0000<br>0.0000<br>0.0000<br>0.0000<br>0.0000<br>0.0000<br>0.0000<br>0.0000<br>0.0000<br>0.0000<br>0.0000<br>0.0000<br>0.0000<br>0.0000<br>0.0000<br>0.0000<br>0.0000<br>0.0000<br>0.0000<br>0.0000<br>0.0000<br>0.0000<br>0.0000<br>0.0000<br>0.0000<br>0.0000<br>0.0000<br>0.0000<br>0.0000<br>0.0000<br>0.0000<br>0.0000<br>0.0000<br>0.0000<br>0.0000<br>0.0000<br>0.0000<br>0.0000<br>0.0000<br>0.0000<br>0.0000<br>0.0000<br>0.0000<br>0.0000<br>0.0000<br>0.0000<br>0.0000<br>0.0000<br>0.0000<br>0.0000<br>0.0000<br>0.0000<br>0.000000 |                     |   |                       |   | RM (tm)         | 0000       | RM (tm)         | 0.000          | RM (tm)         | 0.000            |
| ,                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | n<br>O              |   |                       |   | ~               | -          |                 | 00             | ~               |                  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | I NAGE-             |   |                       |   | RY (L)          | -0.001     | RY (t)          | 0.000          | RY (t)          | -0.001<br>-0.001 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | R DRA               |   |                       |   | <b>,</b> -1     | <b>.</b> . | 4               |                | 7               |                  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | BOX FOR DRAINAGE-NO |   | NO 3                  |   | Case.<br>RX (t) | 0.000      | Case.<br>RX (t) | 000 000        | Case.<br>KX (t) | 0.000            |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                     |   | INAGE-                |   |                 |            |                 |                |                 |                  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | •                   |   | BOX FOR DRAINAGE-NO 3 |   | . oN            | · ·        | No.             | ~ <del>7</del> | No.             | 44<br>           |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | :*                  | • | BOX FC                |   |                 |            |                 |                |                 |                  |

BOX FOR DRAINAGE-NO 3

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|   | BOX           |

|                     | ROTA. (mmRad) | -0.1356<br>0.1024<br>-0.1024<br>0.1396      | ROTA. (mmEad)        | 6,9453<br>77,4922<br>76,9453<br>4922                    |                     | ·                                            |     |      |   |          |
|---------------------|---------------|---------------------------------------------|----------------------|---------------------------------------------------------|---------------------|----------------------------------------------|-----|------|---|----------|
|                     | Y-DIS. (mm)   | 0.00000                                     | 6<br>Y-DIS.(лл)      | 0.00000<br>-2.05172<br>-2.05172<br>0.00000              |                     |                                              |     |      |   |          |
| Case.               | X-DIS.(mm)    | 0.00000<br>-0.01671<br>-0.02842<br>-0.04513 | Case.<br>X-DIS.(mm)  | 0.00000<br>0.04960<br>-0.80856<br>-0.75896              |                     | ·<br>· · ·                                   | . • |      |   |          |
|                     | ROTA. (mmRad) |                                             | ROTA.(mmRad)         | -0.33948<br>0.38356<br>-0.38356<br>-0.33356<br>-0.33948 |                     |                                              |     | ·    |   |          |
| 2                   | Y-DIS. (mm)   | 0.00000                                     | 5<br>Y-DIS.(mm)      | 0.0000000000000000000000000000000000000                 |                     |                                              |     |      |   |          |
| C<br>Ss<br>C        | X-DIS. (mm)   | 0.00000<br>0.00223<br>-0.48790<br>-0.48566  | Case.<br>X-DIS.(mm)  | 0.00000<br>0.00374<br>-0.07926<br>-0.07552              |                     |                                              |     | 1 .  |   | · · · ·  |
|                     | ROTA. (mmRad) | 6.69170<br>-7.23508<br>7.23508<br>-6.69170  | ROTA. (mmRad)        | 0.85401<br>-0.97136<br>-0.97136<br>-0.85401             | ROTA.(mmRad)        | -4.93359<br>-5.30121<br>-5.30121<br>-4.93359 |     |      |   | · .<br>: |
|                     | Y-DIS.(mm) F  | 0.00000<br>-1.30946<br>-1.30946<br>0.00000  | 4<br>Y-DIS.(mm) F    | 0.00000<br>-0.17110<br>-0.17110<br>0.00000              | 7<br>Y-DIS.(mm) H   | 0.00000<br>11.80705<br>11.80705<br>0.00000   |     |      |   |          |
| GE-NO 3<br>Case     |               | 0.00000<br>0.02718<br>-0.022718<br>0.02509  | Case.<br>X-DIS. (mm) | 0.00000<br>0.00587<br>-0.00587<br>0.00545               | Case.<br>X-DIS.(mm) | 0.00000<br>0.01980<br>-0.98558               | ·.  | · ·  |   |          |
| BOX FOR DRAINAGE-NO | No.           |                                             | No.                  | 4337<br>437                                             | No.                 | -1004                                        |     | <br> | • |          |

| ·               | 2 Eart<br>M (tm)      | 74.154   |
|-----------------|-----------------------|----------|
| 1 - C           | ິ≍                    | 14       |
|                 | Case                  |          |
| · ·             | ( Ct.)                | 3.975    |
|                 |                       | - 26     |
|                 | ÷.                    | 10.711   |
|                 | · • • ,               | 1        |
|                 | load<br>S             | -10      |
|                 | Dead<br>tm)           | -152.153 |
|                 | ୷ୖୢୢୖ୷ୄ               | 20       |
| m               | Case 1 Dead<br>M (tm) | ï        |
| FOR DRAINAGE-NO | L(m)                  | 0.000    |
| AN N            |                       |          |
| DRA             | °N<br>N               | 61       |
| FOR             |                       | I<br>M   |
| BOX             | . *•                  |          |
|                 |                       |          |

| X (t)                  | ୍ଚି    | 0.000    | 80.    | 8      | 8      | 8      | 8      | 80.    | 8.     |   | 4 28   | 4. 28  | 4.28   | -4.232   | 4.28   | 4.28   | 4.28   | 4.28   | 4.28     | 00.          | 00                                      | ŝ                    | , c                                                                                              | 00000    |                                         | 200                                                                | 200               |                   | <u>.</u> | ****    | 19.26  | 19.26  | 9.26   | 19.26  | 19-26  | 19-36    | 9-30   | 9.20                |   |
|------------------------|--------|----------|--------|--------|--------|--------|--------|--------|--------|---|--------|--------|--------|----------|--------|--------|--------|--------|----------|--------------|-----------------------------------------|----------------------|--------------------------------------------------------------------------------------------------|----------|-----------------------------------------|--------------------------------------------------------------------|-------------------|-------------------|----------|---------|--------|--------|--------|--------|--------|----------|--------|---------------------|---|
| pressure load<br>S (t) | 9.26   | 13.946   | 6.35   | 5      | 4.28   | 4.28   | 4 23   | 4 28   | 4.28   | 4 | 8      | 8      | 8      | 0.000    | 8,     | 8      | 80.    | 800    | 8.0      | - c0         | 100                                     | 2 C                  | 4 C                                                                                              | 4 282    | 5                                       | 4 4<br>4 4<br>7 4<br>7 4<br>7 4<br>7 4<br>7 4<br>7 4<br>7 4<br>7 4 | 204               | r (<br>) (<br>) ( | 97.6T    | . 000   | .000   | .000   | 000    | 000    | 000    | 0.000    | 8      | 8                   |   |
| Case 3 Water<br>M (tm) | 86     | 0.947    | 02     | 50     | 9<br>7 | 5      | 1.17   | မ္     | 2.24   |   | 2.24   | 2.24   | 2.24   | -2.249   | 2.24   | 2.24   | 2.24   | 2.24   | 2.24     | 2.2          | 0.96                                    | ) (-<br>) (-<br>) (- | ċ                                                                                                | 5 460    | .0                                      | 16<br>16                                                           | 20                |                   | 80       | 00      | 4.86   | 4.86   | 4.86   | 4.86   | 4.86   | 86       | 4.8C   | 9                   |   |
| ad N (t)               |        | 0.000    | 8      | 8      | 8      | 8      | 8      | 8      | 8      | - | 179.31 | 179.31 | 179.31 | -179.316 | 179 31 | 179.31 | 179.31 | 179.31 | 179.31   | : . <b>°</b> | 20                                      | è s                  | ې.c                                                                                              |          | $\sim$                                  | 2.6                                                                | 2                 | ? '               | <u>.</u> | 207.29  | 207.29 | 207.29 | 207.25 | 207.29 | 207.29 | -207.295 | 207.29 | 207.29              | - |
| pressure loa<br>S (t)  | 07.25  | 166.780  | 09.82  | 3.96   | 0.62   | 53.10  | 103 39 | 51 50  | 179.31 | ÷ | ਼      | ୍      | ਼      | 0.000    | ਼      | ୍      | 0      | 0      | °.       | 70 31        | 4 C                                     |                      | 2<br>2<br>2<br>2<br>2<br>2<br>2<br>3<br>2<br>3<br>2<br>3<br>3<br>3<br>3<br>3<br>3<br>3<br>3<br>3 | 0.691    |                                         |                                                                    |                   | 07:007            | 207.29   | 00.     | 00.    | 8      | .00    | 000    | 00.    | 0.000    | 00.    | 00.                 |   |
| Case 2 Earth<br>M (1m) | 4.10   | -8.706   | 0.40   | 1.30   | 14.56  | 01.03  | 61.82  | 1.99   | 1.63   |   | 51.63  | 51.63  | 51.63  | -51,636  | 51.63  | 51.63  | 51.63  | 51.63  | 51.63    | с.<br>С      |                                         | 0 0<br>0 0           | 100                                                                                              |          | 5 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 |                                                                    | ) (<br>7 L<br>) ( | 07.0              | 4.15     | 4.15    | 74.15  | 74.15  | 74.15  | 74.15  | 74.15  | -74.154  | 74.15  | 74.15               |   |
| N<br>N                 | 563.97 | -559.019 | 551.93 | 544.85 | 37.77  | 530.69 | 523.61 | 516.53 | 512.29 |   | 10 71  | 10.71  | 10 71  | -10.711  | 10.71  | 10.71  | 10.71  | 0.71   | 0.1      | 510 00       | 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - |                      | 10.000                                                                                           | 000.000- |                                         | 0.44.00                                                            | 00.100            | 10.866            | 63.97    | 0.7     | 5.0    | 0.7    | 10     | 5.0    | 0.71   | •        | 0.71   | 0.71                |   |
| load S(t)              | 0.71   | -10.711  | 0.71   | 10.71  | 0.71   | 10.71  | 0.71   | 10.71  | 10.71  |   | 12.29  | 37.32  | 12.37  | 42       | 0.00   | 187.42 | 12.37  | 437.32 | -512.291 | 12           |                                         |                      |                                                                                                  |          |                                         |                                                                    | 1                 | 0.71              | 0.71     | 63.9    | 81.44  | 16.37  | 100    | 0.00   | 151.31 | 16.37    | 481.44 | -563.975            |   |
| ase 1 Dcad<br>M (tm)   | 2.15   |          | 61.25  | 166.61 | 71.96  | 177.32 | 182.67 | 88.03  | 191.24 |   | 91.24  | 48.80  | 38.61  | 63.56    | 33.85  | 63.56  | 38.61  | 48.80  | -191.247 | 101          | r.c<br>4 C<br>4 G                       |                      | 10.101                                                                                           | 000      |                                         | 100.02                                                             | 07 - I Q I        | 155.90            | 152.15   | 0<br>   | 4.66   | 44.00  | 15.28  | 25,92  | 84.31  | 00,      | 4.66   | -152.153            |   |
| С<br>Г(в)<br>Г         | 00     | 0.350    | 80.0   | . 35   | .85    | .35    | . 85   | . 35   | .65    |   | ę      | e      | °.     | с,       | ୍      | ~      | ີ.     | Ξ,     | 4.100    | · c          |                                         | 2                    | 200                                                                                              | 000.1    | 0.0                                     | 0.00                                                               |                   | 30                | 6.9      | 00      | 0      | ç      |        | 00     | 99     | 200      |        | 4.100               | • |
| No                     |        | *        |        | ÷      | • •    |        |        | -      |        |   |        |        |        | ლ<br>.*  |        |        |        |        | ດ<br>- ຕ |              |                                         |                      |                                                                                                  | ×. (     |                                         |                                                                    |                   |                   | 4- 3     | 4-<br>7 |        |        |        |        |        | *        |        | <del>ار</del> ،<br> |   |

3  $\mathbf{z}_{i}$ 323.948 257.098 163.124 70.945 70.945 119.113 1138.697 1268.697 1268.667 313.960 268.067 105.707 105.113 105.113 105.113 105.113 105.113 133.945 1257.098 878.837 750.226 493.006 235.785 235.785 235.785 1493.006 1493.006 1493.006 1493.226 1878.837 3 S 6 X (tm) -358.470 -114.111 258.859 477.496 577.496 577.496 258.859 258.859 258.859 258.470 387.338 162.810 132.621 329.575 440.352 1329.575 1329.575 1329.575 132.621 132.621 162.810 Case N (1) N 30.364 255.219 16.644 8.069 8.069 19.081 17.556 126.231 17.555 10 ad - Hr - 8 ( ( ) - 3 2 ( ) 2 3 4 3 2 ( ) 2 3 4 1 7 ( 6 5 6 9 ( ) 6 5 6 9 ( ) 6 5 6 1 7 ( 6 5 6 9 ( ) 6 5 6 1 7 ( 6 5 6 1 7 ( 6 5 6 1 7 ( 6 5 6 1 7 ( 6 5 6 1 7 ( 6 5 6 1 7 ( 6 5 6 1 7 ( 6 5 6 1 7 ( 6 5 6 1 7 ( 6 5 6 1 7 ( 6 5 6 1 7 ( 6 5 6 1 7 ( 6 5 6 1 7 ( 6 5 6 1 7 ( 6 5 6 1 7 ( 6 5 6 1 7 ( 6 5 6 1 7 ( 6 5 6 1 7 ( 6 5 6 1 7 ( 6 5 6 1 7 ( 6 5 6 1 7 ( 6 5 6 1 7 ( 6 5 6 1 7 ( 6 5 6 1 7 ( 6 5 6 1 7 ( 6 5 6 1 7 ( 6 5 6 1 7 ( 6 5 6 1 7 ( 6 5 6 1 7 ( 6 5 6 1 7 ( 6 5 6 1 7 ( 6 5 6 1 7 ( 6 5 6 1 7 ( 6 5 6 1 7 ( 6 5 6 1 7 ( 6 5 6 1 7 ( 6 5 6 1 7 ( 6 5 6 1 7 ( 6 5 6 1 7 ( 6 5 6 1 7 ( 6 5 6 1 7 ( 6 5 6 1 7 ( 6 5 6 1 7 ( 6 5 6 1 7 ( 6 5 6 1 7 ( 6 5 6 1 7 ( 6 5 6 1 7 ( 6 5 6 1 7 ( 6 5 6 1 7 ( 6 5 6 1 7 ( 6 5 6 1 7 ( 6 5 6 1 7 ( 6 5 6 1 7 ( 6 5 6 1 7 ( 6 5 6 1 7 ( 6 5 6 1 7 ( 6 5 6 1 7 ( 6 5 6 1 7 ( 6 5 6 1 7 ( 6 5 6 1 7 ( 6 5 6 1 7 ( 6 5 6 1 7 ( 6 5 6 1 7 ( 6 5 6 1 7 ( 6 5 6 ) 1 7 ( 6 5 6 ) 1 7 ( 6 5 6 ) 1 7 ( 6 5 6 ) 1 7 ( 6 5 6 ) 1 7 ( 6 5 6 ) 1 7 ( 6 5 6 ) 1 7 ( 6 5 6 ) 1 7 ( 6 5 6 ) 1 7 ( 6 5 6 ) 1 7 ( 6 5 6 ) 1 7 ( 6 5 6 ) 1 7 ( 6 5 6 ) 1 7 ( 6 5 6 ) 1 7 ( 6 5 6 ) 1 7 ( 6 5 6 ) 1 7 ( 6 5 6 ) 1 7 ( 6 5 6 ) 1 7 ( 6 5 6 ) 1 7 ( 6 5 6 ) 1 7 ( 6 5 6 ) 1 7 ( 6 5 6 ) 1 7 ( 6 5 6 ) 1 7 ( 6 5 6 ) 1 7 ( 6 5 6 ) 1 7 ( 6 5 6 ) 1 7 ( 6 5 6 ) 1 7 ( 6 5 6 ) 1 7 ( 6 5 6 ) 1 7 ( 6 5 6 ) 1 7 ( 6 5 6 ) 1 7 ( 6 5 6 ) 1 7 ( 6 5 6 ) 1 7 ( 6 5 6 ) 1 7 ( 6 5 6 ) 1 7 ( 6 5 6 ) 1 7 ( 6 5 6 ) 1 7 ( 6 6 ) 1 7 ( 6 6 ) 1 7 ( 6 6 ) 1 7 ( 6 6 ) 1 7 ( 6 6 ) 1 7 ( 6 6 ) 1 7 ( 6 6 ) 1 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| -          | ∑.               | N (t)    | 778.28      | 871.99   | -862.226                   | 852.45 | 842.68 | 832.91     | 823.14         | 813.37 | 807.51 |        | SIS-96                                                             | 67.81          | 367.31            | 367:81          | 367.81  | 367.81 | 367.81 | 367.81      | 313    |       | 807.5] | 13.37                                                                                            | 823.14 | 32.91       | 842.68 | 852.45 | -862.226   | 871.99 | 778.28 | 10 93  | 4 C 4 C 4 C 4 C 4 C 4 C 4 C 4 C 4 C 4 C | 40         | 1          | 412.22         | 412.22 | ୍         | 412.22      | 412.22  | 412.22 |
|------------|------------------|----------|-------------|----------|----------------------------|--------|--------|------------|----------------|--------|--------|--------|--------------------------------------------------------------------|----------------|-------------------|-----------------|---------|--------|--------|-------------|--------|-------|--------|--------------------------------------------------------------------------------------------------|--------|-------------|--------|--------|------------|--------|--------|--------|-----------------------------------------|------------|------------|----------------|--------|-----------|-------------|---------|--------|
| <br>       | NEXIMO           | S (t)    | 12.22       | 57.09    | 163.124                    | 70.94  | 19.11  | 105.70     | 188.69         | 8.06   | 313.96 | 1      | 10.70                                                              | $\sim$         | 31.07             | 03.64           | 00:00   | 258.64 | 1:02   | 603.50      | 80     | . • . | 13.56  | 68.06                                                                                            | 88.69  | 5.70        | 19-11  | 70.94  | -163.124   | 57.09  | 412 22 | 78.95  | 00 19                                   |            |            | 08:80          | 0.00   | 208.      | 36.60       | 664.35  | 778.28 |
|            | Υ.               | M (tm)   | 59.87       | 56.81    | 151.8                      | 93.38  | 80.55  | 111.91     | 185.66         | 00:00  | 387.33 |        | 00 100                                                             | 0.0            | 88.49             | 60.92           | 1.91    | 60.92  | 88.49  | 0.15        | 87.3   |       | 87.33  | 300.00                                                                                           | 85.66  | 111.91      | 80.55  | 93.38  | 151.83     | 56.81  | 359.8  | 87     | 7.1.2.47                                |            |            | 80.44          | 37.86  | 4         | 86.32       | 43.47   | 59.8   |
| Ξ.         |                  | Case     |             |          | 9<br>-<br>0                | 1      | 1      | 1          | Ŷ              | 1      | <br>1  | . :    | 1                                                                  |                |                   |                 | i.      | 1      | ì      | ÷.          | 1      |       | 1      | ı.                                                                                               | ŧ.     | ł           |        | ì      | ہ<br>د     |        | 1      | i      | ì                                       |            |            |                | :      | C7        | 4           | ī       | 1      |
|            | M                | N (t)    | 878.83      | 771.44   | -761.676                   | 751 90 | 742.13 | 732 36     | 722 59         | 712 82 | 706:96 |        | 10.000                                                             |                | 00.000            | 00.010          | 313.96  | 313.96 | 313.96 | 313.96      | 367.81 |       | 100 40 | 712.82                                                                                           | 722,59 | 732.36      | 742.13 | 751-90 | -761.676   | 771 44 | 878.83 | 323.94 | 373 94                                  | 2020 0 4 4 |            | 49.020         | 323.94 | -323.948  | 323.94      | 323.94: | 323,94 |
| · · ·      | MAXIMUN          | s (t)    | 23.9        | 6.69     | 06.04                      | 87.18  | -22:03 | 122.77     | 219.91         | 313.43 | 67.81  | 00 00  |                                                                    |                | 00.<br>100<br>100 | 00.40           | 00.00   | 295.43 |        | 689.33      | 706.96 |       |        | 3<br>7<br>7<br>7<br>7<br>7<br>7<br>7<br>7<br>7<br>7<br>7<br>7<br>7<br>7<br>7<br>7<br>7<br>7<br>7 | 19.91  | 22.77       | 22.03  | 87.18  | -206.043   | 26.69  | 323.94 | 78.83  | 50.22                                   | 10         | 2 C        | 0 0 0<br>0 0 0 | 00.0   | -235.785  | 493.00      | 750:22  | 78.83  |
| UP No. I * | X                |          | 358.        | 30.59    | 97.47                      | 24.24  | -8.83  | -45.19     | 131.01         | 0.0    | 366.72 | 266 70 | 4 G<br>4 G<br>4 G<br>4 G<br>4 G<br>4 G<br>4 G<br>4 G<br>4 G<br>4 G | 120 6010       | 4 C<br>5 U<br>4 C |                 | 0.00    | 20.02  | 132.62 | 52.81       | 366.72 | 000   | 4      | )<br>,<br>,<br>,                                                                                 | 10.101 | 70.<br>200  | -8.83  | 24 24  | -97.479    | 30.59  | 358.47 | 58.47  | 14.11                                   | 58.85      | 0 7 0 0    |                | 12.33  | 477.496   | 58.85       | 14.11   | 58.47  |
| PICK-I     | · · ·            | Case     | و<br>د<br>د | 1        | 1                          | 1      | 1      | 1          | 1              | ı      | ł.     | ,      |                                                                    | oj œ<br>I<br>I | . 1               |                 | ı .     | 1      | ÷      |             |        | 1     |        |                                                                                                  | 1      | \$          | 1      |        | C- 7       |        | 1      | ı      | ŧ                                       |            |            |                |        | ں<br>- ۲  | 1           |         |        |
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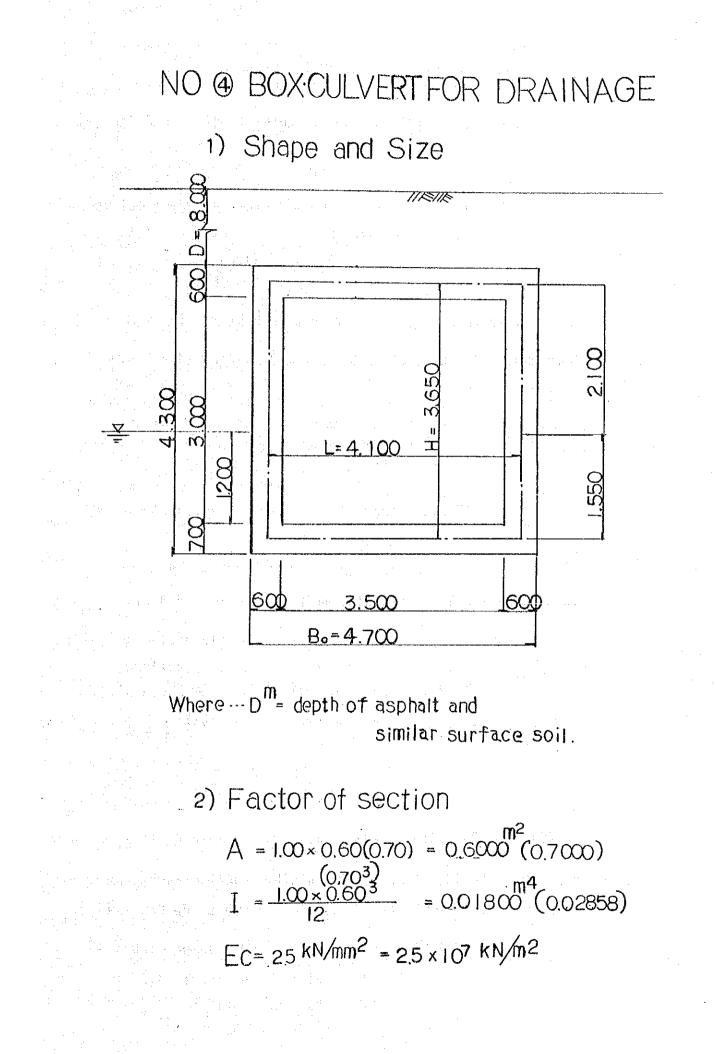
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|---------|--------|----------|--------|----------|----------|--------|-------------|-----------------------------------------|------------|----------|---|----------|--------|--------|--------|--------|-----------|--------|--------|---------------|-----|--------|--------|--------|--------|----------|--------|--------|--------|----------|--------|--------|----------------------|------------|------------|--------|-----------------|-------------|---------------------|-------------|
| E1      | N (t)  | -878.836 | 871.99 | 62.22    | 852.45   | 742.13 | 732.36      | 22.59                                   | 712.82     | 706.96   | • | -367.819 | 367.8] | 367.81 | 367.81 | 313.96 | 13.90     | 313.96 | 313.96 | 313.96        |     | 07.51  | 813.37 | 823.14 | 832.91 | -842.685 | 751.90 | 761 67 | 771 44 | 778 28   | 412.22 | 412.22 | 412.22               | 412.22     | 323.94     | 323.94 | 323.94          | -323.948    | 323.94              | ·<br>•<br>• |
| MUMINIM | \$ (t) | 323.948  | 7.09   | 3-12     | 1.6.0    | 2.03   | 2.77        | 16.6                                    | 313.43     | 367.8.   |   | 706.961  | ιų.    | ਼      | φ      | ٩.     | 295.4     | 492.3  | e.     | 807.5         |     | 90     | 68.05  | 88.69  | 05.70  | Ġ,       | 87.18  | 04     | 326,69 | 412.22   | 78.28  | 64.39  | 36-60                | . 80       | 0.00       | 35.78  | 93.00           | -750.226    | 78.83               | •           |
| Ś       | M (tm) | -358.470 | 256.81 | 151.83   | 3.38     | 8.83   | 5.19        | 131.01                                  | 4.50       | 366.72   |   |          | 170.15 | 88.49  | 60.52  | 40.36  | 9.57      | 32.62  | 62.81  | 387.33        |     | 387.33 | 300.00 | 85.66  | 111.91 | -80.555  | 24.24  | -97.47 | 30.59  | 359.87   | 9.87   | 43.47  | 86.82                | 80.44      | 42.33      | 77.45  | 58.85           | -114.111    | 58.47               |             |
|         | Case   | ပ်       | 1      | 1        | 1        | i      | ı           | 1                                       | ;          | 1        |   | 5<br>5   | i.     | 'n.    | 1      | 1      | ı         | 1      | ī      | 0-<br>0-      |     | .1     | ī      | 1      | ī      | ہ<br>ح   | ī      |        | 1      | 1        | 1      |        | ,                    |            |            |        |                 | 0<br>0<br>0 | 1                   |             |
| 7       | N (1)  | 778.28   | 771.44 | 61.67    | 751.90   | 842.68 | 832.91      | 823.14                                  | 1.3 . 37   | -807.512 |   | 313.9    | 313.96 | 313.96 | 313.56 | 367.81 | 67.81     | 367.81 | 367.81 | 367.81        | e i | 706.96 | 712.82 | 722.59 | 732.36 | 742.     | 852.45 | 862.22 | 871.99 | 78.83    | 23.94  | 23.94  | 23.94                | 23.94      | 10.02      | 000    | 12.22           | -412.224    | 10.01               | 3           |
| MAXIMUM | s (t)  | 12 22    | 26 69  | 5.04     | 87.18    | 11.61  | 105.70      | 188.69                                  | 68.06      | -313.960 | ÷ | ·        | ີ<br>ດ | 2      |        | 6      |           | 431.0  | 03.    |               |     | 67.81  | 13.43  | .91    | 22.77  | 22.03    | 70.94  | 63.12  | 257.09 | 323.     | 78.    | 0.0    | 633                  | •          | ç          | γä     | •<br>• •        | -664.391    | r a<br>5 t          |             |
| ŝ       | M (tm) | 59.87    | 230.59 | 97.47    | 24.24    | 80.55  | 111 93      | 191 191 191 191 191 191 191 191 191 191 | 300.00     | -387.338 |   | 387.3    | 162.81 | 32.62  | 29.57  | 57.91  | 0.92      | 88.49  | 170.15 | -366.722      |     | 366.72 | 64.50  | 131.01 | 45.19  | -8.83    | 93.38  | 51.83  | 56.81  | -358.470 | 5.47   | 11 21  | ( 0)<br>( 0)<br>( 0) | 77.49      |            |        | 14.<br>00<br>00 | 100.040     | - C 0<br>7 0<br>7 0 | 10.00       |
|         | Case   | <br>2    | 1      |          | <b>.</b> | ŧ      | . 1         |                                         | - 1        |          |   |          |        |        | 1      | 1      | ı         |        | 1      | O             |     |        | i      | ł      | , i    | .1       | -1     | ı      | Т      | 5        | . 1    |        | 1                    | ,          |            |        |                 |             |                     | ŧ           |
|         | L<br>B | ୍        | 50     | 10<br>00 | e.       | α      | ) ע<br>ראיי | ) (<br>) (                              | 5 K<br>6 C | 3.650    | • | 0        | с,     | ~~~    | . "    | 20     | 0         | ) (C   | 00     | 4.100         |     | 00.    | 30     | 80     | 1000   | 80.      | 30     | 808    | 30     | 3.650    | Ę      |        | >.c                  | 5 C<br>5 U | ) L<br>D ( | 5.0    | 200             | 2002 2      | 2                   | . I C       |
|         | No.    |          | *      |          |          |        |             |                                         |            | 5        |   |          | *      |        |        |        | • 10<br>* |        |        | 13<br>1<br>10 |     | 1<br>4 | *      |        |        |          |        |        |        | ເ<br>ຊ   |        | 3      |                      |            |            |        |                 | о (<br>*    |                     |             |

| No.         L (a)         Case         X (1)         X (1) <thx (1)<="" th=""> <thx (1)<="" th=""> <thx (1<="" th=""><th></th><th></th><th></th><th>· · ·</th><th>PICK-UP</th><th>P .No. 1 *</th><th></th><th>•</th><th>•</th><th>·</th><th></th><th>•</th></thx></thx></thx>                                                   |        |        |                | · · ·          | PICK-UP  | P .No. 1 * |          | •            | •          | ·      |          | •       |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|--------|----------------|----------------|----------|------------|----------|--------------|------------|--------|----------|---------|
| No.         L         (m)         Case         X         (m)         S         S         S         S         S         S         S         S         S         S         S         S         S         S         S         S                                                                                                                                                                                                                                                                                                                                                                  |        |        | . :            | •              |          | *          | AXIMU    | W            |            | 24     | DWINIW.  | br vi.  |
| 0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0                                                                                                                                                                                                                                                                                                                                                                                                         |        |        | .0.            | $\sim$         | ທີ       | ÷          | <u> </u> | <del>.</del> | U)         | (tm)   | <b>~</b> | ~       |
| 1         0.350         C-7         -320.56         817         -356.813         257.193         -377.195         -77.11           8         1         1.350         C-7         -320.56         817.195         -77.12         -77.12         -77.12         -77.12         -77.12         -77.12         -77.12         -77.12         -77.12         -77.12         -77.12         -77.12         -77.12         -77.12         -77.12         -77.12         -77.12         -77.12         -77.12         -77.12         -77.12         -77.12         -77.12         -77.12         -77.12         -77.12         -77.12         -77.12         -77.12         -77.12         -77.12         -77.12         -77.12         -77.12         -77.12         -77.12         -77.12         -77.12         -77.12         -77.12         -77.12         -77.12         -77.12         -77.12         -77.12         -77.12         -77.12         -77.12         -77.12         -77.12         -77.12         -77.12         -77.12         -77.12         -77.12         -77.12         -77.12         -77.12         -77.12         -77.12         -77.12         -77.12         -77.12         -77.12         -77.12         -77.12         -77.12         -77.12         -77.12         -77.1                                                                                                                                                                                                             |        | -      | ¢1             | 00.            | <u> </u> | 359.87     | 12 22    | 778.28       | 1          | 358.47 | 323.94   | \$75.83 |
| 2         0.850         C - 7         -97, 470         206, 437         775, 105         -751, 105         -751, 105         -751, 105         -751, 105         -751, 105         -751, 105         -751, 105         -751, 105         -751, 105         -751, 105         -751, 105         -751, 105         -751, 105         -751, 105         -751, 105         -751, 105         -751, 105         -751, 105         -751, 105         -751, 105         -751, 105         -751, 105         -751, 105         -751, 105         -751, 105         -751, 105         -751, 105         -751, 105         -751, 105         -751, 105         -751, 105         -751, 105         -751, 105         -751, 105         -751, 105         -752, 105         -752, 105         -752, 105         -752, 105         -752, 105         -752, 105         -752, 105         -752, 105         -752, 105         -752, 105         -752, 105         -752, 105         -752, 105         -752, 105         -752, 105         -752, 105         -752, 105         -752, 105         -752, 105         -752, 105         -752, 105         -752, 105         -752, 105         -752, 105         -752, 105         -752, 105         -752, 105         -752, 105         -752, 105         -752, 105         -752, 105         -752, 105         -752, 105         -752, 105         -752, 105                                                                                                                  |        | *      |                | 35             | ÷.       | 230.59     | 26.69    | 771.44       | i          | 256.81 | 257.09   | 871.99  |
| 3 $1.350$ $C = 7$ $-24.247$ $87.183$ $-772.584$ $C = 6$ $-110.5707$ $-352.45$ $-323.26$ $-66.552$ $-122.707$ $-325.26$ $-122.707$ $-325.26$ $-122.707$ $-325.26$ $-122.707$ $-325.26$ $-122.707$ $-325.26$ $-122.707$ $-325.26$ $-122.707$ $-325.26$ $-325.26$ $-325.26$ $-325.26$ $-325.26$ $-325.26$ $-325.26$ $-325.26$ $-325.26$ $-325.26$ $-325.26$ $-325.26$ $-325.26$ $-325.26$ $-325.26$ $-325.26$ $-325.26$ $-325.26$ $-325.26$ $-325.26$ $-325.26$ $-325.26$ $-325.26$ $-325.26$ $-325.26$ $-325.26$ $-325.26$ $-325.26$ $-325.26$ $-325.26$ $-325.26$ $-325.26$ $-325.26$ $-325.26$ $-325.26$ $-325.26$ $-325.26$ $-325.26$ $-325.26$ $-325.26$ $-325.26$ $-325.26$ $-325.26$ $-325.26$ $-325.26$ $-325.26$ $-325.26$ $-325.26$ $-325.26$ $-325.26$ $-325.26$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |        | *      |                | 10<br>60       | 1        | 97.47      | 0.6.04   | 761.67       | 1          | 151.83 | 163.12   | 862 22  |
| *       4       1.350       C-7 $-9.86$ $-742.133$ $-194.55$ $-19.56$ $-19.56$ $-19.56$ $-19.57$ $-19.56$ $-19.56$ $-19.56$ $-19.56$ $-19.56$ $-19.56$ $-19.56$ $-19.56$ $-19.56$ $-19.56$ $-19.56$ $-19.56$ $-19.56$ $-19.56$ $-19.56$ $-19.56$ $-19.56$ $-19.56$ $-19.56$ $-19.56$ $-19.56$ $-19.56$ $-19.56$ $-19.56$ $-19.56$ $-19.56$ $-19.56$ $-19.56$ $-19.56$ $-19.57$ $-19.57$ $-19.57$ $-19.57$ $-19.57$ $-19.57$ $-19.57$ $-19.57$ $-19.57$ $-19.57$ $-19.57$ $-19.57$ $-19.57$ $-19.57$ $-19.57$ $-19.57$ $-19.57$ $-19.57$ $-19.57$ $-19.57$ $-19.57$ $-19.57$ $-19.57$ $-19.57$ $-19.57$ $-19.57$ $-19.57$ $-19.57$ $-19.57$ $-19.57$ $-19.57$ $-19.57$ $-19.57$ $-19.57$ $-19.57$ $-19.57$ $-19.57$ $-19.57$ $-19.57$ $-19.57$ $-19.57$ $-19.57$ $-19.57$ $-19.57$ $-19.57$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |        | *      | .က             | .35            | ٠t       | 24.24      | 87.18    | 751.90       | 1          | -93.38 | 70.94    | 852.45  |
| *       5       2.830       C - 7       -112.779       -732.584       C - 6       -111.911       -105.707       -883.437         *       7       3.550       C - 7       -365.723       -313.437       -772.584       C - 6       -300.001       -163.707       -883.437         *       1       3.650       C - 7       -365.722       -313.437       -701.834       C - 6       -300.001       -163.707       -883.231         *       1       0.000       C - 6       -337.338       807.512       -313.960       C - 7       -366.722       -367.81         *       1       0.000       C - 6       132.621       -337.338       807.512       -313.960       C - 7       -366.722       -367.81         *       2       0.000       C - 6       130.1504       C - 7       256.751       -357.313       -311.960       C - 7       -366.721       -266.761       -367.81         *       2       0.000       C - 6       130.1504       C - 7       256.954       -307.51       -367.81         *       2       3000       C - 6       130.1506       C - 7       256.951       -266.951       -266.951       -266.951       -266.951       -266.951.91                                                                                                                                                                                                                                                                                                                                                  | •      | *      | 4              | .83            | ï        | -8:83      | 22:03    | 742.13       | 1          | -80.55 |          | 842.68  |
| *         6 $2.850$ $C - 7$ $-121, 014$ $-712, 254$ $C - 6$ $-387, 033$ $-313, 500$ $-183, 053$ $-386, 722$ $-313, 590$ $-387, 513$ $-386, 723$ $-386, 723$ $-386, 723$ $-387, 513$ $-387, 513$ $-387, 513$ $-387, 513$ $-387, 513$ $-387, 513$ $-387, 513$ $-387, 513$ $-387, 513$ $-387, 513$ $-387, 513$ $-387, 513$ $-387, 513$ $-387, 513$ $-387, 513$ $-387, 513$ $-387, 513$ $-387, 513$ $-387, 513$ $-387, 513$ $-387, 513$ $-387, 513$ $-387, 513$ $-387, 513$ $-387, 513$ $-387, 513$ $-387, 513$ $-387, 513$ $-387, 513$ $-387, 513$ $-387, 513$ $-387, 513$ $-387, 513$ $-387, 513$ $-387, 513$ $-387, 513$ $-387, 513$ $-387, 513$ $-387, 513$ $-387, 513$ $-387, 513$ $-387, 513$ $-387, 513$ $-387, 513$ $-387, 513$ $-387, 513$ $-387, 513$ $-387, 513$ $-387, 513$ $-387, 513$ $-387, 513$ $-387, 513$ $-387, 513$ $-387, 513$ $-387, 513$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |        | *      | ເດ             | 10<br>()       | ī        | 45,19      | 122 77   | 732.36       | j,         | 111.91 | -105.70  | 832.91  |
| *       7       35.50       C-7 $-266.722$ $-313.437$ $-7712.824$ C-6 $-3307.303$ $-337.366$ $-337.366$ $-337.366$ $-337.366$ $-337.366$ $-337.366$ $-337.366$ $-337.366$ $-337.366$ $-337.366$ $-337.366$ $-337.366$ $-367.813$ $-3367.367$ $-313.3667$ $-367.813$ $-337.366$ $-367.813$ $-337.366$ $-367.812$ $-3896.761$ $-337.366$ $-307.361$ $-367.812$ $-367.812$ $-3896.761$ $-337.366$ $-367.812$ $-367.812$ $-397.362$ $-367.812$ $-367.812$ $-367.812$ $-367.812$ $-367.812$ $-367.812$ $-367.812$ $-367.812$ $-367.812$ $-367.812$ $-313.360$ $-77$ $-3867.812$ $-367.812$ $-367.812$ $-313.360$ $-77$ $-3867.812$ $-367.812$ $-367.812$ $-367.812$ $-367.812$ $-367.812$ $-367.812$ $-367.812$ $-367.812$ $-367.812$ $-367.812$ $-367.812$ $-367.812$ $-367.812$ $-367.812$ $-367.812$ $-367.812$ $-367.812$ $-367.812$ $-367.812$ $-367.812$ $-367.812$ $-367.812$ <td< td=""><td></td><td>*</td><td>è</td><td>. 83</td><td>÷</td><td>131.01</td><td>219 91</td><td>722.59</td><td>1</td><td>185.66</td><td>-188.69</td><td>823.14</td></td<>                                                                                                                                                                                                                                                                                                                                                                                                                                                    |        | *      | è              | . 83           | ÷        | 131.01     | 219 91   | 722.59       | 1          | 185.66 | -188.69  | 823.14  |
| 1         3.650         C-7         -366.722         -367.819         -706.961         C-6         -387.333         -907.51         -313.960         C-7         -386.722         -367.81         -367.81         -367.81         -367.81         -367.81         -367.81         -367.81         -367.81         -367.81         -367.81         -367.81         -367.81         -367.81         -367.81         -367.81         -367.81         -367.81         -367.81         -367.81         -367.81         -367.81         -367.81         -367.81         -367.81         -367.81         -367.81         -367.81         -367.81         -367.81         -367.81         -367.81         -367.81         -367.81         -367.81         -367.81         -367.81         -367.81         -367.81         -367.81         -367.81         -367.81         -367.81         -367.81         -367.81         -367.81         -367.81         -367.81         -367.81         -367.81         -367.81         -367.81         -367.81         -367.81         -367.81         -367.81         -367.81         -367.81         -367.81         -367.81         -367.81         -367.81         -367.81         -367.81         -367.81         -367.81         -367.81         -367.81         -367.81         -367.81         -367.81 <td></td> <td>*</td> <td>~</td> <td>100</td> <td>1</td> <td>264.50</td> <td>313.43</td> <td>712.82</td> <td>ŧ</td> <td>300.00</td> <td>-268.06</td> <td>813.37</td> |        | *      | ~              | 100            | 1        | 264.50     | 313.43   | 712.82       | ŧ          | 300.00 | -268.06  | 813.37  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |        | ÷.     | 1              | ີ<br>ເດີ       |          | 366.72     | 367 81   | 706.96       | ï          | 387.33 | -313.56  | 807.51  |
| *       1       0.000       C-6       -162.810       689.339       -313.960       C-7       28.492       431.074       -367.81         *       3       1.300       C-6       313.960       C-7       28.492       431.074       -367.81         *       7       300       C-6       329.552       -305.333       -313.960       C-7       28.492       431.074       -367.81         *       7       300       C-6       329.552       -329.333       -313.960       C-7       356.751       -356.781       -367.81         *       6       329.551       -329.333       -313.960       C-7       356.751       -356.781       -367.81       -367.81       -367.81       -367.81       -367.81       -367.81       -367.81       -367.81       -367.81       -367.81       -367.81       -367.81       -367.81       -367.81       -367.81       -367.81       -367.81       -367.81       -367.81       -367.81       -367.81       -367.81       -367.81       -367.81       -367.81       -367.81       -367.81       -367.81       -367.81       -367.81       -367.81       -367.81       -367.81       -367.81       -367.81       -367.81       -367.81       -367.81       -367.81                                                                                                                                                                                                                                                                                                                    |        | с<br>Г | ¢              |                |          | 387 33     | 07.51    | 313.96       | • 1        | 366.72 | 706.96   | 367.81  |
| *       0.000       C- 6       133.61       213.960       C- 7       38.492       431.074       -367.81         *       7       20.600       C- 6       132.621       295.431       -313.960       C- 7       260.921       238.492       431.074       -367.81         *       7       20.000       C- 6       132.621       -995.431       -313.960       C- 7       260.921       238.492       431.074       -367.81         *       7       3.000       C- 6       132.621       -995.431       -313.960       C- 7       260.921       236.781       -367.81         *       7       3.000       C- 7       366.722       313.960       C- 7       367.413       -367.81         *       1000       C- 7       -366.722       313.960       C- 7       367.81       -367.81         *       0.000       C- 7       -366.722       313.960       C- 7       -367.81         *       0.000       C- 7       -366.722       313.960       C- 7       -367.81         *       0.000       C- 7       -366.732       313.960       C- 7       -367.81         *       0.000       C- 7       -366.732       313.960                                                                                                                                                                                                                                                                                                                                                                                          | •      | 3<br>1 | 3              | ຸຕ             |          | 162.81     | 89.33    | 313.96       | ı          | 170.15 | 603.50   | 367.81  |
| *       329.575       295.431       -313.960       C-7       260.021       258.644       -367.81         *       *       2.000       C-6       329.575       -295.431       -313.960       C-7       257.912       258.644       -367.81         *       7       3.300       C-6       3.329.575       -295.431       -313.960       C-7       257.912       258.644       -367.81         *       7       3.300       C-6       -387.338       -313.960       C-7       256.751       -367.81         *       8       0.000       C-7       -369.321       -313.960       C-7       266.751       -367.81         *       1       0.000       C-7       -369.325       -313.950       C-7       266.722       367.81       -367.81         *       0.000       C-7       -369.325       -313.950       C-7       -366.722       313.57       -367.81       -367.81       -367.81       -367.81       -367.81       -367.81       -367.81       -367.81       -367.81       -367.81       -367.81       -367.81       -367.81       -367.81       -367.81       -367.81       -367.81       -367.81       -367.81       -367.81       -367.81       -367.81 <td< td=""><td>. •. •</td><td>• *</td><td>- 0</td><td></td><td></td><td>132.62</td><td>92.38</td><td>313.96</td><td>i</td><td>88.49</td><td>431.07</td><td>367.81</td></td<>                                                                                                                                                                      | . •. • | • *    | - 0            |                |          | 132.62     | 92.38    | 313.96       | i          | 88.49  | 431.07   | 367.81  |
| * $2.050$ C-6 $440.362$ $0.000$ $-313.960$ C-7 $357.913$ $20.000$ $-567.81$ *       7 $3.300$ C-6 $132.621$ $-313.960$ C-7 $357.913$ $-257.81$ *       7 $3.300$ C-6 $-152.810$ $-689.339$ $-313.960$ C-7 $-367.81$ $-313.960$ C-7 $-367.81$ $-313.960$ C-7 $-367.81$ $-367.81$ $-313.960$ C-7 $-367.81$ $-367.81$ $-313.960$ C-7 $-367.81$ $-367.81$ $-367.81$ $-367.81$ $-367.81$ $-367.81$ $-367.81$ $-367.81$ $-367.81$ $-367.81$ $-367.81$ $-367.81$ $-367.81$ $-367.81$ $-367.81$ $-367.81$ $-367.81$ $-367.81$ $-367.81$ $-367.81$ $-367.81$ $-367.81$ $-367.81$ $-367.81$ $-367.81$ $-367.81$ $-367.81$ $-367.81$ $-367.81$ $-367.81$ $-367.81$ $-367.81$ $-367.81$ $-367.81$ $-367.81$ $-367.81$ $-367.81$ $-367.81$ $-367.81$ $-367.81$ $-367.81$ $-367.81$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |        | *      |                |                | í        | 29.57      | 95.43    | 313,96       |            | 60.92  | 258.64   | 367.81  |
| * $5$ $2.800$ $C-6$ $5.26.0231$ $-235.644$ $-357.81$ $*$ $7$ $3.800$ $C-6$ $5.8123$ $-337.338$ $-337.333$ $-560.321$ $-238.644$ $-567.81$ $*$ $7$ $3.800$ $C-6$ $-387.338$ $-313.960$ $C-7$ $286.422$ $-421.00$ $-56$ $-387.338$ $-313.960$ $C-7$ $-366.722$ $-451.307.431$ $-367.81$ $-367.81$ $-367.81$ $-367.81$ $-367.81$ $-367.81$ $-367.81$ $-367.81$ $-577.81$ $-366.722$ $-367.81$ $-367.81$ $-367.81$ $-367.81$ $-367.81$ $-367.81$ $-577.81$ $-567.81$ $-567.81$ $-577.81$ $-577.81$ $-567.81$ $-567.81$ $-567.81$ $-567.81$ $-567.81$ $-567.81$ $-567.81$ $-567.81$ $-567.81$ $-567.81$ $-567.81$ $-567.81$ $-567.81$ $-567.81$ $-567.81$ $-567.81$ $-567.81$ $-567.81$ $-567.81$ $-567.81$ $-567.81$ $-567.81$ $-567.81$ $-567.81$ $-567.81$ $-577.81$ $-772.5594$ $-742.128$ <                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |        | *      |                | 5.0            | 1        | 40.36      | 0.00     | 313,96       | 1          | 57.91  | 00.0     | 367.81  |
| *       5 $3.300$ C-       6 $132.621$ $-442.335$ $313.960$ C-       7 $354.51.744$ $-356.731$ *       7 $3.300$ C-       6 $-336.7331$ $-305.60$ $-7.7$ $-366.722$ $-313.960$ C-       7 $-366.722$ $-313.960$ C-       7 $-366.722$ $-313.960$ C-       7 $-366.722$ $-313.960$ C-       7 $-366.723$ $-365.731$ $-366.722$ $-313.960$ $-7.7$ $-366.723$ $-365.731$ $-366.723$ $-365.781$ $-366.723$ $-365.781$ $-366.723$ $-366.723$ $-366.723$ $-366.723$ $-366.723$ $-366.723$ $-366.723$ $-366.723$ $-366.723$ $-366.723$ $-366.723$ $-366.723$ $-366.723$ $-366.723$ $-366.723$ $-366.723$ $-366.723$ $-366.723$ $-366.723$ $-366.723$ $-366.723$ $-366.723$ $-366.723$ $-366.723$ $-366.723$ $-366.723$ $-366.723$ $-366.723$ $-366.723$ $-366.723$ $-366.723$ $-366.723$ $-366.723$ $-366.723$ $-366.723.724$ $-366.723.724$ <t< td=""><td></td><td>*</td><td>ιĢ</td><td>ω,</td><td>Γ.</td><td>29.57</td><td>295.43</td><td>313,96</td><td>1</td><td>60.52</td><td>-258.64</td><td>367.81</td></t<>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |        | *      | ιĢ             | ω,             | Γ.       | 29.57      | 295.43   | 313,96       | 1          | 60.52  | -258.64  | 367.81  |
| *       7       3.500       C-       685.333       -587.533       -503.504       -503.504       -503.504       -503.504       -503.504       -503.504       -503.504       -503.504       -503.504       -505.751       -505.751       -505.751       -505.751       -505.751       -505.751       -505.751       -505.751       -505.751       -505.751       -505.751       -505.751       -505.751       -505.751       -505.751       -505.751       -505.751       -505.751       -505.751       -505.751       -505.751       -505.751       -505.751       -505.751       -505.751       -505.751       -505.751       -505.751       -505.751       -505.751       -505.751       -505.751       -505.751       -505.751       -505.751       -505.751       -505.751       -505.751       -505.751       -505.751       -505.751       -505.751       -505.751       -505.751       -505.751       -505.751       -505.751       -505.751       -505.751       -505.751       -505.751       -505.751       -505.751       -505.751       -505.751       -505.751       -505.751       -505.751       -505.751       -505.751       -505.751       -505.751       -505.751       -505.751       -505.751       -505.751       -505.752       -505.751       -505.752       -505.752 <td< td=""><td></td><td>*</td><td>9</td><td>с<b>?</b></td><td>÷.</td><td>32.62</td><td>492.38</td><td>313.96</td><td>1</td><td>88.49</td><td>-431.07</td><td>367 81</td></td<>                                   |        | *      | 9              | с <b>?</b>     | ÷.       | 32.62      | 492.38   | 313.96       | 1          | 88.49  | -431.07  | 367 81  |
| - $4,100$ C- $6$ $-337.338$ $-807.512$ $-313.960$ $C-7$ $-365.722$ $-706.961$ $-537.338$ $-307.512$ $-705.722$ $-706.961$ $-537.338$ $-313.560$ $-807.512$ *       1       0.000       C-       7 $-365.722$ $367.819$ $-7722.5594$ C- $6$ $-337.338$ $313.560$ $-807.51$ *       3       1.800       C-       7 $-732.5594$ C- $6$ $-131.014$ $122.779$ $-732.5544$ C- $6$ $-131.9611$ $1085.657$ $-807.532.144$ *       5 $1.800$ C-       7 $-97.471.5364$ C- $6$ $-1185.661$ $105.707$ $-812.327.147$ *       5 $2.300$ C-       7 $-297.479$ $-772.164.561$ $105.702$ $-812.622.245.71$ *       5 $-77.722.5594$ C- $6$ $-1180.561$ $105.702$ $-812.224.722$ $-722.245.646.731$ $-722.245.648.73$ $-722.245.648.73$ $-772.225.245.7095$ $-772.252.456.708$ $-772.252.456.768$ $-772.252.456.768.747$ $-32$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | -      | *      | 1              | °.             | ÷.       | 162.81     | 689.33   | 313.96       |            | 170.15 | -603.50  | 367 83  |
| -       4       0.000       C-7       -336.722       357.819       -712.824       C-6       -337.338       313.560       -807.51         *       1       0.300       C-7       -131.014       122.779       -772.554       C-6       -337.338       313.560       -807.51         *       3       1.800       C-7       -131.014       122.779       -772.554       C-6       -337.338       313.560       -807.51         *       3       1.800       C-7       -45.191       122.779       -772.554       C-6       -337.338       313.560       -807.51         *       *       5       2.300       C-7       -264.247       -122.779       -772.5544       C-6       -185.661       105.707       -872.552         *       5       2.300       C-7       -230.550       -772.1354       C-6       -195.703       -872.653       -872.68       -872.68       -877.69       -877.69       -872.69       -772.222.455       -772.222.455       -771.222.456       -771.222.456       -772.222.455       -771.222.456       -777.93       -872.956       -872.956       -872.956       -872.956       -872.956       -872.956       -872.956       -872.956       -772.9256       -872.956                                                                                                                                                                                                                                                                                                                    | •      | 1      | 0              | 7              |          | 387.33     | 807.51   | 313.96       |            | 366.72 | -706.96  | 367.81  |
| *       1       0.300 $C^{-}$ 7       712.824 $C^{-}$ 6       58.067       -813.37         *       3       1300 $C^{-}$ 7       -131.014       219.913       -772.554 $C^{-}$ 6       -185.661       188.692       -823.145         *       3       1       1300 $C^{-}$ 7       -7       -131.014       219.913       -772.554 $C^{-}$ 6       -185.661       188.692       -823.145         *       5       2       -300 $C^{-}$ 7       -97.479       -87.265       -87.555       -191.1191       105.103       -842.651         *       7       -97.479       -77.183       -77.183       -77.955       -872.256       -872.255       -872.224       -872.256       -872.224       -872.224       -77.955       -872.265       -872.224       -872.224       -77.955       -872.224       -872.224       -872.224       -872.224       -872.224       -77.93.230       -77.955       -872.224       -872.224       -872.224       -872.224       -872.224       -872.224       -872.224       -872.224       -872.224       -77.955       -872.948       -872.224       -77.955       -872.948       -77.9                                                                                                                                                                                                                                                                                                                                                                                                | .*1    |        |                | 00000          |          | 366.72     | 67.81    | 706.90       | 1          | 387.33 | 313.56   | 807.51  |
| -7 $-732.364$ $-76$ $-135.661$ $188.692$ $-823.14$ $-45.191$ $122.779$ $-732.364$ $-76$ $-111.911$ $105.707$ $-823.533$ $-830$ $-77$ $-8.836$ $-742.135$ $-752.364$ $-6$ $-135.707$ $-823.533$ $-8.836$ $-742.135$ $-771.955$ $-742.135$ $-742.135$ $-742.135$ $-842.533$ $-99.113$ $-771.953$ $-771.955$ $-771.955$ $-771.955$ $-777.955$ $-8751.955$ $-8751.955$ $-771.732.364$ $-771.446$ $-7.7$ $-2266.813$ $-771.95$ $-8771.955$ $-771.732.325.948$ $-777.1446$ $-7.6$ $-356.470$ $-66$ $-167.1224$ $-771.835.759$ $-771.446$ $-778.285$ $-777.932.948$ $-877.932$ $-875.936$ $-777.932.948$ $-778.236$ $-771.957.22$ $-100.000$ $-66$ $-356.470$ $-3257.095$ $-712.22$ $-778.236$ $-77.223.948$ $-778.236$ $-712.22$ $-110.0000$ $-66$ $-177.223.948$ $-712.2256.600$ $-412$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |        | 2      | ۴ <del>ب</del> | 20             | - i      | 084 80     | 13 43    | 719.82       |            | 300.00 | 268.06   | 813 37  |
| * $3$ 1.300 $C-7$ $-8.836$ $-742.135$ $C-6$ $-111.911$ $105.707$ $-832.91$ * $5$ $2.300$ $C-7$ $-94.247$ $-742.135$ $C-6$ $-110.911$ $105.707$ $-832.948$ * $5$ $2.300$ $C-7$ $-94.247$ $-742.135$ $C-6$ $-105.129$ * $7$ $2.300$ $C-7$ $-94.247$ $-771.445$ $C-6$ $-151.832$ $-167.1394$ $-8672.235$ * $7$ $3.550$ $C-7$ $-230.2479$ $-2206.043$ $-7771.445$ $-2555$ $105.124$ $-8671.99$ * $7$ $3.550$ $C-7$ $-230.235.948$ $-7771.445$ $-2556.813$ $-7771.954$ $-872.232$ * $777.495$ $-3259.875$ $-412.224$ $-7778.286$ $-777.266.832$ $-357.095$ $-777.266.832$ * $1$ $0.000$ $C-6$ $-3353.948$ $-7778.286$ $-4122.22$ * $10.000$ $C-6$ $-3353.948$ $C-7$ $-3257.095$ $-872.236$ * $10.000$ $C-6$ $-3259.875$ $-3259.875$ $-777.286$ $-77$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |        | * *    |                | ဂိုလ           |          | 131.01     | 16 61    | 722.59       |            | 185.66 | 188.69   | 823.14  |
| * $4$ 1.800 $C$ 7       -8.836       22.036       -742.135 $C$ $6$ -80.555       19.113       -842.63         * $7$ -24.247       -87.183       -761.905 $C$ $6$ -93.389       -770.945       -842.63         *       7       -97.479       -266.043       -771.136 $6$ -93.389       -770.945       -872.453         *       7       3.300 $C$ 7       -256.698       -771.146 $C$ $6$ -163.124       -872.633         *       7       -255.875       -412.224       -771.446 $C$ $6$ -3358.470       878.837       -3359.470 $664.391.124$ -872.923         *       1       0.000 $C$ $6$ -3358.470       878.837       -3359.470 $778.286$ -412.222         *       1       0.300 $C$ $6$ -3358.470       878.837       -323.948 $C$ $778.286$ -412.222         *       1       0.300 $C$ $6$ -353.948 $C$ $7$ -186.323       -412.222       -872.239.48 $7$ -412.222                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | :.     | • • •  | 1 67           | о с.           | -        | 45.19      | 22 77    | 732.36       |            | 16.111 | 105.70   | 832.91  |
| *       5       2.300       C-7       -24.247       -87.183       -751.905       C-6       -93.389       -770.945       -852.455         *       7       -97.479       -206.043       -761.476       C-6       -151.832       -163.124       -872.455         *       7       33.300       C-7       -2359.875       -412.224       -771.446       C-6       -151.832       -163.124       -872.455         *       7       33.300       C-7       -359.875       -412.224       -771.446       C-6       -151.832       -163.124       -872.833         *       1       0.000       C-6       -356.043       -771.8.285       -771.446       C-6       -151.832       -163.124       -872.833         *       1       0.000       C-6       -356.613       -323.948       C-7       -3353.948       -572.23         *       1       0.300       C-7       -323.948       C-7       -1412.22       -412.22         *       1       0.300       C-6       -114.111       750.226       -323.948       C-7       -3778.286       -412.22       -412.22         *       2       0.300       C-6       -17       186.823       436.600                                                                                                                                                                                                                                                                                                                                                                            |        | *      | । ज्य          | • œ            | 1        | - 8.83     | 22.03    | 742.13       | ,          | 80.55  | 19.11    | 842:68  |
| *       7       -97.479       -206.043       -761.676       C <sup>2</sup> 6       -151.832       -163.124       -562.224         *       7       33.650       C <sup>-</sup> 7       -235.875       -326.698       -771.446       C <sup>-</sup> 6       -235.124       -571.995       -571.995       -571.995       -571.995       -571.995       -571.995       -571.995       -571.995       -571.995       -571.995       -571.995       -571.995       -571.995       -571.995       -571.995       -571.995       -571.995       -571.995       -571.995       -571.995       -571.995       -571.995       -571.995       -571.995       -571.995       -571.995       -571.995       -571.995       -571.995       -571.995       -571.995       -571.995       -571.995       -571.995       -571.923       -571.923       -571.923       -571.923       -571.923       -571.923       -571.923       -571.923       -571.222       -571.222       -571.222       -571.222       -571.222       -571.222       -571.222       -571.222       -571.222       -571.222       -571.222       -571.222       -571.222       -571.222       -571.222       -571.222       -571.222       -571.222       -571.222       -571.222       -571.222       -571.222       -571.222                                                                                                                                                                                                                             |        | *      | ഹ              | ŝ              | 1        | 24.24      | 87.18    | 751.90       | 1          | -93.38 | -70.94   | 852.45  |
| * 7       3.300       C- 7       -230.590       -326.698       -771.446       C- 6       -256.813       -257.098       -571.39         * 3       3.650       C- 7       -359.875       -412.224       -771.816       C- 6       -355.470       537.948       -873.948         * 1       0.000       C- 6       -355.470       878.837       -323.948       C- 7       -323.948       -873.83         * 1       0.300       C- 6       -355.470       878.837       -323.948       C- 7       -323.948       -873.83         * 1       0.300       C- 6       -323.948       C- 7       -323.948       C- 7       -142.22         * 3       1.500       C- 6       -323.948       C- 7       -323.948       -412.22         * 3       1.500       C- 6       -323.948       C- 7       -380.446       -412.22         * 4       2.050       C- 6       -323.948       C- 7       -380.446       -412.22         * 4       2.050       C- 6       -323.948       C- 7       -380.446       -412.22         * 5       2.050       C- 6       -323.948       C- 7       -380.446       -412.22         * 4       2.050       C- 6       <                                                                                                                                                                                                                                                                                                                                                                         |        | ¥      | Q              | ~              | ì        | 97.47      | 206.04   | 761.67       | 1          | 151.83 | -153.12  | 862.22  |
| -       33650       C-7       -359.875       -412.224       -778.285       C-6       -338.470       -323.948       -878.837         -       1       0.000       C-6       -358.470       878.837       -323.948       C-7       -359.875       778.286       -412.22         *       1       0.300       C-6       -114.111       750.226       -323.948       C-7       -1539.875       778.286       -412.22         *       2       0.900       C-6       477.496       -323.948       C-7       -1386.823       476.600       -412.22         *       3       1.500       C-6       477.496       -323.948       C-7       -143.474       664.391       -412.22         *       4       2.050       C-6       535.948       C-7       -143.474       566.00       -412.22         *       4       2.050       C-6       542.337       -323.948       C-7       7380.446       -208.808       -412.22         *       2       256.600       -323.948       C-7       7380.446       -208.808       -412.22         *       4       2.050       C-6       542.337       -323.948       C-7       7437.868       0.000       -                                                                                                                                                                                                                                                                                                                                                                               |        | *      | 2              | <u>с</u>       | 1        | 230.59     | 326.69   | 771.44       |            | 256.81 | -257.09  | 56.178  |
| -11       0.000       C-6       -358.470       878.837       -323.948       C-7       -559.875       778.286       -412.22         *       1       0.300       C-6       -114.111       750.226       -333.948       C-7       -559.875       778.286       -412.22         *       2       0.900       C-6       477.496       -323.948       C-7       -143.474       664.391       -412.22         *       3       1.500       C-6       477.496       -323.948       C-7       -380.446       208.808       -412.22         *       4       2.050       C-6       542.337       -323.948       C-7       380.446       208.808       -412.22         *       4       2.050       C-6       542.337       -323.948       C-7       380.446       208.808       -412.22         *       4       2.050       C-6       542.337       -323.948       C-7       380.446       -412.22         *       5       2.050       C-7       380.446       -208.808       -412.22         *       5       2.050       C-6       542.337       -323.948       C-7       7437.868       0.000       -412.22         * <t< td=""><td></td><td>-</td><td>ო</td><td>φ.</td><td>1</td><td>359.87</td><td>412.22</td><td>778.28</td><td>1</td><td>358.47</td><td>-323.94</td><td>818.83</td></t<>                                                                                                                                                                                                                              |        | -      | ო              | φ.             | 1        | 359.87     | 412.22   | 778.28       | 1          | 358.47 | -323.94  | 818.83  |
| 1       0.300       C-7       -143.474       664.391       -412.22         *       1       0.300       C-6       -114.11       750.226       -323.948       C-7       -143.474       664.391       -412.22         *       3       1.500       C-6       477.496       235.785       -323.948       C-7       -143.474       664.391       -412.22         *       4       2.050       C-6       477.496       235.785       -323.948       C-7       -380.446       208.808       -412.22         *       4       2.050       C-6       542.337       20.000       -323.948       C-7       380.446       208.808       -412.22         *       4       2.050       C-6       542.337       20.000       -323.948       C-7       380.446       208.808       -412.22         *       5       2.050       C-6       542.337       20.000       -412.22       23         *       5       2.050       C-7       7.380.446       208.808       -412.22         *       5       2.050       C-6       542.337       232.948       C-7       7.437.858       -412.22         *       5       2.050       C-6                                                                                                                                                                                                                                                                                                                                                                                                      |        | •      |                | 0              |          | 258 17     | 78 83    | 323-94       |            | 359.87 | 78.28    | 412.22  |
| 1       0.500       C       7       186.823       456.600       -412.22         2       0.900       C       6       258.859       493.006       -323.948       C       7       186.823       456.600       -412.22         3       1.500       C       6       477.496       235.785       -323.948       C       7       380.446       208.808       -412.22         4       2.050       C       6       477.496       235.785       -323.948       C       7       437.868       0.000       -412.22         5       2.050       C       6       477.496       -323.948       C       7       437.866       0.000       -412.22         5       2.050       C       6       535.785       -323.948       C       7       437.866       0.000       -412.22         5       3.200       C       6       235.948       C       7       186.823       -436.600       -412.22         7       3.200       C       6       -114.111       -750.226       -323.948       C       7       -135.474       -664.391       -412.22         7       3.100       C       6       -114.111       -750.                                                                                                                                                                                                                                                                                                                                                                                                                   |        | •      | -1 -           | $\frac{1}{2}$  |          | 11 212     | 50.00    | 323.94       | 1          | 143.47 | 64.39    | 412.22  |
| 2       0.500       C       7       380.446       208.808       -412.22         3       1.500       C       6       477.496       235.785       -323.948       C       7       437.868       0.000       -412.22         4       2.050       C       6       477.496       -323.948       C       7       437.868       0.000       -412.22         5       2.050       C       6       477.496       -323.948       C       7       437.868       0.000       -412.22         5       2.050       C       6       -17.496       -223.948       C       7       436.823       -412.22         5       2.060       C       6       223.948       C       7       380.446       208.808       -412.22         5       3.200       C       6       -114.111       -750.226       -323.948       C       7       -136.600       -412.22         7       3.800       C       6       -114.111       -750.226       -323.948       C       7       -136.403       -412.22         7       3.800       C       6       -114.111       -778.286       -412.22       -713.948       -7       -559.87                                                                                                                                                                                                                                                                                                                                                                                                                   |        | * 1    | -1 C           | 200            | . 1      | 114.414    | 93.00    | 323.94       | , i        | 186.82 | 36.60    | 412.22  |
| 4       2.050       C       6       542.337       0.000       -312.948       C       7       437.868       0.000       -412.22         5       2.600       C       6       477.496       -235.785       -323.948       C       7       380.446       -208.808       -412.22         5       2.600       C       6       277.496       -235.785       -323.948       C       7       380.446       208.808       -412.22         5       3.200       C       6       258.859       -493.006       -323.948       C       7       186.823       -436.600       -412.22         7       3.800       C       6       -114.111       -750.226       -323.948       C       7       -143.474       -664.391       -412.22         7       3.800       C       6       -114.111       -750.226       -323.948       C       7       -564.391       -412.22         7       3.800       C       6       -323.948       C       7       -564.391       -412.22         7       4.100       C       573.948       C       7       -559.875       -7778.286       -412.22                                                                                                                                                                                                                                                                                                                                                                                                                                                |        | * *    | 3 6            | > <<br>กบ<br>• | . 1      | 27.49      | 35.78    | 323.94       | ı.         | 380.44 | 08.80    | 412.22  |
| 2       2.000       C       6       477.496       -235.785       -323.948       C       7       380.446       -208.808       -412.22         5       2.600       C       6       477.496       -235.785       -323.948       C       7       380.446       -208.808       -412.22         5       3.200       C       6       258.859       -493.006       -323.948       C       7       186.823       -436.600       -412.22         7       3.200       C       6       -114.111       -750.226       -323.948       C       7       -143.474       -664.391       -412.22         7       3.800       C       6       -114.111       -750.226       -323.948       C       7       -143.474       -664.391       -412.22         7       3.100       C       6       -323.948       C       7       -359.875       -778.286       -412.22                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |        | • •    | <del>،</del> د | > u<br>> <     |          | 19.33      | 00.00    | 323.94       | <b>`</b> 1 | 37.86  | 0.00     | 412.22  |
| 6     3.200     C-     6     258.859     -493.006     -323.948     C-     7     186.823     -436.600     -412.22       7     3.800     C-     6     -114.111     -750.226     -323.948     C-     7     -143.474     -664.391     -412.22       4     4.100     C-     6     -323.948     C-     7     -143.474     -664.391     -412.22       4     4.100     C-     6     -323.948     C-     7     -135.474     -664.391     -412.22                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |        | f 3    | 5 U            | 2 C<br>2 C     | I        | 27.49      | 235.78   | 323.94       | ı          | 80.44  | 208.80   | 412.22  |
| 7 3.800 C- 6 -114.111 -750.226 -323.948 C- 7 -143.474 -664.391 -412.22<br>4 4.100 C- 6 -358.470 -878.837 -323.948 C- 7 -359.875 -778.286 -412.22                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |        | ÷ -3   | אנ             | 200            | 1        | 58.85      | 493.00   | 323.94       |            | 86.82  | 436.60   | 412.22  |
| 4 4 100 C 6 -358,470 -878,837 -323,948 C 7 -359,875 -778,286 -412,22                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |        | ÷ )    | - 1 C          | , a            | 1        | 114.11     | 750.22   | 323.94       |            | 143.47 | 664.39   | 412.22  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |        | F 1    | - 7            | 20             | 1        | 358.47     | 878.83   | 323.94       |            | 359.87 | 778.28   | 412.22  |



### No. ④ BOX CULVERT FOR DRAINAGE

- 1. calculation for bending moment (U.L.S)
  - 1) For upper slab

section b=100<sup>cm</sup> h = 60d = 53.5 d' = 6.5a) intersection point@=3Mu.min =  $-301.2^{KNm}$  $A_s = Y_{20} - 150^{ctc} = 3.142/0.15 = 20.95$  $Cm^2$  $X = \frac{0.87 \times 41000 \times 20.95}{0.40 \times 2500 \times 100} = 7.4$  cm  $Z = 53.5 - \frac{7.4}{2} = 49.8 \text{ cm} < 0.95 \times 53.5 = 50.8 \text{ cm}$  OK  $M_{Rs} = 0.87 \times 41000 \times 20.95 \times 49.8 \times 10^{-5} = 372.1^{KNm} > Mu = 301.2^{KNm}$  $M_{Rc} = 0.40 \times 2500 \times 100 \times 7.4 \times 49.8 \times 10^{-5} = 368.5^{KNm} > Mu = 301.2^{KNm}$ notice : the bar is decide from sheaing stress as following  $A_{s} = \begin{pmatrix} Y_{20} - 300^{ctc} \\ Y_{25} - 300^{ctc} \end{pmatrix} = 26.84 \text{ cm}^{2}$ b) middle point ②~③ Mu.max=332.5<sup>KNm</sup>  $A_s = Y_{20} - 150^{ctc} = 20.95 \text{ cm}^2$  $M_R \doteq 368.5^{KNm} > M_U = 332.5^{KNm}$ (Where … M<sub>R</sub> : From calculation of point②) 2) For bottom slab section  $b=100^{\circ m}$  h=70d = 63.5d' = 6.5Mu. min = - 290.8 кмm a) intersection point (4=1) $A_{s} = \left(\begin{array}{c} Y_{20} - 300^{\text{ctc}} = 3.142/0.30\\ Y_{16} - 300^{\text{ctc}} = 2.011/0.30 \end{array}\right) = 17.18 \text{ cm}^{2}$  $X = \frac{0.87 \times 41000 \times 17.18}{0.40 \times 2500 \times 100} = 6.4^{cm}$  $Z = 63.5 - \frac{6.4}{2} = 60.3^{cm} \div 0.95 \times 63.5 = 60.3^{cm}$  OK  $M_{RS} = 0.87 \times 41000 \times 17.18 \times 60.3 \times 10^{-5} = 369.5^{KNm} > Mu = 290.8^{KNm}$  $M_{Rc} = 0.40 \times 2500 \times 100 \times 6.2 \times 60.3 \times 10^{-5} = 385.9^{KNm} > Mu = 290.8^{KNm}$ Mu. max =  $417.4^{KNm}$ b) middle point  $(4) \sim (1)$  $A_s = Y_{20} - 150^{ctc} = 3.142/0.15 = 20.95$ Cm<sup>2</sup>  $X = \frac{0.87 \times 41000 \times 20.95}{0.40 \times 2500 \times 100} = 7.4$  cm

$$Z = 63.5 - \frac{7.4}{2} = 59.8$$
 cm  $< 0.95 \times 63.5 = 60.3$  cm OK

 $M_{Rs} = 0.87 \times 41000 \times 20.95 \times 59.8 \times 10^{-5} = 446.8^{KNm} > Mu = 417.4^{KNm}$  $M_{Rc} = 0.40 \times 2500 \times 100 \times 7.4 \times 59.8 \times 10^{-5} = 442.5^{KNm} > Mu = 417.4^{KNm}$ 

0K

### 2. calculation for shearing force (U.L.S)

a) For upper slab

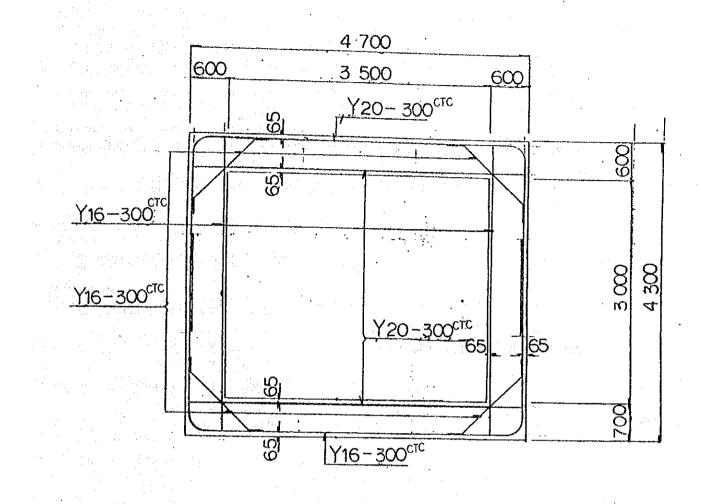
section  $b = 100^{cm}$  h = 60 d = 53.5 d' = 6.5intersection point @=@ Su.max = 226.2<sup>KN</sup>  $A_{s} = \left(\begin{array}{c} Y_{25} - 300^{ctc} = 4.909/0.30\\ Y_{20} - 300^{ctc} = 3.142/0.30\end{array}\right) = 26.84 \text{ cm}^{2}$  $P = \frac{26.84}{100 \times 53.5} \times 100 = 0.500 \%$  $V_{c} = \frac{226.2 \times 10^{3}}{100 \times 53.5} = 42.3 \text{ N/cm}^{2}$  $< V_{ca} = 50.0 \text{ N/cm}^{2}$ 

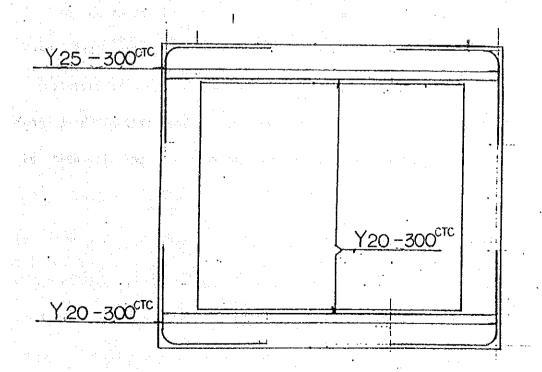
notice : the bar is decide for sheaing stress about point ②, ③

b) For botton slab

section b = 100<sup>cm</sup> h = 70 d=63.5 d'=6.5 intersection point  $\bigcirc = \textcircled{4}$  [ Su.max<sub>1</sub> = 386.8<sup>KN</sup> ... d<sup>cm</sup>, distance  $A_s = \left(\begin{array}{c} Y_{20} - 300^{\text{ctc}} \\ Y_{16} - 300^{\text{ctc}} \end{array}\right) = 17.18 \text{ cm}^2$   $P = \frac{17.18}{100 \times 63.5} \times 100 = 0.270 \%$   $Vc_1 = \frac{386.8 \times 10^3}{100 \times 63.5} = 60.9 \text{ N/cm}^2$   $Vc_2 = \frac{185.0 \times 10^3}{100 \times 63.5} = 29.2 \text{ N/cm}^2$   $\tau a_1 = \left\{35 + \frac{15}{0.25}(0.270 - 0.25)\right\} \frac{2d}{d} = 72.4 \text{ N/cm}^2$  $\tau a_2 = \left\{35 + \frac{15}{0.25}(0.270 - 0.25)\right\} \frac{2d}{2d} = 36.2 \text{ N/cm}^2$ 

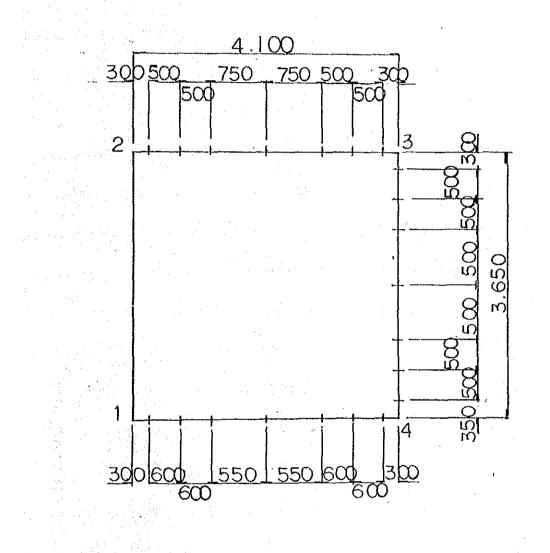
# NO ( BOX CULVERT FOR DRAINAGE





NO BOX FOR DRAINAGE Load (1)Dead load a) Vertical load Where  $\alpha = 1.20$  (earth pressure factor of vertical):  $\frac{D}{B_0} = \frac{8.0}{4.7} = 1.7 \stackrel{>}{<} \frac{2.0}{<} \frac{2.0}{<}$ For upper slab w1 =  $22.6 \times 0.50 + 17.5 \times 7.50 \times 1.2 + 23.60 \times 0.60$ = 182.960 kN/mFor side wall  $w^2 = 23.6 \times 0.60$ = 14.160 11  $2 \times 14.160 \times 3.65$ For bottom slab W3 = 182,960 += 208.1724.10 b)Horizontal load ---- earth pressure For side wall P1 =  $(22.6 \times 0.50 + 17.50 \times 7.80) \times 0.500$ = 73.900 kN/m  $P2 = (22.6 \times 0.50 + 17.50 \times 9.90) \times 0.500$ 11 · = 92.275  $P3 = (22.6 \times 0.50 + 17.50 \times 9.90 + 8.7 \times 1.55) \times 0.500$ 11 = 99.018 C)Horizontal load ---- water Pressure For side wall  $Pw = 9.80 \times 1.550$ = 15.190 kN/m (2)Live load live load surcharge of axle KN/axle unite width of despersal of wheel 10 30 X B= 0.300 + 8.00 + 0.600 = 8.900 mP = 3.50 х B 10 30  $= 9.631 \text{ KN/m}^{2}$ 3.50 х 8.90 or live load surcharge of vihicle kNzrihicle unit 30 40  $34.300 \text{ KN/m}^2 > 2P = 19.262 \text{ KN/m}^2$ **2**() = ÷ 3.50 10.0 OF curse the loaded of live load is consider as following case-1 Vaertical load For upper slab and bottom slab w1 = w3 = 34.300 KN/m case-2 Horizontal load ---- eath pressure For side wall pe =  $go \cdot ko = 34.300 \times 0.500 = 17.150 \text{ KN/m}$ 

## CALCULATION POINTS OF EACH FORCE



| n de la dela de la dela.<br>A dela                                                               | • •                                                                   | •                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |   |
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| TE: THE DIMENSION(t) BE EXCHANG TO<br>DIMENSION(KN)INTO THIS CALCULATION                         |                                                                       |                           | · .                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |   |
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| ang phénéhan séla trans<br>Ang phénéhan séla trans                                               | E < t/m2)<br>2.50E+07<br>2.50E+07<br>2.50E+07<br>2.50E+07<br>2.50E+07 |                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |   |
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|                                                                                                  | L (m)<br>3.650<br>4.1000<br>4.1000                                    | •<br>•                    | L - NC<br>L - NC<br>L - NC<br>1 6<br>1 6<br>2 - 3 5 5<br>2 - 3 5<br>2 - 3 5<br>2 - 3 5<br>2 - 3 5<br>2 - 7<br>2 |   |
|                                                                                                  | ××××<br>¬ Ŀ. Ŀ. Ŀ.                                                    | Rad)<br>eee               | L-No<br>2000<br>22.800<br>22.800<br>22.800<br>22.800<br>22.800<br>22.800<br>22.800<br>22.800<br>22.800<br>22.800<br>23.800<br>25.800<br>25.800<br>25.800<br>25.800<br>25.800<br>25.800<br>25.800<br>25.800<br>25.800<br>25.800<br>25.800<br>25.800<br>25.800<br>25.800<br>25.800<br>25.800<br>25.800<br>25.800<br>25.800<br>25.800<br>25.800<br>25.800<br>25.800<br>25.800<br>25.800<br>25.800<br>25.800<br>25.800<br>25.800<br>25.800<br>25.800<br>25.800<br>25.800<br>25.800<br>25.800<br>25.800<br>25.800<br>25.800<br>25.800<br>25.800<br>25.800<br>25.800<br>25.800<br>25.800<br>25.800<br>25.800<br>25.800<br>25.800<br>25.800<br>25.800<br>25.800<br>25.800<br>25.800<br>25.800<br>25.800<br>25.800<br>25.800<br>25.800<br>25.800<br>25.800<br>25.800<br>25.800<br>25.800<br>25.800<br>25.800<br>25.800<br>25.800<br>25.800<br>25.800<br>25.800<br>25.800<br>25.800<br>25.800<br>25.800<br>25.800<br>25.800<br>25.800<br>25.800<br>25.800<br>25.800<br>25.800<br>25.800<br>25.800<br>25.800<br>25.800<br>25.800<br>25.800<br>25.800<br>25.800<br>25.800<br>25.800<br>25.800<br>25.800<br>25.800<br>25.800<br>25.800<br>25.800<br>25.800<br>25.800<br>25.800<br>25.8000<br>25.8000<br>25.8000<br>25.8000<br>25.8000<br>25.8000<br>25.8000<br>25.8000<br>25.8000<br>25.8000<br>25.8000<br>25.80000<br>25.8000000000000000000000000000000000000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |   |
|                                                                                                  |                                                                       | M(tm/Rad)<br>Free<br>Free |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |   |
|                                                                                                  | ( H 4 )<br>8000<br>88000<br>88580                                     |                           | 0808 L<br>0808 L                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |   |
| 8                                                                                                | I (m4)<br>0.018000<br>0.018000<br>0.018000<br>0.018000<br>0.028580    | (t/m)<br>Fix<br>Fix       | L-N0<br>1300<br>1.300<br>1.500                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |   |
| Depth= 8,000<br>Y (m)<br>3.6500<br>0.0000<br>0.0000                                              |                                                                       | >                         | L N N N N N N N N N N N N N N N N N N N                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |   |
|                                                                                                  | A (m2)<br>0.60000<br>0.60000<br>0.60000<br>0.70000                    | (t/m)<br>Ficx<br>Free     | 0000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | : |
| NO 4<br>X (m)<br>0.0000<br>4.1000<br>4.1000                                                      | <b>ょ こうせ</b> ま                                                        |                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |   |
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| Q<br>Q<br>V<br>V<br>V<br>V<br>V<br>V<br>V<br>V<br>V<br>V<br>V<br>V<br>V<br>V<br>V<br>V<br>V<br>V | 2 - 2 C 4                                                             | N<br>N<br>N               | DRAI<br>No<br>4332<br>1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |   |
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| n de la travella de la companya de l<br>La companya de la comp<br>La companya de la comp                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                |           |                                        |            |               |                               |        |
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| Pj (t/m)<br>-14.160<br>-14.160<br>-182.960<br>208.172                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | ·              | Pj (t/m)  | 92.275<br>73.900<br>-92.275<br>-92.018 | : · · .    |               | Pj (t/m)<br>15.190<br>-15.190 |        |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                | Ê         | 8100<br>4025                           | · .        |               |                               |        |
| Pi (t/m<br>-14.16<br>-114.166<br>-182.9166<br>208.176                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                | Pi (t/m)  | 99.01<br>92.27<br>-73.90               |            |               | Pi (t/m)<br>15.190<br>-13.190 |        |
| ~ 0000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                | ~         | 0000                                   | •          |               | 800 ×                         |        |
| Lo<br>2000<br>4.1000<br>4.1000<br>1000<br>1000<br>1000<br>1000<br>10                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | ď              | Lo (m)    | 2.102<br>2.102<br>2.102                |            | ę             | Lo (m)<br>1.550<br>1.550      |        |
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| - 0000 00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | pressure       | , ri      | 0404<br>7040                           | 0.000      | pressure      | Li (20.0                      | 0.000  |
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| ж с<br>н н<br>р<br>и<br>л<br>и<br>и<br>и<br>и<br>и<br>и<br>и<br>и<br>и<br>и<br>и<br>и<br>и<br>и<br>и<br>и<br>и                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | : Earth<br>: 2 |           |                                        | н н<br>> Ж |               | •                             | "<br>> |
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| A<br>HB live load-VL-<br>No. : 4<br>Li (m) Lo (m) Pi (t/m) Pj (t/m)<br>Pj (t/m) Pj (t/m)<br>Pj (t/m) Pj (t/m) Pj (t/m)<br>Pj (t/m) Pj (t/m) Pj (t/m)<br>Li (m) Lo (m) Pj (t/m) Pj (t/m)<br>Li (m) Lo (m) Pj (t/m) Pj (t/m)<br>ZH = 0.000 (1)<br>Pj (t/m) Pj (t/m) Pj (t/m)<br>Pj (t/m) (17.150 -17.150 -17.150 -17.150 -17.150 -17.150 -17.150 -17.150 -17.150 -17.150 -17.150 -17.150 -17.150 -17.150 -17.150 -17.150 -17.150 -17.150 -17.150 -17.150 -17.150 -17.150 -17.150 -17.150 -17.150 -17.150 -17.150 -17.150 -17.150 -17.150 -17.150 -17.150 -17.150 -17.150 -17.150 -17.150 -17.150 -17.150 -17.150 -17.150 -17.150 -17.150 -17.150 -17.150 -17.150 -17.150 -17.150 -17.150 -17.150 -17.150 -17.150 -17.150 -17.150 -17.150 -17.150 -17.150 -17.150 -17.150 -17.150 -17.150 -17.150 -17.150 -17.150 -17.150 -17.150 -17.150 -17.150 -17.150 -17.150 -17.150 -17.150 -17.150 -17.150 -17.150 -17.150 -17.150 -17.150 -17.150 -17.150 -17.150 -17.150 -17.150 -17.150 -17.150 -17.150 -17.150 -17.150 -17.150 -17.150 -17.150 -17.150 -17.150 -17.150 -17.150 -17.150 -17.150 -17.150 -17.150 -17.150 -17.150 -17.150 -17.150 -17.150 -17.150 -17.150 -17.150 -17.150 -17.150 -17.150 -17.150 -17.150 -17.150 -17.150 -17.150 -17.150 -17.150 -17.150 -17.150 -17.150 -17.150 -17.150 -17.150 -17.150 -17.150 -17.150 -17.150 -17.150 -17.150 -17.150 -17.150 -17.150 -17.150 -17.150 -17.150 -17.150 -17.150 -17.170 -17.150 -17.170 -17.150 -17.170 -17.150 -17.170 -17.150 -17.170 -17.150 -17.170 -17.150 -17.170 -17.150 -17.170 -17.170 -17.170 -17.150 -17.170 -17.170 -17.170 -17.170 -17.170 -17.170 -17.170 -17.170 -17.170 -17.170 -17.170 -17.170 -17.170 -17.170 -17.170 -17.170 -17.170 -17.170 -17.170 -17.170 -17.170 -17.170 -17.170 -17.170 -17.170 -17.170 -17.170 -17.170 -17.170 -17.170 -17.170 -17.170 -17.170 -17.170 -17.170 -17.170 -17.170 -17.170 -17.170 -17.170 -17.170 -17.170 -17.170 -17.170 -17.170 -17.170 -17.170 -17.170 -17.170 -17.170 -17.170 -17.170 -17.170 -17.170 -17.170 -17.170 -17.170 -17.170 -17.170 -17.170 -17.170 -17.170 -17.170 -17.170 -17.170 -17.170 -17.170 -17.170 -17.170 -17.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |             |                               |                        |               |             | •                                  |                        |   |
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| 4<br>4<br>4<br>No. : HB live load-VL-<br>No. : HB live load-VL-<br>$\frac{-Y}{-Y}$ 0.000 (t)<br>$\frac{-Y}{-Y}$ 0.000 (t)<br>$\frac{1}{-Y}$ 0.000 (t)<br>$\frac{1}{-Y}$ 0.000 (t)<br>$\frac{1}{-X}$ 0.000 (t)<br>$\frac{1}{-X}$ 0.000 (t)<br>$\frac{1}{-X}$ 0.000 3.650<br>$\frac{1}{-X}$ 0.000 (t)<br>$\frac{1}{-X}$ 0.000 (t)<br>$\frac{1}{-X}$ 0.000 (t)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |             | Pj (t/a<br>-34.30<br>34.30    |                        |               |             | Pj <t m<br="">17.15<br/>-17.13</t> |                        |   |
| $ \begin{array}{c} A \\ No. \\ \vdots \\ B \\ HB \\ Vo. \\ \vdots \\ B \\ HB \\ Vo. \\ 0.000 \\ V \\ H \\ H \\ Vo. \\ S \\ H \\ H \\ V \\ V$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |             | Pi (t/m)<br>-34.300<br>34.300 |                        |               |             | Pi (t/m)<br>17.150<br>-17.150      |                        |   |
| $ \begin{array}{c} A \\ \vdots \\ No. \\ \vdots \\ B \\ O.000 \\ (1) \\ 0.000 \\ (1) \\ 0.000 \\ (1) \\ 0.000 \\ (1) \\ 0.000 \\ (1) \\ 0.000 \\ (1) \\ 0.000 \\ (1) \\ 0.000 \\ (1) \\ 0.000 \\ (1) \\ 0.000 \\ (1) \\ 0.000 \\ (1) \\ 0.000 \\ (1) \\ 0.000 \\ (1) \\ 0.000 \\ (1) \\ 0.000 \\ (1) \\ 0.000 \\ (1) \\ 0.000 \\ (1) \\ 0.000 \\ (1) \\ 0.000 \\ (1) \\ 0.000 \\ (1) \\ 0.000 \\ (1) \\ 0.000 \\ (1) \\ 0.000 \\ (1) \\ 0.000 \\ (1) \\ 0.000 \\ (1) \\ 0.000 \\ (1) \\ 0.000 \\ (1) \\ 0.000 \\ (1) \\ 0.000 \\ (1) \\ 0.000 \\ (1) \\ 0.000 \\ (1) \\ 0.000 \\ (1) \\ 0.000 \\ (1) \\ 0.000 \\ (1) \\ 0.000 \\ (1) \\ 0.000 \\ (1) \\ 0.000 \\ (1) \\ 0.000 \\ (1) \\ 0.000 \\ (1) \\ 0.000 \\ (1) \\ 0.000 \\ (1) \\ 0.000 \\ (1) \\ 0.000 \\ (1) \\ 0.000 \\ (1) \\ 0.000 \\ (1) \\ 0.000 \\ (1) \\ 0.000 \\ (1) \\ 0.000 \\ (1) \\ 0.000 \\ (1) \\ 0.000 \\ (1) \\ 0.000 \\ (1) \\ 0.000 \\ (1) \\ 0.000 \\ (1) \\ 0.000 \\ (1) \\ 0.000 \\ (1) \\ 0.000 \\ (1) \\ 0.000 \\ (1) \\ 0.000 \\ (1) \\ 0.000 \\ (1) \\ 0.000 \\ (1) \\ 0.000 \\ (1) \\ 0.000 \\ (1) \\ 0.000 \\ (1) \\ 0.000 \\ (1) \\ 0.000 \\ (1) \\ 0.000 \\ (1) \\ 0.000 \\ (1) \\ 0.000 \\ (1) \\ 0.000 \\ (1) \\ 0.000 \\ (1) \\ 0.000 \\ (1) \\ 0.000 \\ (1) \\ 0.000 \\ (1) \\ 0.000 \\ (1) \\ 0.000 \\ (1) \\ 0.000 \\ (1) \\ 0.000 \\ (1) \\ 0.000 \\ (1) \\ 0.000 \\ (1) \\ 0.000 \\ (1) \\ 0.000 \\ (1) \\ 0.000 \\ (1) \\ 0.000 \\ (1) \\ 0.000 \\ (1) \\ 0.000 \\ (1) \\ 0.000 \\ (1) \\ 0.000 \\ (1) \\ 0.000 \\ (1) \\ 0.000 \\ (1) \\ 0.000 \\ (1) \\ 0.000 \\ (1) \\ 0.000 \\ (1) \\ 0.000 \\ (1) \\ 0.000 \\ (1) \\ 0.000 \\ (1) \\ 0.000 \\ (1) \\ 0.000 \\ (1) \\ 0.000 \\ (1) \\ 0.000 \\ (1) \\ 0.000 \\ (1) \\ 0.000 \\ (1) \\ 0.000 \\ (1) \\ 0.000 \\ (1) \\ 0.000 \\ (1) \\ 0.000 \\ (1) \\ 0.000 \\ (1) \\ 0.000 \\ (1) \\ 0.000 \\ (1) \\ 0.000 \\ (1) \\ 0.000 \\ (1) \\ 0.000 \\ (1) \\ 0.000 \\ (1) \\ 0.000 \\ (1) \\ 0.000 \\ (1) \\ 0.000 \\ (1) \\ 0.000 \\ (1) \\ 0.000 \\ (1) \\ 0.000 \\ (1) \\ 0.000 \\ (1) \\ 0.000 \\ (1) \\ 0.000 \\ (1) \\ 0.000 \\ (1) \\ 0.000 \\ (1) \\ 0.000 \\ (1) \\ 0.000 \\ (1) \\ 0.000 \\ (1) \\ 0.000 \\ (1) \\ 0.000 \\ (1) \\ 0.000 \\ (1) \\ 0.000 \\ (1) \\ 0.000 \\ (1) \\ 0.000 \\ (1) \\ 0.000 \\ (1) \\ 0.000 \\ (1) \\ 0.000 \\ (1) \\ 0.000 \\ (1) \\ 0.000 \\ (1) \\ 0.000 \\ (1) \\ $                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |             |                               |                        |               |             | Lo (m)<br>3.650<br>3.650           |                        |   |
| 本<br>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |             | Li (m)<br>0.000<br>0.000      | 0.000 (t)<br>0.000 (t) | ·             | load-HL-    | Li (m)<br>0.000<br>0.000           | 0.000 (t)<br>0.000 (t) | • |
| य <b>अ</b> य                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |             | > ><br>1 1                    | Н 11-                  |               | е<br>н<br>  | X X<br>1                           | > II                   |   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 4           |                               |                        |               | 2<br>2<br>2 | · • •                              | •                      |   |
| BOX FOR DRAINAGE-NO<br>No i -j<br>3 -j<br>3 -j                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | B DRAINAGE- |                               |                        | FOR DRAINAGE- | · · ·       |                                    | · ·                    |   |

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|--------------------------------------------------------------------------------------------------|--------|---|---------------------|-----------------------------------|-----------------------------------|-----------------------------------|
|                                                                                                  | ;      |   |                     | ( t m)<br>0.000<br>0.000          | t (tm)<br>0.000<br>0.000          |                                   |
|                                                                                                  |        |   |                     | RM (tm)<br>0.000<br>0.000         | RM (tm)<br>0.000                  |                                   |
|                                                                                                  |        |   |                     | (t)<br>000<br>000                 | (t)<br>00]                        |                                   |
|                                                                                                  |        |   |                     | 3<br>RY (t)<br>0.000<br>0.000     | 6<br>RY (t)<br>-0.001<br>-0.001   |                                   |
|                                                                                                  |        |   |                     | Case.<br>()<br>00<br>00           | o<br>0<br>0                       |                                   |
|                                                                                                  |        |   |                     | Cas<br>RX (f)<br>0.000<br>0.000   | Case.<br>RX (t)<br>0.000<br>0.000 | -<br>-<br>-                       |
|                                                                                                  |        |   |                     | ·                                 |                                   |                                   |
|                                                                                                  |        |   |                     | RM (tm)<br>0.000<br>0.000         | RM (tm)<br>0.000<br>0.000         |                                   |
|                                                                                                  |        |   |                     | 800                               | RX<br>00                          |                                   |
|                                                                                                  |        |   |                     | (Y (t)<br>0.000<br>0.000          | 17 (t)<br>0.000<br>0.000          |                                   |
|                                                                                                  |        |   |                     | 2<br>RY<br>00.                    | S<br>S                            | ·                                 |
|                                                                                                  |        |   |                     | Case.<br>RX (t)<br>0.000<br>0.000 | Case.<br>RX (t)<br>0.000<br>0.000 |                                   |
| · 1997年1月1日(1997年)<br>- 1997年(1997年)<br>- 1997年(1997年)                                           |        | - |                     | RX 00                             | х оо<br>ж                         |                                   |
|                                                                                                  |        |   |                     | ~ 00                              | ~ 00                              | ~ 00                              |
|                                                                                                  |        |   |                     | RM (fm)<br>0.000<br>0.000         | RM (tm)<br>0.000<br>0.000         | RM (tm)<br>0.000<br>0.000         |
|                                                                                                  |        |   | .*                  |                                   |                                   |                                   |
| 00000000000000000000000000000000000000                                                           |        |   |                     | RY (t)<br>-0.001<br>-0.001        | RY (t)<br>0.000<br>0.000          | RY (t)<br>-0.001<br>-0.001        |
|                                                                                                  |        |   |                     | -                                 | ঁম                                | r.                                |
| 00000000000000000000000000000000000000                                                           | 2      |   | <b></b> #           | Case.<br>RX (t)<br>0.000<br>0.000 | Case.<br>RX (t)<br>0.000<br>0.000 | Case.<br>RX (t)<br>0.000<br>0.000 |
| × ×× 00000<br>0 00<br>4 9 400 40 4                                                               |        |   | E-NO 4              |                                   | Оц                                | Ощ<br>· · · ·                     |
| NAGE-NO<br>NO<br>NO<br>NO<br>NO<br>NO<br>NO<br>NO                                                | 0<br>N |   | BOX FOR DRAINAGE-NO | 0 14<br>                          | 4 F Q                             | No.<br>1.                         |
| R DRAI                                                                                           |        |   | FOR DI              | ,<br>N<br>4 1 0                   | N<br>0 44                         | ž                                 |
| BOX FOR DRAINAGE-NO<br>NO<br>NO<br>NO<br>NO<br>NO<br>NO<br>NO<br>NO<br>NO<br>NO<br>NO<br>NO<br>N | •••    |   | BOX                 |                                   |                                   |                                   |
|                                                                                                  |        |   |                     |                                   |                                   |                                   |
|                                                                                                  |        |   |                     |                                   |                                   |                                   |

|                     |                              | •                                                            | . :                   | ta an              |                     |                                             |
|---------------------|------------------------------|--------------------------------------------------------------|-----------------------|--------------------------------------------------------|---------------------|---------------------------------------------|
|                     | ROTA. (mmRad)                | -0.1356<br>0.1024<br>-0.1024<br>-0.1024                      | ROTA.(mmRad)          | - 5.2169<br>- 5.5220<br>- 5.5220<br>- 5.220<br>- 5.220 |                     |                                             |
|                     | 3<br>Y-D15.(mm)              | 000000                                                       | 6<br>Y-DIS. <mm></mm> | 0.00000<br>11.59093<br>11.59093<br>0.00000             | · · ·               |                                             |
|                     | Case.<br>X-DIS.(mm)          | 0.00000<br>-0.01671<br>-0.02842<br>-0.04513                  | Case.<br>X-DIS.(mm)   | 0.00000<br>0.02749<br>-0.67390<br>-0.64641             |                     |                                             |
|                     | ROTA. (mmRad)                | -1.78117<br>1.96091<br>1.96091<br>-1.96091                   | ROTA.(mmRad)          | -0.33948<br>0.38356<br>-0.38356<br>-0.38356<br>0.33948 |                     |                                             |
|                     | 2<br>Y-DIS.(mm)              | 0.0000000000000000000000000000000000000                      | 5<br>Y-DIS.(mm)       | 0.00000<br>0.00000<br>0.00000<br>0.00000               |                     |                                             |
|                     | Case.<br>X-DIS.(mm)          | 0.00000<br>0.00000<br>1.0.40702<br>1.0.40702                 | Case.<br>X-DIS.(mm)   | 0.00000<br>0.00374<br>-0.07926<br>10.07552             |                     |                                             |
|                     | ROTA.(mmRad)                 | - 22<br>- 22<br>- 22<br>- 22<br>- 22<br>- 22<br>- 22<br>- 22 | ROTA. (mmRad)         | 0.85401<br>-0.97136<br>0.97135<br>-0.85401             | ROTA.(mmRad)        | 3.20520<br>-3.33099<br>-3.33099<br>-3.20520 |
|                     | 1<br>Y-DIS.(mm) <sup>5</sup> | 0.00000                                                      | 4<br>Y-DIS.(mm) I     | 0.00000<br>-0.17110<br>-0.17110<br>0.00000             | 7<br>Y-DIS.(mm) 1   | 0.00000<br>-1.34626<br>-1.34626<br>0.00000  |
| GE-NO               | Case.<br>X-DIS.(mm)          | 0.00000<br>0.01573<br>0.0121<br>0.01452                      | Case.<br>X-DIS.(mm)   | 0.00587<br>0.00587<br>1.0.00587<br>0.00587             | Case.<br>X-DIS.(mm) | 0.00000<br>-0.00231<br>-0.85092<br>-0.85323 |
| L DKALNA            | No.                          | H 0 0 4                                                      | No.                   |                                                        | .No.                |                                             |
| BOX FOR DRAINAGE-NO |                              |                                                              |                       |                                                        | . •                 | ÷.,                                         |

| BOX F       |                        | den ek<br>1995 - Ale<br>1995 - Ale<br>1995 - Ale | . :<br>                                |                          |                |             |                     |           |        |                   | ÷       |             | •••    | ·                | • ;          |             |                | • •      |        |         |                   |                     |        |          |                |                  |
|-------------|------------------------|--------------------------------------------------|----------------------------------------|--------------------------|----------------|-------------|---------------------|-----------|--------|-------------------|---------|-------------|--------|------------------|--------------|-------------|----------------|----------|--------|---------|-------------------|---------------------|--------|----------|----------------|------------------|
| OR DRAI     | No.                    |                                                  | ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~ |                          | * *            |             | 00 −1<br>1 *<br>01  |           |        |                   |         |             |        |                  |              |             |                | ~ *      |        | . 4     |                   |                     |        |          | ı د<br>* *     |                  |
| DRAINAGE-NO | L (B)                  | 00                                               | 850<br>350                             | . 350                    | . 850          | . 65        | 0.000               | 8         | 0°,    | 200               | 000     | 201         | 00     | Ö<br>n a         | ຂີ.          | . 80        | 0.0<br>        | 3.300    | 6.5    | 00.     | 000<br>000<br>000 | 202                 | 36.    | . 60     | 3.200          | 200              |
| 4           | 1 Dea<br>M (tm)        | 116.                                             |                                        | -127-93                  | -134.13        | 139.09      | -139.090<br>-34.802 | 02.41     | 00.00  | 40. 40<br>93 . 89 | 02 41   | 39.09       | 139.09 | 137.23           | 131.03       | 127.93      | 124.83         | -118.641 | 116.47 | -116.47 | 2.18              | 289.46              | 320.94 | 289.46   | <b>r</b> -4    | 01.7<br>1.7      |
|             | d load<br>S (t)        | <br>00<br>11                                     | 61.91<br>1                             | 6 - · 9 - ·              | -6.19<br>-9    | -6.19       | 375                 | 228.70    | 137.22 | -137.22           | -228.70 | -375.06     | 61.9   | 0.19<br>0.19     | 6.19<br>6.19 | 6.19        | 0,19<br>0,19   | 6.196    | 6.19   | 426.75  | 364.30            | 114.49              | 00.00  | -114.49  | 1239           | 1004.00          |
| :           | N (t)                  | 426.75                                           | -414.716<br>-407.636                   | 400.55                   | 386.39         | 375.06      | -6.196              | 6.19      | 6.19   | 6.19<br>6.19      | 6.19    | 6.19        | 375.06 | 379.31<br>386 39 | 93.47        | 400.55      | 407.63         | 421      | 26.75  | 61.     | 5<br>             | רט ה<br>דידי<br>ייי | 6-     | 61.      | 6.196<br>6.106 | n (3<br>1 -<br>1 |
|             | Case 2 Earth<br>M (tm) | 2.08                                             | 50.837<br>84.918                       | 5.73<br>4.13             | 1.22           | 3.04        | -43.044<br>-43.044  | 43.04     | 43.04  | 50                | 43.04   | 43.04       | 3.04   | 1.90             | 4.13         | 5.73        | 4 0<br>8 0     | -7.073   | 2.08   | 62.08   | 62.08<br>62.08    | 62.08               | 62.08  | 62.08    | -62.080        | 62.08<br>62.08   |
|             | pressure lo<br>S (t)   | 4.40                                             | 91.809<br>44.693                       | 1.13<br>4.86             | 86.41<br>25.76 | 148.33      | 0.000               | 8         | 88     | 30                | 800     | 200         | 8.33   | 25.76<br>86.43   | 4.86         | 1.13        | 44.69<br>01 80 | -140.013 | 74.40  | •       | 30                | 88                  | 00     | 8        |                | 20               |
|             | ad<br>N ( f )          | 80.                                              | 0000.0                                 | 88                       | 000            | 80.         | -148.333            | 148.33    | 148.33 | 148.33            | 148.33  | 148.33      | · 0    | 50               | 88           | 8           | 000            | 0.000    | 8      | 174.40  | 174.40            | 174.40              | 174.40 | 174.40   | -174.403       |                  |
|             | Case 3 Wate<br>M (tm)  | 96.                                              | 6.021                                  | 9<br>9<br>9              | 1.17           | त्तु<br>द्य | -2.249              | 2.24      | 20.04  | 1 4<br>4 4        | 2.24    | 2.24        | 2.24   | 9 F              | Ē            | .46         | 62.6           | 0.947    | . 86   | 4       | 4.85              | 4.86                | 4.86   | 4.86     | 9 8 8<br>9 8   | 4.26             |
|             | r pressure ro<br>S (t) | 3.94                                             | 6.351                                  | 4 4<br>0 0<br>8 0<br>8 0 | 4.28           |             | 0.000               | 8         | 8.0    | 38                | 80      | 38          | .28    | ο α<br>•         | 101          | 8<br>2<br>9 |                | -13.946  | 19.26  | 000     |                   | 88                  | 8      | 00.      | 000 0          | 20               |
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| · · ·           |                 |               | Cas       | Ē                                       | 5<br>5<br>5                     |                  | 1     | ī        | ì            | 1.1                        |        | ч.       | Ŀ.         | i l         | 1          |                       | 1          | ł             | i   | 1      |                           | 1                     |            |             | i.         | i i                                                                                              | 1        | 1      | 1       | 1          | ::<br> :     |              |               | 1           |
|                 |                 |               | ,<br>,    | 0                                       | ×. ·                            |                  | 0     | Ÿ        | <u> </u>     | 50                         |        | 0        | 0          | 0           | J i        | υç                    | 0          | 0             | 0   | 0      | 00                        | ) Ç                   | 0          | 0           | 00         | οÖ                                                                                               | 0        | 0      | 0       | Q.         | р с          | ) C          | ပ             | o           |
| 4. A.A.A.       |                 | e je          |           |                                         | н (т.<br>11)                    |                  | ÷     |          |              |                            |        |          |            |             |            |                       |            |               |     |        |                           |                       |            |             |            |                                                                                                  |          |        |         | :          |              |              | •             |             |
|                 |                 |               | ţ,        | 89                                      | 800                             | 0<br>0<br>0<br>0 | 1-9   | 97       | 00           | 007<br>770                 |        |          |            |             |            |                       |            |               |     | 44     | 0 C                       | 2 F                   |            |             | 8          | 2 00<br>- 00                                                                                     |          | 90     | 90      | io i       | 2            | e s          | 000           | 9           |
|                 | :               |               | ÷.        | 4                                       | ုိ                              | ې<br>ب           | Ŀ     | ្លឹ      | : "<br>(*) - | 4,10                       |        |          | မ္         | φ           | 0 4<br>•   | e e                   | 0          | 9             | 4   | ц<br>Ч | 4.0                       | <b>ι</b> σ            | 5          | ŝ           | ះ          | ⊃ v                                                                                              | , o      | 6      | Ő,      | 0          | ີ່ ຕ         | D G          | ۰°.           | ō,          |
|                 |                 |               | ×         | 63                                      | 582                             | - 9<br>2<br>9    | 10    | 10<br>10 | ຕິເ          | 2 5                        |        | 5        | ດ<br>(2)   |             | о и<br>N с | 256                   | 0<br>  0   | 30            | 31  | 5      | ស<br>ភូមិ<br>ភូមិ<br>ភូមិ | 2 M<br>2 M            | ំហេ<br>ហ   | 99          | 5          | 589<br>282                                                                                       | 27       | 23     | 27      | 27         | 1 C<br>C 7 C | 10           | 210           | 27          |
|                 | . · ·           | 5             | ÷.,       | 1                                       |                                 |                  | 1     | '        | ۲.           | 1                          |        | '        | 1          | 4<br>       | 1 I        | 1 1                   | 1          |               | I   | ļ      | 11                        | 1                     | t,         | 1           | <b>.</b>   | 1 1                                                                                              | 1        | 1      | i i i   | 1          |              | . 1          | 1             | 1           |
|                 |                 | N D           | ·<br>     | 114                                     |                                 |                  |       |          |              |                            |        |          |            | •           |            |                       |            |               |     |        |                           |                       |            |             | ``         |                                                                                                  |          |        |         | _          |              |              |               |             |
|                 |                 | Σ             | (£)       | 0                                       | 762                             | r ci             | ŝ     | 9        | ا ب          | ψ                          |        | G        | αo,        | nne i       | n c        | 200                   | i 🛏        | ø             | o,  | Q.     | 4 4                       | o co                  | ) IQ       | 2           | 77 (       | 206                                                                                              | 69       | 123    | 75      | 7.9        |              | 2 1 4        | 571           | 169         |
|                 |                 | ×             | ÷ .       | ເກ                                      | e                               | 1 00             | 9     | ~        | <br>10       | 70                         |        | 1.       | 2          | ы<br>С      | م د        |                       | . 9        | 2             |     | 6      | ч.<br>ч.                  |                       | ι.<br>1 ω  | 0           |            | ະ ເດ                                                                                             | с.<br>Сл | 8      | θ.      | -          | ÷.           |              | ;             | 5           |
|                 | · .             | A             | S         |                                         | လိုင်                           |                  | 1     | -t.      |              | ວ =<br>ທ<br>ທ<br>ເຊ        |        | 21       |            |             |            | <ul> <li>C</li> </ul> | 101        | <b>נ</b> Ω.   | ເດ  |        | 00                        |                       |            |             | - (        | - 1 0<br>- 1 1<br>- 1                                                                            |          |        | 38      |            |              | - e          | ວ<br>ເດິ<br>1 | SO .        |
|                 |                 | Σ             |           |                                         | 2                               | •                | ż     |          | ÷            |                            |        |          |            | • *         |            |                       | ;          | 1             |     |        |                           |                       | •          |             |            |                                                                                                  |          |        |         |            |              |              |               |             |
|                 |                 | ×             |           |                                         | ເດເ                             |                  |       |          |              |                            |        | ~        |            | ~ .         |            | ്<br>വിഗ              |            |               | ~   | ~      |                           | • •                   | ~          | ~           | <i>~</i> . | άQ                                                                                               | ~        | **     | ~       | ~          | d.           | • •          | > च           | ~           |
| · .             | *               |               | ÷.        | 3                                       | 4.0                             | 0.0              | 89    | 19       | 0 I<br>0 0   | 0 t~                       |        | 1        | 5          | 3<br>2<br>2 | 2-         | + O                   | 8          | ***           | r-  | · 1~   | in C                      | 0.0                   | sω         | 36          | 2          | 4 6                                                                                              | ينه      | 60     | 8       | 01<br>01   | on c         | $N \subset$  | န်ဝိ          |             |
|                 | •               |               | У<br>Х    | ര                                       | 6 u                             | 0 0              | 0     | ch.      | 8.0          | πω                         |        | 00       | 530        | 50 -        | 76         | 10                    | 96         | 2             | 80  | 00     | တစ                        | -<br>-<br>-<br>-<br>- | 50         | 6           | ແດ<br>ເດີຍ | 0.08                                                                                             |          | Ċ),    | 35      | 66         |              | ρσ           | 50            | 00          |
| 1.11            | N°              |               |           | 2                                       | <b>1</b>                        | . •              |       |          |              |                            |        | 12       |            | Ċ           | 10         | 2                     |            | 7             |     | 3      | ÷ '                       |                       |            |             | 1.4        | - 01                                                                                             | 1        | '      | ٦       | ო          |              | ני           | - 1           | 1           |
|                 | 4               |               |           |                                         |                                 |                  |       |          |              |                            |        |          |            |             |            |                       |            |               |     |        |                           |                       |            |             |            |                                                                                                  |          |        |         |            |              |              |               |             |
|                 | PICK-UP         |               | ම         | e                                       |                                 | - i-             | r-    | Ċ-       | <b>-</b> 1   | - 5-                       | ۰.     | ~        | <u>ں</u>   | ع د         | o u        | o o                   | Ģ          | ő             | 5   | 7      | r r                       | - 1-                  | · r-       | 5           | -          | ~ 9                                                                                              | 9        | Q      | 9       | ö          | <u>ہ</u>     | <u>ه</u> د   | s o           | 9           |
|                 | <u>a</u> ,      |               | Cas       | . ყ                                     | ΰľ                              |                  | 5     | ů        | د د          | 56                         |        |          |            | 5<br>5      | 58         | 50                    | 5          | <del>ان</del> | ե   |        |                           | 58                    | , ç        | Ъ.          | 5          | 55                                                                                               | ð        | ΰ      | ð       | 5          | ů.           | 5,8          | 55            | d'          |
| 1               |                 | ہ<br>جارت     | ۰.        |                                         | i<br>Linton                     |                  |       |          |              |                            |        |          |            |             |            |                       |            |               |     |        |                           |                       |            |             |            |                                                                                                  |          |        |         |            |              |              |               |             |
| e fil           |                 |               | â         | 00                                      | 000                             |                  | 0     | 00       | 0            | 20                         |        | 8        | 0          | 2           |            |                       | 00         | 00            | 00  | 0      | $\circ \circ$             | > C                   | $\sim$     | 0           | 0          | 000                                                                                              | 00       | 8      | 00      | 00         | 000          | 20           | 20            | 80          |
| 4               | en e<br>Teres a |               | E)        | 0                                       | ကရ                              | ်လ               | 8     | ŝ        | α, i         | <u>ი</u> ი                 |        | 0        | က္         | °,          | n <        | > ~                   | 3          | ŝ             |     | ٩.     | လုံ့စ                     | 0 m                   | • ° °      | 3           | φ, i       | ຕ່ອ                                                                                              | 0        | e      | ം       | ŝ          | Ó,           | <u>،</u> د   | 300<br>300    | )<br>       |
| FOR DRAINAGE-NO | ÷               |               | ы.        | 0                                       | 00                              | 2~1              |       | 2        | C1 (         | ຕ                          |        | 0        |            | ۰ <b>ن</b>  | C          | 10                    |            | .,            | v   | Ŭ      | 00                        |                       |            |             |            |                                                                                                  | Ŷ        | Ŭ      | Ŭ       |            |              |              |               |             |
| AGE             |                 |               |           |                                         |                                 |                  |       |          |              |                            |        |          |            |             |            |                       |            |               |     |        |                           |                       |            |             |            |                                                                                                  |          |        |         |            |              |              |               |             |
|                 |                 | 4             | 0         | 24                                      |                                 | ເຕ               | ъ     | ເດ       | ა t          | <b>~</b> ~4                |        | 3        | ~ (        | 2 1         | יי         | ഗ                     | ø          | 5             | ~   | 4      |                           | 1 0                   | ন          | · ທ         | υ          | - 0                                                                                              | -        |        | ~       | က          | বা           | ດ ປ          | - 1 C         | - বা        |
| DRI             |                 |               | 2         | 1                                       | * *                             | *                | ¥     | *        | ÷÷           | ¥, I                       |        | ī        | *          | ¥ :         | * )        | ÷ .*                  | *          | x             | ı   | ī      | * *                       | ( <b>x</b>            | *          | *           | *          | * 1                                                                                              | , i      | *      | ¥       | *          | ×            | * •          | ÷ *           | t           |
| OR              | 1.14<br>1.1     | 1. A          |           | ينب                                     |                                 |                  |       |          |              | 2                          | •      | 2        |            |             |            |                       |            |               | ო   | ņ      |                           |                       |            |             |            | 4                                                                                                | 4        |        |         |            |              |              |               | <b>r</b> -1 |
|                 |                 |               |           |                                         |                                 |                  |       |          |              |                            |        |          |            |             |            |                       |            |               |     |        |                           |                       |            |             |            |                                                                                                  |          |        |         |            |              |              |               |             |
| BOX             |                 |               |           |                                         |                                 | ÷                |       |          |              |                            |        |          |            |             |            |                       |            |               |     |        |                           |                       |            |             |            |                                                                                                  |          |        |         |            |              |              |               |             |
| •               | •               |               | н<br>Нас  |                                         | •                               |                  |       |          |              |                            |        |          |            |             |            |                       |            |               |     |        |                           |                       |            |             |            |                                                                                                  |          |        |         |            |              |              |               |             |
|                 |                 |               | 11.       |                                         | ۰.                              |                  |       |          |              |                            | i.     |          |            |             |            |                       |            |               |     |        |                           |                       |            |             |            |                                                                                                  |          |        |         |            |              |              |               |             |
|                 |                 |               |           |                                         |                                 |                  | :     |          |              |                            |        |          |            |             |            |                       |            |               |     |        |                           |                       |            |             |            |                                                                                                  |          |        |         |            |              |              |               |             |
|                 | : •             |               | : .       |                                         |                                 |                  |       |          |              |                            |        |          |            |             |            |                       |            |               |     |        |                           |                       |            |             |            |                                                                                                  |          |        |         |            |              |              |               |             |
|                 |                 |               |           |                                         |                                 |                  |       |          |              |                            |        |          |            |             |            |                       |            |               |     |        |                           |                       |            |             |            |                                                                                                  |          |        |         |            |              |              |               |             |

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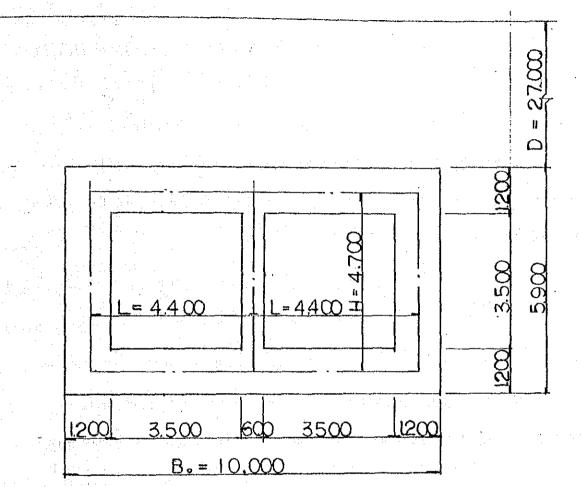
|                     | e<br>Alexandre de la composición<br>Alexandre de la composición                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  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| -618.144<br>-624.007<br>-623.547<br>-633.547<br>-653.318<br>-653.318<br>-653.318<br>-552.338<br>-552.338<br>-552.078<br>-552.078                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       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| M U M I N I M       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  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256.608<br>219.377<br>154.440<br>85.892<br>13.736<br>-78.123<br>-182.546<br>-288.762<br>-364.182                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 588.919<br>502.735<br>330.369<br>158.003<br>158.003<br>-386.4979<br>-388.571                     |
| ŝ                   | M (13)<br>113002 698<br>113002 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|                     | 1111111<br>8<br>1111111<br>8<br>1111111<br>8<br>0<br>0<br>0<br>0<br>0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            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310.466<br>264.747<br>102.9660<br>162.964<br>16.659<br>-61.885<br>-61.885<br>-61.885<br>-61.885<br>-61.885<br>-61.63<br>-61.63<br>-275.906                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 689.469<br>588.571<br>386.775<br>386.775<br>184.979<br>0.000<br>-150.003<br>-150.003<br>-150.003 |
|                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  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| PICK                | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      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2-71

NO S BOXCULVERT FOR DRAINAGE



where --- D<sup>m</sup>= depth of asphalt and similar surface soil

2) Factor of section

 $A = 1.00 \times 1.20 = 1.2000^{m^2}$   $I = \frac{100 \times 1.20^4}{12} = 0.14400^{m^4}$   $A = 100 \times 0.60 = 0.600^{m^2}$   $I = \frac{1.00 \times 0.60^4}{12} = 0.01800^{m^4}$   $E_{C} = 2.5 \text{ KN/mm^2} = 2.5 \times 10^7 \text{ KN/m^2}$  2 - 72

#### <u>No. (5) BOX CULVERT FOR DRAINAGE</u> $(D=27.0^{m})$

1. calculation for bending moment (ILL\_S)  $b = 100^{cm}$ section h = 120d = 113.0 d' = 7.01) For upper slab a) intersection point @=@ Mu.min = -1147.4<sup>KNm</sup>  $A_s = Y_{25} - 150^{\text{ctc}} = 4.909/0.15 = 32.73$  $X = \frac{0.87 \text{ fy} \cdot \text{As}}{0.40 \text{ fcu} \cdot \text{b}} = \frac{0.87 \times 41000 \times 32.73}{0.40 \times 2500 \times 100} = 11.8 \text{ cm}$  $Z = 113.0 - \frac{11.8}{2} = 103.1 \text{ cm} < 0.95 \times 113.0 = 107.3 \text{ cm}$  $M_{RS} = 0.87 \times 41000 \times 32.73 \times 107.1 \times 10^{-5} = 1250.4^{KNm} > M_{H} = 1147.4^{KNm}$  $M_{Rc} = 0.40 \times 2500 \times 100 \times 11.8 \times 107.1 \times 10^{-5} = 1263.8^{KNm} > Mu = 1147.4^{KNm}$ OK b) intersection point ③ Mu.min =  $-1536.0^{KNm}$  $A_{s} = \begin{pmatrix} Y_{32} - 300^{\text{ctc}} = 8.042/0.30 \\ Y_{25} - 300^{\text{ctc}} = 4.909/0.30 \end{pmatrix} = 43.17 \text{ cm}^{2}$  $X = \frac{0.87 \times 41000 \times 43.17}{0.40 \times 2500 \times 100} \approx 15.4 \text{ cm}$  $Z = 113.0 - \frac{15.4}{2} = 105.3 \text{ cm} < 0.95 \times 113.0 = 107.3 \text{ cm}$  $M_{RS} = 0.87 \times 41000 \times 43.17 \times 105.3 \times 10^{-5} = 1621.5^{KNm} > Mu = 1536.0^{KNm}$  $M_{Rc} = 0.40 \times 2500 \times 100 \times 15.4 \times 105.3 \times 10^{-5} = 1621.6^{KNm} > Mu = 1536.0^{KNm}$ Mu.max = 976.0<sup>KNm</sup> c) middle point ⊘~③=③~④  $A_{s} = \begin{pmatrix} Y_{25} - 300^{\text{ctc}} = 4.909/0.30 \\ Y_{20} - 300^{\text{ctc}} = 3.142/0.30 \end{pmatrix} = 26.84 \text{ cm}^{2}$  $X = \frac{0.87 \times 41000 \times 26.84}{0.40 \times 2500 \times 100} \rightleftharpoons 11.4 \text{ cm}$  $Z = 113.0 - \frac{11.4}{2} = 107.3 \text{ cm} < 0.95 \times 113.0 = 107.3 \text{ cm}$  $M_{Rs} = 0.87 \times 41000 \times 26.84 \times 107.3 \times 10^{-5} = 1027.3^{KNm} > Mu = 976.0^{KNm}$  $M_{Rc} = 0.40 \times 2500 \times 100 \times 11.4 \times 107.3 \times 10^{-5} = 1223.2^{KNm} > Mu = 976.0^{KNm}$ 2) For bottom slab intersection point 6 Mu.min = -1430.9<sup>KNm</sup> a) Mu.min =  $-1345.3^{KNM}$ ) point (1)=6(intersection  $A_{s} = \begin{pmatrix} Y_{32} - 300^{\text{ctc}} \\ Y_{25} - 300^{\text{ctc}} \end{pmatrix} = 43.17 \text{ cm}^{2}$ 

| $X = \frac{0.87 \times 41000 \times 43.17}{0.40 \times 2500 \times 100} = 15.4 \text{ cm}$                                                                 |
|------------------------------------------------------------------------------------------------------------------------------------------------------------|
| $Z = 113.0 - \frac{15.4}{2} = 105.3 \text{ cm} < 0.95 \times 113.0 = 107.3 \text{ cm}$ OK                                                                  |
| $M_{RS} = 0.87 \times 41000 \times 43.17 \times 105.3 \times 10^{-5} = 1621.5^{KNm} > Mu = 1430.9^{KNm}$                                                   |
| $M_{RC} = 0.40 \times 2500 \times 100 \times 15.4 \times 105.3 \times 10^{-5} = 1621.6^{KNm} > Mu = 1430.9^{KNm}$                                          |
| b) middle point (5)~(6)=(6)~(1) Middle Mu=1065.7 <sup>KNm</sup>                                                                                            |
| $A_s = Y_{25} - 150^{c+c} = 4.909/0.150 = 32.73$ cm <sup>2</sup>                                                                                           |
| $X = \frac{0.87 \times 41000 \times 32.73}{0.40 \times 2500 \times 100} = 11.8 \text{ cm}$                                                                 |
| $Z = 113.0 - \frac{11.8}{2} = 107.1^{cm} < 0.95 \times 113.0 = 107.3^{cm}$ OK                                                                              |
| $M_{RS} = 0.87 \times 41000 \times 32.73 \times 107.1 \times 10^{-5} = 1250.4^{KNm} > Mu = 1065.7^{KNm}$                                                   |
| $M_{Rc} = 0.40 \times 2500 \times 100 \times 11.8 \times 107.1 \times 10^{-5} = 1263.8^{KNm} > Mu = 1065.7^{KNm}$<br>OK<br>3) For middle wall              |
| section $b = 100^{\circ m}$ $h = 60$ $d = 54.0$ $d' = 6.0$                                                                                                 |
| Nu.min = $4526.4 \text{ km}$                                                                                                                               |
| $\sigma c = \frac{4526.4 \times 10^3}{100 \times 54.0} = 838.3 \text{ N/cm}^2 < \sigma ca = 2500 \times 0.40 = 1000 \text{ N/cm}^2$                        |
| 2. calculation for shearing force ( U.L.S )                                                                                                                |
| section $b = 100^{cm}$ $h = 120$ $d = 113.0$ $d' = 7.0$                                                                                                    |
| 1) For upper slab                                                                                                                                          |
| a) intersection point ③ Su.max = 862.5 <sup>KN</sup> … d <sup>cm</sup> ,distance                                                                           |
| $A_{s} = \left(\begin{array}{c} Y_{32} - 300^{\text{ctc}} = 8.042/0.30\\ Y_{25} - 300^{\text{ctc}} = 4.909/0.30 \end{array}\right) = 43.17 \text{ cm}^{2}$ |
| $P = \frac{43.17}{100 \times 113.0} \times 100 = 0.382 \%$                                                                                                 |
| $Vc = \frac{862.5 \times 10^3}{100 \times 113.0} = 76.4 \text{ N/cm}^2$                                                                                    |
| $< Vca = \left\{ 35.0 + 15.0 \times \frac{0.382 - 0.25}{0.25} \right\} \times \frac{2d}{d} = 85.8 \text{ N/cm}^2 \text{ OK}$                               |
|                                                                                                                                                            |
|                                                                                                                                                            |
| 2-74                                                                                                                                                       |

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b) intersection point ②, ④ Su.max = 395.5<sup>KN</sup>

$$A_s = Y_{2b} - 150^{ctc} = 4.909/0.150 = 32.73 \text{ cm}^2$$

$$P = \frac{32.73}{100 \times 113.0} \times 100 = 0.290 \%$$

$$= \frac{395.5 \times 10^3}{100 \times 113.0} = 35.0 \text{ N/cm}^2$$

$$< V_{ca} = \left\{ 35.0 + 15.0 \times \frac{0.290 - 0.25}{0.25} \right\} \times \frac{2d}{d} = 74.8 \text{ N/cm}^2 \text{ OK}$$

2) For bottom slab

a) intersection point (6) Su.max =  $835.4^{KN}$ 

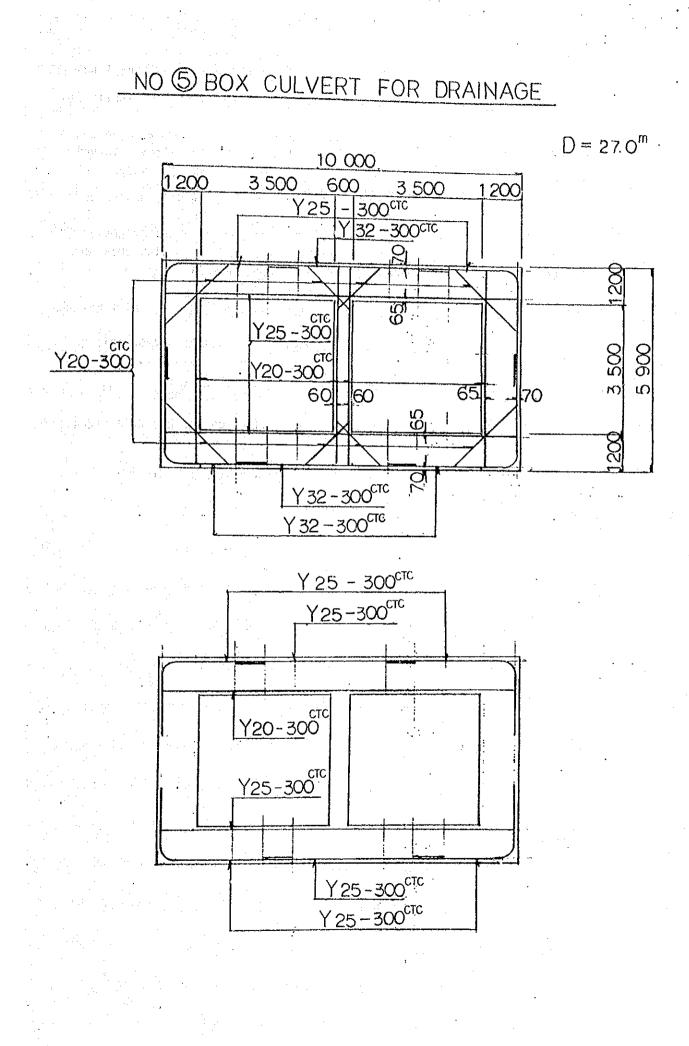
$$Vc = \frac{835.4 \times 10^{3}}{100 \times 113.0} = 74.0 \text{ N/cm}^{2} < Vca = 85.8 \text{ N/cm}^{2}$$

Where … Vca: From calculation of point③

b) intersection point (1)=(5) Su.max = 490.5<sup>KN</sup>

$$Vc = \frac{490.5 \times 10^3}{100 \times 113.0} = 43.4 \text{ N/cm}^2 < Vca = 85.8 \text{ N/cm}^2$$

Where … Vca: From calculation of point③



NOG BOX FOR DRAINAGE

Load (1)Dead load a) Vertical load Where  $\alpha = 1.35$  {earth pressure factor of vertical}  $\therefore \frac{D}{B_0} = \frac{27.00}{10.00} = 2.7 < 3.0$ For upper slab w1 = 22.6×0.50+17.5×26.5×1.35+23.60×1.20 = 665.683 kN/m For side wall  $w^2 = 23.6 \times 1.20$ = 28.320 11 For center wal  $w2' = 23.6 \times 0.60$ = 14.160 11 For bottom s1ab W3 = 665.683 +  $(2 \times 28.320+14.160) \times 4.70$ = 703.497 8.80 b)Horizontal load -- earth pressure For side wall P1 =  $(22.6 \times 0.50 + 17.50 \times 27.10) \times 0.500$ = 242.775 kN/m P2 =  $(22.6 \times 0.50 + 17.50 \times 31.80) \times 0.500$ 11 = 283,900 11

#### (2)Live load

or live load surcharge of vihicle

 $go = \frac{\frac{40 \times 30}{3.50 \times 10.0}}{34.300 \text{ KN/m}}$ 

For upper slab and bottom slab

P1 = P2 = 34.300 KN/m

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | · .                                             |                                                                                                                                      |                                                         |                            |                  |                                         |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------|----------------------------|------------------|-----------------------------------------|
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                 |                                                                                                                                      |                                                         |                            |                  |                                         |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | · ·                                             |                                                                                                                                      |                                                         |                            |                  |                                         |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | · . · · · ·                                     |                                                                                                                                      | на страница<br>1910 г. – Страница<br>1910 г. – Страница |                            |                  |                                         |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | · · ·                                           |                                                                                                                                      |                                                         |                            | 501 N            |                                         |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | S                                               |                                                                                                                                      | · .                                                     |                            |                  |                                         |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | [រ<br>រប                                        |                                                                                                                                      |                                                         |                            |                  |                                         |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                 | 位立道道道道道道<br>000000000<br>000000000000000000000                                                                                       | ·                                                       |                            | 0<br>0<br>1<br>- |                                         |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                 | 973 part and part and part and                                                                                                       |                                                         |                            | Ч                | · · · ·                                 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | · · · · · · · · · · · · · · · · · · ·           | ~~~~~~                                                                                                                               |                                                         |                            | 000              | ·                                       |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | ស<br>គ                                          | $\begin{array}{c} \circ \circ$ |                                                         |                            | ~ ~              |                                         |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | · · · · · · · · · · · · · · · · · · ·           | 00000000<br>00000000000000000000000000000                                                                                            |                                                         |                            |                  |                                         |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | ( <b>t</b> )                                    | 00000000                                                                                                                             | · .                                                     |                            | 025              |                                         |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                 |                                                                                                                                      |                                                         |                            |                  |                                         |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Ê                                               | 00000000                                                                                                                             |                                                         | ·                          |                  |                                         |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                 | দ কে য7 দে যা স<br>প কা কা কা কা কা কা<br>প কা কা কা কা কা কা কা                                                                     |                                                         |                            | 160              |                                         |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | <b>.</b>                                        |                                                                                                                                      |                                                         |                            | 4                |                                         |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                 | * * * * * * *                                                                                                                        | •                                                       | •                          |                  |                                         |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | وسو                                             |                                                                                                                                      |                                                         | e e g                      | 200              | 000000                                  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | I                                               |                                                                                                                                      |                                                         | m/Rac<br>Free<br>Free      | ц<br>Ц           | ******                                  |
| $\mathbf{O}$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | ы                                               | ******                                                                                                                               |                                                         | M ( tm/Rad<br>Free<br>Free |                  |                                         |
| ang an                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                 | in the first in the tre tre                                                                                                          |                                                         | <u>×.</u>                  | N 11<br>14<br>14 | 000000000000000000000000000000000000000 |
| $\sum_{n}$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                 | 0000000                                                                                                                              |                                                         |                            | , <b>ц</b>       | 10 00 01 00 00 00                       |
| Ň                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                 |                                                                                                                                      | -                                                       | â××                        | 000              | 000000                                  |
| 8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | н                                               | <b>キリシンチン</b>                                                                                                                        |                                                         | ·                          | - No<br>130      | 00000000                                |
| Depth = 27<br>(m)<br>(m)<br>(m)<br>(m)<br>(m)<br>(m)<br>(m)<br>(m)<br>(m)<br>(m)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                 | 0000000                                                                                                                              |                                                         | У<br>Х                     | 늰                | 0000000                                 |
| Dt1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                 | ·                                                                                                                                    |                                                         |                            | 000              | 000000                                  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                 | 00000000                                                                                                                             |                                                         |                            | N - 7            |                                         |
| Proved in the second                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | . E )                                           | 000000000000000000000000000000000000000                                                                                              |                                                         | ~                          | 1-A              | ннннн                                   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | · · · · · · · · · · · · · · · · · · ·           |                                                                                                                                      |                                                         | t/m)<br>Fix                | 07 T T           |                                         |
| Ê 000000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                 |                                                                                                                                      |                                                         |                            |                  |                                         |
| E 0004                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | <del>ر</del> م                                  | 010710040                                                                                                                            |                                                         | ×                          |                  | 00000000                                |
| - NO S NO                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                 |                                                                                                                                      |                                                         |                            |                  |                                         |
| an di 🖶 an taona 1990 ang kanalang kanal<br>Reference kanalang kan | <u>ب</u>                                        |                                                                                                                                      |                                                         |                            |                  |                                         |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                 |                                                                                                                                      |                                                         | ç ~10                      | 0                |                                         |
| Во<br>Хо<br>С<br>Л<br>Л<br>Л<br>Л<br>Л<br>Л<br>Л<br>С<br>С<br>С<br>С<br>С<br>С<br>С<br>С<br>С<br>С<br>С                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                 | 100+005                                                                                                                              |                                                         | •                          | N.               |                                         |
| جيم<br>محمد<br>191                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | × 2                                             |                                                                                                                                      |                                                         |                            |                  |                                         |
| $\vec{O}_{a}$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | е.<br>С. с. |                                                                                                                                      |                                                         |                            |                  |                                         |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | :                                               | •                                                                                                                                    |                                                         |                            |                  |                                         |
| ŭ                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                 | •                                                                                                                                    |                                                         |                            |                  |                                         |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                 | . · · · ·                                                                                                                            |                                                         |                            |                  |                                         |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                 | a 70                                                                                                                                 |                                                         |                            |                  |                                         |

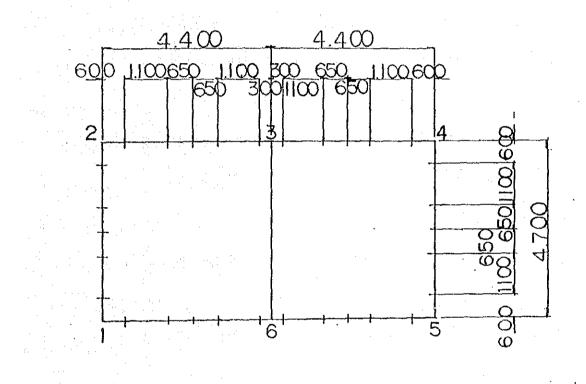
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### CALCULATION POINTS OF EACH FORCE



|                                                                                                        |                                         |                                                                                 |          |   |           |                     | ·                      |                 | - |                                           |                                        | .* |
|--------------------------------------------------------------------------------------------------------|-----------------------------------------|---------------------------------------------------------------------------------|----------|---|-----------|---------------------|------------------------|-----------------|---|-------------------------------------------|----------------------------------------|----|
| P. (t/m)                                                                                               |                                         |                                                                                 |          |   | Pj (t/m). | 242.775<br>+283.900 |                        |                 |   | Pj (t/m)                                  | -34.300<br>-34.300<br>34.300<br>34.300 |    |
| Pi((/m)                                                                                                |                                         |                                                                                 |          |   | Pi (t/m)  | 283.900<br>-242.775 | •                      | -               |   | Pi (t/m)                                  | - 34.300<br>34.300<br>34.300<br>34.300 |    |
|                                                                                                        |                                         |                                                                                 |          |   |           |                     |                        |                 |   |                                           | · · · .                                |    |
| (m)<br>Lo                                                                                              | 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4   |                                                                                 |          |   | Lo (m)    | 4.700<br>4.700      |                        |                 |   | Lo (m)                                    | 4.400<br>4.400<br>4.400<br>4.400       |    |
| o ad<br>Li (m)                                                                                         | 000000000000000000000000000000000000000 | 0.003 (t)<br>0.000 (t)                                                          | pressure |   | Li (m)    | 0.000               | 0.000 (t)<br>0.000 (t) | load-VL-        |   | Li (m)                                    | 0.000<br>0.000<br>0.000<br>0.000       |    |
| o<br>r<br>t<br>t                                                                                       | ******                                  |                                                                                 | rth pl   |   |           | ××,                 |                        | live            |   |                                           | ****                                   |    |
| P                                                                                                      |                                         | 11<br>11<br>12<br>12<br>12<br>12<br>12<br>12<br>12<br>12<br>12<br>12<br>12<br>1 | No. : 2  |   |           |                     | 11 II<br>>工<br>闪闪      | . BH<br>No. : 3 |   |                                           | •                                      |    |
| 2                                                                                                      |                                         |                                                                                 | Ζ.       |   |           |                     |                        | 2.              |   |                                           |                                        |    |
|                                                                                                        | 00700-10                                |                                                                                 |          |   |           | 0110                |                        |                 |   | 1997 - 1997<br>1997 - 1997<br>1997 - 1997 | () T () ~                              |    |
|                                                                                                        |                                         |                                                                                 |          |   |           | ।।<br>দ্ব হা        |                        |                 |   | Г                                         | 1111                                   |    |
| • <b></b> -t                                                                                           |                                         |                                                                                 |          |   |           |                     |                        |                 |   | - 1-4                                     | •                                      |    |
| No.                                                                                                    | H N N 7 10 0 M                          |                                                                                 |          | ï | No        |                     |                        |                 |   | No                                        | လံုက္ျင္က မွာ                          |    |
| n an chuir ann an Airtean an<br>1910 - Airtean Airtean an Airtean an Airtean<br>1910 - Airtean Airtean |                                         |                                                                                 |          |   |           |                     |                        | •               |   |                                           |                                        |    |

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BOX FOR DRAINAGE-NOS

No No No

BOX FOR DRAINAGE-NO5

1.3800 1.6500 1.4300

No 1 : 4

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BOX FOR DRAINAGE-NO5

|                           | н<br>14 <u>1</u> 4                      |                          | •           |           |                          |                        |                                                                               | •                     |                                                                              |
|---------------------------|-----------------------------------------|--------------------------|-------------|-----------|--------------------------|------------------------|-------------------------------------------------------------------------------|-----------------------|------------------------------------------------------------------------------|
| RM (tm)                   | 0.000                                   |                          |             | a da<br>a |                          | ROTA.(mmRad)           | 0.1634<br>0.1634<br>0.1634<br>0.1634<br>0.1634<br>0.0634                      |                       |                                                                              |
| t)<br>RX<br>BX            | 0.000                                   |                          |             |           |                          | 3<br>Y-DIS.(mm)        | 0.00000<br>-0.100000<br>-0.10615<br>-0.10615<br>-0.10615<br>0.00000           | ·                     | · · ·                                                                        |
| RX (t)                    | 0.000                                   | •                        |             |           |                          | -DIS.(mm)              | 000000000000000000000000000000000000000                                       |                       |                                                                              |
| RX (tm)                   | 000.0                                   |                          |             |           |                          | ROTA.(mmRad) X         | -1.10761<br>1.00591<br>0.00000<br>-1.09591<br>1.10761<br>0.00000              |                       |                                                                              |
| 2<br>RY (t)               |                                         |                          |             |           |                          | 2<br>Y-DIS.(mm)        | 0.00000<br>-0.16074<br>0.22934<br>-0.16074<br>0.00000<br>-0.41362             | ·<br>·<br>·           |                                                                              |
| Case.<br>RX (t)           | 0.000                                   |                          | •<br>•<br>• | · .       |                          | Case.<br>X-DIS.(mm)    | 0.00000<br>-0.04779<br>-0.93153<br>-1.81527<br>-1.86307<br>-0.93153           |                       |                                                                              |
| EM<br>(tm)                | 000000000000000000000000000000000000000 | RM (tm)<br>0.000         | 0.000.0     |           |                          | ROTA, (mmRad)          |                                                                               | ROTA.(mmRad)          | 3.14535<br>-2.68330<br>0.00000<br>2.68330<br>-3.14535<br>0.00000             |
| 1<br>RY (t)               | -0.002<br>-0.002                        | (t)<br>002               | 0.002       |           |                          | 1<br>Y-DIS.(mm) R      | 0.00000<br>12.11869<br>15.38567<br>12.11869<br>12.11869<br>0.00000<br>5.01598 | 4<br>-DIS.(mm)        | 0.00000<br>-3.34081<br>-7.50235<br>-3.34081<br>-3.34081<br>0.0000<br>6.53631 |
| GE-NO5<br>Case:<br>RX (t) | 0.000<br>0.000<br>0.000                 | Case.<br>RX (t)<br>0.000 |             |           | GE-NO5                   | Case.<br>X-DIS.(mm)' ) | 0.00000<br>                                                                   | Case.<br>X-DIS.(mm) Y | 0.00000<br>10.20149<br>12.59834<br>13.19669<br>13.19669                      |
| FOR DRAINAGE-NO5<br>No.   | н.<br>Ню                                |                          | •           |           | <br>BOX FOR DRAINAGE-NO5 | No                     |                                                                               | No.                   | -00400<br>                                                                   |

| $ \begin{array}{c ccccccccccccccccccccccccccccccccccc$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                      |                    | 2                    |               | 1                     |          |                |                    |                  |                                   |                          |                                                                                                  |                |             |         |               |                 |                              |                      |              |               |                |                |                   |                  |                  |                    |                |                  |                |         |             |                  |                  |                                                                                             |                                    |                 |         |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|--------------------|----------------------|---------------|-----------------------|----------|----------------|--------------------|------------------|-----------------------------------|--------------------------|--------------------------------------------------------------------------------------------------|----------------|-------------|---------|---------------|-----------------|------------------------------|----------------------|--------------|---------------|----------------|----------------|-------------------|------------------|------------------|--------------------|----------------|------------------|----------------|---------|-------------|------------------|------------------|---------------------------------------------------------------------------------------------|------------------------------------|-----------------|---------|
| $ \begin{array}{c ccccccccccccccccccccccccccccccccccc$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                      | Č<br>N             | 67 75<br>67 75       | 67.75         | 67.75                 | 67.73    | 67.75<br>67.75 |                    | 00.              | <u> </u>                          | 00,                      | 30                                                                                               | 200            | ŝ.          | 00      | 80,           | 00.             | 000                          | 200                  | ò<br>o       | 67.75         | 67.75          | 07.70<br>87.75 | 67.75             | 67 75            |                  | 88                 | 80.            | ŝ                | 86             | 8       | 2           | 88.              | 00.              | 80,00                                                                                       | 200                                | 00.             |         |
| $ \begin{array}{c ccccccccccccccccccccccccccccccccccc$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | e 10ad-V             | بدين<br>بات<br>با  | 000                  | 88            | 00 -                  | 8        | 88             | ><br>1<br>• :<br>2 | 7.75             | 7.17                              | 9.44<br>44.0             | 1<br>2<br>2<br>2<br>2<br>2<br>2<br>2<br>2<br>2<br>2<br>2<br>2<br>2<br>2<br>2<br>2<br>2<br>2<br>2 | 72.87          | 83.16       | 3.16    | 2.87          | ****<br>••••    | 4' 4<br>2' 4<br>7 0          | 47.17                | 67.19        | 00.           | 80.00          | ŝŝ             | 80                | 800              | >  <br>•         | 0 F<br>F<br>F<br>F | 5.44           | 12.54            | 60.14<br>72.87 | 83.16   | 0<br>1<br>1 | 2.87             | 10 C             | 1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1 | 47.27                              | 67.75           | •       |
| No         L(m)         Case 1         Dead         Load         N (t)         N (t                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | ase 3 BH li          | M (tm<br>2         | 25-02<br>25-02       | 25 02         | 25-02                 | 20.02    | 25.02<br>25.02 |                    | 25.02            | 04.<br>10<br>10<br>10<br>10<br>10 | 2010<br>2010             | 5<br>5<br>7<br>7<br>7<br>7<br>7<br>7<br>7<br>7<br>7<br>7<br>7<br>7<br>7<br>7<br>7<br>7<br>7<br>7 | 80.51<br>35.51 | 58.91       | 58.91   | 35.51         | 00°00           | ァ い<br>い<br>い<br>い<br>い<br>い | 50 C<br>57 C<br>50 C | * • • • •    | 25.02         | 25.02          | 25.02          | 25.02             | 25.02            |                  | 20.02              | 0.55           | 0.40<br>0.40     | 50.03<br>35.51 | 58.91   | 10°.03      | 35.51            | 0.80<br>0.80     | γ<br>10<br>10<br>10<br>10                                                                   | 0<br>10<br>0<br>10<br>0<br>10<br>0 | 25.02           |         |
| No         L(m)         Case         1 Dead         S (t)         N (t)         Case         2 Earth pressure           1         0         0000         -570,665         30.293         -11911,908         -315,132         555.13           2         1.000         -570,665         30.293         -11911,908         -315,132         565.13           2         1.000         -570,665         30.293         -11911,908         -315,132         565.13           2         1.000         -570,665         30.293         -11911,806         102.600           2         1.000         -570,665         30.293         -1171,045         7.665           3         0.000         -425,186         30.293         -1171,046         102.600           3         0.000         -425,186         30.293         -1171,02         900.600           3         0.000         73.201         30.293         -1171,02         900.600           3         0.000         73.503         90.293         -1171,02         900.600           3         0.000         74.657         102.600         102.600         102.600           3         0.000         755.235         -711,2455         30.29                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | ```                  | N (t               | 102.60               | 102.60        | 102.60                |          | 102-60         |                    | 602.55<br>602.55 | 00 - 100<br>00 - 100              | 007<br>007<br>007<br>007 | 602.55                                                                                           | 602.55         | 602.55      | 602.55  | 602.55        | 602.55<br>603 E | 602.55                       | 602.55(<br>602.55(   |              | 102.60        | 102.60         | 102.60         | 102.60            | 102.60           | 2<br>2<br>2<br>2 | 635.13             | 635.13         | 635.13<br>635 13 | 635.13         | 635,13  | 635.13      | 635.13           | 639.13<br>637.13 | 635.13                                                                                      | 635.13                             | 070.TC          | 06 20   |
| No         L(m)         X (tm)         S (t)         N (t)         M (tm)           1         2         0.000         -770.665         30.293         -11418.908         -316.342           2         1.700         -770.665         30.293         -11418.908         -316.342           2         1.700         -570.665         30.293         -11418.908         -316.342           2         1.700         -572.485         30.293         -11410.916         316.342           2         1.700         -752.387         30.293         -11410.916         316.342           2         1.4700         -746.463         30.293         -11370.193         316.323           2         1.4700         -428.387         30.293         -1136.346         316.324           2         1.4700         -4146.463         30.293         -1136.495         316.349           2         1.4400         1214.560         1144.143         30.293         119.37         316.349           2         1.400         -728.235         114.144         30.233         119.37         316.343           2         1.400         -744.445         30.233         119.37         316.466         316.466 </td <td>pressure</td> <td>ייי<br/>ד<br/>א<br/>ש</td> <td>66.37<br/>66.37</td> <td>65.15</td> <td>-7.86</td> <td>12 227</td> <td>602.55</td> <td></td> <td>02.00</td> <td>00 - 00<br/>02 - 60</td> <td>02 60</td> <td>02.60</td> <td>02.60</td> <td>02.60</td> <td>102.60</td> <td>102.60</td> <td>102.60</td> <td>102.60</td> <td>102.60</td> <td>&gt;&gt;<br/>•<br/>•</td> <td>02.55</td> <td>22.21<br/>77.18</td> <td>7.86</td> <td>165.15</td> <td>466.37<br/>635.13</td> <td>00 60</td> <td>02.60</td> <td>02.60</td> <td>02.60</td> <td>02.60</td> <td>02.60</td> <td>102.60</td> <td>102.60</td> <td>102.60</td> <td>102.60</td> <td>102.60</td> <td>00.101</td> <td>Ĉ</td>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | pressure             | ייי<br>ד<br>א<br>ש | 66.37<br>66.37       | 65.15         | -7.86                 | 12 227   | 602.55         |                    | 02.00            | 00 - 00<br>02 - 60                | 02 60                    | 02.60                                                                                            | 02.60          | 02.60       | 102.60  | 102.60        | 102.60          | 102.60                       | 102.60               | >><br>•<br>• | 02.55         | 22.21<br>77.18 | 7.86           | 165.15            | 466.37<br>635.13 | 00 60            | 02.60              | 02.60          | 02.60            | 02.60          | 02.60   | 102.60      | 102.60           | 102.60           | 102.60                                                                                      | 102.60                             | 00.101          | Ĉ       |
| No $L(m)$ $X$ $(m)$ $X$ $(m)$ $X$ $(m)$ $S$ $(t)$ $N$ $(t)$<br>S $(t)$ $N$ $(t)$ $S$ $(t)$ $N$ $(t)S$ $(t)$ $N$ $(t)$ $N$ $(t)S$ $(t)$ $N$ $(t)$ $N$ $(t)S$ $(t)$ $N$ $(t)$ $N$ $(t)$ $N$ $(t)S$ $(t)$ $N$ $(t)$ $N$ $(t)S$ $(t)$ $N$ $(t)$ $(t)$ $N$ $(t)$ $(t)$ $N$ $(t)$ $(t)$ $N$ $(t)$ $(t)$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | ase 2 Eart<br>M (tm) | 1315 - 22<br>25    | 100 0 10<br>100 0 10 | 60.32         | 200<br>27<br>17<br>17 | 70-06    | 315.46         | 0.7.<br>11 - 0     | 010.40           | 141.04                            | -74.35                   | -7.66                                                                                            | 05.19          | 35.97       | 35.97   | 67.00<br>1.00 | 74.35           | 141.04                       | 253.90<br>315.46     |              | 310.46<br>010 | 50.89          | 11.23          | 60.32             | 13.95<br>316.34  | 316 23           | 254.78             | 141.92         | - 8.54           | 04.31          | 35.09   | 35.09       | 04.31            | 75.23            | 141.92                                                                                      | 254.78                             | *<br>           | 00      |
| No       L(m)       Case       1       Dead       Load                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | U<br>X               | -1418.90           | -1401.91             | -1370.76      |                       | -1302.79 | 1285.80        | 000                | 30.29            | 0.29                              | 0.29                     | 0.29                                                                                             | 0:20           | 67.0        | 0.29    | 0.29          | 0.20            | 0.29                         | 0.29                 |              | 1302-70       | 1333.94        | 1352.35        | 1370.76           | 1418.90          | 30.79            | 30.29              | 90°50<br>90°50 | 30.20            | 30.29          | 30.29   | 30.29       | 30.29            | 30.25            | 30.29                                                                                       | 30.29                              | )<br> <br> <br> | 3286.40 |
| No L(m) Case 1 De M (tm)<br>No L(m) Case 1 De M (tm)<br>No L(m) Case 1 De M (tm)<br>N | oad<br>S (t          | 0.29               | 0.29                 | 0.29          | 0                     | 0:29     | 0.29           | 285 80             | 886.39           | 54.14                             | 278 55                   | -711.24                                                                                          | 1443 49        | 07.0407     | 643.20  | 711 24        | 278 55          | 154.14                       | 1285 80              |              | 30.29         | 30.29          | 30.29          | 30.29             | 50.29<br>50.29   | 418.91           | 996.81             | 222.96         | 691.58           | 1465.42        | 1076.47 | 676.47      | 465.42<br>601 x0 | 234.30           | 222,96                                                                                      | -596 81<br>1418 91                 |                 | 001     |
| 0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | ase 1 Dea<br>M (tm)  | 570.66             | 552.48               | 719.47        | 479.78                | 446.46   | 428.28         | 428.28             | 23.37            | 95.66                             | 55.23                    | 433.55                                                                                           | 1014 55        | 000<br>**** | 1214.56 | 433.53        | 755.23          | 795.66                       | 428.28               | 400 00       | -446.46       | -479.78        | 459.47         | 01-0-10<br>220-10 | 570.66           | 370.66           | 154.05             | 821.24         | 520.32           | -666.02        | 10.1011 | 1137.31     | 666.02<br>520 32 | 21.24            | 24.92                                                                                       | 154.05<br>370.66                   |                 | 8.0     |
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|           |     |     |            | Case 4    | No L(m) X (tm) S < | No L(m) Case 4<br>1- 2 0 000 (tm) S (t) N (t | No L(m) Case 4<br>No L(m) N (tm) S (t) N (t<br>1- 2 0.000 -1345.268 1089.780 -2224.27 | No L(m) Case 4<br>No L(m) N((tm) S(t) N(t<br>* 1 0.600 -1345.268 1089.780 -2224.27 | No L(m) Case 4<br>No L(m) N((tm) S(t) N(t<br>* 1 0.600 -1345.268 1089.780 -2224.27<br>* 2 1.700 -157.708 311.318 -2200.82<br>-157.708 314.303 -2157 83 | No L(m) Case 4<br>No L(m) N (tm) S (t) N (t<br>* 1 0.600 -1345.268 1089.780 -2224.27<br>* 2 1.700 -175.198 811.318 -2220.82<br>* 3.2.350 -157.708 314.303 -2157.83<br>* 2.350 -157.708 314.303 -2157.83 | No L(m) Case 4<br>No L(m) Case 4<br>11-2 0.000 -1345.268 1089.780 -2224.27<br>* 1 0.600 -1775.198 811.318 -2220.82<br>* 3 2.350 -146.523 -2157.83<br>-146.523 -2157.43 | No L(m) Case 4<br>No L(m) Case 4<br>No L(m) S (t) N (t<br>2 0.000 -1345.268 1089.780 -2224.27<br>-775.198 811.318 -2200.82<br>-157.708 314.303 -2157.83<br>-165.523 -28.823 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1459.977<br>-955.40<br>-955.40<br>-955.40<br>-955.40<br>-955.40<br>-955.40<br>-955.40<br>-955.40<br>-955.40<br>-955.40<br>-955.40<br>-955.40<br>-955.40<br>-955.40<br>-955.40<br>-955.40<br>-955.40<br>-955.40<br>-955.40<br>-955.40<br>-955.40<br>-955.40<br>-955.40<br>-955.40<br>-955.40<br>-955.40<br>-955.40<br>-955.40<br>-955.40<br>-955.40<br>-955.40<br>-955.40<br>-955.40<br>-955.40<br>-955.40<br>-955.40<br>-955.40<br>-955.40<br>-955.40<br>-955.40<br>-955.40<br>-955.40<br>-955.40<br>-955.40<br>-955.40<br>-955.40<br>-955.40<br>-955.40<br>-955.40<br>-955.40<br>-955.40<br>-955.40<br>-955.40<br>-955.40<br>-955.40<br>-955.40<br>-955.40<br>-955.40<br>-955.40<br>-955.40<br>-955.40<br>-955.40<br>-955.40<br>-955.40<br>-955.40<br>-955.40<br>-955.40<br>-955.40<br>-955.40<br>-955.40<br>-955.40<br>-955.40<br>-955.40<br>-955.40<br>-955.40<br>-955.40<br>-955.40<br>-955.40<br>-955.40<br>-955.40<br>-955.40<br>-955.40<br>-955.40<br>-955.40<br>-955.40<br>-955.40<br>-955.40<br>-955.40<br>-955.40<br>-955.40<br>-955.40<br>-955.40<br>-955.40<br>-955.40<br>-955.40<br>-955.40<br>-955.40<br>-955.40<br>-955.40<br>-955.40<br>-955.40<br>-955.40<br>-955.40<br>-955.40<br>-955.40<br>-955.40<br>-955.40<br>-955.40<br>-955.40<br>-955.40<br>-955.40<br>-955.40<br>-955.40<br>-955.40<br>-955.40<br>-955.40<br>-955.40<br>-955.40<br>-955.40<br>-955.40<br>-955.40<br>-955.40<br>-955.40<br>-955.40<br>-955.40<br>-955.40<br>-955.40<br>-955.40<br>-955.40<br>-955.40<br>-955.40<br>-955.40<br>-955.40<br>-955.40<br>-955.40<br>-955.40<br>-955.40<br>-955.40<br>-955.40<br>-955.40<br>-955.40<br>-955.40<br>-955.40<br>-955.40<br>-955.40<br>-955.40<br>-955.40<br>-955.40<br>-955.40<br>-955.40<br>-955.40<br>-955.40<br>-955.40<br>-955.40<br>-955.40<br>-955.40<br>-955.40<br>-955.40<br>-955.40<br>-955.40<br>-955.40<br>-955.40<br>-955.40<br>-955.40<br>-955.40<br>-955.40<br>-955.40<br>-955.40<br>-955.40<br>-955.40<br>-955.40<br>-955.40<br>-955.40<br>-955.40<br>-955.40<br>-955.40<br>-955.40<br>-955.40<br>-955.40<br>-955.40<br>-955.40<br>-955.40<br>-955.40<br>-955.40<br>-955.40<br>-955.40<br>-955.40<br>-955.40<br>-955.40<br>-955.40<br>-955.40<br>-955.40<br>-955.40<br>-955.40<br>-955.40<br>-955.40<br>-955.40<br>-955.40<br>-955.40<br>-955.40<br>-955.40<br>-955.40<br>-955.40<br>-955.40<br>-955.40<br>-955.40<br>-955.40<br>-955.40<br>-955.40<br>-955.40<br>-955.40<br>-955.40<br>-955.40<br>-955.40<br>-955.40<br>-955.40 | No L(m) X (tm) X | No L(m) X (tm) X | $ \begin{array}{cccccccccccccccccccccccccccccccccccc$ | No L(m) K(m) S(t)<br>No L(m) Case 4<br>No L(m) S(t)<br>No N(t)<br>No N | No L(m) K(m) S(t)<br>No L(m) S(t)<br>No N(t)<br>No N(t | No       L(m)       X       (tm)       S       (t)         No       L(m)       M       X       (tm)       S       (t)         No       L       1345.268       1089.780       1089.780       12150.983       12150.933         No       L       L       L       1147.342       28.823       22157.833       22157.833         No       L       L       L       L       1447.342       28.666       1277.433         No       L       L       L       L       1477.342       28.666       1209.433         No       L       L       L       L       1477.342       28.666       1277.433         No       L       L       L       L       L       1477.342 | No       L(m)       X       (tm)         No       L       No       No         No       L       No       No       No         No       L       No       No       No         No       L       No       L       No         No       L       L       No       L         No       L       L       No       L       No         No       L       L       L       No       L       No         No       L       L       L       No       L       No         No       L       L       L       No       L       No       L | No       L(m)       X       (tm)         No       L(m)       X       X         No       L(m)       X       X         No       L(m)       X       X         No       L(m)       X       X         No       L       L       X       X         No       L       L       Z       Z       Z         No       L       L       Z       Z       Z       Z         No       L       L       Z       Z       Z       Z       Z         No       L       L       Z       Z       Z | No       L(m)       X       X         No       L(m)       X       X       X         No       L(m)       X       X       X         No       L(m)       X       X       X       X         No       L(m)       X       X       X       X       X         No       L(m)       X       X       X       X       X       X         No       L(m)       X       X       X       X       X       X       X       X       X       X       X       X       X       X       X       X       X       X       X       X       X       X       X       X       X       X       X       X       X       X       X       X       X       X       X       X       X       X       X       X       X       X       X       X       X       X       X       X       X       X       X       X       X       X       X       X       X       X       X       X       X       X       X       X       X       X       X       X       X       X       X       X       X       X </td <td>No L(m) Case 4<br/>No L(m) X (tm) S (t) X (tm) X</td> <td><math display="block"> \begin{array}{c} 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 2 \\ 2 \\ 2 \\ 2 \\</math></td> <td><math display="block"> \begin{array}{cccccccccccccccccccccccccccccccccccc</math></td> <td><math display="block"> \begin{array}{cccccccccccccccccccccccccccccccccccc</math></td> <td><math display="block"> \begin{array}{cccccccccccccccccccccccccccccccccccc</math></td> <td>No <math>L(m)</math> <math>X</math> (<math>tm</math>) <math>X</math> (<math>tm</math>)</td> <td>No <math>L(m) = \frac{4}{2}</math> No <math>L(m) = \frac{4}{2}</math> <math>M</math> <math>L(m) = \frac{1}{775}</math> <math>M</math> <math>L</math> <math>\frac{1}{775}</math> <math>\frac{1}{755}</math> <math>\frac</math></td> <td>No L(m) Case 4<br/>No L(m) X (tm) X (tm</td> <td>No L(m) Case 4<br/>No L(m) Case 4<br/>No L(m) S (t) S</td> | No L(m) Case 4<br>No L(m) X (tm) S (t) X (tm) X | $ \begin{array}{c} 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 2 \\ 2 \\ 2 \\ 2 \\$ | $ \begin{array}{cccccccccccccccccccccccccccccccccccc$ | $ \begin{array}{cccccccccccccccccccccccccccccccccccc$ | $ \begin{array}{cccccccccccccccccccccccccccccccccccc$ | No $L(m)$ $X$ ( $tm$ ) | No $L(m) = \frac{4}{2}$ No $L(m) = \frac{4}{2}$ $M$ $L(m) = 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|--------|--------|-----------------|------------|----------------------|---------|---------|------------|-----------|----------------------|----------------------------------------------------------------------------|--------|------------|----------------------|--------|---------------------|---------------------|------------------|-----------------------------------------|------------------|--------|----------|----------------|---------|------------|---------------|---------|------------------------------|---------|----------------|--------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|---------------------------------------|------------|------------------|---------|---------|----------------------|--------------------|---------|----------------|---------|----------------|-----------|---------|
| X      | N (t)  | 2224.27         | 2200.82    | -2107.837            | 2107.03 | 2064.04 | 2040.59    | 010       | 010 - 40<br>010 - 40 | 952 40                                                                     | 952 40 | 952.40     | -952.402<br>-952.402 |        | 952.40              | 952.40              | 952.40           | -952.402                                | 952.40           | 932.40 | 952.40   | 2040.59        | 2064.02 | 2107.03    | -2132-434     | 2157.83 | 2200.82                      | 2224.27 |                | 01 0001                                                      | 0 1 - 500 - 1 0 0 - 1 0 0 0 - 1 0 0 0 - 1 0 0 0 - 1 0 0 0 - 1 0 0 0 - 1 0 0 0 - 1 0 0 0 - 1 0 0 0 - 1 0 0 0 - 1 0 0 0 - 1 0 0 0 - 1 0 0 0 - 1 0 0 0 - 1 0 0 0 - 1 0 0 0 - 1 0 0 0 - 1 0 0 0 - 1 0 0 0 - 1 0 0 0 - 1 0 0 0 - 1 0 0 0 - 1 0 0 0 - 1 0 0 0 - 1 0 0 0 - 1 0 0 0 - 1 0 0 0 - 1 0 0 0 - 1 0 0 0 - 1 0 0 0 - 1 0 0 0 - 1 0 0 0 - 1 0 0 0 - 1 0 0 0 - 1 0 0 0 - 1 0 0 0 - 1 0 0 0 - 1 0 0 0 - 1 0 0 0 - 1 0 0 0 - 1 0 0 0 - 1 0 0 0 - 1 0 0 0 - 1 0 0 0 - 1 0 0 0 - 1 0 0 0 - 1 0 0 0 - 1 0 0 0 - 1 0 0 0 - 1 0 0 0 - 1 0 0 0 - 1 0 0 0 - 1 0 0 0 - 1 0 0 0 - 1 0 0 0 - 1 0 0 0 - 1 0 0 0 - 1 0 0 0 - 1 0 0 0 - 1 0 0 0 - 1 0 0 0 - 1 0 0 0 - 1 0 0 0 - 1 0 0 0 - 1 0 0 0 - 1 0 0 0 - 1 0 0 0 - 1 0 0 0 - 1 0 0 0 - 1 0 0 0 - 1 0 0 0 - 1 0 0 0 - 1 0 0 0 - 1 0 0 0 - 1 0 0 0 - 1 0 0 0 - 1 0 0 0 - 1 0 0 0 - 1 0 0 0 - 1 0 0 0 - 1 0 0 0 - 1 0 0 0 - 1 0 0 0 - 1 0 0 0 - 1 0 0 0 - 1 0 0 0 - 1 0 0 0 - 1 0 0 0 - 1 0 0 0 - 1 0 0 0 - 1 0 0 0 - 1 0 0 0 - 1 0 0 0 - 1 0 0 0 - 1 0 0 0 - 1 0 0 0 - 1 0 0 0 - 1 0 0 0 - 1 0 0 0 - 1 0 0 0 - 1 0 0 0 - 1 0 0 0 - 1 0 0 0 - 1 0 0 0 - 1 0 0 0 - 1 0 0 0 - 1 0 0 0 - 1 0 0 0 - 1 0 0 0 - 1 0 0 0 - 1 0 0 0 - 1 0 0 0 - 1 0 0 0 - 1 0 0 0 - 1 0 0 0 - 1 0 0 0 - 1 0 0 0 - 1 0 0 0 - 1 0 0 0 - 1 0 0 0 - 1 0 0 0 - 1 0 0 0 - 1 0 0 0 - 1 0 0 0 - 1 0 0 0 - 1 0 0 0 - 1 0 0 0 - 1 0 0 0 - 1 0 0 0 - 1 0 0 0 - 1 0 0 0 - 1 0 0 0 - 1 0 0 0 - 1 0 0 0 - 1 0 0 0 - 1 0 0 0 - 1 0 0 0 - 1 0 0 0 - 1 0 0 0 - 1 0 0 0 - 1 0 0 0 - 1 0 0 0 - 1 0 0 0 - 1 0 0 0 - 1 0 0 - 1 0 0 - 1 0 0 0 - 1 0 0 - 1 0 0 - 1 0 0 - 1 0 0 - 1 0 0 - 1 0 0 - 1 0 0 - 1 0 0 - 1 0 0 - 1 0 0 - 1 0 0 - 1 0 0 - 1 0 0 - 1 0 0 - 1 0 0 - 1 0 0 - 1 0 0 - 1 0 0 - 1 0 0 - 1 0 0 - 1 0 0 - 1 0 0 - 1 0 0 - 1 0 0 - 1 0 0 - 1 0 0 - 1 0 0 - 1 0 0 - 1 0 0 - 1 0 0 - 1 0 0 - 1 0 0 - 1 0 0 - 1 0 0 - 1 0 0 - 1 0 0 - 1 0 0 - 1 0 0 - 1 0 0 - 1 0 0 - 1 0 0 - 1 0 0 - 1 0 0 - 1 0 0 - 1 0 0 - 1 0 0 - 1 0 0 - 1 0 0 - 1 0 0 - 1 0 0 - 1 0 0 - 1 0 0 - 1 0 0 - 1 0 0 - 1 0 0 - 1 0 0 - 1 0 0 - 1 0 0 - 1 0 0 - 1 0 0 - 1 0 0 - 1 0 0 - 1 0 0 - 1 0 0 - 1 0 0 - 1 0 0 - 1 0 0 - 1 0 0 - 1 0 0 - 1 0 0 - 1 0 0 - 1 | 0201001      | 1089.78                               | 089.78     | 5801             | 02 0001 | 0       | 07.0001<br>30.000 70 | 1089.78            | 1089.78 | -1089.780      | 1089.78 | 4434.50        | -4480.422 | 12,9611 |
| MININU | \$ (t) | 5.78            |            | 014.000<br>92 292    | 250.55  | 09.45   | \$52.40    | 040 50    |                      | 395 51                                                                     | 233 48 | -862.48    | -1926-943            |        | 7.25                | 926.94              | 862.48           | 233.4                                   | 395.51           | 59.97  | 2040.59  | 52.40          | 00.45   | 50.55      | -28.823       | 314.30  | 11.31                        | 089.78  | 10 100         | - 10<br>- 10<br>- 10<br>- 10<br>- 10<br>- 10<br>- 10<br>- 10 | 000 000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 172.43       | 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | 1957.20    | -2263.172        | 71 230  |         |                      |                    | 490.49  | -1612.353      | 224.27  | 00.            | 0.000     | Č.      |
| . X    | M (tm) | 45.26           | 75.19      | 146.523              | 18.81   | 648.52  | 147.34     | 7.34      | 97.17                | 23 35                                                                      | 76.01  | 619 82     | -1535-991            |        | -1535 991           | 14.36               | 19 82            | 76.01                                   | ເດ<br>ເດິ<br>ເດິ | 97.17  | 47.34    | 147.34         | -648.52 | 118.91     | -46.523       | 157.70  | 75.19                        | 1345.26 | 20<br>20<br>20 | 104.07                                                       | - 4 % • 6 • 6 • 6 • 6 • 6 • 6 • 6 • 6 • 6 •                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 065.65       | 738.12                                | -797.777-  | 430.8            | 430.83  | 11 10   | 738.12               | 60 - 50<br>60 - 60 | 962.28  | -194.279       | 345.26  | .00            | 000 00    | Ē.      |
| •      | Case   |                 | ۱          | 0<br> <br> <br> <br> | ń       | 1       | <u>,</u> : | . 1       | 1                    | 1                                                                          | 1      | 1          | 200<br>100           |        | 0<br>1<br>1         | 1                   | j.               | 1                                       | £ -              | r      |          | 1              | 1       | <b>.</b>   | 0<br>1<br>4   | ì       | i.                           | 1       | 1              |                                                              | ŧ                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 1            | 1                                     | С-<br>4    | 1                | i       | - 1     | 1                    | I.                 | i i     | 0.0<br>1<br>4  | 1       | 4              |           | i.      |
| ×.     | N ČEV  | -2224.275       | 2157 83    | 2132.43              | 2107.03 | 2064.04 | 2040.59    | 952.40    | 552.40               | 952.40                                                                     | 952.40 | 952,40     | -952.402             |        | -952.402            | 952.40              | 992-40<br>910-40 | 04.202                                  | 07 - 70A         |        | 04.400   | 2040.59        | 2064.04 | 2107.03    | -2132.434     | 2157.83 | 2200.82                      | 2224.27 | 1089.7         | 1089.78                                                      | 1089.78                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 1089.78      | 1089.78                               | -1089.780  | 1089.78          | 1089.78 | 1089.78 | 1089.78              | 1089.78            | 1089.78 | -1089.780      | 1054-18 | 4434.50        | -4480.422 |         |
| MAXIMU | S (†)  | 1089.780        | 14.30      | 28.82                | 250.55  | 00°     | 952.40     | 040.59    | 50.97                | 395.51                                                                     | 233.48 | 1076 04    | -2217.251            |        | 2217.251            | 10.000<br>000 × 000 |                  | 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 |                  | 20102  | 00·07/00 | 52.4           | 09.45   | 50.55      | -28,82        | 514,30  |                              | 089.18  | 224.27         | 12.35                                                        | 490.49                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 172.42       | 835.34                                | -1957.209  | 2263.17          | 263.17  | 57.20   | 835.34               | 172.42             | 490.49  | -1612.353      |         | 00.            |           |         |
| 2      | W (tm) | 1345-268        | -157.70    | -46.52               | 118.01  | 1040.02 |            | 47.3      | 21-20-               | 00<br>00<br>00<br>00<br>00<br>00<br>00<br>00<br>00<br>00<br>00<br>00<br>00 | 10.01  | 20.210     | 66                   | 00 000 | 188.0001<br>1914 AR | 610 00              | 10.<br>19<br>19  | 22.25                                   |                  |        |          | 47.3           | 648.52  | 118.91     |               |         | ה ה<br>ה<br>ה<br>ה<br>ה<br>ה | 010     | 45.26          | 194.27                                                       | 962.28                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | <u>65.65</u> | 738.12                                | - 797.777  | 430.83           | 430.83  | 97.77   | 738.12               | 65.65              | 962.28  | -194.279       | 04.040  | 000            |           |         |
|        | Case   | 00<br>11<br>414 |            | à.                   |         | r 1     |            | 1         | a È                  | ۰.<br>۱                                                                    | ti i   | ې.4<br>4.4 | . 1                  | ı      |                     | 1                   | ī                | ī                                       | ,                | ı      |          | 0<br>. <br>4 • | ł       | 1          |               |         | 1                            |         | I.             | i.                                                           | н.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | ı.           |                                       | - 4<br>- 4 | 1                | ı       | ī       | 1                    | 2                  | ı       |                | I       | ۰<br>۱         |           | F       |
|        | L (m)  | 0.000           | .70        | က်<br>ကို (          | 20      |         | >.<br>• .  | 8         | 000                  | 2 u<br>- c                                                                 |        | 4.100      | .40                  | 00     | 0.300               | .40                 | 020              | 202                                     | . 80             | 40     |          | 0.000          |         | > u<br>< 0 | $\frac{1}{2}$ | 20      | 2<br>C                       |         | 00.            | . 6.0                                                        | 50                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | ці<br>с      | 8                                     | 4.100      | 0 <del>4</del> . | °0.     | Öe.     | 40                   | 0.0                | ō.2     | 8.800<br>1     | 2<br>r  |                | s <<br>   |         |
|        | No.    |                 | <b>N</b> ] | ლ. უ                 | ส เต    |         |            | (0) -<br> |                      | 1 6                                                                        |        |            |                      |        | ' '<br>*            |                     |                  |                                         | ÷                |        |          | 4<br>1 %       |         |            |               |         |                              |         |                |                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |              |                                       |            |                  |         |         |                      |                    |         | ი დ<br>* I<br> |         | ဖ႕<br>၊ ႏ<br>က |           |         |
| ÷      |        |                 |            |                      |         |         | :          |           | 1                    |                                                                            |        |            |                      |        | 1                   |                     |                  |                                         |                  |        |          |                |         |            |               |         |                              |         |                |                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |              |                                       |            |                  |         |         |                      |                    |         |                |         |                |           |         |

-2224.275 -2200.827 -2157.837 -2157.837 -2132.434 -2107.031 -2064.041 9522.402 9522.402 9552.402 9552.402 9552.402 1.1.1.102 1.1.102 (;;)-2040.592 -2064.041 -2107.031 -2157.837 -2157.837 -2224.275 -1039.780 -1089.780 -1089.780 -1089.780 -1089.780 -1089.780 -1089.780 -1089.780 -1089.780 +1089.780 -1089.780 -1089.780 -1089.780 -1089.780 -1089.780 -1089.780 -1089.780 4434.502 1180.123 2 ≶ þ 1089.780 811.318 314.303 28.823 28.823 -250.556 -709.456 -952.402 2040.592 1459.577 395.516 -233.483 -1926.943 -1926.943 -1926.943 MINIM (1) 2217.251 1926.943 862.483 862.483 233.483 233.483 -395.516 -1459.977 -2040.552 952.402 709.456 250.556 -28.823 -314.503 -811.318 -811.318 2224.278 1612.357 490.450 -172.428 -172.428 -1957.209 -2263.172 2263.172 1957.209 835.347 172.428 172.428 172.428 -1612.353 0.000.0 vs. 3 -1147.342 -97.171 923.350 976.011 619.822 -914.362 -1345.268 -775.198 -157.708 -46.523 -118.916 -648.524 ( tm) -11535.991 -914.362 619.822 976.011 923.350 -1147.342 -1147.342 -648.524 -118.916 -46.523 -46.523 -167.708 -157.708 -1345.268 -194.279 962.285 1065.655 738.128 -777 -1430.835 +1430.833 -757.777 738.128 1065.658 962.285 11.845.285 0.000 z Case 7777777 ৰ ৰ ৰ **731 -54** \*\*\*\* \* \* \* প প প <del>در</del> • -19 H H 5555555 2222222 55555555 55555555 5999999 22222777 565 -2224.275 -2200.827 -2200.827 -2157.837 -2157.837 -2107.031 -2064.041 (£) -1089.780 -1089.780 -1089.780 -1089.780 -1089.780 -1089.780 -1089.780 -1089.780 -2040.592 -2064.041 -2107.031 -2187.031 -2187.837 -2280.827 -1089.780 -1089.780 -1089.780 -1089.780 -1089.780 -1089.780 -1089.780 14434.502 14430.422 11536.348 2 **MAXIMUN** 1089.780 811.318 811.318 314.303 28.823 - 250.556 - 709.456 - 952.402 2217.251 1926.943 862.483 233.483 -395.516 -1459.977 -2040.592 2040.592 1459.977 <u>395.516</u> -233.483 -862.483 -1926.943 (£) 2224,278 1612.353 1612.353 490.490 -172.428 -835.347 -835.347 -1957.209 952.402 709.456 250.556 2314.303 1 - 128.823 - 1314.303 - 8111.318 2263.172 1957.209 835.347 172.428 -490.490 -1612.353 0.000 S • -1345.268 -775.198 -157.708 -167.708 -1646.523 -118.916 -118.916 Ś -1147.342 -97.171 923.350 976.011 619.822 -914.362 -1535.991 -914.362 619.822 976.011 923.350 923.350 147.342 -1147.342 -6487.342 -118.916 -118.916 -157.708 -157.708 (tm) -1345.268 -194.279 962.285 1065.655 738.128 -797.777 -1430.835 -1430.833 -797.777 738.128 1065.655 962.285 -1545.268 0.000 >: Case प प प <del>प फ फ</del> ख 11 11 \*\*\* ব ব ব ব ব -----4444444 59999999 59999999 299999999 2222222 2222222 2222222 225 0.000 0.600 1.700 2.350 4.100 4.700 0.000 0.600 0.600 0.600 0.600 0.600 0.600 0.600 0.600 0.600 0.600 0.600 0.600 0.600 0.600 0.600 0.600 0.600 0.600 0.600 0.600 0.600 0.600 0.600 0.600 0.600 0.600 0.600 0.600 0.600 0.600 0.600 0.600 0.600 0.600 0.600 0.600 0.600 0.600 0.600 0.600 0.600 0.600 0.600 0.600 0.600 0.600 0.600 0.600 0.600 0.600 0.600 0.600 0.600 0.600 0.600 0.600 0.600 0.600 0.600 0.600 0.600 0.600 0.600 0.600 0.600 0.600 0.600 0.600 0.600 0.600 0.600 0.600 0.600 0.600 0.600 0.600 0.600 0.600 0.600 0.600 0.600 0.600 0.600 0.600 0.600 0.600 0.600 0.600 0.600 0.600 0.600 0.600 0.600 0.600 0.600 0.600 0.600 0.600 0.600 0.600 0.600 0.600 0.600 0.600 0.600 0.600 0.600 0.600 0.600 0.600 0.600 0.600 0.600 0.600 0.600 0.600 0.600 0.600 0.600 0.600 0.600 0.600 0.600 0.600 0.600 0.600 0.600 0.600 0.600 0.600 0.600 0.600 0.600 0.600 0.600 0.600 0.600 0.600 0.600 0.600 0.600 0.600 0.600 0.600 0.600 0.600 0.600 0.600 0.600 0.600 0.600 0.600 0.600 0.600 0.600 0.600 0.600 0.600 0.600 0.600 0.600 0.600 0.600 0.600 0.600 0.600 0.600 0.600 0.600 0.600 0.600 0.600 0.600 0.600 0.600 0.600 0.600 0.600 0.600 0.600 0.600 0.600 0.600 0.600 0.600 0.600 0.600 0.600 0.600 0.600 0.600 0.600 0.600 0.600 0.600 0.600 0.600 0.600 0.600 0.600 0.600 0.600 0.600 0.600 0.600 0.600 0.600 0.600 0.600 0.600 0.600 0.600 0.600 0.600 0.600 0.600 0.600 0.600 0.600 0.600 0.600 0.600 0.600 0.600 0.600 0.600 0.600 0.600 0.600 0.600 0.600 0.600 0.600 0.600 0.600 0.600 0.600 0.600 0.600 0.600 0.600 0.600 0.600 0.600 0.600 0.600 0.600 0.600 0.600 0.600 0.600 0.600 0.600 0.600 0.600 0.600 0.600 0.600 0.600 0.600 0.600 0.600 0.600 0.600 0.600 0.600 0.6000 0.6000 0.6000 0.6000 0.6000 0.6000 0.6000 0.6000 0.6000 0.6000 0.6000 0.6000 0.6000 0.6000 0.6000 0.6000 0.6000 0.6000 0.6000 0.6000 0.6000 0.6000 0 ŝ 0.000 0.500 2.050 2.400 5.800 5.400 1.700 3.000 4.100 0.600 2.350 3.000 4.100 0.000 0.300 0.300 2.700 2.700 3.800 4.400 0.000 0.000 2.550 4.770 0.000 -1 ~~~~~~ Ö

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PICK-UP No. 1

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|---------------------------------------|-------------|------------|------------------------------|------------------|-------------------------------|----------|------------------|--------|-------------|-------------------------|----------------------|---------------------------------------------------------------------------------|-----------|--------------|------------|---------------------------------------------------------------------------------------------|-------------------|----------|--------------------------------------------------------------------------------------------------|-------------------------------------------|-------------|----------|---------------|------------------|-------------------|----------------------|-----------------------|----------|------------------------------------------------------------------------------------------------|--------------------|---------------------------------------------------------------------------------------------|----------------------|-------------------|-------------------|-----------------|---------------|-------------------|--------------------------------------------------------------------------------------------------|-----------------------|---------------|----------------|----------------------------------|---|
|                                       | •           |            |                              | 1.11             |                               | •        |                  |        |             |                         |                      |                                                                                 |           |              |            | ÷                                                                                           |                   |          | :                                                                                                | •                                         | . •         |          |               |                  |                   |                      |                       |          |                                                                                                |                    |                                                                                             |                      |                   |                   |                 |               |                   |                                                                                                  |                       |               |                |                                  |   |
|                                       |             |            |                              | 5 1<br>671       |                               |          |                  |        |             |                         | . 44<br>12 .         |                                                                                 | j e.      | •            | • •<br>• • | :                                                                                           | -<br>             |          |                                                                                                  |                                           |             |          |               |                  |                   |                      |                       |          | • .                                                                                            |                    |                                                                                             |                      |                   |                   |                 |               |                   |                                                                                                  |                       |               |                |                                  |   |
| . : .                                 | (f)<br>N    | 70 70      | 00.82                        | 57.83            | 87 - 79<br>94 - 79<br>94 - 79 |          | 10.4<br>10.4     |        | 52.40       | 0 4 - 0<br>4 - 1<br>1 1 | 0 C 4 4              | 10<br>10<br>10<br>10<br>10<br>10<br>10<br>10<br>10<br>10<br>10<br>10<br>10<br>1 | 52.402    | 52.40        |            | 1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1 | 10                | 2.40     | 52.402                                                                                           | 2.40                                      | 2 40        | 0.59     |               | 7.03             | 2.43              | 7.83                 | 00.827<br>34 275      |          | 9.78                                                                                           | 9.78               | 82.0<br>10.7                                                                                | 0.00<br>- 10<br>- 10 | 89.780            | 0.70<br>0.70      | 9.73            | 5 - 7 8<br>   | 2 0<br>- L<br>- D | 0<br>2<br>2<br>2<br>3<br>2<br>3<br>3<br>3<br>3<br>3<br>3<br>3<br>3<br>3<br>3<br>3<br>3<br>3<br>3 | 6.780                 | 0.            | 4.50           | 0, 135<br>9 135                  |   |
| >                                     |             | e e        | 101                          | èt i             | \$1.6                         | 10       | 1 01             |        | 60 (<br>    | 5                       | ጉር<br>1              |                                                                                 | 1         | - 6          | ¢          | n c                                                                                         | γų                | <b>o</b> | 0                                                                                                | 6                                         | CD .        | 20       | 202           | 21               | 5                 | 27                   | 0100                  | 4        | 2                                                                                              | Ő,                 |                                                                                             | ŠÕ                   | -108              | õ                 | 0               | 0;            |                   | 20                                                                                               | -108                  | Ó.            | •1             | 00 00<br>11 10<br>11 10<br>11 11 | 2 |
| , v<br>1 V                            | (t)         | 9.78       | 1.31                         | 000              |                               |          | 14               | . (    | 0.59        | ה ה<br>ה ת              |                      | 2 4 0                                                                           | 6.943     | 7.25         |            | )<br>)<br>)                                                                                 | 4 cC              | 100      | 5.510                                                                                            | 1.6                                       | 5           | 2.40     | 0.10          | 0.55             | 8.82              | 4.30                 | 1.318                 |          | .27                                                                                            | 10 0               | 500                                                                                         | 1 9<br>1 03          | 7.209             | 2.1               |                 | )<br> <br>    | 3 7<br>4 C        | .49                                                                                              | 2.353                 |               | •              | 000.<br>000.                     | • |
| I<br>X                                | . <b>.</b>  | 0          | 80                           | ຕິ<br>ເ          | \$                            | 11       | 9<br>5<br>-<br>- |        |             | 4.0                     | 30                   | ίœ                                                                              | -192      | <b>C1</b>    | ୍          |                                                                                             | 00                |          | -39                                                                                              |                                           | Э<br>N      | - 10     | $\circ$       | ιo               | 01                | ດ<br>ເອ              | 101                   | 2        | 2                                                                                              | 61                 | ひじ<br>マー                                                                                    | 33,4                 | 1 1 2 2 1         | 23.0              | ωı              | ი<br>ი<br>ი   | った                | - の<br>- ヤ                                                                                       | -1613                 | 222           | 0              | с с                              |   |
| ~                                     | (tm)        | .26        | 5,198                        |                  | n o                           | ц<br>С   | 6<br>4           | ç      | すじ          | - U<br>- U              | 20                   | \$23                                                                            | 362       | .99          | 0          | 9.0                                                                                         | . 82              | 0        | 350                                                                                              |                                           | 1           | 34       | 55            | 16,              | 512               | Ó                    | 198                   | •        | 26                                                                                             | 23                 | юн<br>N С                                                                                   | 2 C4                 | 777.              | 20                | 1 00            |               | 4 IO<br>4 IO      | 300                                                                                              | .279                  | é<br>N        | 00             |                                  |   |
| •                                     | ×           | ି ଫ<br>ମ   | 117-                         |                  | 3°                            | 19       | . 13             |        | ч с         | n c                     | 1.0                  |                                                                                 | -914      | 60           | 00<br>10   | اشم (                                                                                       | 1 1-1-1           | 5        | 000                                                                                              | o, ۲                                      | đi –        | 4        | 4             | н<br>Н           | 4                 |                      | -1345                 | 7        | 10                                                                                             | *<br>6 -           | N IC<br>D C                                                                                 | 1380                 | 262-              | 0 2 7<br>7 7<br>7 | 0100            | - 0           | o<br>v<br>o<br>v  | 962                                                                                              | 910<br>10<br>10       | ດ<br>17<br>ເງ | 00             | o c                              |   |
|                                       | Case        | ł:         | 1<br>1<br>0                  | 1                | -1                            | ī        | • 1              | . 1    | -           | I.                      |                      | 4                                                                               | Ч<br>Т    | , È          | 4          | . i                                                                                         |                   | 1        | 4                                                                                                | i i                                       |             | 1        | 1             | ĥ.               | i.                | í.                   | प <del>प</del><br>। । |          |                                                                                                |                    |                                                                                             |                      | • <del>ال</del> ه |                   |                 |               | ÷                 |                                                                                                  | - TT<br>-             |               |                | т.<br>т.                         | • |
|                                       | <b>)</b>    | Ŭ          |                              |                  |                               | J        | v                |        |             |                         | . U                  |                                                                                 | Ó         |              | U          | U                                                                                           |                   | 0        | O (                                                                                              |                                           | <b>,</b>    | 0        | 0             |                  |                   | 0.0                  | 50                    | <b>)</b> | 0                                                                                              | 00                 | <u>י</u> ני                                                                                 | 00                   | U C               | ر                 | υι              |               |                   |                                                                                                  |                       |               |                | ن ن<br>در                        |   |
|                                       | N (t)       | 4.27       | 00.827                       | 0.00             | 7.03                          | 4.04     | 0.59             | 2.40   | ) (<br>  1  | 0<br>7<br>7<br>7        | 2.40                 | 2.40                                                                            | 52.402    | 2 40         | 2.40       | 2.40                                                                                        | 2.40              | 2.40     | 102                                                                                              | 0<br>4<br>0<br>4<br>0<br>4<br>0<br>7<br>0 | ><br>•<br>• | 0.59     | 4.04          | 03<br>2          |                   | 200                  | 4.275                 | ,        | 5.78<br>5.78                                                                                   | 9.7.0<br>7.0       | 0 6<br>0 6                                                                                  | 9.78                 | 9.780<br>0.780    | 00                | 9.780           | ο α<br>       |                   | .78                                                                                              | ແດ<br>ເຈັ             |               |                | 51.6                             |   |
| ž                                     |             | 19         | - 50<br>- 15<br>- 15<br>- 15 | 15               | 3                             | 02       | 20               | ្តច    | ) C         | <b>ა</b> თ              | G                    | Q.                                                                              | ភ្        | o            | ഗ          | σ                                                                                           | G)                | 5        | 9<br>9<br>1<br>1                                                                                 | πσ                                        | 5           | 20       | 0             |                  | 55                |                      | 1222                  |          | 2                                                                                              |                    | 20                                                                                          | 201                  | 108               | <b>&gt;</b> -     | -108            | 20            | 201               | 2                                                                                                | $\circ \circ$         | 2             | ကဖ             | 0 01<br>2 10<br>2 17             |   |
| n N I .                               | (1)         | . 78       | 1.318                        | 2 00             | 01<br>10                      | .45      | 4                | 56     | 50          | 5.                      | .48                  | 48                                                                              | 6.943     | 2            |            | ġ,                                                                                          | 17-<br>100        | 4        | 010                                                                                              | - 0<br>n 10                               |             | . 40     | 101           | ດ<br>ດີ<br>ເ     | ×1 (              |                      | . 780                 |          | 510                                                                                            | 007<br>007         | 1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1 | 34.                  | .209              | -                 |                 | ) 1<br>  (1)  | 4                 | . 49                                                                                             | 0.0                   | •             | 000.           |                                  |   |
| MAX                                   | S           | 80         | 11 F<br>80 F                 | 1 C)<br>2        | 0<br>0                        | 70       | ເດ<br>ເວ         | 204    | ()<br>1     | 60                      | 23                   | 86                                                                              | 00000     | -1<br>N<br>N | 2          | <b>C</b> 1                                                                                  | S                 | ເລ<br>ເວ | 1<br>1<br>1<br>2<br>1<br>2<br>1<br>2<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1 | 4 C                                       | •<br>><br>1 | 10       | O i           | n c              | 9 r<br>1 c        | 1 0                  | -1089                 |          | 20                                                                                             |                    | 1 m                                                                                         | 83                   | -1957             | 5<br>3<br>1       | 2263            | )<br>()<br>() | 1                 | -49                                                                                              | -10                   | 1<br>1        | 00             | )C                               |   |
| ~                                     | (tm)        | 20         | 198                          | 20               | Ъ,                            | ດາ<br>ເວ | 3                | 342    | 171         | 350                     | ы                    | 82                                                                              | 362       | ת<br>ת       | 66         | မ<br>ဗိ                                                                                     | 50                |          | 000                                                                                              | 4                                         |             | 40       | ດ) ;<br>ເດີ ( | ic<br>ກັບ        | いてい               | > c                  | 208                   |          | 300                                                                                            | 20 - 10<br>20 - 10 | ) (G<br>1 (G                                                                                | 2                    | 777<br>835        | 2                 | 835             | 2             | 0                 | ର୍ଷ<br>ତା / ଚ                                                                                    | 5 U<br>01 0           | >             | 000            | > <                              |   |
|                                       | 79.         | 101        |                              | 40               | 18                            | -648     | 147              | 5      | 16-         | 923                     | 976                  | 619                                                                             | -914      | 000          | 535        | 17<br>- 17                                                                                  | 6 i               | 9 C      | ・<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-                               | 7                                         | · .         | 147      | 00 c<br>11 c  | 2<br>7<br>7<br>7 | 1 F<br>1 C<br>1 C | - 10<br>- 1-<br>- 1- | -1345.                |          | 10 T<br>T<br>T<br>T<br>T<br>T<br>T<br>T<br>T<br>T<br>T<br>T<br>T<br>T<br>T<br>T<br>T<br>T<br>T | 1 C C              | 200                                                                                         | 738                  | -1430.            | 3<br>7<br>1       | -1430.          | 738           | 065               | 962                                                                                              | ידי<br>הירכ           |               | 00             | • •                              |   |
|                                       | ase         | جه به<br>ا | -11<br>                      | -<br>-<br>-<br>- |                               | 5.5      |                  |        | 11.         |                         | ۲ <sup>4</sup>       |                                                                                 | ۱         | 1': ·        |            | ÷                                                                                           |                   |          | 1 I                                                                                              |                                           |             | 4.       |               |                  |                   |                      |                       |          |                                                                                                |                    |                                                                                             |                      | ধ বা              |                   | ন্দ বা          |               |                   |                                                                                                  |                       | e             | -1, -1         |                                  |   |
| · · · · · · · · · · · · · · · · · · · |             | 00         | ງ ບ                          | U<br>U           | <b></b>                       | о (      | ບ<br>            | ပ      | ບ<br>]<br>ເ | U<br>S                  |                      | U (                                                                             |           | -            | <b>U</b>   | ပ (<br>(၂)                                                                                  | ບ ເ               | υ        |                                                                                                  | i O                                       | : .         | U C      | e de<br>List  | ່                | ) С               | ο Ο<br>Γ             | Ŭ                     | · .      | o c                                                                                            | 00                 | о<br>О                                                                                      | 0                    | 56                | F.                | ას<br>იი        | U             | 0                 | U C                                                                                              | ບເ                    |               | 00             | ) Č                              |   |
| 1 A                                   | С<br>С<br>П | 0.00       | 202                          | .35              | 00                            |          | 5                | 00.    | .60         | 220                     | 0000<br>0000<br>0000 | 3                                                                               |           | ><br>F       | 00         |                                                                                             | 4<br>4<br>0<br>10 |          | s o<br>o<br>o                                                                                    | 40                                        |             | 00000    | 500           | > v<br>- c,      |                   |                      | .70                   |          | 000                                                                                            | 20                 | 10<br>10<br>10                                                                              | 8.                   | 4.400             |                   | 0.000           | 077.          | 0.05              | 02.0                                                                                             | 0<br>7<br>0<br>7<br>0 |               | 0.000<br>2.350 | ) C<br>  I -<br>  -              | - |
|                                       | No          | c) -       | - C)                         | ŝ                | τ <b>τ</b> ι                  | 0 -      | -                | (C)    |             | ର <u>ା</u> (            | m                    | 4" LI                                                                           | 0.0       | :<br>•       | 'ব' ।      | -                                                                                           | N 0               | ה נ<br>י | ' 10                                                                                             | ເว                                        |             | ιń -     | -1 E          | 1 02             | • 4               | Ω۰                   | ず                     | ç        | 0                                                                                              | 101                | ი                                                                                           | <b>ማ</b> ሀ           | o 10              |                   | r-4 <i>7-</i> 4 | 01            | ი .               | ታ ሀ                                                                                              | ით                    |               | ⊢<br>Ω         | ¢.                               |   |
|                                       | · ·         | । ×<br>⊷   |                              | *                | * *                           |          | 1<br>V1          | 1<br>0 |             | ×.                      |                      | x y                                                                             | 6 I<br>63 | . :          |            | * 3                                                                                         |                   | ÷ x      | *                                                                                                | ।<br>च                                    |             | । ३<br>খ | 6 3           | ×                | *                 |                      | n<br>IO               | L        | i *                                                                                            | *                  | *                                                                                           | æ )                  | ، ہ<br>9          |                   | * ۱<br>دو       | *             | *                 | * •                                                                                              | ڊ ا<br>               |               | א א<br>מי      | i<br>c                           |   |
| •                                     |             | •          |                              | •                |                               |          |                  |        |             |                         | <br>                 |                                                                                 | -<br>     |              |            |                                                                                             |                   |          | •                                                                                                |                                           |             |          |               |                  |                   |                      |                       |          | 7                                                                                              |                    |                                                                                             |                      |                   |                   |                 |               |                   |                                                                                                  |                       |               |                |                                  |   |
| •                                     |             |            |                              |                  |                               |          |                  |        |             | •                       |                      |                                                                                 |           | •            |            | •                                                                                           |                   |          |                                                                                                  |                                           |             |          |               |                  |                   |                      |                       |          | 1                                                                                              |                    |                                                                                             |                      |                   |                   |                 |               |                   |                                                                                                  |                       |               |                |                                  |   |

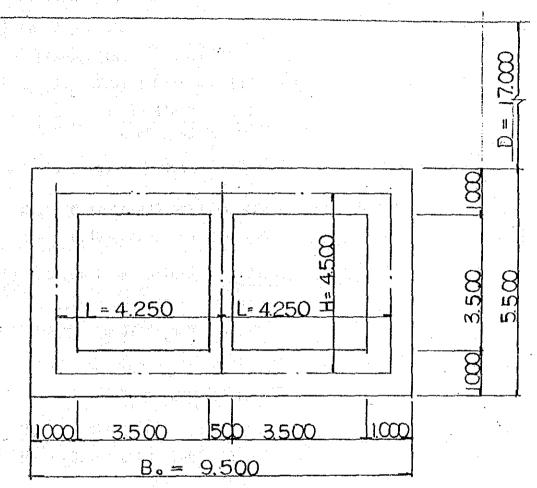
2-87 s

INAGE-NO5

BOX FOR

FICK-UP No. 1 \*

# NO S BOXCULVERT FOR DRAINAGE I) Shape and Size



where --- D<sup>m</sup> = depth of asphalt and similar surface soil

2) Factor of section

 $A = 1.00 \times 1.00 = 1.0000 \text{ m}^2$   $I = \frac{1.00^4}{12} = 0.08333 \text{ m}^4$   $A = 1.00 \times 0.50 = 0.5 000^{\text{m}^2}$   $I = \frac{1.00 \times 0.50^3}{12} = 0.01041^{\text{m}^4}$   $E_C = 2.5 \text{ KN/mm^2} = 2.5 \times 10^7 \text{ KN/m^2}$ 

#### No. (5) BOX CULVERT FOR DRAINAGE (D=17.0)

1. calculation for bending moment (U.L.S)  $b = 100^{\circ m}$  h = 100d = 93.5d' = 6.5section 1) For upper slab Mu.min =  $-620.6^{KNM}$ a) intersection point@=@ $A_s = Y_{20} - 150^{c+c} = 3.142/0.15 = 20.95 \text{ cm}^2$  $X = \frac{0.87 \times 41000 \times 20.95}{0.40 \times 2500 \times 100} \approx 9.4^{cm}$  $Z = 93.5 - \frac{9.4}{2} = 88.8^{cm} = 0.95 \times 93.5 = 88.8^{cm}$  OK  $M_{Rs} = 0.87 \times 41000 \times 20.95 \times 88.8 \times 10^{-5} = 657.2^{KNm} > Mu = 620.6^{KNm}$  $M_{RC} = 0.40 \times 2500 \times 100 \times 9.4 \times 88.8 \times 10^{-5} = 834.7^{KNm} > Mu = 620.6^{KNm}$ 0K b) intersection point  $\Im$  Mu.min = -913.8<sup>KNm</sup>  $A_s = Y_{25} - 150^{c+c} = 4.909/0.15 = 32.73 \text{ cm}^2$  $X = \frac{0.87 \times 41000 \times 32.73}{0.40 \times 2500 \times 100} \doteq 11.8^{m}$  $Z = 93.5 - \frac{11.8}{2} = 87.6^{cm} < 0.95 \times 93.5 = 88.8^{cm}$ 0K  $M_{RS} = 0.87 \times 41000 \times 32.73 \times 87.6 \times 10^{-5} = 1022.7^{KNm} > Mu = 913.8^{KNm}$  $M_{RC} = 0.40 \times 2500 \times 100 \times 11.8 \times 87.6 \times 10^{-5} = 1033.6^{KNm} > Mu = 913.8^{KNm} OK$ c) middle point ②~③=③~④ Mu.max=518.8<sup>KNm</sup>  $A_s = Y_{20} - 150^{ctc} = 20.95 \text{ cm}^2$  $M_R = 657.2^{KNm} > Mu = 518.8^{KNm}$ Where ... MR : From calculation of point@ 2) For bottom slab a) intersection point (5, (1) Mu.min =  $-774.7^{KNm}$  $A_{s} = \left(\begin{array}{c} Y_{2s} - 300^{ctc} = 4.909/0.30\\ Y_{2o} - 300^{ctc} = 3.142/0.30 \end{array}\right) = 26.83 \text{ cm}^{2}$  $X = \frac{0.87 \times 41000 \times 26.83}{0.40 \times 2500 \times 100} = 9.6^{\text{cm}}$  $Z = 93.5 - \frac{9.6}{2} = 88.7^{cm} < 0.95 \times 93.5 = 88.8^{cm}$  $M_{RS} = 0.87 \times 41000 \times 26.83 \times 88.7 \times 10^{-5} = 848.8^{KNm} > Mu = 774.7^{KNm}$  $M_{Rc} = 0.40 \times 2500 \times 100 \times 9.6 \times 88.7 \times 10^{-5} = 831.5^{KNm} > Mu = 774.7^{KNm}$  OK a la para de la come

b) intersection point  $\bigcirc$  Mu.min =  $-834.3^{KNm}$  $A_s = Y_{25} - 150^{\circ t \circ} = 4.909/0.15 = 32.73 \text{ cm}^2$  $X = \frac{0.87 \times 41000 \times 32.73}{0.40 \times 2500 \times 100} = 11.6 \text{ m}$  $Z = 93.5 - \frac{11.6}{2} = 87.7^{\circ m} < 0.95 \times 93.5 = 88.8^{\circ m}$  $\dot{M}_{RS} = 0.87 \times 41000 \times 32.73 \times 87.7 \times 10^{-5} = 1023.9^{KNm} > Mu = 834.3^{KNm}$  $M_{RC} = 0.40 \times 2500 \times 100 \times 11.6 \times 87.7 \times 10^{-5} = 1017.3^{KNm} > Mu = 834.3^{KNm} OK$ c) intersection point  $6 \sim 6 = 6 \sim 1$ Mu.max = 585.5<sup>KNM</sup>  $A_s = Y_{20} - 150^{c+c} = 20.95 \text{ cm}^2$  $M_R = 657.2^{KNm} > Mu = 585.5^{KNm}$  $(M_R:$  From calculation of point(2), (4) 2. calculation for shearing force (U.L.S) h = 100 d = 93.5b=100<sup>cm</sup> d' = 6.5section 1) For upper slab a) intersection point③ Su. max =  $630.0^{KN}$  $A_s = Y_{25} - 150^{ctc} = 32.73 \text{ cm}^2$  $P = \frac{32.73}{100 \times 93.5} \times 100 = 0.350 \%$  $V_{\rm C} = \frac{630.0 \times 10^3}{100 \times 93.5} = 67.4 \text{ N/cm}^2$  $< V_{ca} = \left\{ 35.0 + \frac{15}{0.25} (0.350 - 0.25) \right\} \times \frac{2d}{d} = 82.0 \text{ N/cm}^2$ 0K Su.max = 348.2<sup>KN</sup> b) intersection point@=④ $A_s = Y_{20} - 150^{ctc} = 3.0406/0.150 = 20.95 \text{ cm}^2$  $P = \frac{20.95}{100 \times 93.5} = 0.224 \%$  $V_{C} = \frac{348.2 \times 10^{3}}{100 \times 93.5} = 37.2 \text{ N/cm}^{2}$  $< V_{ca} = \left\{ 35.0 + \frac{0.224}{0.250} \right\} \times \frac{2d}{d} = 62.7 \text{ N/cm}^2$ 2) For bottom slab Su, max =  $617.1^{KN}$ a) intersection point©  $V_{C} = \frac{617.1 \times 10^{3}}{100 \times 93.5} = 66.0 \text{ N/cm}^{2} < V_{Ca} = 82.0 \text{ N/cm}^{2}$ 

Where… Vca: From calculation of point③

b) intersection point(5)=(1) Su. max = 434. 4<sup>KN</sup>  

$$A_{s} = \begin{pmatrix} Y_{25} - 300^{\circ t \circ} = \\ Y_{20} - 300^{\circ t \circ} = \end{pmatrix} = 26.83 \text{ cm}^{2}$$

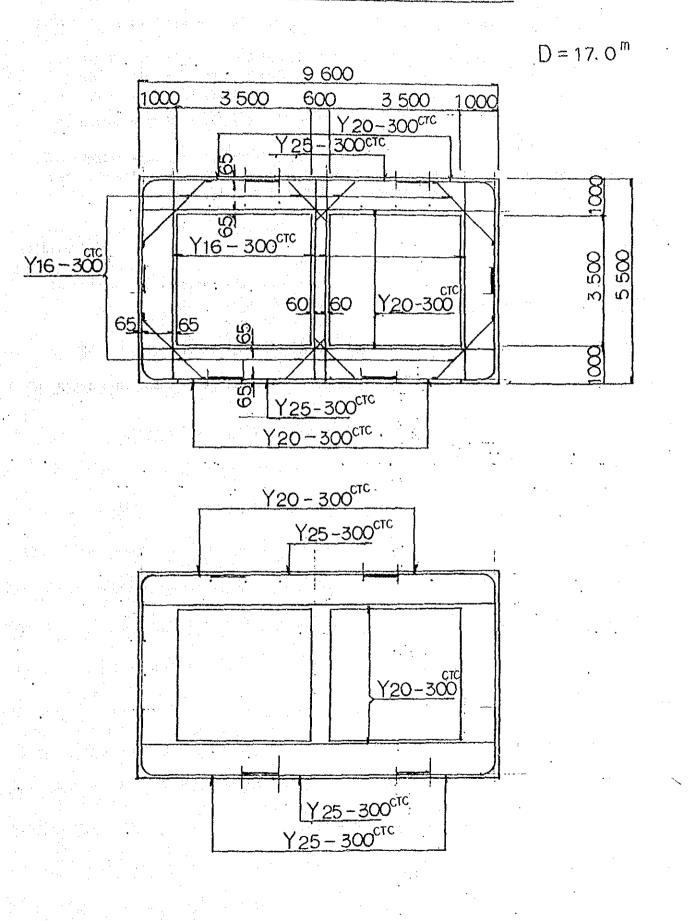
$$P = \frac{26.83}{100 \times 93.5} = 0.287 \%$$

$$V_{c} = \frac{434.4 \times 10^{3}}{100 \times 93.5} = 46.5 \text{ N/cm}^{2}$$

$$< V_{ca} = \begin{cases} 35.0 + \frac{15}{0.25}(0.287 - 0.25) \end{cases} \} \times \frac{2d}{d} = 74.4 \text{ N/cm}^{2}$$

 $\frac{1}{2} = \frac{1}{2} = \frac{1}$ 

### NOB BOX CULVERT FOR DRAINAGE



### Load (1)Dead load

| ۰.  | a)Vertical load W | here a | z = 1.2          | {earth p         | ressure                 | factor of          | vertical} |    | D<br>Bo | = <sup>1<u>7</u><br/>9</sup> | $\frac{.00}{.50} = 1$ | $\frac{8}{2} > 1$ |  |
|-----|-------------------|--------|------------------|------------------|-------------------------|--------------------|-----------|----|---------|------------------------------|-----------------------|-------------------|--|
|     | For upper slab    | ¥1 = 2 | 22.6×0.          | 50+17.5          | $5 \times 16.5 \times$  | 1.2+23.60          | ×1.00     | Ħ  | 381.    | 400                          | kN∕m                  |                   |  |
|     | For side wall     | w2 =   | $23.6 \times 1.$ | 00               |                         |                    |           | ×  | 23.     | 600                          | "                     |                   |  |
|     | For center wall   |        |                  |                  |                         |                    |           | Ħ  | 11.     | 800                          | "                     |                   |  |
| • • | For bottom slab   | ₩3 = : | 881.400          | + (2 <u>×2</u> ; | <u>8.600+11.</u><br>8.5 | 800) × 4.50        |           | 11 | 412.    | 635                          |                       |                   |  |
|     | b)Horizontal load | (      | earth pr         | essure           |                         | •                  |           |    |         |                              |                       |                   |  |
|     | For side wall     |        |                  |                  | 50×17.0                 | )0)×0.500          |           | =  | 154.    | 400                          | kN⁄m                  |                   |  |
|     |                   | P2 = ( | $(22.6\times0)$  | .50+17.          | 50×21.5                 | $50) \times 0.500$ |           | ×  | 193.    | 775                          |                       |                   |  |

#### (2)Live load

or live load surcharge of a vihicle

$$go = \frac{40 \times 30}{3.50 \times 10.0} \doteq 34.300 \text{ kN/m}$$

For upper slab and bottom slab

P1 = P2 = 34.300 KN/m

DIMENSION(KN)INTO THIS CALCULATION NOTE: THE DIMENSIONCLUBE EXCHANG TO

|                  | EPS         | .00E-0              | 0-1000.    | 008-0              | 1.00E+05  | )<br> <br> <br>  |           | 1.                                                                              | • | L+N0<br>9<br>19<br>20                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|------------------|-------------|---------------------|------------|--------------------|-----------|------------------|-----------|---------------------------------------------------------------------------------|---|--------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| · <sup>·</sup> . | E (t/m2)    | .50E+0              | 0+2000-    | 0+000              | 2.50E+07  | ,<br>]<br>1<br>1 |           | : ·<br>:                                                                        |   | L+No L-No<br>7 8<br>17 18                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|                  | L (m)       | - 10 e              | <u>। ल</u> | 10 C               | 4.200     |                  |           | •                                                                               | · | н<br>1<br>1<br>6<br>6<br>1<br>1<br>6<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| •                | 1<br>1      | יין יין<br>אא<br>אא | . E .      | IX - FI<br>IX - FI | Fix - Fix |                  | M(tm/Rad) | 00<br>20<br>20<br>20<br>20<br>20<br>20<br>20<br>20<br>20<br>20<br>20<br>20<br>2 |   | 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4                                                            | 0<br>4.000<br>4.000<br>4.000<br>3.750<br>0<br>3.750<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|                  | í (m4)      | .08333              | .08333     | .083333            | 0.083330  |                  | ( (t/m)   | FIX<br>XIT                                                                      |   | L-No<br>14<br>13<br>14<br>13                                                                     | 2:250 3.10<br>2:250 3.10<br>2:250 3.10<br>2:250 3.10<br>2:250 3.10<br>2:250 3.10<br>2:850 3.10                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|                  | A (m2)      | 00000               | .00000     | 00000              |           |                  | Ê         | ×υ                                                                              |   | L+N0<br>- 12                                                                                     | 1.400<br>1.400<br>1.400<br>1.400<br>1.400<br>1.150                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| · ·              | وبر<br>د    | ଳ କ<br>ରା ଓ         | ~1 ~       | 4                  | -0        | ·                | X (t/m)   | Frix<br>Frex                                                                    |   | L-N0<br>11                                                                                       | 0.1200<br>0.1200<br>0.1200<br>0.1200<br>0.1200<br>0.1200<br>0.1200<br>0.1200<br>0.1200<br>0.1200<br>0.1200<br>0.1200<br>0.1200<br>0.1200<br>0.1200<br>0.1200<br>0.1200<br>0.1200<br>0.1200<br>0.1200<br>0.1200<br>0.1200<br>0.1200<br>0.1200<br>0.1200<br>0.1200<br>0.1200<br>0.1200<br>0.1200<br>0.1200<br>0.1200<br>0.1200<br>0.1200<br>0.1200<br>0.1200<br>0.1200<br>0.1200<br>0.1200<br>0.1200<br>0.1200<br>0.1200<br>0.1200<br>0.1200<br>0.1200<br>0.1200<br>0.1200<br>0.1200<br>0.1200<br>0.1200<br>0.1200<br>0.1200<br>0.1200<br>0.1200<br>0.1200<br>0.1200<br>0.1200<br>0.1200<br>0.1200<br>0.1200<br>0.1200<br>0.1200<br>0.1200<br>0.1200<br>0.1200<br>0.1200<br>0.1200<br>0.1200<br>0.1200<br>0.1200<br>0.1200<br>0.1200<br>0.1200<br>0.1200<br>0.1200<br>0.1200<br>0.1200<br>0.1200<br>0.1200<br>0.1200<br>0.1200<br>0.1200<br>0.1200<br>0.1200<br>0.1200<br>0.1200<br>0.1200<br>0.1200<br>0.1200<br>0.1200<br>0.1200<br>0.1200<br>0.1200<br>0.1200<br>0.1200<br>0.1200<br>0.1200<br>0.1200<br>0.1200<br>0.1200<br>0.1200<br>0.1200<br>0.1200<br>0.1200<br>0.1200<br>0.1200<br>0.1200<br>0.1200<br>0.1200<br>0.1200<br>0.1200<br>0.1200<br>0.1200<br>0.1200<br>0.1200<br>0.1200<br>0.1200<br>0.1200<br>0.1200<br>0.1200<br>0.1200<br>0.1200<br>0.1200<br>0.1200<br>0.1200<br>0.1200<br>0.1200<br>0.1200<br>0.1200<br>0.1200<br>0.1200<br>0.1200<br>0.1200<br>0.1200<br>0.1200<br>0.1200<br>0.1200<br>0.1200<br>0.1200<br>0.1200<br>0.1200<br>0.1200<br>0.1200<br>0.1200<br>0.1200<br>0.1200<br>0.120000000000 |
|                  | <b>1</b> -1 | H Q                 |            | r 10 i             |           |                  | 0N        | ы rò                                                                            |   | oN                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|                  | No          | (<br>C)             | (n 4       | 10.                | 5         |                  |           |                                                                                 |   | :                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |

BOX FOR DRAINAGE-NOS' --- Depth = 17,000

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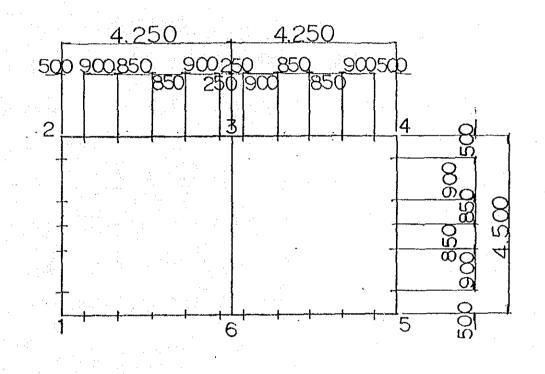
8.5000 8.5000 4.2500

1.5000

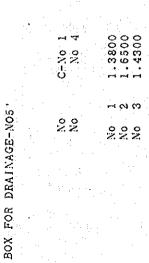
500

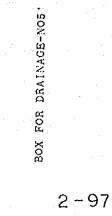
94 2 

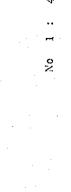
## CALCULATION POINTS OF EACH FORCE



|                          |                                                                                                          |                      |                                 |                 | •            |                                                                                                               |
|--------------------------|----------------------------------------------------------------------------------------------------------|----------------------|---------------------------------|-----------------|--------------|---------------------------------------------------------------------------------------------------------------|
| Pj (t/m)                 | 0 - 20 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0                                                                 |                      | Pj (t/m)<br>154.400<br>-153.775 |                 |              | Pj (t/m)<br>-34.300<br>+34.300<br>34.300<br>34.300                                                            |
| Pi (t/m)                 | 00000000000000000000000000000000000000                                                                   |                      | Pi (1/m)<br>193.775<br>-154.400 |                 |              | Pi (t/m)<br>-34.300<br>-34.300<br>34.300<br>34.300                                                            |
| (m)<br>Lo                | 444444<br>                                                                                               |                      | Lo (m)<br>4.500<br>4.500        |                 | · .          | Lo (m)<br>4 .250<br>4 .250<br>4 .250<br>6 .4 .250<br>6 .250<br>6 .250<br>6 .250<br>7 .250<br>7 .250<br>7 .250 |
| oad<br>Li (m)            | 0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000 | pressure             | Li (m)<br>0.000<br>0.000        | 0.000 (t        | e load-VL-   | Li (m)<br>0.000<br>0.000<br>0.000                                                                             |
| Dead<br>Dead             | жуууууу<br>111111<br>,<br>,<br>,<br>,<br>,<br>,<br>,<br>,<br>,<br>,<br>,<br>,<br>,                       | :: Earth<br>2<br>: : | ××<br>+                         | 비비<br>> 프<br>이징 | BH II ve     | ****<br>* * * *                                                                                               |
| <b>8</b>                 |                                                                                                          | N0                   |                                 |                 | . o <i>N</i> | •                                                                                                             |
|                          | 0 0 7 10 0 H 0                                                                                           | · .                  | S1 10                           |                 |              | <b>0</b> 40-                                                                                                  |
| DRAINAGE-NO5<br>No i -j. |                                                                                                          | •                    |                                 |                 |              | 1 1 1 1 1<br>2 2 1 1 1 1<br>2 2 1 1 1 1 1<br>2 1 1 1 1                                                        |
| R DRAI                   | ようらやる                                                                                                    | •                    | N<br>0 (H 4                     |                 | ,            | 0 00000<br>N                                                                                                  |
| BOX                      |                                                                                                          | •••<br>•<br>•        |                                 |                 | ····•.       | •                                                                                                             |















•

| BOX               | BOX FOR DRAINAGE-NOS                                                                             | AGE-NO5 .                                                           |                                             | - "<br>-<br>-                             | . đ.                                    |                                       |                                                         |                     | * .<br>• .                                             |                                                |     |
|-------------------|--------------------------------------------------------------------------------------------------|---------------------------------------------------------------------|---------------------------------------------|-------------------------------------------|-----------------------------------------|---------------------------------------|---------------------------------------------------------|---------------------|--------------------------------------------------------|------------------------------------------------|-----|
| •<br>• • •<br>• • |                                                                                                  |                                                                     |                                             |                                           |                                         |                                       |                                                         |                     |                                                        | · ·                                            |     |
|                   | No.                                                                                              | Case.<br>RX (t)                                                     | RY (t)                                      | RM (tm)                                   | Case.<br>RX (t)                         | 2<br>RY (t)                           | RM (tm)                                                 | Case<br>RX (t)      | . 3<br>RY (t)                                          | RM (tm)                                        | · . |
|                   | • •<br>• •                                                                                       | 0000.0                                                              | 0.001                                       | 000000000000000000000000000000000000000   | 0.000                                   | 0.000                                 | 0.000                                                   | 000.0               | 0.000                                                  | 00                                             |     |
|                   | No.                                                                                              | Case.<br>RX (t)                                                     | 4 (1) <sup>1</sup> (1) <sup>1</sup>         | RM (tm)                                   |                                         |                                       |                                                         |                     |                                                        |                                                |     |
|                   | r= 10                                                                                            | 0.000                                                               | 0.002                                       | 0.000                                     |                                         |                                       |                                                         |                     |                                                        |                                                |     |
|                   |                                                                                                  |                                                                     |                                             |                                           | · · · · · · · · · · · · · · · · · · ·   |                                       |                                                         |                     |                                                        |                                                |     |
|                   |                                                                                                  |                                                                     |                                             | **:                                       |                                         | · · · · · · · · · · · · · · · · · · · |                                                         | •                   |                                                        |                                                |     |
|                   | •.                                                                                               | •<br>•                                                              |                                             |                                           |                                         |                                       |                                                         |                     |                                                        | • : : •                                        |     |
| BOX               | FOR DRAINAGE-NOS                                                                                 | AGE-NO5 *                                                           | ·                                           |                                           | •                                       |                                       |                                                         |                     |                                                        |                                                | • . |
|                   |                                                                                                  |                                                                     |                                             |                                           |                                         |                                       |                                                         |                     | ·                                                      |                                                |     |
|                   | . No .                                                                                           | Case.<br>X-DIS.(mm)                                                 | 1<br>Y-DIS.(mm) F                           | ROTA.(mmRad)                              | Case.<br>X-DIS.(mm)                     | 2<br>Y-DIS.(mm)                       | ROTA.(mmRad)                                            | Case.<br>X-DIS.(mm) | 3<br>Y-DIS.(mm)                                        | ROTA. (mmRad)                                  |     |
|                   | н<br>И<br>И<br>И<br>И<br>И<br>И<br>И<br>И<br>И<br>И<br>И<br>И<br>И<br>И<br>И<br>И<br>И<br>И<br>И | 0.00000<br>-0.08338<br>-0.04169<br>-0.04169<br>-0.08338<br>-0.08338 | 0.00000                                     | 1 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5   | 0.0000000000000000000000000000000000000 |                                       | 000000<br>000000<br>000000<br>000000<br>000000<br>00000 | 000000              | 0.00000<br>-0.11569<br>-0.33125<br>-0.11569<br>0.00000 | 0.2353<br>0.2353<br>0.0000<br>0.2353<br>0.2353 |     |
|                   | • 0 <i>N</i>                                                                                     |                                                                     | 4<br>Y-DIS.(mm)                             | ROTA. (mmRad)                             | 4<br>0<br>0                             | •                                     |                                                         | 00000               | 0. 23 5 5 6                                            | 0000                                           |     |
|                   | -004                                                                                             | 0.00000<br>-0.19920<br>-1.19831<br>-2.19742                         | 0.00000<br>-2.20857<br>-4.37709<br>-2.20857 | 2.58134<br>-2.01726<br>0.00000<br>2.01726 |                                         |                                       |                                                         |                     |                                                        |                                                |     |
|                   | <br>                                                                                             | -2.39662<br>-1.19831                                                | 0 16                                        | -2.58134<br>0.00000                       | •                                       |                                       | ·                                                       |                     |                                                        |                                                |     |
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| (t) N                    | 1                                                                                               | 000000000000000000000000000000000000000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   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| e load-VL-<br>S (t)      |                                                                                                 | 6 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   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| Case 3 BH live<br>M (tm) |                                                                                                 | - 21<br>- 21<br>- 21<br>- 21<br>- 21<br>- 25<br>- 25 | - 58.398<br>12.648<br>36.005<br>34.580<br>34.580<br>1789                                                                                                 | -21.789<br>-221.789<br>-221.789<br>-221.789<br>-221.789<br>-221.785                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 8008000<br>80080<br>80080<br>80080<br>80080<br>80080<br>80080<br>80080<br>1 1<br>1 1        |                                                                               | 0.000<br>0.000<br>0.000             |
| N (t)                    |                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           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| pressure<br>S (t)        | 400.696<br>3100.696<br>3100.690<br>143.986<br>-7.150<br>-7.150<br>-376.698                      | 868<br>87<br>87<br>87<br>87<br>87<br>87<br>87<br>87<br>87<br>87<br>87<br>87<br>87                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         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    | 376.698<br>298.404<br>151.963<br>7.150<br>-143.986<br>-143.986                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     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| Case 2 Earth<br>M (tm)   | - 193.505<br>189.997<br>189.971<br>247.678<br>- 197.678<br>- 197.678<br>- 192.590<br>- 192.5590 | - 152.456<br>- 152.456<br>- 160.471<br>- 144.623<br>10.355<br>86.785<br>86.785                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            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    | 192.456<br>179.607<br>179.607<br>247.678<br>1847.678<br>184.197<br>193.505                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         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| N (t)                    | -797.057<br>-785.257<br>-785.257<br>-7745.017<br>-7745.957<br>-7723.8957<br>-1702.657           | 00000000<br>4444444<br>00000000<br>000000000<br>000000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    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    | -690.857<br>-702.657<br>-723.897<br>-743.957<br>-7643.957<br>-764.017<br>-795.257                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  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| load S (t)               | 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0                                                           | 690.857<br>500.157<br>156.897<br>167.293<br>- 483<br>- 934.748<br>- 930.093                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               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| 797.056<br>5907.056<br>219.367<br>219.367<br>-131.373<br>-482.112<br>-8533.484              | 956.643<br>853.484<br>482.112<br>131.373<br>-219.367<br>-590.739<br>-797.056  | 0.000                               |
| Case I Dead<br>M (tm)    | -307.378<br>-295.116<br>-295.046<br>-252.202<br>-231.357<br>-231.357<br>-209.287                | -1197.026<br>1097.028<br>396.473<br>391.985<br>391.985<br>-484.796<br>-705.4796                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           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    | -197.026<br>-209.287<br>-231.357<br>-252.202<br>-252.202<br>-295.116<br>-307.378                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   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| C (m)                    | 0.000<br>1.400<br>2.250<br>4.500<br>4.500                                                       | 000000000000000000000000000000000000000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   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    | 0.000<br>0.500<br>7.1250<br>7.1250<br>7.1250<br>7.1250<br>7.000<br>7.000<br>7.000<br>7.000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         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BOX FOR DRAINAGE-NOS !

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| No         L(n)         X (tr)         S (t)         X (tr)           1         0.000         -774.453         704.859         -714147         -1120.706           1         1.000         -734.453         704.859         -714147         -1120.706           1         2.000         -734.453         704.859         -7121417         -1120.706           1         2.000         -734.453         704.859         -7121417         -1120.706           1         2.000         -734.473         -7111         -1120.706         -7111.7117           1         1.100         -1120.706         1113.706         -1120.706         -1120.706           1         1.100         -1121.706         -1120.706         -1120.706         -1120.706           1         1.100         -1120.707         1121.706         -1120.706         -1120.706           1         1.100         -1121.706         -1120.707         -1120.706         -1120.706           1         1.100         -1121.706         -1121.706         -1121.706         -1121.706           1         1.100         -1121.707         -1121.706         -557.711         -1121.706           1         1.100         -1121.707                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                   | 990                  |                     |                    |   |                                       | •      |                   |          |             |
| 1       0.000       -141.483       570.388       -1200.382         1       1       -1000       -141.513       570.488       -1201.362         1       1       -1000       -141.513       570.488       -1201.362         1       1       -1000       -141.513       271.417       -111.513       -150.453         1       1       0.000       -125.456       271.417       -111.51       -150.456         1       1       0.000       -125.456       286.015       -111.51       -150.456         1       1       0.000       -125.456       -267.711       -111.51       -150.751         1       1       0.000       -125.456       -266.771       -267.771       -267.771         1       1       0.000       -115.466       -267.771       -267.771       -267.771         1       1       0.000       -99.771       -267.771       -267.771       -267.771         1       1       0.000       -99.771       -267.771       -267.771       -267.771         1       1       0.000       -99.771       -267.771       -267.771       -267.771         1       1       0.000       -267.771                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | o L(m                                                                                                                                                                                                                                             | 1) W (1              | (t)                 | Ćt.                |   | •.:                                   |        |                   |          |             |
| 1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 2 0.00                                                                                                                                                                                                                                            | -774.62              | 04.88               | 1300.26            |   |                                       | ·<br>· |                   |          | •           |
| 3         3.130         -29.473         -21.473         -21.473           4         4.0000         -39.473         -119.5706         -119.5706           5         4.0000         -50.473         -119.5706         -119.5706           5         4.0000         -50.473         -119.5706         -119.5706           5         3.1000         -50.473         -119.5706         -567.711           5         3.1000         -100.4707         -567.711         -567.711           5         3.1000         1115.4706         -567.711         -567.711           5         3.1000         -1000         -507.711         -567.711           5         3.1000         110.4702         -567.711         -567.711           5         3.1000         110.5706         -567.711         -567.711           5         3.1000         110.500         1101.4764         -567.711           6         0.0000         -1000         -507.711         -567.711           11.1500         110.2000         -1007         -110.72         -567.711           11.1500         100.000         -1007         -110.72         -567.711           11.1500         100.000         -1007                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 2 1.40                                                                                                                                                                                                                                            | -401.84<br>-94.51    | 546 829<br>271 417  | 1253.97<br>1254 66 |   |                                       |        |                   |          |             |
| 1       1.000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 3 2.25                                                                                                                                                                                                                                            | 29.47                | 22.044              | 1226.98            |   | · · · · · · · · · · · · · · · · · · · | <br>   | · · ·             | •••      | •           |
| 1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1 <th>8 3.10<br/>8 3.10</th> <th>- 154 07<br/>- 358 89</th> <th>-216.89</th> <th>1159 30</th> <th></th> <th></th> <th>·</th> <th></th> <th>' :.</th> <th></th>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 8 3.10<br>8 3.10                                                                                                                                                                                                                                  | - 154 07<br>- 358 89 | -216.89             | 1159 30            |   |                                       | ·      |                   | ' :.     |             |
| 1         0.000         1153.706         587.711           1         0.000         111.75         567.01         577.711           1         0.000         111.75         567.711         577.711           1         0.000         111.75         567.711         577.711           1         0.000         111.75         -629.975         567.711           1         0.000         101.175         -629.975         -577.711           1         0.000         -913.707         1129.64         -577.711           1         0.000         -913.707         1129.64         -577.711           1         0.000         -913.707         1129.64         -577.711           1         0.000         -913.707         1129.64         -577.711           1         0.000         -913.707         1291.64         -577.711           1         0.000         -913.705         527.971         -977.711           1         0.000         -913.705         -974.488         -577.111           1         0.000         -774.888         -774.886         -577.112           1         0.000         -774.885         -774.886         -774.886                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | - 1 4.50                                                                                                                                                                                                                                          | -620.60              | -587.71             | 1153 70            |   |                                       | •      | · ·               |          | ·<br>·<br>· |
| 1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | - 3 0 00                                                                                                                                                                                                                                          | -620 GO              | 0 L 6 2 L           | ר<br>נ<br>נ<br>נ   |   |                                       |        | · .<br>.*         |          |             |
| $ \begin{array}{cccccccccccccccccccccccccccccccccccc$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | * 1 0.50                                                                                                                                                                                                                                          | -115.67              | 866.01              | 587.71             |   |                                       |        | . •. <sup>•</sup> |          |             |
| 3       4.1000       -501.772       -501.772       -501.771         1       4.0000       -501.777       -1147.64       -567.711         1       4.0000       -501.777       -1147.64       -567.711         1       4.0000       -501.777       -507.711       -507.711         1       1.010       -501.777       -507.711       -507.711         1       1.010       -501.777       -507.711       -507.711         1       1.010       -501.777       -507.711       -507.711         1       1.010       -501.776       -137.711       -507.711         1       1.010       -501.776       -507.711       -507.711         1       1.010       -501.776       -507.711       -507.711         1       1.010       -501.776       -507.771       -507.771         1       1.050       -501.771       -1153.776       -507.771         1       1.000       -501.771       -1153.776       -507.771         1       1.000       -501.771       -1153.771       -1153.776         1       1.000       -714.423       -1169.705       -507.771         1       1.000       -714.433       -1124.704                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 04.<br>010<br>04.<br>010<br>010                                                                                                                                                                                                                   | 430.70               | 348.17              | 587.71             |   |                                       |        |                   |          |             |
| 5       4.1000       -508.832       -1147.818       -587.711         1       0.000       -913.667       -1291.664       -687.711         2       101.175       1291.664       -687.711         3       2.000       1913.667       -187.78       -687.711         3       2.750       1101.175       652.975       -687.711         3       2.750       1101.175       652.975       -687.711         3       2.750       -140.070       -586.015       -587.711         11       0.000       -771.675       -586.771       -111.7.155.771         12       0.000       -690.607       587.711       -115.677       -586.771         11       0.000       -690.607       587.711       -115.676       -586.771         12       0.000       -99.473       -112.6765       -586.771       -586.771         11       0.000       -79.483       -1165.265       -1165.265       -587.771         12       0.000       -99.473       -70.483       -1185.265       -1165.265         11       0.000       -714.823       -70.483       -1185.265       -1165.265         12       0.000       -744.823       -70.483 <th>* 4 3.10</th> <th>101</th> <th>629.97</th> <th>587.71</th> <th></th> <th></th> <th>· .</th> <th>•</th> <th>3<br/>2 *</th> <th></th>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | * 4 3.10                                                                                                                                                                                                                                          | 101                  | 629.97              | 587.71             |   |                                       | · .    | •                 | 3<br>2 * |             |
| 1       0.000       -913.77       1107.864       -587.771         2       2.250       -901.877       1107.864       -587.771         3       2.250       -100.832       1107.864       -587.771         5       2.250       -101.708       -587.771       -587.771         5       2.000       -101.708       -587.771       -587.771         5       2.000       -105.0708       -100.708       -587.771         5       2.000       -1056.017       -1153.706       -587.711         5       1.0000       -587.711       -1153.706       -587.711         6       0.000       -587.711       -1153.706       -587.711         7       1.100       -587.711       -1153.706       -587.711         7       1.100       -587.711       -1153.706       -587.711         7       1.100       -587.711       -1153.706       -587.711         7       1.100       -586.1167       -1153.706       -587.711         7       1.100       -586.411       -126.467       -1159.200         7       1.100       -586.411       -126.467       -1159.200         7       1.100       -591.417       -126.4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 1 8 4.00<br>4.25                                                                                                                                                                                                                                  | -608.83              | -1147.81            | 587.71             |   | · · · · · · · · · · · · · · · · · · · |        |                   | •        |             |
| 1     1     0.000     1147.816     1147.816     1147.816       2     3     4.250     1147.816     1147.816     1147.816       3     4.250     1147.816     1149.907     1147.816     1587.711       5     3     4.250     1147.816     1147.816     1587.711       5     5     5     5     5     5     5       5     6     5     5     5     5     5       5     6     5     5     5     5     5       5     6     5     5     5     5     5       7     1155.706     -557.711     1155.706     5     5       7     1155.706     -557.711     1155.706     5     5       5     10.000     -751.538     5     5     5     5       5     10.000     -741.55     -1155.706     5     5     5       5     10.000     -741.717     1155.706     5     5     5       6     0.000     -741.85     -1155.706     5     5     5       7     10.000     -741.85     -704.859     -704.859     1130.205       7     11.100     -704.859     -704.859     -704.8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                   |                      |                     |                    |   |                                       |        |                   |          |             |
| 3       2.0000       587.711       -587.711         3       3.0000       -615.007       -1155.705       -587.711         1       3.0000       -615.007       -1155.705       -587.711         1       0.0000       -615.007       -1155.705       -587.711         1       0.0000       -88.771       -1155.705       -587.711         1       0.0000       -88.771       -1155.705       -587.711         1       0.0000       -88.771       -1155.906       -587.711         1       0.0000       -88.771       -1155.906       -587.711         1       0.0000       -794.670       -887.711       -1155.906         2       1.1000       -1140       -1155.900       -587.711         1       0.000       -794.670       -794.670       -587.711         1       0.000       -794.670       -794.680       -1155.900         1       1       -1155.900       -794.667       -1155.900         1       1       -10000       -774.885       -11265.900         1       1       -10000       -774.885       -774.885         1       1       -100000       -774.885       -774.885                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | * * 0.00<br>* 1 0.00                                                                                                                                                                                                                              | -913.76<br>-608 83   | 291.66<br>147 01    | 587.71             |   |                                       |        |                   |          |             |
| 3       2.000       5.8.798       140.0708       5.877711         3       4.230       -115.776       -5877711         1       3.770       -115.776       -5877711         1       4.230       -620.607       -1155.776       -5877711         1       0.000       -620.607       -1155.776       -5877711         1       1.200       -540.607       587.711       -1155.706       -587.711         1       0.000       -620.607       581.877       -587.711       -1155.901         1       1.400       -541.617       -1155.901       -587.711       -1155.901         1       0.000       -541.617       -1155.635       -11165.901       -587.711         1       1.400       -541.617       -11165.901       -587.711       -11155.901         1       1.900       -744.835       -1165.901       -11165.901       -11165.901         1       1.100       -774.839       -1204.861       -774.889       -774.889         1       1.100       -774.889       -774.889       -774.889       -774.889         1       1.1167.681       -774.889       -774.889       -774.889       -774.889         1       1.1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 3                                                                                                                                                                                                                                                 | 191.17               | 629.97              | 587.71             |   |                                       |        |                   |          |             |
| 3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 3 2.00                                                                                                                                                                                                                                            | 518.79               | 140.90              | 587.71             |   |                                       |        |                   |          |             |
| 5       0.000       -587.711         6       0.000       -587.711         7       11400       -583.535         7       11400       -583.535         7       11400       -544.073         7       2155.705       -544.073         7       2155.705       -544.073         7       214.000       -544.073         7       214.000       -774.853         7       44.500       -704.853         7       44.500       -774.853         7       44.500       -774.853         7       -774.853       1700.262         7       144.7       -774.853         7       144.7       -774.853         10.500       -774.853       1700.262         11.500       234.611       -774.853         11.500       234.611       -774.853         11.500       234.611       -774.853         11.500       234.611       -774.853         11.500       234.611       -774.853         11.500       234.611       -774.853         11.500       234.611       -774.853         11.500       234.611       -774.853                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 4 u<br>0 u<br>0 u                                                                                                                                                                                                                                 | 430.70               | 348.17              | 587 71             |   |                                       |        |                   |          |             |
| 5       0.000       -358.877       1155.706         5       4.500       -358.877       458.526       -1155.900         5       4.510       -29.473       -22.044       -1155.900         5       3.100       -91.473       -22.044       -1155.900         5       4.500       -774.52       -125.044       -1155.900         774.53       -72.044       -125.657       -125.657       -125.657         1       4.500       -774.52       1300.260       -774.53       -125.657         1       0.000       -774.52       1300.260       -704.889       -704.889       -704.889         1       0.500       -201.834       991.017       -704.889       -704.889       -704.889         1       0.500       -774.623       1300.260       -704.889       -704.889       -704.889         1       0.500       -201.804       991.017       -704.889       -704.889       -704.889         1       0.500       -531.451       -1704.889       -774.839       -704.889       -704.889         1       0.500       -531.451       -1704.889       -774.839       -774.839       -774.839         1       0.531.451       -1704.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 2<br>2<br>2<br>3<br>4<br>3<br>4<br>3<br>4<br>3<br>4<br>3<br>4<br>3<br>4<br>3<br>4<br>3<br>5<br>4<br>3<br>5<br>7<br>4<br>3<br>5<br>7<br>6<br>1<br>3<br>7<br>4<br>3<br>7<br>7<br>7<br>7<br>7<br>7<br>7<br>7<br>7<br>7<br>7<br>7<br>7<br>7<br>7<br>7 | -112.01              | 1153.70             | 587 71<br>587 71   |   | :                                     |        |                   | . *      |             |
| 7       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~                                                                                                                                                                                                            |                      |                     | (<br>(<br>(        |   |                                       |        |                   |          |             |
| 3       1,100       29,473       216,598       1126,984         5       4,500       -94,510       -94,510       -771,417       1126,984         5       0.000       -461,883       -1226,984       -1126,984       -1126,984         774,653       1300,262       -1774,653       1126,984       -1126,984         774,653       1300,266       -704,885       -1126,984         704,865       1300,266       -704,885       -1203,978         704,865       1300,266       -704,885       -1204,885         704,865       1300,266       -704,885       -1000,266         704,885       -1704,885       -704,885       -704,885         704,885       -704,885       -704,885       -704,885         700,000       284,301       -704,885       -704,885         71,010,000       284,301       -704,885       -704,885         1,250       -851,465       -1170,44       -704,885         1,250       -854,211       1704,885       -704,885         1,250       -854,213       1173,681       -704,885         1,250       -854,213       1173,681       -704,885         1,250       284,301       -704,885       -704,885                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                   |                      | 58.52               | 1165.99            |   |                                       |        |                   |          |             |
| 5.100       -94.510       -774.62       -1283.978         7       -774.62       -774.62       -774.62         7       -774.62       -704.889       -704.889         7       -704.829       -704.889       -704.889         7       -704.829       -704.889       -704.889         7       -704.889       -704.889       -704.889         7       -704.889       -704.889       -704.889         7       -704.889       -704.889       -704.889         7       -704.889       -704.889       -704.889         7       -704.889       -704.889       -704.889         7       -704.889       -704.889       -704.889         7       -704.889       -704.889       -704.889         7       -704.889       -704.889       -704.889         7       -704.889       -704.889       -704.889         10.000       -521.465       1173.89       -704.889         1173.631       1173.839       -704.889       -704.889         11.135       -704.889       -704.889       -704.889         11.135       -704.889       -704.889       -704.889         11.135       -704.889       -704.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 1 01<br>1 01<br>1 01<br>1 01                                                                                                                                                                                                                      | 29.47                | 16,89               | 1226.98            |   |                                       |        |                   |          |             |
| + 1       - 4000       - 4741.633       - 1266.825         + 1       - 4000       - 774.623       - 1300.262         + 1       0.500       - 774.623       - 1300.262         + 1       0.500       - 774.623       - 1300.262         + 1       0.500       - 774.859       - 1300.262         + 1       - 704.859       - 704.859       - 704.859         - 1       - 555.421       - 617.044       - 704.859         - 1       - 555.421       - 617.044       - 704.859         - 551.465       - 11775.684       - 7704.859       - 7704.859         - 511.465       - 11775.684       - 7704.859       - 7704.859         - 521.465       11773.681       - 7704.859       - 7704.859         - 521.465       11773.681       - 7704.859       - 7704.859         - 10.000       - 634.213       1028.303       - 7704.859         - 521.465       11773.681       - 7704.859       - 7704.859         - 521.465       11773.681       - 7704.859       - 7704.859         - 10.000       - 635.421       017704.859       - 7704.859         - 11.50       - 844.213       11773.631       - 7704.859         - 10.150       - 7704.859 <th>4 3.10</th> <th>-94.51</th> <th>271.41</th> <th>1254.66</th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 4 3.10                                                                                                                                                                                                                                            | -94.51               | 271.41              | 1254.66            |   |                                       |        |                   |          |             |
| $ \begin{bmatrix} 6 & 0.000 & -774.623 \\ -774.623 & 1300.260 \\ -774.623 & 1300.260 \\ -201.804 & 991.017 \\ -774.623 & 1230.626 \\ -201.804 & 332 & -201.332 \\ -774.855 & 555.421 \\ -774.855 & -1175.681 \\ -774.855 \\ -774.855 \\ -1175.681 & -774.855 \\ -774.855 & -1175.681 \\ -774.855 \\ -1175.681 & -774.855 \\ -774.855 \\ -1175.681 & -774.855 \\ -774.855 & -774.855 \\ -774.855 & -774.855 \\ -1704.885 \\ -774.855 \\ -1704.885 \\ -774.855 \\ -774.855 \\ -774.855 \\ -774.855 \\ -774.855 \\ -774.855 \\ -774.855 \\ -774.855 \\ -774.855 \\ -774.855 \\ -774.855 \\ -774.855 \\ -774.855 \\ -774.885 \\ -774.885 \\ -774.885 \\ -774.885 \\ -774.885 \\ -774.885 \\ -774.885 \\ -774.885 \\ -774.885 \\ -774.885 \\ -774.885 \\ -774.885 \\ -774.885 \\ -774.885 \\ -774.885 \\ -774.885 \\ -774.885 \\ -774.885 \\ -774.885 \\ -774.885 \\ -774.885 \\ -774.885 \\ -774.885 \\ -774.885 \\ -774.885 \\ -774.885 \\ -774.885 \\ -774.885 \\ -774.885 \\ -774.885 \\ -774.885 \\ -774.885 \\ -774.885 \\ -774.885 \\ -774.885 \\ -774.885 \\ -774.885 \\ -774.885 \\ -774.885 \\ -774.885 \\ -774.885 \\ -774.885 \\ -774.885 \\ -774.885 \\ -774.885 \\ -774.885 \\ -774.885 \\ -774.885 \\ -774.885 \\ -774.885 \\ -774.885 \\ -774.885 \\ -774.885 \\ -774.885 \\ -774.885 \\ -774.885 \\ -774.885 \\ -774.885 \\ -774.885 \\ -774.885 \\ -774.885 \\ -774.885 \\ -774.885 \\ -774.885 \\ -774.885 \\ -774.885 \\ -774.885 \\ -774.885 \\ -774.885 \\ -774.885 \\ -774.885 \\ -774.885 \\ -774.885 \\ -774.885 \\ -774.885 \\ -774.885 \\ -774.885 \\ -774.885 \\ -774.885 \\ -774.885 \\ -774.885 \\ -774.885 \\ -774.885 \\ -774.885 \\ -774.885 \\ -774.885 \\ -774.885 \\ -774.885 \\ -774.885 \\ -774.885 \\ -774.885 \\ -774.885 \\ -774.885 \\ -774.885 \\ -774.885 \\ -774.885 \\ -774.885 \\ -774.885 \\ -774.885 \\ -774.885 \\ -774.885 \\ -774.885 \\ -774.885 \\ -774.885 \\ -774.885 \\ -774.885 \\ -774.885 \\ -774.885 \\ -774.885 \\ -774.885 \\ -774.885 \\ -774.885 \\ -774.885 \\ -774.885 \\ -774.885 \\ -774.885 \\ -774.885 \\ -774.885 \\ -774.885 \\ -774.885 \\ -774.885 \\ -774.885 \\ -774.885 \\ -774.885 \\ -774.885 \\ -774.885 \\ -774.885 \\ -774.885 \\ -774.885 \\ -774.885 \\ -774.885 \\ -774.885 \\ -774.885 \\ -774.885 \\ -774.885 \\ -774.885 \\ -774.$ | 1 × 0                                                                                                                                                                                                                                             | -774.62              | 540.82<br>704.88    | 1283.97            |   |                                       |        | · .               |          |             |
| 1       0.500       201.504       991.017       7704.885         2       1.400       139.625       433.381       7704.885         3       2.100       284.361       -704.885       7704.885         5       4.000       284.361       -704.885       7704.885         5       4.000       284.361       -704.885       7704.885         7       0.000       521.465       -1177.681       -7704.885         7       0.000       524.213       -1177.681       -7704.885         7       0.000       524.213       1177.681       -7704.885         7       0.000       524.361       17704.885       -7704.885         7       0.000       5251.465       1177.681       -7704.885         7       10.256       -1704.885       -7704.885       -7704.885         7       10.256       -1704.885       -7704.885       -7704.885         7       10.256       -17704.885       -7704.885       -7704.885         7       10.256       -1704.885       -7704.885       -7704.885         7       10.256       -7704.885       -7704.885       -7704.885         7       10.256       -7704.885 <t< th=""><th>- 6 0.00</th><th>-774.62</th><th>300.26</th><th>704.88</th><th></th><th></th><th></th><th></th><th></th><th></th></t<>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | - 6 0.00                                                                                                                                                                                                                                          | -774.62              | 300.26              | 704.88             |   |                                       |        |                   |          |             |
| 1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 1 0.80                                                                                                                                                                                                                                            | -201.80              | 10.16               | 704.88             |   | ·                                     | •      |                   |          |             |
| * *       3.100       284.361       -617.044       -704.889         5       4.000       -521.465       -1173.681       -704.889         5       4.000       -834.213       11328.303       -704.889         6       -521.465       1173.681       -704.889         704.889       -704.889       -704.889         6       -521.465       1173.681       -704.889         7704.889       -704.889       -704.889         7704.889       -704.889       -704.889         774.623       -1704.889       -7704.889         774.623       -1704.889       -7704.889         774.623       -1330.260       -704.889         774.623       -1300.260       -704.889         7.250       0.000       0.000         7.251.965       -104.889         7.14.623       -1704.889         7.250       0.000       0.000         1.500       0.000       0.000         1.500       0.000       -2656.505                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 00 - 10 - 10 - 10 - 10 - 10 - 10 - 10 -                                                                                                                                                                                                           | 585.42               | -91.33              | 704.88             |   |                                       |        |                   | . •      |             |
| 1       250       -534.213       -704.885         1       0.000       -834.213       -704.885         1       0.250       -531.465       1173.681         1       0.250       -531.465       1173.681         1       0.250       -531.465       1173.681         1       0.250       -531.465       1173.681         1       0.250       -531.465       1173.681         1       0.250       -5321.465       1173.681         1       0.250       -534.361       617.044         1       0.260       -704.889         1       2.550       423.581       -704.889         1       2.550       -434.581       -704.889         1       2.550       -704.889         1       2.550       -704.889         1       2.550       -704.889         1       -704.889       -704.889         1       -704.889       -704.889         1       -704.889       -704.889         1       -704.889       -704.889         1       -2501.804       -704.889         1       -2500       0.000         1       -2565       -7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 4 3.10                                                                                                                                                                                                                                            | 284.36               | -617.04<br>-1173 68 | 704.88<br>704 88   |   |                                       |        |                   |          |             |
| 1       0.000       -834.213       1328.303         -704.889       -704.889         -521.465       1173.681       -704.889         -1150       284.361       617.044       -704.889         -521.465       1173.681       -7704.889         -7000       585.421       91.332       -7704.889         -704.889       -7704.889       -7704.889         -774.623       -434.381       -7704.889         -774.623       -1300.260       -774.889         -774.623       -1300.260       -704.889         -774.623       -1300.260       -704.889         -774.623       -1300.260       -704.889         -774.623       -1300.260       -704.889         -774.623       -1300.260       -704.889         -7000       0.000       0.000       -7066.666         -2556.656.605       -2565.605       -2565.605                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 1 0 1 25                                                                                                                                                                                                                                          | -834 21              | -1328.30            | 704.88             |   |                                       |        | ·                 |          |             |
| 1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | - I 0.00                                                                                                                                                                                                                                          | -834.21<br>-523 46   | 328.30<br>173 68    | 704.88<br>704.88   |   |                                       |        |                   |          |             |
| *       3       2.000       585.421       91.332       -704.889         *       4       2.850       434.581       -704.889         *       5       3.750       -434.581       -704.889         *       5       3.750       -139.626       -434.289         *       5       3.750       -201.804       -704.889         *       5       3.774.623       *1300.260       -704.889         *       1       2.250       0.000       0.000         *       1       2.2533.327       -704.889         *       1       2.256       0.000       -2619.966         *       3       4.500       0.000       12656.605                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 2 1.15                                                                                                                                                                                                                                            | 284,36               | 617.04              | 704.88             |   |                                       | ·      |                   |          |             |
| *       5       3.750       -201.804       -991.017       -704.889         *       5       3.750       -774.623       *1300.260       -704.889         *       1       2000       0.774.623       *1300.260       -704.889         *       1       2.250       0.000       -2583.327         *       1       2.256       0.000       -2656.605         *       3       4.500       0.000       -2656.605                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 3<br>7<br>7<br>7<br>7<br>7<br>7<br>7<br>7<br>7<br>7<br>7<br>7<br>7<br>7<br>7<br>7<br>7<br>7<br>7                                                                                                                                                  | 585.42               | 91.33<br>434.38     | 704.88             |   |                                       |        |                   |          |             |
| $\begin{array}{cccccccccccccccccccccccccccccccccccc$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | · · · · · · · · · · · · · · · · · · ·                                                                                                                                                                                                             | -201.80              | -991.01             | 704.88             | • |                                       |        |                   |          |             |
| - 6 0.000 0.000 0.000 -2583.327<br>* 1 2.250 0.000 0.000 -2619.966<br>- 3 4.500 0.000 -2656.605                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | - 6 4.25                                                                                                                                                                                                                                          | -774.62              | 1300.26             | 704.88             |   | :                                     |        |                   |          |             |
| - 3 4.500 0.000 0.000 -2656.605                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | - 6 0.00<br>* 1 2.25                                                                                                                                                                                                                              | 0.00                 | 00.00               | 2583.32<br>2619.96 |   |                                       | ÷.     |                   |          |             |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 4°30                                                                                                                                                                                                                                              | 0.00                 | 00.                 | 2636.60            |   |                                       |        |                   |          |             |

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BOX FOR DRAINAGE-NOS .

|            | ×       | N < t )    | 1300.26        | 283.97    | 1254.65          | 1226.98           | 02.8411                         | -11531706     |        | 567.71        | 1. 1.00                                 | 17.780            | 1.5 500 | 112 280          | 587.71  |        |           | 10.101 | -587.711  | 587.71 | 587.71  | 587.71  |               | 00 0911                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 1109-30             | 1226.98                  | 1254.66 | -1283.578                | 1300.26   | 701 88<br>201 | 704.88     | 704, 88                                                                         | 704188                  | 104.53  | -704.889       |        | 704.88    | 1404,889    | 001 000<br>101 00 | 22 · FOL | 704 88 | 704.8  | 2583 22 | 12619.966<br>12619.966 | AG - 6446.7 |
|------------|---------|------------|----------------|-----------|------------------|-------------------|---------------------------------|---------------|--------|---------------|-----------------------------------------|-------------------|---------|------------------|---------|--------|-----------|--------|-----------|--------|---------|---------|---------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|--------------------------|---------|--------------------------|-----------|---------------|------------|---------------------------------------------------------------------------------|-------------------------|---------|----------------|--------|-----------|-------------|-------------------|----------|--------|--------|---------|------------------------|-------------|
|            | UNINIMO | S (t)      | 04.82          | 46.82     | 271.41           | 100<br>010<br>010 | 0 - 0 - 0<br>- 0 - 0<br>- 0 - 0 | 112.785-      |        | 55.70         | 17.<br>00.<br>00.                       | 21.040            | 620 07  | -1147.818        | 1291.66 | 201 66 | 00.5      | 629.97 | 140.902   | 348.17 | 56.01   | 153.70  | 11 10         | <ul> <li>C</li> <li>C</li></ul> | 16.89               | 22.04                    | 271-41  | -546.829                 | 104.88    | 00.26         | 10.166     | 34.38                                                                           | -91.33                  | 10      | -1328.303      |        | 00° 000   | 120 01T     | 01.33             | 434 38   | 10 16  | 300.26 | 0       | 00000                  | •           |
| ;          | Ī       | M (tm)     | -774.623       | 61.8      | 10.<br>75.<br>8  | 4 C<br>7 1<br>7 1 | > «<br>* «                      | 620.60        |        | <u>620.60</u> | ト C U U U U U U U U U U U U U U U U U U | 07 - 20<br>2 - 20 | 51.10   | -608.832         | 913.76  | 913 76 | 08.83     | 91.17  | 861.815   | 30.70  | 115.67  | 20.60   | 620.60        | 80                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 54.07               | 29 47                    | 94.01   | -461.844                 | 1 4 - 0 - | 4.62          | 201.80     | 39.62                                                                           | 80.43<br>24.08<br>24.09 | 97 - F0 |                |        | 12.00     | 284.361     | 85.42             | 39.62    | 01.80  | 774.62 | 00.     | 0.000                  |             |
|            | ·.      | Case       | 1              | ት<br>5    | ı I              |                   |                                 | 1             |        |               | 1.1                                     |                   | Ŧ       | 0<br>1<br>4      | 1       |        | . 1       |        | 4         | ì      |         | i.      | 1             | Ι.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                     | ī                        |         | 4 *<br>- 1<br>- 1<br>- 1 |           |               | 1.         |                                                                                 | 1 9                     |         | າ<br>ອີ<br>ບໍ່ |        | 1.1       |             | · 1               | 1        | ì      | ł      |         | 77<br>55               |             |
| -<br>      |         | N (t)      | 1300.26        | -1283.978 | 1004.00          | 1199.30           | 1169.93                         | 1133.70       | 1      | 11 100        |                                         | 587.71            | 587.71  | -587.711         | 587.7I  | 587.71 | 587.71    | 587.71 | -587.711  | 587.71 | 587.71  | 11.180  | 1153.70       | 1169.99                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 1199.30             | 1226.58                  | 1254 66 | -1200 969                |           | 704.88        | 704.88     | 704.88                                                                          | 0.0                     | 704 88  | 101            | 00 100 | 704 88    | -704.889    | 704.88            | 704.88   | 704.88 | 104.88 | 2583.32 | -2619,966<br>-2656,605 |             |
| M V I V II |         | S (†)      | 04.8           |           | 10               | 216.89            | 0 0 0 0                         | 12.785        |        | 20.00         | 48-17                                   | 140.90            | 629:97  | -1147.818        | 1441.00 | 291.66 | 47.81     | 629.97 | 07-1<br>1 | 48.17  | -866.01 | 07.001  | 87.71         | 58.52                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 16.89               | -22-04                   |         | 588 TOLI                 |           | 00.26         | 81.01<br>5 | 800<br>1400<br>1400                                                             | 617.04                  | 1173.68 | 328.3          | 02 202 | 73.68     | 617         | 91.33             | 434.38   | 51.01  | 300.26 | •       | 0000-0                 |             |
|            |         | M (tm)     |                | 101 · 01  |                  | - 51.07           | 8.89                            | 620.60        | 600 ED |               | 30:70                                   | 18.79             | 91.17   | -608.832         | 0       | 13.76  | . 83      | 51.17  | 518.798   | 430.70 | 10.61   | 20 · 20 | 20.60         | 358.89                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 54.07               | 1.4.1                    |         | -774.623                 |           | 74.62         | 201.80     | 20<br>20<br>20<br>20<br>20<br>20<br>20<br>20<br>20<br>20<br>20<br>20<br>20<br>2 | 7 - 1                   | 321.46  | 34.21          | 834.91 | 21.46     | 284.361     | 85.42             | 439.62   | 01.80  | 774.62 | .00     | 000.00                 |             |
| •          |         | Case       | မှ<br>ပြ<br>စ  | i i       | , I              |                   | 4                               | ł             |        | Ì             | , <b>1</b> ,                            | j.                | 4.      | 0<br>1<br>7<br>7 | I       | 0<br>7 |           |        | +.<br>5   |        |         |         | t             | ۰.<br>۱                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 1                   |                          |         | r <del>-</del>           |           |               |            |                                                                                 |                         | 1       |                | ,      | 1         | 0<br>1<br>4 |                   |          |        |        |         | **<br>55               |             |
|            |         | (a)<br>(a) | 91             | 004       | 90<br>(1)<br>(1) | 10                | 1:00                            | 0<br>10<br>11 | 0      | 510           | 1                                       | <u>.</u>          |         | 4.000            | 1       | .00    | ю<br>сі - | 10 ×   | 000       | ດ      | ົ່      | )<br>}  | 00.           | 000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 4.0<br>2.10<br>0.11 | י<br>א <del>-</del><br>י |         | 1.500                    |           | 0000.0        | 0.0        | >.¥<br>7 0                                                                      | 20                      | .00     | 01<br>01       | 00-    | 10<br>(1) | 1.150       | 00.               | ŝ        |        | 1      | 00.     | 4.500                  |             |
|            |         | • 0 •      | ा -<br>। ;<br> |           | ະ                | т<br>*            | 10<br>*                         |               |        | ÷             | : •                                     | *                 |         | 0<br>0<br>0<br>0 |         |        |           |        | * *       |        |         |         | י כוו<br>י די |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | •) (*<br>€ -%       |                          | :       |                          |           | ю-<br>і і     |            |                                                                                 |                         | ×.      | -              |        |           | сı<br>*     |                   |          |        |        |         |                        |             |

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PICK-UP No.

BOX FOR DRAINAGE-NOS

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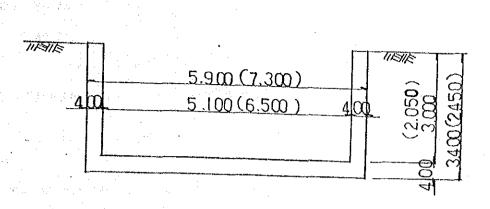
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| · · ·       |         | N (t)      | -1300.262   | 1254.66 | 1226.98              | 02.3011                                                                                          | 153.70           |              | 100 - 100 C | 1.00             | 12 182 | 587.71  | 111 1001         | 71.100      | 12 182              | 587.7      | 587.71 |                      | 4 L . L 0 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | -587.711  | 1153.70      | 1169.59 | 1199.30    | 1226.98                                     | 1204.60        | 1200.262  | 704.88        | 704.88 | 704.88                                                                                      | 704 23                | -704.889  | 704.88     | 704.88 | 704.83     | 704.88        | 704.88                                  | 704.88             | -704.885  | 583.32     | 2619.966<br>2636.605   |
|-------------|---------|------------|-------------|---------|----------------------|--------------------------------------------------------------------------------------------------|------------------|--------------|-------------|------------------|--------|---------|------------------|-------------|---------------------|------------|--------|----------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|--------------|---------|------------|---------------------------------------------|----------------|-----------|---------------|--------|---------------------------------------------------------------------------------------------|-----------------------|-----------|------------|--------|------------|---------------|-----------------------------------------|--------------------|-----------|------------|------------------------|
|             | MININUM | (1) S      | 885<br>885  |         | 22.044               | 216.898                                                                                          | 02.070<br>87.711 |              | 866.01      | 1                | 140.90 | -629.97 | -1147.018        | 00.1071     | 91.06               | 147.81     | 29,97  | 140.90               | 1,0%0<br>1,0%0<br>1,0%0<br>1,0%0<br>1,0%0<br>1,0%0<br>1,0%0<br>1,0%0<br>1,0%0<br>1,0%0<br>1,0%0<br>1,0%0<br>1,0%0<br>1,0%0<br>1,0%0<br>1,0%0<br>1,0%0<br>1,0%0<br>1,0%0<br>1,0%0<br>1,0%0<br>1,0%0<br>1,0%0<br>1,0%0<br>1,0%0<br>1,0%0<br>1,0%0<br>1,0%0<br>1,0%0<br>1,0%0<br>1,0%0<br>1,0%0<br>1,0%0<br>1,0%0<br>1,0%0<br>1,0%0<br>1,0%0<br>1,0%0<br>1,0%0<br>1,0%0<br>1,0%0<br>1,0%0<br>1,0%0<br>1,0%0<br>1,0%0<br>1,0%0<br>1,0%0<br>1,0%0<br>1,0%0<br>1,0%0<br>1,0%0<br>1,0%0<br>1,0%0<br>1,0%0<br>1,0%0<br>1,0%0<br>1,0%0<br>1,0%0<br>1,0%0<br>1,0%0<br>1,0%0<br>1,0%0<br>1,0%0<br>1,0%0<br>1,0%0<br>1,0%0<br>1,0%0<br>1,0%0<br>1,0%0<br>1,0%0<br>1,0%0<br>1,0%0<br>1,0%0<br>1,0%0<br>1,0%0<br>1,0%0<br>1,0%0<br>1,0%0<br>1,0%0<br>1,0%0<br>1,0%0<br>1,0%0<br>1,0%0<br>1,0%0<br>1,0%0<br>1,0%0<br>1,0%0<br>1,0%0<br>1,0%0<br>1,0%0<br>1,0%0<br>1,0%0<br>1,0%0<br>1,0%0<br>1,0%0<br>1,0%0<br>1,0%0<br>1,0%0<br>1,0%0<br>1,0%0<br>1,0%0<br>1,0%0<br>1,0%0<br>1,0%0<br>1,0%0<br>1,0%0<br>1,0%0<br>1,0%0<br>1,0%0<br>1,0%0<br>1,0%0<br>1,0%0<br>1,0%0<br>1,0%0<br>1,0%0<br>1,0%0<br>1,0%0<br>1,0%0<br>1,0%0<br>1,0%0<br>1,0%0<br>1,0%0<br>1,0%0<br>1,0%0<br>1,0%0<br>1,0%0<br>1,0%0<br>1,0%0<br>1,0%0<br>1,0%0<br>1,0%0<br>1,0%0<br>1,0%0<br>1,0%0<br>1,0%0<br>1,0%0<br>1,0%0<br>1,0%0<br>1,0%0<br>1,0%0<br>1,0%0<br>1,0%0<br>1,0%0<br>1,0%0<br>1,0%0<br>1,0%0<br>1,0%0<br>1,0%0<br>1,0%0<br>1,0%0<br>1,0%0<br>1,0%0<br>1,0%0<br>1,0%0<br>1,0%0<br>1,0%0<br>1,0%0<br>1,0%0<br>1,0%0<br>1,0%0<br>1,0%0<br>1,0%0<br>1,0%0<br>1,0%0<br>1,0%0<br>1,0%0<br>1,0%0<br>1,0%0<br>1,0%0<br>1,0%0<br>1,0%0<br>1,0%0<br>1,0%0<br>1,0%0<br>1,0%0<br>1,0%0<br>1,0%0<br>1,0%0<br>1,0%0<br>1,0%0<br>1,0%0<br>1,0%0<br>1,0%0<br>1,0%0<br>1,0%0<br>1,0%0<br>1,0%0<br>1,0%0<br>1,0%0<br>1,0%0<br>1,0%0<br>1,0%0<br>1,0%0<br>1,0%0<br>1,0%0<br>1,0%0<br>1,0%0<br>1,0%0<br>1,0%0<br>1,0%0<br>1,0%0<br>1,0%0<br>1,0%0<br>1,0%0<br>1,0%0<br>1,0%0<br>1,0%0<br>1,0%0<br>1,0%0<br>1,0%0<br>1,0%0<br>1,0%0<br>1,0%0<br>1,0%0<br>1,0%0<br>1,0%0<br>1,0%0<br>1,0%0<br>1,0%0<br>1,0%0<br>1,0%0<br>1,0%0<br>1,0%0<br>1,0%0<br>1,0%0<br>1,0%0<br>1,0%0<br>1,0%0<br>1,0%0<br>1,0%0<br>1,0%0<br>1,0%0<br>1,0%0<br>1,0%0<br>1,0%0<br>1,0%0<br>1,0%0<br>1,0%0<br>1,0%0<br>1,0%0<br>1,0%0<br>1,0%0<br>1,0%0<br>1,0%0<br>1,0%0<br>1,0%0<br>1,0%0<br>1,0%0<br>1,0%0<br>1,0%0<br>1,0%0<br>1,0%0<br>1,0%0<br>1,0%0<br>1,0%0<br>1,0%0<br>1,0%0<br>1,0%0<br>1,0%0<br>1,0%0<br>1,0%0<br>1,0%0<br>1,0%0<br>1,0%0<br>1,0%0<br>1,0%0<br>1,0%0<br>1,0%0<br>1,0%0<br>1,0%0<br>1,0%0<br>1,0%0<br>1,0%0<br>1,0%0<br>1,0%0<br>1,0%0<br>1,0%0<br>1,0%0<br>1,0%0<br>1,0%0<br>1,0%0<br>1,0%0<br>1,0%0<br>1,0%0<br>1,0%0<br>1,0%0<br>1,0%0<br>1,0%0<br>1,0%0<br>1,0%0<br>1,0%0<br>1,0%0<br>1,0%0<br>1,0%0<br>1,0%0<br>1,0%0<br>1,0%0<br>1,0%0<br>1,0%0<br>1,0%0<br>1,0%0<br>1,0%0<br>1,0%0<br>1,0%0<br>1,0%0<br>1,0%0<br>1,0%0<br>1,0%0<br>1,0%0<br>1,0%0<br>1,0%0<br>1,0%0<br>1,0%0<br>1,0%0<br>1,0%0<br>1,0%0<br>1,0%0<br>1,0%0<br>1,0%0<br>1,0%0<br>1,0%0<br>1,0%0<br>1,0%0<br>1,0%0<br>1,0%0<br>1,0%0<br>1,0%0<br>1,0%0<br>1,0%0<br>1,0%0<br>1,0%0<br>1,0%0<br>1,0%0<br>1,0%0<br>1,0%0<br>1,0%0<br>1,0%0<br>1,0%0<br>1,0%0<br>1,0%0<br>1,0%00 | -1153.706 | 87.711       | 58.526  | 16.898     | -22.044                                     | 271.417        | - 704-889 | 00.26         | 91.01  | 80. TS                                                                                      | 997 - 76 - 9 <b>1</b> | -1173.681 | 328.30     | 328.30 | 3.68       | 617.04        | 91.33                                   | 404 08<br>404 08   | -1300.260 | - 000.     | 000                    |
|             | X       | (E1) N     | -774.623    |         | 29.47                | 10.<br>10.<br>10.<br>10.<br>10.<br>10.<br>10.<br>10.<br>10.<br>10.                               | 0.00<br>0.00     | 600 60       | 5 67        | 30.70            | 18.79  | 191.17  | -008.832         | 5 · · · · · | 13.76               | 608.83     | 91.17  | 200                  | 2 · · · 2 · · · · · · · · · · · · · · ·                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | -620.607  | 620.60       | 58 8    | 54.07      | 1-1-<br>0-0-0-0-0-0-0-0-0-0-0-0-0-0-0-0-0-0 | 10 101         | -774.623  | 74.62         | 201.80 | 10.00                                                                                       | 97. 70<br>97. 70      | -521.465  | \$34.213   | 834.21 | 21.46      | St. 36        | 1 C C C C C C C C C C C C C C C C C C C | 101.02<br>101.00   | -774 623  | •          | 0.000<br>0.000         |
| •<br>•<br>• | ·<br>·  | Case       | тч<br>55    |         | 1                    | 1 1                                                                                              |                  |              | ı           |                  |        | 1       | 4<br>5<br>5<br>5 |             |                     | ł          | F      | 9 9<br>1 1<br>2 C    | 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |           |              |         | 1          | 4                                           |                | 20        | 1             | 1.5    |                                                                                             |                       |           |            | 1      | 1          | 1             | 1                                       | E                  | 5         | 1          | * *<br>1 1<br>0 0      |
|             | N.      | N (t)      | -1300.262   | 1234.66 | 1226.98              | 1160 00                                                                                          | 1153.70          | 387 73       | 387.71      | 587.71           | 387.71 | 587.71  |                  |             | 387.71              | 387.71     | 587.71 | -587-711             | 587.71                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 587.71    | 1153.70      | 1169.95 | 1199.30    | 236 08<br>216 08                            | 1983 67        | 1300      | 704.88        | 704.88 | 00 FAI                                                                                      | 704.88                | -704.889  | 704.88     | 704.88 | 704.88     | 704.88        | 104 88                                  | 70.5 00            | -704.889  | 2583.32    | -2613.966<br>-2656.605 |
|             | MANIMU  | (1) S      | 704.889     | 71.41   | 100                  | 2<br>2<br>2<br>2<br>2<br>2<br>1<br>2<br>1<br>2<br>1<br>2<br>1<br>2<br>1<br>2<br>1<br>2<br>1<br>2 | 587.71           | 53.70        | 866.01      | 48.17            | 06 011 | -629.97 | 1261 664         |             | 9.1                 | 147.81     | 29.92  | 240.14               | 866.01                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 53.70     | 87.71        | 58.52   | 16.89      | -22.04                                      | 46.82          | 704       | 00.26         | 91.01  | 000.20                                                                                      | 617.04                | -1173.681 | 1328.30    | 328.30 | 73.68      | 707<br>107    | 191.19<br>192.192                       | 001 200<br>001 000 | -1300.260 | <u>о</u> . | 0.000                  |
| No. 1 *     | ~       | M (tm)     | -774.623    | 94.51   | 51<br>11<br>10<br>10 | 358,89                                                                                           | 20.00            | 20.60        | 15.67       | 30.70            | 18.75  | 191.17  | -913.767         | )<br>• • •  | -913.767            | 608.83     | 11-16  | 30.10                | 115:67                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 20.60     | 20.60        | 358.89  | 54107      |                                             | 61.84<br>61.84 | 74.       | . 62          | 08.10  | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0 | 84.36                 | ~         | 834.21     | 54.21  | 521.46     | 97 - 30<br>30 | 20.42                                   | 100.00             | -774.623  | 0.         | 0.000                  |
| PICK-UP     |         | Case       | · · · ·<br> | +       |                      |                                                                                                  | ,                | . 1          | ÷           | 1.               | 1.     | i.      | 1<br>1<br>1<br>1 |             | η<br>1.             | ť          |        |                      | ់រ                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | i.        |              | ī       |            | т-<br>5 С                                   | 1              |           |               |        | 1                                                                                           |                       |           | ı.         | 1.     | ,          |               |                                         |                    |           | ī          | 69<br>44               |
|             |         | (m)<br>(m) | 0.000       | 1.40    | 10 C<br>61 F<br>61 F | 00.0                                                                                             | 00               | 00.00        | . 5.0       | 0 <sup>2</sup> . | 0      | 010<br> | 1000             |             | 0.000               | 0 U<br>N - |        | > 00<br>> 00<br>• 00 | 5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | ເດ<br>ດີ  | .00          | 000     | 0 u<br>4 c | 001-00                                      | 200,           | 00        | 0,1           | 09.    | ) 10<br>7 0<br>1                                                                            | 2                     | 00        | ାର<br>ବ୍ୟୁ | .00    | ເດ<br>ເຊິ່ | ທ<br>         | 0 a<br>0 a                              | 0 V<br>0 F         | F. 200    | .00        | 2.250                  |
| •<br>•      |         | . ov       | ः<br>२१ ल   |         |                      | ai 7                                                                                             |                  | ເນ<br>ເ<br>ເ | *           | ×                | :      | 4 U     | ) ດາ<br>         |             | าา -<br>1 - (<br>เก |            |        |                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |           | 10<br>1<br>7 |         |            | к ч<br>с                                    |                |           | 0<br>1 ·<br>0 |        |                                                                                             |                       | *         |            |        |            | ся с<br>Ф. (  |                                         | ÷                  |           | _          | ⊷ທ<br>* ເ              |

BOX FOR DRAINAGE-NO5

#### Retaining wall

Shape-U wall of NOO~ BOX FOR DRAINAGE



the factor of earth pressure

 $r = 19.6 \text{ KN}/\text{m}^3 \phi = 35^\circ$ 

 $k = \tan^2 (45^{\circ} - \frac{\phi}{2}) = \tan^2 (45^{\circ} - \frac{35^{\circ}}{2}) = 0.271 \div 0.300$ notice

the calculation point takeup gravity to structure

1) calculation of bending moment and shearing force weight of side wall

 $(2.050) \quad (38.704) \\ Ws = 2 \times 23.6 \times 0.40 \times 3.00 \quad = 56.640 \text{ KN/m}$ 

reaction of contact pressure for bottom slab

(38.704) (6.90) (5.600) qb = Ws/1 = 56.640 / 5.50 = 10.300 KN/m

calculation of moment and shear for side wall

 $Ms = -\frac{1}{6} \times 19.60 \times 0.30 \times 3.20^{3} = -32.2 \text{ KNm}$   $S = \frac{1}{2} \times 19.60 \times 0.30 \times 3.00^{2} = 26.5 \text{ KN}$ 

calculation of moment and shear for bottom slab

$$Mb = Ms + \frac{1}{8} q1^{2} = -32.2 + \frac{1}{8} \times 10.30 \times 5.50^{2} = (22.2)$$

$$Mb = -\frac{1}{2} q1^{2} = -\frac{1}{2} \times (5.60) (6.90) = (19.4)$$

$$Sb = -\frac{1}{2} q1^{2} = -\frac{1}{2} \times 10.30 \times 5.50 = 28.4 \text{ KN}$$

2) calculation of stress for reinforced bar and concrete

a) side wall (U,L,S)

 $M = -60.4 \times 1.5 \times 1.15 = -104.3 KNm$ 

 $S = 40.3 \times 1.5 \times 1.15 = 69.5$  KN

AS = D16 - 200 CTC

notice

this section abridge from calculation of bottom slab

b) bottom slab (U.L.S)

a hun dig da baga ber

 $M = 80.1 \times 1.5 \times 1.15 = 138.2 KNm$ 

 $S = 43.7 \times 1.5 \times 1.15 = 75.4$  KN

b=100 h=50 d=44.0 d'=6.0

As =  $D16-200^{ctc}$  = 2.011 / 0.200 = 10.055cm<sup>2</sup>

 $P = \frac{10.055}{100 \times 44.0} = 0.228\% > 0.15\%$ 

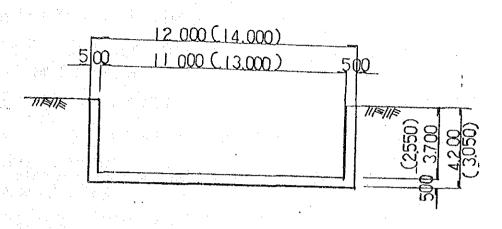
 $X = \frac{0.87 \times 41000 \times 10.055}{0.40 \times 2500 \times 100} \stackrel{\circ}{=} 5.000 \text{ cm}$ 

 $Z = 44.0 - \frac{1}{2} \times 5.0 = 41.5$  cm <  $0.95 \times 44.0 = 41.8$  cm

MRS =  $0.87 \times 41000 \times 10.055 \times 41.5 \times 10^{-5} = 148.8$  KNm > M = 138.2 KNm

 $\tau = \frac{75.4 \times 10^3}{100 \times 44.0} = 17.2 \text{ N/cm}^2 < \tau a = 35.0 \times \frac{0.228}{0.25} \div 32.0 \text{ N/cm}^2 \text{ OK}$ 

#### Retaining wall Shape-U wall of NO<sup>(5)</sup> BOX FOR DRAINAGE



1) calculation of bending moment and shearing force weight of side wall

(2.55) (60.180) Ws = 2 × 23.6 × 0.50 × 3.70 = 87.320 KN/m

reaction of contact pressure for bottom slab

(60.180) (13.50) (4.460) qb = ws/l = 87.320 / 11.50 = 7.600 KN/m

calculation of moment and shear for side wall

14 J.

 $M = \frac{1}{6} \times 19.6 \times 0.300 \times 3.95^{3} = -60.4 \text{ KNm}$   $S = \frac{1}{2} \times 19.6 \times 0.30 \times 3.70^{2} = 40.3 \text{ KN}$ 

calculation of moment and shear for bottom slab

| $+ \frac{1}{7600 \times 11.50^2}$ | (80.1)<br>= 65.3 KNm |
|-----------------------------------|----------------------|
|                                   | (30.1)<br>= 43.7 KN  |

2) calculation of stress for reinforced bar and concrete a) side wall (U,L,S)  $M = -32.2 \times 1.5 \times 1.15 = 55.4$  KN  $S = 26.5 \times 1.5 \times 1.15 = 45.7$  KN b=100cm h=40 d=34.0 d =6.0  $AS = Y16 - 300^{CTC} = 2.011 \text{ cm}^2 / 0.300 = 6.703 \text{ cm}^2$  $\frac{6.703}{\times 100} = 0.197\% > 0.150\%$ AS. P =  $\times 100 =$ hd  $\frac{0.87 \times 41000 \times 6.703}{0.40 \times 2500 \times 100} = 2.40 \text{ cm}$ Χ.=  $Z = 34.0 - \frac{1}{2} \times 2.40 = 32.3 \text{ cm} \leq 0.95 \times 34.0 = 32.3 \text{ cm}$ MRS =  $0.87 \times 41000 \times 6.703 \times 32.3 \times 10^{-5}$  = 77.2 KNm > M = 55.4 KNm MRC = 0.  $40 \times 2500 \times 100 \times 2$ .  $40 \times 32$ .  $3 \times 10^{-5}$  = 77. 5 KNm > M = 55. 4 KNm  $45.7 \times 10^{3}$  $= 27.6 \text{ N/cm}^2$  $100 \times 340$ bottom slab b)

 $M = 22.2 \times 1.5 \times 1.15 = 38.3 \text{KNm}$  $S = 28.4 \times 1.5 \times 1.15 = 49.0 \text{ KN}$ 

 $AS = Y16 - 300^{CTC}$ 

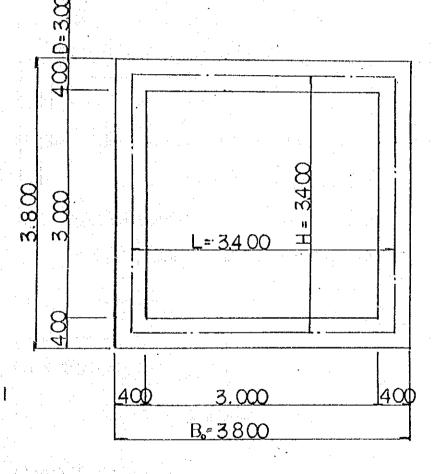
notice

this section abridge from calculation of side wall

OK

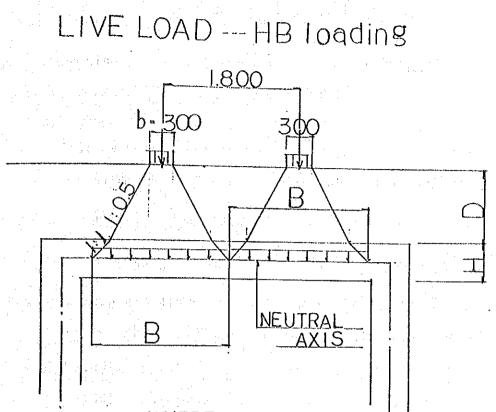
# PEDESTRIAN BOX CULVERTS

1) Shape and Size



Where --- D<sup>M</sup> = depth of asphalt and similar surface soil.

2) Factor of section A =  $1.00 \times 0.40$  = 0.4000 m<sup>2</sup> I =  $\frac{1.00 \times 0.40^{3}}{12}$  = 0.00533 m<sup>4</sup> Ec=  $2.5 \text{ kN/mm^{2}}$  =  $2.5 \times 10^{7} \text{ kN/m^{2}}$ 



WHERE

D = DEPTH OF ASPHALT AND SIMILAR SURFACE SOIL H = DEPTH OF CONCRTE SLAB

DISPERSAL OF WHEEL

 $\prod_{i=1}^{n} \prod_{j=1}^{n} \frac{\mathbf{B}_{ij}}{\mathbf{W}_{ij}} = \sum_{i=1}^{n} \frac{\mathbf{D}_{ij}}{\mathbf{W}_{ij}} + \sum_{i=1}^{n} \frac{\mathbf{D}_{ij}}{\mathbf{W}_{ij}} + \frac{\mathbf{H}_{ij}}{\mathbf{W}_{ij}} = \sum_{i=1}^{n} \frac{\mathbf{D}_{ij}}{\mathbf{W}_{ij}} + \frac{\mathbf{D}_{$ 

LOADED STRENGTH

P= <u>10.0 × Uno</u> (KN/m<sup>2</sup>) B × L

WHERE

Uno = NUMBER OF UNITS = 30 L = WIDTH OF HB-VEHICLE = 3500<sup>m</sup>

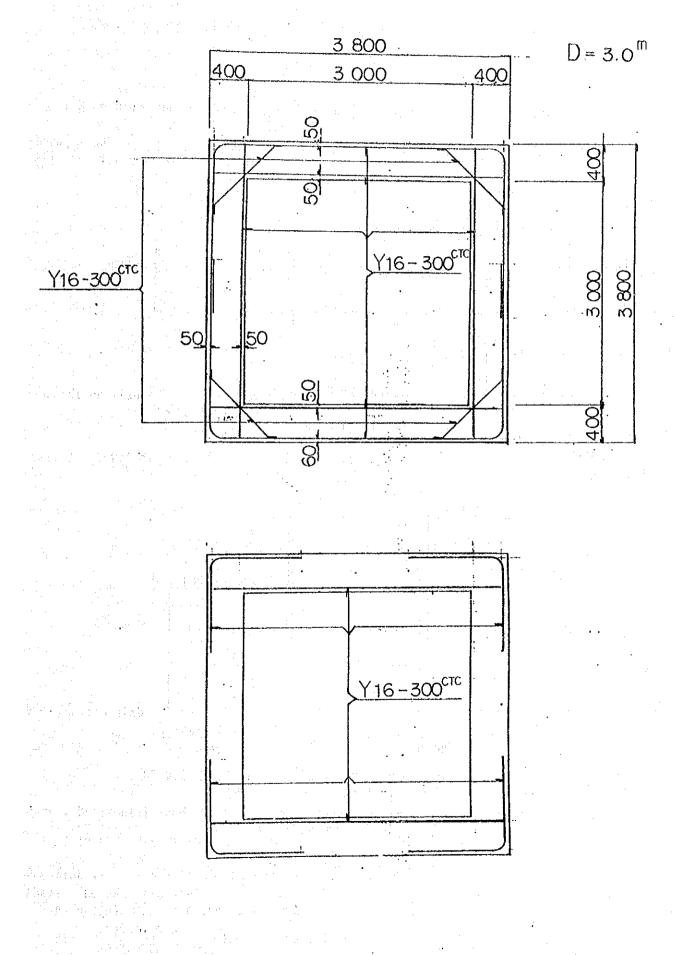
#### No. (D) BOX CULVERT FOR FOOTPATH (D=3.000<sup>m</sup>)

section 
$$b=100^{cm}$$
  $h=40$   $d=34.0(35.0)$   $d'=6.0(5.0)$   
1. calculation for bending moment (U. L. S)  
a) intersection point(D=4) Mu.min = -127.4<sup>KMm</sup>  
(intersection point(D=4) Mu.min = -109.5<sup>KMm</sup>)  
 $A_{*}= Y_{1*}-150^{cvc}= 2.011/0.150= 13.40$  cm<sup>2</sup>  
 $X = \frac{0.87 \times 41000 \times 13.40}{0.40 \times 2500 \times 100} \approx 4.8$  cm  
 $Z = 34.0 - \frac{4.8}{2} = 31.6^{cm} < 0.95 \times 34.0 = 32.3^{cm}$  OK  
 $M_{Re} = 0.87 \times 41000 \times 13.40 \times 31.6 \times 10^{-5} = 151.0^{KNm} > Mu = 127.4^{KNm}$   
 $M_{Re} = 0.40 \times 2500 \times 100 \times 4.8 \times 31.6 \times 10^{-5} = 151.0^{KNm} > Mu = 127.4^{KNm}$  OK  
b) middle point (D~(D) Mu.max = 125.3<sup>KNm</sup>  
(middle point (D~(C) Mu.max = 116.0<sup>KNm</sup>)  
 $A_{x} = Y_{1*}-150^{cvc}= 13.40$  cm<sup>2</sup>  
 $M_{n} \neq 151.0^{KNm} > Mu = 125.3^{KNm}$   
c) middle point (D~(C) = (D cm<sup>2</sup>)  
 $X = \frac{0.87 \times 41000 \times 6.70}{0.40 \times 2500 \times 100} = 3.60^{cm}$   
 $Z = 35.0 - \frac{3.6}{2} = 33.2^{cm} \approx 0.95 \times 35.0 = 33.2^{cm}$  OK  
 $M_{ns} = 0.87 \times 41000 \times 6.70 \times 33.2 \times 10^{-5} = 79.3^{KNm} > 52.2^{KNm}$   
 $M_{nc} = 0.40 \times 2500 \times 100 \times 3.60 \times 33.2 \times 10^{-5} = 119.5^{KNm} > Mu = 52.2^{KNm}$   
 $M_{Rc} = 0.40 \times 2500 \times 100 \times 3.60 \times 33.2 \times 10^{-5} = 119.5^{KNm} > Mu = 52.2^{KNm}$   
 $M_{Rc} = 0.40 \times 2500 \times 100 \times 3.60 \times 33.2 \times 10^{-5} = 119.5^{KNm} > Mu = 52.2^{KNm}$   
 $M_{Rc} = 0.40 \times 2500 \times 100 \times 3.60 \times 33.2 \times 10^{-5} = 119.5^{KNm} > Mu = 52.2^{KNm}$   
 $M_{Rc} = 0.40 \times 2500 \times 100 \times 3.60 \times 33.2 \times 10^{-5} = 119.5^{KNm} > Mu = 52.2^{KNm}$   
 $M_{Rc} = 0.40 \times 2500 \times 100 \times 3.60 \times 33.2 \times 10^{-5} = 119.5^{KNm} > Mu = 52.2^{KNm}$   
 $M_{Rc} = 0.40 \times 2500 \times 100 \times 3.60 \times 33.2 \times 10^{-5} = 119.5^{KNm} > Mu = 52.2^{KNm}$   
 $M_{Rc} = 0.40 \times 2500 \times 100 \times 3.60 \times 33.2 \times 10^{-5} = 119.5^{KNm} > Mu = 52.2^{KNm}$   
 $M_{Rc} = 0.40 \times 2500 \times 100 \times 3.60 \times 33.2 \times 10^{-5} = 119.5^{KNm} > Mu = 52.2^{KNm}$   
 $M_{Rc} = 1.40 \times 2500 \times 100 \times 3.60 \times 33.2 \times 10^{-5} = 119.5^{KNm} > Mu = 52.2^{KNm}$   
 $M_{Rc} = 0.40 \times 2500 \times 100 \times 3.60 \times 33.2 \times 10^{-5} = 119.5^{KNm} > Mu = 52.2^{KNm}$   
 $M_{Rc} = 0.40 \times 2500 \times 100 \times 3.60 \times 33.2 \times 10^{-5} = 119.5^{KNm} > Mu = 52.2^{KNm}$   
 $M_{Rc} = 0.40 \times 2500 \times 100 \times 3.60 \times 33.2 \times 10^{-5} = 119$ 

3 - 3

11.54

NO DBOX CULVERT FOR FOOTPATH



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NOD BOX CULVERT FOR FOOTPATH (D=3.000m) Load 1)Dead load a)Vertical load For upper slab w1 = 22.6  $\times$  0.50 + 19.6  $\times$  2.50 + 23.6  $\times$  0.40 = 69.740 kN/m For side wall  $w^2 = 23.6 \times 0.40$ = 9.440 . . 11 For bottom slab w3 = 69.74 +  $\frac{2 \times 9.440 \times 3.40}{2 \times 9.440 \times 3.40}$ = 88.620 11 3.40 b) Horizontal load (earth pressure) For side slab pe1 =  $(22.6 \times 0.50 + 19.6 \times 2.70) \times 0.500$ = 32.110 kN/m $pe2 = (22.6 \times 0.50 + 19.6 \times 6.10) \times 0.500$ = 65.43011 2)Live load case-1 Vertical load of symmetry 1800 3,700 3700 P1 = 23166750 2,650 2650 750 B = 0.30 + 3.00 + 0.40L = 3 400 = 3,700 [] For bottom slab  $\underline{2 \times 23.166 \times 2.65}$ P2 =36.112 kN/m 3.40  $P = \frac{10 \times 30}{370 \times 350}$ case-2 Vertical load of partial for sentral span = 23,166 KN/m 1800 3 700 3700 P1 P1 = 23 166 1750 1650 L = 3400For bottom slab  $P2 = \frac{23.166(3.40+1.750)}{23.166(3.40+1.750)}$  $6 \times 23.166 \times 1.75 \times 0.825$ +3.40<sup>2</sup> 3.40 P2-1 = 52.449 kN/m = 35.090 ± 17.359 = P2-2 = 17.731" case-3 Horizontal load ----earth pressure of live load surcharge 40.0 × 30.0 = 34.300 kN/m<sup>\*</sup> Live load surcharge : go =  $3.50 \times 10.0$ For side wall : Pe = 34.300  $\times$  0.500 = 17.150 kN/m<sup>2</sup> Where Loaded strength = P1 B = 0.300 + 3.00 + 0.400 = 3.700 m $\frac{10.0 \times 30.0}{10.0 \times 100} \times 1.00 = 23.166 \text{ kN/m}$ P1 =  $3.70 \times 3.50$ 

3-5

1.44

DIMENSION(KM)INTO THIS CALCULATION NOTE: THE DIMENSIONCOME EXCHANG TO

Depth = 3.000

BOX FOR FOOTPATH NO.1 BOX

3

(m) ×

20

|                                      | r<br>P<br>S | 1.000E-05<br>1.000E-05<br>1.000E-05<br>1.000E-05         |
|--------------------------------------|-------------|----------------------------------------------------------|
|                                      | E (t/m2)    | 2.508+07<br>2.508+07<br>2.508+07<br>2.508+07<br>2.508+07 |
|                                      | (m)<br>(L   | 8 8 8 8 8 8 8 9 9 9 9 9 9 9 9 9 9 9 9 9                  |
|                                      |             | Fix<br>Fix<br>Fix<br>Fix<br>Fix<br>Fix<br>Fix            |
| 00000                                | (m4)        | 0.005330<br>0.005330<br>0.005330<br>0.005330             |
|                                      | A (m2)      | 0.40000<br>0.40000<br>0.40000<br>0.40000                 |
| 0.0000<br>3.4000<br>3.4000<br>3.4000 | r,          | ころする                                                     |
|                                      | •           | 1 1 1 1<br>កាលាលា <del>បា</del>                          |
| <u> ~ 1 인 () 4</u>                   | No          | すころす                                                     |
|                                      |             |                                                          |

BOX FOR FOOTPATH

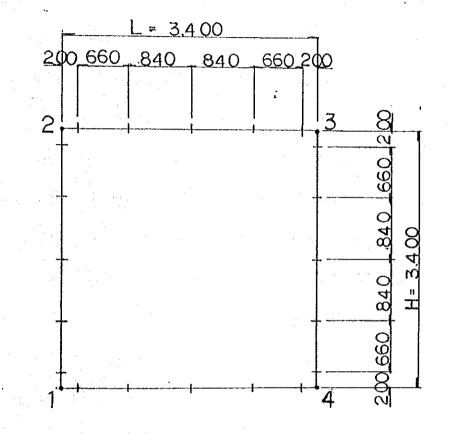
|           | . 16.        | :                |
|-----------|--------------|------------------|
| M(tm/Rad) | Free<br>Free |                  |
| Y (t/m)   | ЯIX<br>FIX   |                  |
| X (t/m)   | FI Kee       |                  |
| No        | ч 4          | BOX FOR FOOTPATH |

| L-No<br>20         |       |       |       |       |
|--------------------|-------|-------|-------|-------|
| 51<br>6<br>1-7     |       |       |       |       |
| L-No<br>18<br>18   |       |       |       |       |
| L-N0               |       |       |       |       |
| L-No<br>16         |       |       |       |       |
| 2000<br>1 × 0<br>1 | 3.200 | 3.200 | 3.200 | 3.200 |
| L-No<br>1 4<br>4 4 | 2.540 | 2.540 | 2.540 | 2.540 |
| 733<br>133<br>1    | 1.700 | 1.700 | 1.700 | 1.700 |
| L-N0<br>123        | 0.860 | 0.860 | 0.860 | 0.860 |
| L-N0<br>11         | 0.200 | 0.200 | 0.200 | 0.200 |
|                    | ເດ    | 10    | ιņ    | ŝ     |
| 0%                 | -1    | ଧ     | ო     | শ     |

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6

## CALCULATION POINTS OF EACH FORCE



| Pj (t/m) | 440<br>740<br>620                     |                        |                   |     |                               |                        |              |          |                              |
|----------|---------------------------------------|------------------------|-------------------|-----|-------------------------------|------------------------|--------------|----------|------------------------------|
| j (t/m)  | 0000<br>7770                          |                        |                   |     |                               |                        |              |          |                              |
| ድ        | 1 1 0 0<br>0 0 0 0 0<br>4 4 7 0       | •                      |                   |     | Pj (t/m)<br>32.110<br>-65.430 | ·<br>·<br>·            |              | Pj (t/m) | -23.166<br>-23.166<br>36.112 |
| Pi (t/m) | -9.440<br>-9.440<br>-69.740<br>88.620 |                        |                   | · . | Pi (t/m)<br>65.430<br>-32.110 |                        |              | Pi (t/m) | -23.166<br>-23.166<br>36.112 |
| Lo (m)   | 3.400<br>3.400<br>3.400<br>3.400      |                        | ,<br>ba           |     | Lo (m)<br>3.400<br>3.400      |                        |              | Lo (m)   | 2.650<br>3.400               |
| Li (m)   | 0.000                                 | 0.000 (t)<br>0.000 (t) | essure load       |     | Li (m)<br>0.000<br>0.000      | 0.000 (t)<br>0.000 (t) | load-VL-     | Li (m)   | 0.000                        |
|          | XXXX<br>  +                           | ин<br>> Н              | : Earth pr<br>: 2 |     | × ×<br>                       | 17 11<br>m- 1975       | HB live<br>3 |          | メ<br>ン<br>ン<br>ン<br>、<br>、   |
|          |                                       | ผี่ผ                   |                   |     | • • • •                       | > т<br>ММ              | •• ••        |          |                              |
|          |                                       |                        | No                |     | •                             | •                      | . o.         |          |                              |
|          | 2 4 3 1                               |                        |                   |     | C1 7                          |                        |              |          | 0°0-4                        |
| 1        | 1 I I I<br>I I I I                    | ·                      |                   |     | 311 1<br>311 1                |                        | ,            |          | া । ।<br>৩০০ খ               |
| No       | 00 01 <del>4</del>                    | · ·                    | 19 - L            | :   | 3 H 0<br>N                    |                        |              | No       | ल ल म                        |

: Dead load No. : 1

BOX FOR FOOTPATH

|       |               | 1.1                | . ?                | м   |           |
|-------|---------------|--------------------|--------------------|-----|-----------|
|       | Pj (t/m)      | -23.166            | 123.166            |     |           |
| •     | Pi (t/m)      | -23.166            | -23.100            | • • |           |
| -     | Ľo (m)        | 1.750              | 3.400<br>3.400     |     |           |
|       | 1.1           | -Y 0.000           |                    |     | 0.000 (t) |
|       |               |                    |                    |     | H ⊨<br>NH |
| 1<br> | وسر<br>ا<br>ا | 00 m<br>1 1<br>0 0 | ) r-1<br> <br>  ** | *.  |           |
|       | 0N<br>N       | 20                 | 14                 |     |           |

: HB live load-VL-

No.

BOX FOR FOOTPATH

BOX FOR FOOTPATH

: HB live load-HL-: 5 No.

| Pj (t/m) | 17.150<br>-17.150 |                          |
|----------|-------------------|--------------------------|
| Pi (t/m) | 17.150<br>-17.150 |                          |
| Lo (m)   | 3.400<br>3.400    |                          |
| Li (m)   | -X 0.000<br>-X-   | 0.000 (t)<br>0.000 (t)   |
|          | ××                |                          |
| ·        |                   | H B<br>N N<br>N N<br>N N |
|          | いす                |                          |
| i_i oN   | 31                |                          |
| No       | 03                |                          |

0.000 (t) 0.000 (t)

|                                                   |                                         |                  | 0.00                                | - 00                                |                                     |
|---------------------------------------------------|-----------------------------------------|------------------|-------------------------------------|-------------------------------------|-------------------------------------|
|                                                   |                                         |                  | R.M. (tm)<br>0.000<br>0.000         | RM (tm)<br>0.000<br>0.000           |                                     |
|                                                   |                                         |                  | 3<br>RY (t)<br>-0.001<br>0.000      | 6<br>RY (t)<br>-0.001<br>-0.001     |                                     |
|                                                   |                                         |                  | Case.<br>RX (1)<br>0.000<br>0.000   | Case.<br>EX (t)<br>0.000<br>0.000   |                                     |
|                                                   |                                         |                  | RM (tm)<br>0.000<br>0.000           | RM (tm)<br>0.000<br>0.000           | RM (tm)<br>0.000<br>0.000           |
|                                                   |                                         |                  | 2<br>RY (t)<br>0.000<br>0.000       | 5<br>RY (t)<br>0.000                | 8<br>RY (t)<br>0.000<br>0.000       |
|                                                   |                                         |                  | Case.<br>RX (t).<br>0.000           | Case.<br>RX (t)<br>0.000<br>0.000   | Case.<br>RX (t)<br>0.000<br>0.000   |
| C-V00000000 88<br>10000000 88<br>1000000000000000 |                                         |                  | RM (tm)<br>0.000<br>0.000           | R.M (tm)<br>0.000<br>0.000          | RM (tm)<br>0.000<br>0.000           |
| CN00<br>11.3800<br>0.0000<br>0.0000<br>0.0000     | ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ |                  | RY (t)<br>0.000<br>0.000            | RY (t)<br>0.000<br>-0.001           | RY (t)<br>0.000<br>-0.001           |
| C-1000000000000000000000000000000000000           | 2<br>9<br>                              | ·                | Case. 1<br>RX (t)<br>0.000<br>0.000 | Case. 4<br>RX (t)<br>0.000<br>0.000 | Case. 7<br>RX (t)<br>0.000<br>0.000 |
| BOX FOR FOOTPATH                                  | NO                                      | BOX FOR FOOTPATH | No.<br>1.                           | NO .<br>1                           |                                     |
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| No.        | Case.<br>X-DIS.(mm) | 1<br>Y-DIS.(mm) | Case. 1<br>X-DIS.(mm) Y-DIS.(mm) ROTA.(mmRad) | Case.<br>X-DIS.(mm) | 2<br>Y-DIS. (mm) 1 | ROTA. (mmRad) | Case.<br>X+DIS.(mm) | · Y-DIS. (mm)  | ROTA. (mmRad) | •   |
|------------|---------------------|-----------------|-----------------------------------------------|---------------------|--------------------|---------------|---------------------|----------------|---------------|-----|
| •          | 0.0000              | 0.00000         | 5 15873                                       | 0.0000              | 0.0000             | -3.09193      | 0.00000             | 0.00000        | 2.2868        | :   |
| ୧          | -0.01359            | -0.45766        | -4 57264                                      | -0.03359            | 0.00000            | 2.90199       | 0.00320             | -0.20873       | -2.4250       |     |
| ę          | 0.0000              | -0.45766        | 4 57264                                       | -0.28189            | 0.00000            | -2.90199      | 0.00000             | -0.20873       | 2.4250        | •   |
| <b>ন</b>   | -0.01359            | 0.0000          | -5.15873                                      | -0.31548            | 0.00000            | 3.09193       | 0.00320             | 0,0000         | -2.2868       | •   |
|            |                     |                 |                                               |                     |                    |               |                     |                |               |     |
|            | Case.               | 4               |                                               | Case.               | <u>ی</u>           |               | Case.               | c              |               |     |
| No.        | X-D1S. (mm)         | Y-DIS. (mm)     | X-DIS.(mm) Y-DIS.(mm) ROTA.(mmRad)            | X-DIS.(mm)          | Y-DIS. (mm)        | ROTA.(mmRad)  | X-DIS. (mm)         | Y-DIS.(mm)     | ROTA. (mmRad) |     |
|            | 0.0000              | 0.0000          |                                               | 0.0000              | 0.0000             | -1.05388      | 0.00000             | 0.00000        | 5.2875        |     |
| 2.         | 0.02511             | -<br>-<br>-     | ł                                             | 0.00000             | 0.00000            | 1.05388       | -0.06960            | -0.93005       | -4.9897       |     |
|            | 0.02499             |                 |                                               | -0.09913            | 0.00000            | -1.05388      | -0.46512            | -0.93005       | 4.9897        |     |
| 4.         | 0.00012             | 0.00000         | -2.05406                                      | -0.09913            | 0.00000            | 1.05388       | -0.53471            | 0.00000        | -5.2875       |     |
| •          |                     |                 |                                               |                     | :                  | · ·           | · .                 | ••••<br>•<br>• |               |     |
|            | _                   | 7               | ·                                             |                     | œ                  |               |                     |                |               | • . |
| 0N         | X-DIS.(mm)          | Y-DIS.(mm)      | Y-DIS.(mm) ROTA.(mmRad)                       | X-DIS. (mm)         | Y-DIS.(mm)         | ROTA. (mmRad) |                     | ·              |               |     |
| ,<br>,-    | 0.0000              | 0.0000          | 5.25450                                       | 0.00000             | 0.00000            | 0.27846       |                     |                |               | •   |
| <u>ر</u> ا | -0.03827            | -0.97194        | • •                                           | -0.07418            | -0.63157           | 0.21696       |                     |                |               |     |
| а.<br>С    | -0.42938            | -0.87126        | 4                                             | -0.62868            | -0.63157           | -0.21696      |                     |                | •             |     |
| च          | -0.53912            | 0000010         | -4.95467                                      | -0.70286            | 0.00000            | -0.27846      |                     |                |               |     |
|            |                     |                 |                                               |                     |                    |               |                     |                |               |     |

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|   |                                                                                                  |                       | 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | 1 39  | 1.39            | i vii<br>ko |        | 1 C<br>7 C<br>4 F |             | 50.40  | 5           |             | 8,0  | 20.94                     | 94              | 75-0               |                   | > c     | 5 - C - | 94          |             | 1.39                     | 61.39                                   | 61,39  | 000                                                                     |                                                                                                  | 050.10-  | 01.03                 | 1.35        |             | 40.    | 56.                                                                | ò                                                                                      | * •<br>• • | 4<br>7 | .94     | ସ୍     | 0.943      |  |
|---|--------------------------------------------------------------------------------------------------|-----------------------|-----------------------------------------|-------|-----------------|-------------|--------|-------------------|-------------|--------|-------------|-------------|------|---------------------------|-----------------|--------------------|-------------------|---------|---------|-------------|-------------|--------------------------|-----------------------------------------|--------|-------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------|----------|-----------------------|-------------|-------------|--------|--------------------------------------------------------------------|----------------------------------------------------------------------------------------|------------|--------|---------|--------|------------|--|
|   |                                                                                                  | ve load-VL-           |                                         | 90°0  | 40.             | -0.943      | 7.5 0  |                   |             | 7 ·    | ÷2.0        | (<br>,      | 1.39 | 6.75                      | 5.91            | 0.00               | 6<br>0            | -26 767 |         |             |             | 5                        | 94                                      | 5.2    | 40                                                                      | 0                                                                                                |          | יי <del>ו</del><br>הי | 5           |             | 50.5   | 97                                                                 | 0.25                                                                                   |            |        | -30.334 | 51 10  | 61.39      |  |
|   |                                                                                                  | ase 3HBli<br>V (fm)   |                                         | 16.35 | 17.05           | -17.674     | 1.8.46 | 19.25             | 0           |        | 50.07       |             | 2    | 10<br>1<br>10<br>10<br>10 | 4.02            | 0.36               | 4.02              | 10 21   |         | 00.0        |             | 20.00                    | 19.88                                   | 19:25  | 18.46                                                                   | 17 57                                                                                            |          |                       | 02.01       | υ<br>υ<br>ν | 0.00   | 5.30                                                               | 10<br>10<br>20<br>20<br>20<br>20<br>20<br>20<br>20<br>20<br>20<br>20<br>20<br>20<br>20 | с<br>ц     |        | 27.9.22 | 02.0   | 6.86       |  |
|   |                                                                                                  | N (t) C               | Ċ                                       | 3     | 80.             | 000 0       | 80.    | 00                | 000         | ŝ      | >           | 70 00       |      | 13.01                     | 0<br>0<br>0     | 73.03              | 73.03             | -73,030 |         | 00.00       | ç           | -                        | 9                                       | 9      | ٩,                                                                      | 2                                                                                                |          | Ş                     | 2           | 00 70       | 0      | 9.2.78                                                             | 92.78                                                                                  | 92.78      |        |         | 21-22  | 92.78      |  |
|   |                                                                                                  | pressure loa<br>S (t) | 0<br>L                                  | • •   | ה<br>היי<br>היי | 40.142      | 4 , 28 | 41.79             | 6.43        | 3.03   | )<br>)<br>• | ę           |      | 5.0                       | 00              | 80                 | 80.0              | 0.000   | S       | >           | 0<br>0<br>0 |                          | 4                                       | 1.79   | 128                                                                     | 0.14                                                                                             | -79.898  | 92 78                 |             | Ç           | 20     | ?                                                                  | 9                                                                                      | ਼          | 0      |         | 2 0    | 2          |  |
| • | 0<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1 | M (tm)                | 2 C P                                   |       |                 | 52.405      | 0.95   | 7.14              | 8 79        | 2 74   |             | 2 74        | 5 1  |                           |                 | 22 74              | 22.74             | -22.746 | 22.74   | -<br>-<br>- | 2 7 4       | - C<br>- C<br>- I<br>- O | 0                                       | 1.14   | 6.98                                                                    | 2.40                                                                                             | -6.973   | 4.23                  | )<br>1<br>- | 423         | 00 10  | 0 4 0<br>4 4<br>4 4<br>4 4<br>4 4<br>4 4<br>4 4<br>4 4<br>4 4<br>4 | 64.23                                                                                  | 24.23      | 24.23  |         |        | 1.1.1      |  |
|   | Cae<br>Cae                                                                                       | 5                     | 50.65                                   | 48.75 |                 |             | 00.401 | 126.676           | 120.44      | 118.55 | · .<br>· .  | .99         | 0    | 0                         | 2 C<br>2 C<br>- | ה מ<br>ה מ         | 50.               | 3,998   | 96      |             | 118.55      | 1.90 44                  | 1 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 | 10.021 | 00 - 40 T                                                               | 142.53                                                                                           | -148.766 | 150.65                |             | 3.99        | 000    |                                                                    | 5 · 6 6                                                                                | 3.99       | 3.99   | -3.998  |        |            |  |
|   | oad                                                                                              | S (t)                 | 99.                                     | 0     |                 |             |        | ה כ<br>ה כ        | 5.5         | . 99   |             | 118.558     | 04.5 | н<br>200                  |                 | ) u                | 0.00              | 4<br>9  | 1.18.5  | 4.<br>1.    | 3.99        | 3.90                     | 000                                     |        | n (<br>n (<br>n (                                                       | 5<br>7<br>7<br>7<br>7<br>7<br>7<br>7<br>7<br>7<br>7<br>7<br>7<br>7<br>7<br>7<br>7<br>7<br>7<br>7 | -3.998   | 3.99                  | ÷           | 150.654     | 32,93  | 74.44                                                              | " (<br>" (                                                                             | 0.0        | -74.44 | .93     | 150.65 |            |  |
|   | se I Dead 1                                                                                      | E                     | . 4<br>. 5                              | 14.13 | 1.49            |             |        | 0                 | * * * *     | 1.34   |             | -31.341     | 9.02 | 4.82                      | 9.43            | 5 4 5 7<br>7 - 8 2 | 4 C<br>5 C<br>7 C | 10.00   | 1.34    | -           | 31.34       | 32.14                    | 3.4: 7.8                                |        | 5 C<br>7 7<br>7 7<br>7 7<br>7 7<br>7 7<br>7 7<br>7 7<br>7 7<br>7 7<br>7 | n <b>* • * *</b>                                                                                 | 4        | 4.93                  |             | -44.935     | 10.51  | 5.2                                                                |                                                                                        | 2          | 1.85   | 6.57    | 44.93  | )<br> <br> |  |
|   | Ca                                                                                               | L(m)                  | 0.000                                   | - 20  | . 86            | . 70        | u      | 1. C              | 4<br>4<br>- | ⊃<br>₹ |             | 000.0       | 120  | . 86                      | .70             | 10                 |                   | • •     | 4<br>7  |             | 0.000       | 0<br>6<br>7              | .86                                     | C<br>C | ц<br>ц                                                                  | 7 <<br>5 <<br>•                                                                                  | 0.5      | 40                    |             | 0.000       | 0<br>0 | . 86                                                               | i<br>i                                                                                 | > `<br>• ! | 40.    | с<br>1  | .40    |            |  |
|   |                                                                                                  | No                    | 다<br>                                   |       |                 | · .         |        |                   |             | -<br>1 | 1.1         | 1<br>1<br>1 | 1    |                           |                 |                    |                   |         |         |             | 9<br>1<br>1 | *                        |                                         | ų      |                                                                         |                                                                                                  | ×.       |                       |             | - 77        |        |                                                                    |                                                                                        |            |        | *       |        |            |  |

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| (†) (†)<br>N            | -295.650                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 | 262.60         | 251.39   | 116.33 | -116.331 | 116.35 | 116.33 | 115.33   | 116.33             | 116.33 | 9 E J 3 G      | 5 C C            | 00 - 707<br>199 | 262.60 | 273.54 | 284.48 | -293.085 | 295.69  | -157.269 | 157.20 | 7.26    | 157.26 | 157.26 | 157.26 | 157.26  |   |
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| \$ (t)                  | 157.269<br>136.000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | -2.89                                 |                | 16.33    | 2      | 225.524  | 36.49  | 00.00  | 135.49   | 5<br>5<br>10<br>10 | 251.39 | 15 25          | )                | 1410            | 54.73  | 2.89   | 70.40  | -136.000 | 57.26   | 95.69    | 60.290 | 146.106 | 00.    | 146.10 | . 90   | 295.69  | · |
| ase 6<br>M (tm)         | -126.114<br>-96.797                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | -1-51                                 | 7.29           | 05.48    | 9.48   | -61.789  | 58.68  | 6,00   | 58.68    | -61:78             | 9.48   | 00 00          | 04.001           | 1.23            | 30.74  | 10.1   | 29.07  | 5        | 26.11   | 6.11     | 70.45  | 63.8    | 5.22   | 63.85  | 70.45  | 6.11    |   |
| N (t) Ca                | 0000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 20                                    | 00             | <u> </u> | 29.15  | -29 155  | 29.15  | 50.75  | 20.10    | 29.15              | 29.15  | ç              | $\frac{2}{2}$    | 8.              | 00.    | 00.    | 80.    | 0.000    | 00.     | 29.15    | 29.155 | 9.15    | 29.155 | 29.I55 | 29.15  | -29.155 |   |
| load-HL-<br>S (t)       | 20.150<br>20.150<br>20.25<br>20.25<br>20.25<br>20.25<br>20.25<br>20.25<br>20.25<br>20.25<br>20.25<br>20.25<br>20.25<br>20.25<br>20.25<br>20.25<br>20.25<br>20.25<br>20.25<br>20.25<br>20.25<br>20.25<br>20.25<br>20.25<br>20.25<br>20.25<br>20.25<br>20.25<br>20.25<br>20.25<br>20.25<br>20.25<br>20.25<br>20.25<br>20.25<br>20.25<br>20.25<br>20.25<br>20.25<br>20.25<br>20.25<br>20.25<br>20.25<br>20.25<br>20.25<br>20.25<br>20.25<br>20.25<br>20.25<br>20.25<br>20.25<br>20.25<br>20.25<br>20.25<br>20.25<br>20.25<br>20.25<br>20.25<br>20.25<br>20.25<br>20.25<br>20.25<br>20.25<br>20.25<br>20.25<br>20.25<br>20.25<br>20.25<br>20.25<br>20.25<br>20.25<br>20.25<br>20.25<br>20.25<br>20.25<br>20.25<br>20.25<br>20.25<br>20.25<br>20.25<br>20.25<br>20.25<br>20.25<br>20.25<br>20.25<br>20.25<br>20.25<br>20.25<br>20.25<br>20.25<br>20.25<br>20.25<br>20.25<br>20.25<br>20.25<br>20.25<br>20.25<br>20.25<br>20.25<br>20.25<br>20.25<br>20.25<br>20.25<br>20.25<br>20.25<br>20.25<br>20.25<br>20.25<br>20.25<br>20.25<br>20.25<br>20.25<br>20.25<br>20.25<br>20.25<br>20.25<br>20.25<br>20.25<br>20.25<br>20.25<br>20.25<br>20.25<br>20.25<br>20.25<br>20.25<br>20.25<br>20.25<br>20.25<br>20.25<br>20.25<br>20.25<br>20.25<br>20.25<br>20.25<br>20.25<br>20.25<br>20.25<br>20.25<br>20.25<br>20.25<br>20.25<br>20.25<br>20.25<br>20.25<br>20.25<br>20.25<br>20.25<br>20.25<br>20.25<br>20.25<br>20.25<br>20.25<br>20.25<br>20.25<br>20.25<br>20.25<br>20.25<br>20.25<br>20.25<br>20.25<br>20.25<br>20.25<br>20.25<br>20.25<br>20.25<br>20.25<br>20.25<br>20.25<br>20.25<br>20.25<br>20.25<br>20.25<br>20.25<br>20.25<br>20.25<br>20.25<br>20.25<br>20.25<br>20.25<br>20.25<br>20.25<br>20.25<br>20.25<br>20.25<br>20.25<br>20.25<br>20.25<br>20.25<br>20.25<br>20.25<br>20.25<br>20.25<br>20.25<br>20.25<br>20.25<br>20.25<br>20.25<br>20.25<br>20.25<br>20.25<br>20.25<br>20.25<br>20.25<br>20.25<br>20.25<br>20.25<br>20.25<br>20.25<br>20.25<br>20.25<br>20.25<br>20.25<br>20.25<br>20.25<br>20.25<br>20.25<br>20.25<br>20.25<br>20.25<br>20.25<br>20.25<br>20.25<br>20.25<br>20.25<br>20.25<br>20.25<br>20.25<br>20.25<br>20.25<br>20.25<br>20.25<br>20.25<br>20.25<br>20.25<br>20.25<br>20.25<br>20.25<br>20.25<br>20.25<br>20.25<br>20.25<br>20.25<br>20.25<br>20.25<br>20.25<br>20.25<br>20.25<br>20.25<br>20.25<br>20.25<br>20.25<br>20.25<br>20.25<br>20.25<br>20.25<br>20.25<br>20.25<br>20.25<br>20.25<br>20.25<br>20.25<br>20.25<br>20.25<br>20.25<br>20.25<br>20.25<br>20.25<br>20.25<br>20.25<br>20.25<br>20.25<br>20.25<br>20.25<br>20.25<br>20.25<br>20.25<br>20.25<br>20.25<br>20.25<br>20.25<br>20.25<br>20.25<br>20.25<br>20.25<br>20.25<br>20.25<br>20.25<br>20.25<br>20.25<br>20.25<br>20.25<br>20.25<br>20.25<br>20.25<br>20.25<br>20.25<br>20.25<br>20.25<br>20.25<br>20.25<br>20.25<br>20.25<br>20.25<br>20.25<br>20.25<br>20.25<br>20.25<br>20.25<br>20.25<br>20.25<br>20.25<br>20.25<br>20.25<br>20.25<br>20.25<br>20.25<br>20.25<br>20.25<br>20.25<br>20.25<br>20.25<br>20.25<br>20.25<br>20.25<br>20.25<br>20.25<br>20.25<br>20.25<br>20.25<br>20.25<br>20.25<br>20.25<br>20.25<br>20.25<br>20.25<br>20.25<br>20.25<br>20.25<br>20.25<br>20.25<br>20.2 | 4.40                                  | 14.40          | 9.15     | ଼      | 0.000    | ୍      | Ŷ,     | <u> </u> | <u>,</u>           | 0.000  | 14<br>17<br>10 | с т - 2<br>2     | 5.72            | .40    | 00.    | 14.40  | ь.<br>10 | 29,15   | 00.      | 00.    | 0.000   | 000    | .00    | 00.    | .00     |   |
| 5 HD live<br>M (tm)     | -8.261                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 6.52<br>6.52                          | 2 77           | 8.26     | 26     | -8.261   | 8.26   | 26     | 8 26     | 8.26               | .26    |                | 01               | 2.77            | 0.47   | 6,52   | 0.47   | 5        | ω       | 8,26     | 8.26   | .26     | 8.26   | 8.26   | 8.26   | œ       |   |
| Case (1)                | -70.007                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 202                                   | 6 C            | 20       | ്ന     | 0        | 03     | 0.03   | 03       | 0.03               | 0.03   | 0<br>0<br>0    | <b>7</b> 7 7 7 7 | 49.29           | 49.29  | 49.29  | 49.29  | -49.298  | 49.29   | .03      | . 03   | 03      | .03    | 03     | .03    | 0.036   |   |
| load-VL-<br>S (t)       | -0.036                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 0.0                                   | . 03<br>0. 03  | 0.03     | 0.00   | 60.740   | 0.16   | 8.75   | 9.37     | 44.66              | 9.29   | ;<br>;         | .03              | S.              | : 03   | .03    | .03    | S        |         | 9.29     | 5.54   | 51      | 4.40   | 28.67  | 9.72   | -70.007 | • |
| ase 4 HB live<br>M (tm) | -17.761                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 17.752                                | 17.85<br>17.87 | 17.883   |        | . 80     | 5.18   | 1.17   | 7.70     | 6.72               | 6.12   | (<br>          | 7 T - 9 T        | 16.11           | 16.09  | 16.06  | 16.03  | 6.00     | -16.002 | 6.00     | 6.53   | 8.75    | 3.82   | 4.13   | 4.79   | -17.761 |   |
| Ca<br>L(m)              | 0.000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | . 70                                  | 10 C           | 40       | ဲ့     | 0.200    | . 86   | . 70   | 5        | .20                | .40    | 0              | 3                | 0<br>0<br>1     | .86    | .70    | 5.0    | 20       | 3.400   | 0        | 20     | 86.     | 6      | - LC   | 50     | 3 400   | • |
| No                      | ¢1 ↔ (                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | ୬ କ<br>* *                            |                | :        |        | ¥        |        |        |          |                    |        |                |                  |                 |        |        |        | در)<br>* | 4-      |          | ×      | * *     |        |        |        | 0 √<br> |   |

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| 1 a 14 s        |         |          |               | :          |         |          |      |          |             |               |                                      | 21             |                       |      |         |                              |         |          |      |                       |              |            |        |              |        |            |      |            |        |               |            |
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| · ·             | ۱.<br>ب | <u>.</u> | . C           | > c        | n Q     | . 6      | ) i- | 4        |             | ŧ.,           | 00                                   | $\mathfrak{o}$ | юc                    | 0 0  | e e     | 2 C<br>C<br>C<br>C<br>C<br>C | ,       | 10       | 10   | 5 0<br>4 <del>-</del> | ) (C<br>1 IC |            | 1      |              |        | <b>,</b> , | ດ່ວ  | γ (<br>)   | 2 6    | n e           | 5 m        |
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|                 |         |          | · · c         | ù ¢        |         | 1.0      |      |          | 19          |               | rul y                                | -              |                       | 4 👳  | 4 -     | 9<br>1<br>1<br>1             |         | -16      | -    | 1 -                   | <br>         | 1 -        | 10     | 120          | . 6    | > <        | ) c  | ) (<br>) ( | 20     | o c           | 202        |
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|                 |         | (.tm)    | ŝ             | ) (C       | 479     | 걸        | 1    | 4.4      |             |               | -1+<br>41,4                          | -1 Ç           | > u                   | > c  | ) in    | 4<br>1<br>0<br>0             |         | 4        | 4    | 20                    | 149          | 547        | 30     | 612          | 63     | 9          |      | 5 6        |        | r o           | 629        |
|                 | ά<br>α  | ž        | . u           | ) (C       | -<br>-  | ŝ        | 4    | 63       |             | ंद            | ም ሮ<br>አ. ሮ                          | ό¢             |                       |      |         |                              |         | σ        | -63. | 14                    | 0            | 10<br>11   | 76     | ເດ<br>H      | ري<br> | 1          |      |            | 10     | 0             | -          |
|                 | 30.0    | )        | F             |            |         | :        |      | •        |             |               |                                      |                |                       |      |         | •                            |         | •        | '    |                       |              |            | '      | 1            | ī      |            |      |            |        | 1             | Ĩ          |
|                 | - U     | •        | 1 - 4<br>- 5  |            |         |          |      |          |             |               |                                      |                |                       | ;    |         |                              |         |          |      |                       |              |            |        |              |        |            |      |            |        |               |            |
|                 |         | (t)      | <del></del> . | ١Ö         | 808     | 9        | ŝ    | ŝ        | 01          | ୍             | နိုင်                                | 36             | 200                   | ) (Q | 107     | 034                          |         | 0        |      | -                     | 253          | S          | σ      | 399          | 9      | 9          | 9    | 20         | ) (C   | 202           | 0          |
| •               |         | 2        | 0             | 0          | 96      | ¢        | 74   | 9        | 63          | . •           | 5 U<br>1 m                           | ÷ –            | រព                    |      |         | 101<br>101                   |         | ад.<br>С | 36.  | 4<br>12<br>13         | 50.          | 67.        | 75.    | 78.          | 58.    | 89         | 80   |            |        | <br>ວິດ<br>ເມ | 5 8<br>2 8 |
|                 |         |          | - es<br>- i   |            | 1       | ĩ        | 1    | с)<br>I  | 1           |               |                                      |                | بينية (<br>ا          |      |         | 1                            |         |          |      |                       | 100          |            |        |              |        |            |      |            | 1      | 1             | 1          |
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|                 |         | -        | ം             | 2.9        | .70     | 00       | G    | -        | ŝ           | C             | 10                                   | 10             | - C1                  | .7*  | 53      | 100                          |         | 63       | ÷    | 49                    | . 60(        | 70         | ĊD,    | ഗ            | 40     | 5          | 03   | 50         | 6      | 845           |            |
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| . *             | ė       | ×        | <u></u>       |            | 62<br>1 |          | 2    |          | 10          | ି କୁ          | 1.56                                 |                |                       | 40   | ŝ       | 20                           |         | 2 (      | 2    | C)                    |              | 22         | S)     | 2            | 7 7    | 5          |      |            | ഇ      | -69           | 12         |
| e e             | Case    | • •      | •             | 1          |         | • •      |      |          | I           | 1             |                                      | 2              |                       |      |         | , F                          |         | I        |      |                       |              |            |        | '            | I      |            |      |            |        |               | 1          |
|                 |         | Â.       | 00            | 00         | 0.9     | 00       | 40   | 00       | 00          | 00            | 00                                   | 20:            | ö                     | 9    | 00      | 0.0                          |         |          |      |                       | s<br>S       |            |        |              |        |            |      |            |        | 00            |            |
|                 |         | 3        | 0             | ્ય         | 0.8     | -        | ຸດເ  | 2        | 4           | ୍ଦ            | 2                                    | ø              | ٢.                    | ល    | \$      | 4                            | C       | > ^      | 2.6  | ÷,                    | <u>- 1</u>   | 0          | 2      | 4            | •      | ?          | ŝ    | ۲.         | ŝ      | 3.2           | 7          |
| ni<br>Literatur |         |          | :             | •          | :       |          |      | ;        |             | •             | •                                    | •              |                       |      |         |                              |         |          |      |                       |              |            |        |              |        | •          |      |            |        |               |            |
|                 |         | 2<br>Z   | 64            |            |         |          |      | . 1      | na a<br>E   |               | ••••                                 |                |                       |      | •       |                              |         |          |      |                       |              |            |        |              |        |            |      |            | ·      | ιQ<br>υ       |            |
| <br>            | . • •   |          | - 1<br>- m    | *          | *       | *        | *    | ×<br>(   |             | 1             |                                      | ×              | *                     | ж,   |         | n<br>m                       | ູ<br>ຕິ |          |      | ÷                     | × ·          | ¥ ·        |        | 4            | 4      | •X•        | **   | *          | ×      |               | <b>-</b>   |
|                 | •       |          |               |            |         |          |      |          | *           | 5<br>- 1      |                                      |                |                       |      |         |                              |         |          |      |                       |              |            |        |              |        |            |      |            |        |               |            |

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| N. I. W.                                | <b>&gt;</b>     | 1308        | 97 -305.407 | 0 -296.80                                                        | 7 -273.54                        | 7 -262.60      | 1 -254.00 | 1 -251 39 |              |          |                                                                                                  |            |        |                          | 18 -116.331 |         | 1 -251.39             | 1 -254.0         | 7 -262.60         | 7 -273.54    | 3 -284:48                                                    | 0 -293.08         | -295.09 |                  | L -157.26    | 3 -206.72         | 8 -206.72 | 0 -206.72 | -206        | 3 -206.72               |
|-----------------------------------------|-----------------|-------------|-------------|------------------------------------------------------------------|----------------------------------|----------------|-----------|-----------|--------------|----------|--------------------------------------------------------------------------------------------------|------------|--------|--------------------------|-------------|---------|-----------------------|------------------|-------------------|--------------|--------------------------------------------------------------|-------------------|---------|------------------|--------------|-------------------|-----------|-----------|-------------|-------------------------|
|                                         | 2 S             | 28<br>28    | 2           | 71.7                                                             | 00<br>()                         | -64.7          | 105.4     | 16.3      | e<br>F<br>U  | <br>     | 4<br>4<br>7<br>7<br>7<br>7<br>7<br>7<br>7<br>7<br>7<br>7<br>7<br>7<br>7<br>7<br>7<br>7<br>7<br>7 | 0 C<br>2 C |        | 0 0<br>0 0<br>0 0<br>0 0 | -251.39     |         | 16.33                 | 105.41           | 64.78             | 2.89         | 70.40                                                        | 130.00            | 7.26    | 0<br>0<br>1<br>0 | 5.0          | 83.54             | 02.72     | 00.0      | -102.728    | 183.44                  |
| × * * * * * * * * * * * * * * * * * * * | . (m)<br>M (tm) | 7.39        | - 62        | 9.24                                                             | 1.5                              | 30.74          | -87.29    | 05.48     | -100 401     | 104 04-  |                                                                                                  | 2.6        |        |                          | -109.481    |         | 9.48                  | 30               | 30.74             | 1.51         | 29.07                                                        | 6.79              | 20.     | 11 201           |              | うせい<br>いてい<br>いてい | 46.7      | 20-<br>   |             | 6.49                    |
|                                         | Case            |             | C- 7        | 4                                                                | 1                                | 1              | 1         | ŕ.        | . 1          | 1        | 1                                                                                                | ı          | 1      | 7                        | 0<br>U<br>U |         | 1                     | 0<br>-<br>-<br>- | ı.                | 1            | ı.                                                           | ı                 | ī       | 1                |              |                   | t i       |           | 5<br>5<br>5 | ċ                       |
| W                                       | . N (t)         | 207.9       | -205.297    | 196.69                                                           | 185.75                           | 174.81         | 17.001    | 10.001    | 163.08       | 115.03   | -115.034                                                                                         | 116.33     | 116.33 | 115.03                   | 163.08      |         | 103.61                | -166.215         | 174.81            | 185 75       | 196 69                                                       | 205.29            | 207.50  | 206.72           | - 100        |                   | 187 56    |           |             | 001                     |
| MAXIMU                                  | S (t)           | <b>C1</b>   | t (         | ດ<br>ເດີຍ<br>ເດີຍ<br>ເດີຍ<br>ເດີຍ<br>ເດີຍ<br>ເດີຍ<br>ເດີຍ<br>ເດີ | 19<br>19<br>19<br>19<br>19<br>19 | 02-28-         |           | 00.004    | 63.61        | 31.22    | 123.973                                                                                          | 00.00      | 136.49 | . 23                     | 163.61      | 000     | 8<br>2<br>2<br>2<br>2 | 140.5US          | 2                 | 4 G L C      |                                                              | 57 (<br>- 1       | 2.002   | 07.90            | G            | 46 10             |           |           | -768.845    |                         |
| PICK-UP No. 1 * M.                      |                 | -115.629    | 5.9         | ч<br>р.с                                                         |                                  | $\mathbf{D}$   |           | r.        | 94.4         | 6.8      | 60.352                                                                                           | 6.0        | 58.6   | 96                       | 4.4         | 1 V V V | <br><br>              |                  | ~ ~<br>> ~<br>1 c | 1 L T<br>1 V | - 10<br>- 10<br>- 10<br>- 10<br>- 10<br>- 10<br>- 10<br>- 10 | 0 c<br>7 4<br>5 4 | 20.011  | 15.62            | 10<br>N<br>0 | 63 85             | 5.00      | 60.05     | -69.721     | 10<br>- 4<br>- 4<br>- 4 |
| PICK-                                   | Case            | စ ဖ<br>ပ် လ | 5 J         | 5                                                                | s - i                            | i              |           |           | 1            | ī        | C- 7                                                                                             | 1          | ı      | . 1                      | ł           |         | ı                     | o c              | 1                 | ı            | ı                                                            | 1                 |         | 1                | 1            |                   | 1         | ì         |             | F                       |
|                                         | L (m)           | 00000       | 2002        |                                                                  | ) - r<br>- r                     | 10<br>00<br>00 | 40        | · .       | 0.000        | 0.<br>Ci | 80                                                                                               |            | 4      | . 20                     | 0.4         | 00.     | 20                    | 0.860            | . 70              | 10           | 000                                                          | 0 4<br>7 0        | •       | 00.              | - 20         | . 86              | 01        | ŝ         | 3.200       | 40                      |
|                                         | No.             | c) ⊢ ↓ ∻ ⊢  | - C         |                                                                  |                                  | ¥              |           |           | ເນ<br>ເ<br>1 |          | × (                                                                                              |            |        | X                        |             | С<br>Ч  |                       | *                | ·                 |              |                                                              |                   | 1       |                  |              |                   |           |           | ά<br>Υ      |                         |

-284.487 -273.544 -1274.813 -1166.215 -166.215 -165.089 +163.089 -163.089 -115.034 -115.034 -116.331 -116.331 -234.106 -236.712 -245.310 -245.310 -185.756 -185.756 -156.699 -156.699 -1205.297 9 -206.723 -206.723 -206.723 -157.269 -1157.269 -1158.569 -1158.569 -255.69( 2 K D M I N I 157.269 136.000 -146.509 -163.085 -2.897 -87.209 163.610 144.362 80.843 -12.523 -136.497 (t) -255.524 115.034 104.115 63.490 1.549 -55.521 70.403 207.903 183.443 102.728 0.000 -146.106 -268.845 -308.013 -179.795 -206.723 S  $\geq$ . Ś -126.114 -96.797 -29.0727 -1.517 -14.072 -63.442 -63.442 (tm) -94.413 -63.616 10.702 107.161 58.680 -61.789 -61.789 -103.84 -81.915 -26.218 52.149 13.479 -13.479 -13.679 -113.629 -115.629 -76.494 17.942 125.224 125.224 125.224 125.224 125.224 125.224 125.2359 1257.357  $\geq$ Case **လလလလလလ**လ x x0 x0 h-ഗഗ  $\sim \infty \propto \infty \infty$ 22222929 00000000 50000000 799999999 -207.903 -205.297 -196.659 -185.756 -274.923 -266.325 -265.325 -116.331 -163.089 -163.089 -163.089 -163.089 -163.610 -166.215 -174.813 -273.544 -273.544 -293.085 -293.085 -1157.269 -1157.269 -1157.269 -1158.565 -1158.565 -1158.565 -1206.723 +206.723 Ct) -115.034 -115.034 2 Σ AXIMU -115490 -104.115 -115.034 206.723 179.795 95.521 263.720 231.220 136.497 0.000 -80.843 -144.362 -163.610 163.089 146.509 87.209 2.897 -70.403 -136.000 295.591 260.904 146.105 6.294 6.294 1122.728 1123.443 1207.903 (£) S ∑. ۰., Ś -106.356 58.680 44.656 10.702 -63.616 -126.114 -70.454 63.859 123.086 17.942 -76.494 (m)) -94.413 -63.442 14.072 -14.072 -1.517 -217 -2072 -972 -972 -972 -972 94.413 PICK-UP No.  $\mathbf{\Sigma}_{i}$ Case ~~~~~~ 000000111 000000000 00010000 222222 9.99999999 2222229 2222222  $\begin{array}{c} 0.00\\ 0.200\\ 3.250\\ 3.400\\ 3.400\\ 3.600\\ \end{array}$ 0.860 1.700 2.540 3.200 3.400 0.0000.2000.2000.2000.2003.2003.2003.2003.2003.2000.000 0.200 0.200 0.860 2.540 3.200 3.200 3.400 3.400 3.200 200 000 e ୍ଦି 0. 202 N 10 10 17

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BOX FOR FOOTPATH

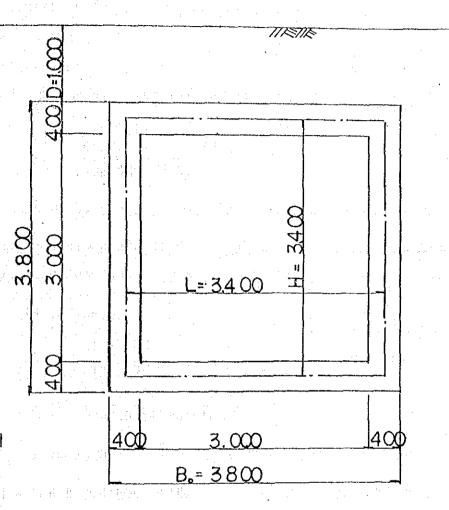
BOX FOR FOOTPATH

PICK-UP No. 1 \*

| · · · · ·   | (t)     | · •••   | 0      | 0      | ŝ          | 523      | 04     | \$1     | 1        | 50            | ŝ      | ŝ      | ¢O     | 089      | ω      | 60     | ഗ      | 0       | 101     | 77     | œ         | CC.    | S     | <b>C1</b> | Ċ1     | Ċ1     | <u>e</u> 1 | 2        | 23          | 01     |
|-------------|---------|---------|--------|--------|------------|----------|--------|---------|----------|---------------|--------|--------|--------|----------|--------|--------|--------|---------|---------|--------|-----------|--------|-------|-----------|--------|--------|------------|----------|-------------|--------|
| ×.          | 2       | 308.    | 305.   | 296.   | 285.       |          | 266.   | 263.    |          | 163           | 163    | 163.   | 163.   | -163.0   | 163.   | 163.   | 251.   | 254.    | -262.6  | 273.   | 284.      | 293.   | 295.  | 200.      | 206.   | 206.   | 206.       | 205.     | -206.7      | 206.   |
| MINIW       | S (t)   | 58 . 56 | 37.29  | 71.70  | -1.60      | 63.4     | 104 II | 5 03    |          | 63.61         | 36     | 80.84  | 00:00  | 80.8     | 144.36 | 63.61  | 16.33  | 05.41   |         | 2.89   | 70.40     | 136.00 | .26   | 05.90     | 83.44  | . 72   | 0.00       | 102.72   | -183.443    | 207.90 |
| ~           | (m;) K  | 27.35   | 7.82   | 29.24  | -0.59      | 28.      | 84 43  | 6.35    |          | 94.4          | 3.61   | 0.70   | 4.65   |          | 63.61  | 4.41   | 09.48  | 87.29   | 0.7     | 1.51   | 29.07     | 96.79  | H.    | 15.62     | 6.49   | 17.94  | 1.08       | 7.94     | -76.494     | 5.62   |
| ·<br>·<br>· | Case    | C- 7    | 1      | 1      |            | 'n       | ı.     | C- 7    | · .<br>• | 1             | 4      | 1      | · .    | с-<br>С  | 'n     | 1      | 1. i   | ;÷      | 00      | 1      | i         | ÷.     | C i Q | ŧ         | ı      | ŧ      | ι          | ŧ        | 0- 8<br>- 8 | ŧ      |
|             | N (t)   | 207.90  | 205.29 | 196.65 | 185.75     | -174.813 | 166.21 | 163.61  | -        | 15.03         | 115.03 | 115.03 | 115.03 | -115.034 | 115.03 | 115-03 | 163.61 | 166.21  | 174.8   | 185.75 | 196.69    | 205.29 | 06.   | 157.26    | 157.26 | 157.26 | 157.26     | 157.26   | -157.269    | I57.26 |
| MAXIMUM     | S (t)   | 06.7    | 9,79   | 95.52  | -1,54      | -87.209  | 46.50  | 63.08   |          | 63.72         | 31.22  | 23,97  | 12.52  | 122      | 08.23  | 234.10 | 63,08  | 6,50    | 87.2    | 1.54   | 95.52     | 179.79 | 6.72  | 95.69     | 60.50  | 07.    | 0.00       | 146.10   | -260.904    | 295.69 |
| N           | (tm) // | 15.62   | 6.98   | 3.47   | 2.14       | 14.072   | 63.44  | 4.41    |          | 6.35          | 56.86  | 0.35   | 7.16   | 49.      | 59.60  | 3.84   | 94.41  | 3.44    | 14.072  | 2.14   | 3.47      | 76.98  | . 62  | 26.11     | 0.43   | 63.85  | 51         | 63.85    | 70.45       | 6.1    |
|             | Case    |         | 1      | <br>T  | <b>`</b> 1 | ∞<br>5   | 1      | с-<br>8 |          | 1             | 1      | i.     | i.     | C - 7    | i      |        | ı      | ı       | ပ်<br>ဆ | ı      | ł         | ī      | 1     | , i       | 1      |        | 1          |          | ۍ<br>۲      |        |
|             | L (m)   | 00.     | .20    | 86     | . 70       | 2.540    | .20    | .40     |          | 8             | :20    | .86    | .70    | 2.540    | .20    | .40    | 00.    | 0<br>10 | 0.860   | .70    | , 54<br>4 | .20    | .40   | 00.       | . 20   | . 86   | . 70       | 10<br>10 | 3.200       | .40    |
|             | No.     | 42<br>1 |        | ÷.,    |            | *        | *      | 2 - 1   |          | 00<br>1<br>10 |        |        |        |          | *      |        | 3 - 4  |         | دم<br>* |        |           |        |       |           |        |        |            |          | ம<br>*      |        |

## NO030BOX: CULVERTFOR FOOTPATH

### 1) Shape and Size



Where --- D<sup>m</sup>= depth of asphalt and similar surface soil.

2) Factor of section A =  $1.00 \times 0.40$  = 0.4000 m<sup>2</sup> I =  $\frac{1.00 \times 0.40^{3}}{12}$  = 0.00533 m<sup>4</sup> Ec=  $25 \text{ kN/mm^{2}}$  =  $2.5 \times 10^{7} \text{ kN/m^{2}}$ 

No. (2), (3) and (4) BOX CULVERT FOR FOOTPATH (D=1.000<sup>m</sup>) section  $b=100^{cm}$  h=40 d=34.0(35.0) d'=6.0(5.0)1. calculation for bending moment (U.L.S) 1) For botton slab a) intersection point()=4Mu.min =  $-94.2^{KNm}$  $A_{s} = \left(\begin{array}{c} Y_{12} - 300^{\text{ctc}} = 1.131/0.30\\ Y_{16} - 300^{\text{ctc}} = 2.011/0.30 \end{array}\right) = 10.47 \text{ cm}^{2}$  $X = \frac{0.87 \times 41000 \times 10.47}{0.40 \times 2500 \times 100} \doteq 3.8 \text{ cm}$  $Z = 34.0 - \frac{3.8}{2} = 32.1^{cm} < 0.95 \times 34.0 = 32.3^{cm}$  OK  $M_{RS} = 0.87 \times 41000 \times 10.47 \times 32.1 \times 10^{-5} = 119.5^{KNm} > Mu = 94.2^{KNm}$  $M_{RC} = 0.40 \times 2500 \times 100 \times 3.8 \times 32.1 \times 10^{-5} = 122.0^{KNm} > Mu = 94.2^{KNm}$  OK b) middle point  $(4) \sim (1)$  $Mu_{\star}max = 105.5^{KNm}$  $A_{s} = \left(\begin{array}{c} Y_{12} - 300^{\text{ctc}} = 1.131/0.30\\ Y_{16} - 300^{\text{ctc}} = 2.011/0.30 \end{array}\right) = 10.47 \text{ cm}^{2}$  $X = \frac{0.87 \times 41000 \times 10.47}{0.40 \times 2500 \times 100} = 3.8 \text{ cm}$  $Z = 35.0 - \frac{3.8}{2} = 33.1^{cm} < 0.95 \times 35.0 = 33.2^{cm}$  OK  $M_{Rs} = 0.87 \times 41000 \times 10.47 \times 33.1 \times 10^{-5} = 123.6^{KNm} Mu = 105.5^{KNm}$  $M_{Rc} = 0.40 \times 2500 \times 100 \times 3.8 \times 33.1 \times 10^{-5} = 125.8^{KNm} > Mu = 105.5^{KNm}$ 0K 2) For upper slab middle point(2)~(3)  $Mu.max = 86.9^{KNm}$ (intersection point 2 = 3 Mu.min = -72.3<sup>KNm</sup>)  $M_R = 123.6^{KNM} > Mu = 86.9^{KNM}$  $A_{s} = \left(\begin{array}{c} Y_{12} - 300^{\text{ctc}} \\ Y_{12} - 300^{\text{ctc}} \end{array}\right) = 10.47 \text{ cm}^{2}$ Where...  $M_R$ : From calculation of point  $(4) \sim (1)$ 2) For side wall middle point(1)~(2), (3~(4) Mu.max= 47.1<sup>KNm</sup>  $A_s = Y_{16} - 300^{\text{ctc}} = 2.011/0.30 = 6.70 \text{ cm}^2$  $X = \frac{0.87 \times 41000 \times 6.70}{0.40 \times 2500 \times 100} \approx 3.6 \text{ cm}$ 3 - 19

$$Z = 35.0 - \frac{3.6}{2} = 33.2^{\text{cm}} < 0.95 \times 35.0 = 33.2^{\text{cm}} \text{ OK}$$

$$M_{\text{Rs}} = 0.87 \times 41000 \times 6.70 \times 33.2 \times 10^{-5} = 79.3^{\text{KNm}} > \text{Mu} = 47.1^{\text{KNm}}$$

$$M_{\text{Rc}} = 0.40 \times 2500 \times 100 \times 3.6 \times 33.2 \times 10^{-5} = 119.5^{\text{KNm}} > \text{Mu} = 47.1^{\text{KNm}}$$
2. calculation for shearing force

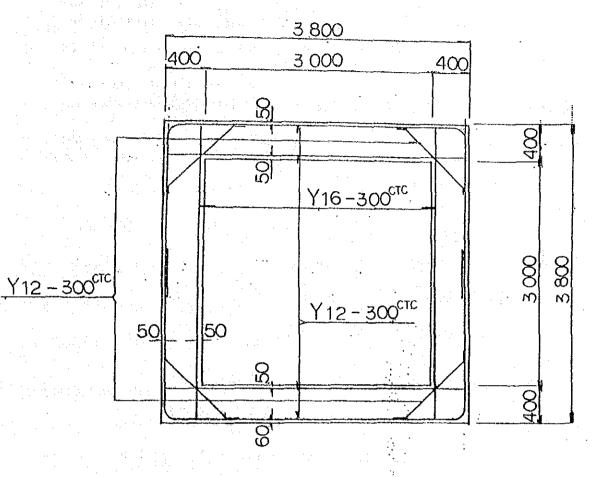
OK

a) intersection point() = () Su.max = 116.1<sup>KN</sup>  
intersection point() = () Su.max = 101.1<sup>KN</sup>  

$$A_{s} = \begin{pmatrix} Y_{12} - 300^{\text{ctc}} \\ Y_{16} - 300^{\text{ctc}} \end{pmatrix} = 10.47 \text{ cm}^{2}$$
  
 $P = \frac{10.47}{100 \times 35.0} \times 100 = 0.299 \%$   
 $V_{c} = \frac{116.1 \times 10^{3}}{100 \times 35.0} = 33.2 \text{ N/cm}^{2}$   
 $< V_{ca} = \begin{cases} 35.0 + \frac{15}{0.25}(0.299 - 0.25) \end{cases} = 38.0 \text{ N/cm}^{2}$  OK

e.

NO 23 BOX CULVERT FOR FOOTPATH



요. 이 생산이 '정도는 한 이 방법을 통해하고 같이 '한 것이 이 같은 것이 있는 것이 있는 것이다.

 $Y16 - 300^{CTC}$ 

NO@@and@ BOX CULVERTS FOR FOOTPATH (D=1.000m) Load 1)Dead load a)Vertical load For upper slab w1 = 22.6  $\times$  0.50 + 19.6  $\times$  0.50 + 23.60  $\times$  0.40 = 30.540 kN/m For side wall  $w^2 = 23.6 \times 0.40$ = 9.440 ,,  $2 \times 9.440 \times 3.40$ For bottom slab w3 = 30.540 += 49.420 3.40 b) Horizontal load (earth pressure) For side slab Pe1 =  $(22.6 \times 0.50 + 19.6 \times 0.70) \times 0.500$ = 12.510 kN/m $Pe2 = (22.6 \times 0.50 + 19.6 \times 4.10) \times 0.500$ = 45.830 " 2)Live load case-1 Vertical load of symmetry 1800 1700100 1700 P1=50 420 Pi B=0.30+1.00+0.40 1650 1650 L = 3.400\_\_\_\_\_, <u>\_\_\_\_</u>\_\_, 7 00 ||| For bottom slab  $\underline{2\times50.420\times1.65}$  $P = \frac{10 \times 30}{1,70 \times 3.50}$ P2 =48.937 kN/m 3.40 Vertical load of partial for sentral span case-2 = 50.420 KNm 1.800 17001 Pi 50 420 P1 1 700 850 750 100 = 3400 For bottom slab  $6 \times 50.420 \times 0.75 \times 1.325$ 50. 420 (0. 750+1. 700) +P2 =  $3.40^{2}$ 3.40 P2-1 = 62.338 kN/m = 36.332 ± 26.006 = P2-2 = 10.326" case-3 Horizontal load ----- eath pressure of liveload surcharge  $40.0 \times 30.0$ = 34.300 kN/mLive load surcharg go :  $3.50 \times 10.0$ For side wall: Pe = 34.300 × 0.500 = 17.150 kN/m Where Load strength = P1B = 0.300 + 1.000 + 0.400 = 1.700 m $\frac{10.0 \times 30.0}{1.00} \times 1.00 = 50.420 \text{ kN/m}$ P1 =  $1.70 \times 3.50$ 

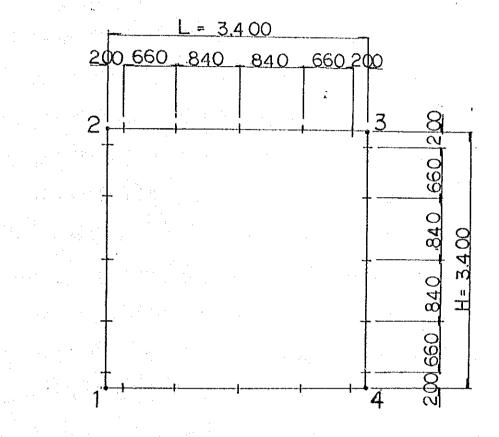
E: THE DIMENSIONCE) BE EXCHANG TO DIMENSION(KN)INTO THIS CALCULATION

Depth = 1

BOX FOR FOOTPATH NO. 2. 3.4 BOXS

| NOTE                                  | δ                          | e e e e e e e e e e e e e e e e e e e                                |                           | 000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|---------------------------------------|----------------------------|----------------------------------------------------------------------|---------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ~                                     |                            | EPS<br>1.00E-05<br>1.00E-05<br>1.00E-05<br>1.00E-05                  | :                         | L-No<br>L-No<br>19<br>20                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| •<br>•<br>•                           |                            | Щ (t/m2)<br>2.50E+07<br>2.50E+07<br>2.50E+07<br>2.50E+07<br>2.50E+07 |                           | 88 89 0<br>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| · · · · · · · · · · · · · · · · · · · |                            | 33333 L<br>400<br>3400<br>400<br>400                                 |                           | L-N0<br>6 17<br>16 17                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|                                       |                            | Гіх                                                                  | M(tm/Rad)<br>Free<br>Free | 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|                                       |                            | I (m4)<br>0.005330<br>0.005330<br>0.005330<br>0.005330               | (t/m)<br>Fix<br>Fix       | L-No L-No<br>3 4<br>13 14<br>.700 2.540<br>.700 2.540<br>.700 2.540                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Ү<br>(m)                              | 0.0000<br>3.4000<br>0.0000 | (mm mm                              | >                         | L N00<br>00.8860<br>00.8860<br>00.8860<br>00.8860<br>00.8860<br>00.8860<br>00.8860<br>00.8860<br>00.8860<br>00.8860<br>00.8860<br>00.8860<br>00.8860<br>00.8860<br>00.8860<br>00.8860<br>00.8860<br>00.8860<br>00.8860<br>00.8860<br>00.8860<br>00.8860<br>00.8860<br>00.8860<br>00.8860<br>00.8860<br>00.8860<br>00.8860<br>00.8860<br>00.8860<br>00.8860<br>00.8860<br>00.8860<br>00.8860<br>00.8860<br>00.8860<br>00.8860<br>00.8860<br>00.8860<br>00.8860<br>00.8860<br>00.8860<br>00.8860<br>00.8860<br>00.8860<br>00.8860<br>00.8860<br>00.8860<br>00.8860<br>00.8860<br>00.8860<br>00.8860<br>00.8860<br>00.8860<br>00.8860<br>00.8860<br>00.8860<br>00.8860<br>00.8860<br>00.8860<br>00.8860<br>00.8860<br>00.8860<br>00.8860<br>00.8860<br>00.8860<br>00.8860<br>00.8860<br>00.8860<br>00.8860<br>00.8860<br>00.8860<br>00.8860<br>00.8860<br>00.8860<br>00.8860<br>00.8860<br>00.8860<br>00.8860<br>00.8860<br>00.8860<br>00.8860<br>00.8860<br>00.8860<br>00.8860<br>00.8860<br>00.8860<br>00.8860<br>00.8800<br>00.8800<br>00.8800<br>00.8800<br>00.8800<br>00.8800<br>00.8800<br>00.8800<br>00.8800<br>00.8800<br>00.8800<br>00.8000<br>00.8000<br>00.8000<br>00.8000<br>00.800000000 |
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## CALCULATION POINTS OF EACH FORCE



|           | Pj (t/m)<br>-9.440<br>-30.540<br>49.420                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Pj (t/m)<br>12.510<br>-45.830                      |               | Pj (t/m)<br>-50.420<br>-50.420<br>48.937 |
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|           | Pi (1/m)<br>- 9.440<br>- 79.440<br>- 30.540<br>- 49.420<br>- 49.420                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Pi (t/m)<br>45.830<br>-12.510                      |               | Pi (t/m)<br>-50.420<br>-30.420<br>48.937 |
|           | Lo (m)<br>3.400<br>3.400<br>3.400<br>3.400<br>oad                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Lo (m)<br>3.400<br>3.400                           |               | Lo (m)<br>1.650<br>3.400                 |
|           | Li (m) L<br>0.000<br>0.000<br>0.000<br>0.000<br>(t)<br>0.000<br>(t)<br>pressure load                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Li (m)<br>0.000<br>0.000<br>0.000 (t)<br>0.000 (t) | live load-VL- | Li (m)<br>0.000<br>1.750<br>0.000        |
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BOX FOR FOOTPATH

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L.</th><th>0 1<br/>N0<br/>C-N0<br/>C-N0</th><th>C-N0<br/>N0 22</th><th>C-No 3<br/>No 8 3</th><th></th><th></th><th></th><th></th><th></th><th></th><th></th></tr> <tr><td>: 6 7 8<br/>Case: 1 Rr (1) Rr (1)</td><td></td><td>1.3800<br/>1.6500<br/>0.00000</td><td></td><td>1.3800<br/>0.0500<br/>0.0000<br/>0.0000</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>: 5 7 3<br/>Kati 1 RY (1) RY (1)</td><td>t de l</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>: 6 7 8<br/>Case: 1<br/>RX (t) RY (t) RM (tm) RX (t) RM (tm) RX (t) RM (tm) RX (t)<br/>RX (t) RY (t) RM (tm) RX (t) RM (tm) RX (t) RM (tm) RX (t)<br/>RX (t) RM (tm) RX (t) RM (tm) RX (t) RM (tm) RX (t) RM (tm) RX (t)<br/>0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000<br/>0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000<br/>0.000 0.000 0.000 0.000 0.000 0.000 0.000<br/>0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000<br/>0.000 0.000 0.000 0.000 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            |             |         |         | 1:3800       1.3800       1.3800         0.0000       1.0000       0.0000       1.0000         0.0000       1.500       0.0000       1.500         0.0000       1.500       1       N       N         1.500       1       N       N       N         1.500       1       N       N       N         1.500       0.000       0.000       0.000       0.000         0.000       0.000       0.000       0.000       0.000         0.000       0.000       0.000       0.000       0.000         0.000       0.000       0.000       0.000       0.000         0.000       0.000       0.000       0.000       0.000         0.000       0.000       0.000       0.000       0.000         0.000       0.000       0.000       0.000       0.000         0.000       0.000       0.000       0.000       0.000         0.000       0.000       0.000       0.000       0.000         0.000       0.000       0.000       0.000       0.000         0.000       0.000       0.000       0.000  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L. | 0 1<br>N0<br>C-N0<br>C-N0 | C-N0<br>N0 22 | C-No 3<br>No 8 3 |  |  |  |  |  |  |  | : 6 7 8<br>Case: 1 Rr (1) |  | 1.3800<br>1.6500<br>0.00000 |  | 1.3800<br>0.0500<br>0.0000<br>0.0000 |  |  |  |  |  |  |  | : 5 7 3<br>Kati 1 RY (1) | t de l |  |  |  |  |  |  |  |  |  |  | : 6 7 8<br>Case: 1<br>RX (t) RY (t) RM (tm) RX (t) RM (tm) RX (t) RM (tm) RX (t)<br>RX (t) RY (t) RM (tm) RX (t) RM (tm) RX (t) RM (tm) RX (t)<br>RX (t) RM (tm) RX (t) RM (tm) RX (t) RM (tm) RX (t) RM (tm) RX (t)<br>0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000<br>0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000<br>0.000 0.000 0.000 0.000 0.000 0.000 0.000<br>0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000<br>0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000<br>0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000<br>0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 |  |  |  |  |  |  |  |  | · · · · · · |  |  | : 6 7 8<br>Ease, 1 RY (t) RY (tm) RX (tm |  |  |  |  | : *<br>• • • |  |  | •<br>• |  |  |  | $ \begin{array}{c ccccccccccccccccccccccccccccccccccc$ |  | 6 7 | σô |  |  |  |  | · |  |  |  | $ \begin{array}{c ccccccccccccccccccccccccccccccccccc$ |  | • .<br>• . |  |  |  | .* | • : : •<br>•<br>• |  |  |  |  | $ \begin{array}{c ccccccccccccccccccccccccccccccccccc$ |  |  |  | · |  |  |  |  |  |  | • | $ \begin{array}{c ccccccccccccccccccccccccccccccccccc$ |  |  |  |  |  |  |  |  |  |  |  | $ \begin{array}{cccccccccccccccccccccccccccccccccccc$ | τų μ |  |  | RM | Case.<br>RX (t) | RY | RM (tm) |  |  | RM (tm) |  | t) $\frac{4}{10}$ RY (t) RM (tm) RX (t) RY (t) RM (tm) RX (t) RY (t) |  | 0.000 | 0.000 |  | 0.000 | 0.000 | 00000 | 0.000 | 0.000 | 0000.0 | с.<br>1 | 000         0.000         0.000         0.000         0.000         0.000         0.000         0.000         0.000         0.000         0.000         0.000         0.000         0.000         0.000         0.000         0.000         0.000         0.000         0.000         0.000         0.000         0.000         0.000         0.000         0.000         0.000         0.000         0.000         0.000         0.000         0.000         0.000         0.000         0.000         0.000         0.000         0.000         0.000         0.000         0.000         0.000         0.000         0.000         0.000         0.000         0.000         0.000         0.000         0.000         0.000         0.000         0.000         0.000         0.000         0.000         0.000         0.000         0.000         0.000         0.000         0.000         0.000         0.000         0.000         0.000         0.000         0.000         0.000         0.000         0.000         0.000         0.000         0.000         0.000         0.000         0.000         0.000         0.000         0.000         0.000         0.000         0.000         0.000         0.000         0.000         0.000         0.000         0 |  | . 🗘 |  | RM | Case.<br>RX (t) | RY | RM (tm) | Case<br>(t) |  | RM (tm) | • | e. 7<br>(t) RY (t) RM (tm) Case. 8<br>(t) AN (tm) RX (t) RY (t) RY<br>000 0.000 0.000 0.000<br>0.000 0.000 0.000 |  | 000. | 0.000 |  | 0.000 | 0.000 | 0000.0 | 0.000 | 0.000 | 000.000 |  | 0.000 0.000 0.000 0.000<br>0.000 0.000 0.000 | Ощ | e.<br>(t) |  |  | Case.<br>RX (t) | ŖΥ | RM (tm) |  |  |  | · |  |  | 0.000 | 000.0 |  |  | 0.000 | 0.000 |  |  |  |  |
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|                  | · . · | nRad)                        |                                                                                                                                                         | ofad)                            |                                                                                                                                                                                                                                                                      |                     |                                             |
|------------------|-------|------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|---------------------------------------------|
|                  |       | ROTA. (mmRad                 | 2.9560<br>-2.9730<br>-2.9730<br>-2.9960                                                                                                                 | ROTA. (mmRad                     | - 4.9647<br>- 4.3647<br>- 4.3647<br>- 4.3647                                                                                                                                                                                                                         |                     |                                             |
|                  |       | 3<br>Y-DIS.(mm)              | 0.00000<br>-0.28286<br>-0.28286<br>0.00000                                                                                                              | 6<br>Y-DIS.(mm)                  | 0.00000<br>-0.72558<br>-0.72338<br>0.0000                                                                                                                                                                                                                            |                     |                                             |
|                  |       | Case.<br>X-DIS.(mm)          | 0.00000<br>0.00000<br>0.00000<br>0.00000<br>0.00000<br>0.00000<br>0.00000<br>0.00000<br>0.00000<br>0.00000<br>0.00000<br>0.00000<br>0.00000<br>0.000000 | Case.<br>X-DIS.(mm)              | 0.00000<br>-0.07494<br>-0.27815<br>-0.35314                                                                                                                                                                                                                          |                     |                                             |
|                  |       | ROTA. (mmRad)                | -1.88749<br>-1.69755<br>-1.867555<br>1.88749                                                                                                            | ROTA. (mmRad)                    | 11.055888<br>0553888<br>11.0553888<br>11.0553888<br>11.0553888<br>11.0553888<br>11.0553888<br>11.11.0553888<br>11.11.0553888<br>11.11.0553888<br>11.11.0553888<br>11.11.0553888<br>11.11.05538888<br>11.11.05538888<br>11.11.055388888888888888888888888888888888888 | ROTA.(mmRad)        | -1.05847<br>1.55388<br>-1.55388<br>1.05847  |
|                  |       | 2<br>Y-DIS.(mm)              | 0.00000<br>0.00000<br>0.00000                                                                                                                           | 5<br>Y-DIS.(mm)                  | 0.0000000000000000000000000000000000000                                                                                                                                                                                                                              | 8<br>Y-DIS.(mm)     | 0.00000<br>-0.31890<br>-0.31890             |
|                  |       | Case.<br>X-DIS.(mm)          | 0.00000<br>-0.03359<br>-0.16860<br>-0.20219                                                                                                             | Case.<br>X-DIS.(mm)              | 0.00000<br>0.000000<br>0.00913<br>10.09913                                                                                                                                                                                                                           | Case.<br>X-DIS.(mm) | 0.00000<br>-0.07418<br>-0.44175<br>-0.51593 |
|                  |       | 1<br>Y-DIS.(mm) ROTA.(mmRad) | 2.74985<br>-2.16376<br>-2.16376<br>-2.74985                                                                                                             | ROTA. (mmRad)                    | 2.47011<br>-2.55256<br>-2.33907<br>-2.13533                                                                                                                                                                                                                          | ROTA.(mmRad)        | 4.21269<br>-3.83518<br>-3.52989<br>-3.73396 |
|                  |       | 1<br>Y-DIS.(mm)              | 0.00000<br>-0.23108<br>-0.23108<br>-0.23108                                                                                                             |                                  | 0.00000<br>-0.26225<br>-0.15775<br>0.0000                                                                                                                                                                                                                            | 7<br>Y-DIS.(mm)     | 0.00000<br>-0.69392<br>-0.54447<br>0.0000   |
| HL               |       | Case.<br>X-DIS.(mm)          | 0.00000<br>-0.01359<br>-0.00000<br>-0.01359                                                                                                             | Case. 4<br>X-DIS.(mm) Y-DIS.(mm) | 0.00000<br>-0.09978<br>-0.10309<br>-0.20332                                                                                                                                                                                                                          | Case.<br>X-DIS.(mm) | 0.00000<br>+0.21686<br>+0.42562<br>+0.42562 |
| BOX FOR FOOTPATH |       | No.                          | 01 CP 44                                                                                                                                                | No.                              |                                                                                                                                                                                                                                                                      | No.                 | <br>                                        |
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| (h)       Case       1       Description       N       (i)       N       Case       3       (ii)       N       (i)       N       N       (i)       N       (i)       N       N       (i)       N       N       (i)       N       N       (i)       N       (i)       N       (i)       N       N       (i)       N       N       (i)       N       N       N       (i)       N       N       N       (i)       N       N       N       N       N       N       N       N       N       N       N       N       N       N       N       N       N       N       N       N       N       N       N       N       N       N       N       N       N       N       N       N       N       N       N       N       N       N       N       N       N       N       N       N       N       N       N       N       N       N       N       N       N       N       N                                                                                                                                                                       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| Tase       1       Dead       N       (1)       N                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      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| Case 1 Dead 10ad $S$ (1)<br>(m) $M$ (1m) $S$ (1)<br>M (1m) $S$ (1 |           | N (t)<br>84.014<br>75.8966<br>67.9666<br>53.8036<br>67.936<br>53.8036                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  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| Case<br>(m)<br>Case<br>(m)<br>Case<br>(m)<br>Case<br>(m)<br>Case<br>(m)<br>Case<br>(m)<br>Case<br>(m)<br>(m)<br>(m)<br>(m)<br>(m)<br>(m)<br>(m)<br>(m)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 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