PRE-STRESSEDE CONCRETE SUPERSTRUCTURE

Ⅰ. General

1. Outline

The "Drawings " may be used in the case that the budgeting for an implementation plan be required by the Ministry of Public Works in Chile, or as a kind of the data in preliminary design for engineers. So it must be recognized that they are not considered as a detailed design.

2. Specifications

The design is based on the following specifications.

1) "Standard Specifications for Highway Bridges" adopted 1992 and published by the American Association of State Highway and Transportation Officials 444 North Capitol Street, N. W. ,Suite 249 Washington, D.C. 20001.

2) " Specifications for Highway Bridges " adopted 1994 and published by Japan Road Association.

3. Contents

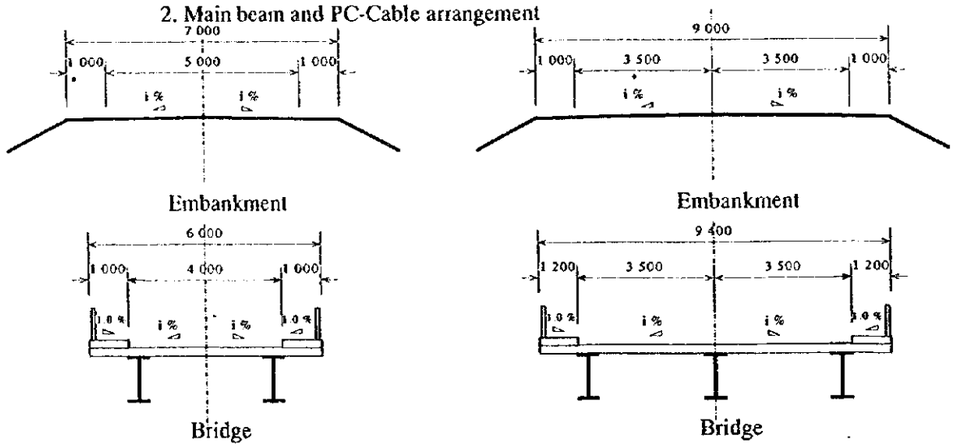
This set of the part for the steel superstructure constitutes of the following chapters.

Ⅰ. General
Ⅱ. Design Conditions
Ⅲ. Table of Design Variables
Ⅳ. Drawings
Ⅴ. Calculation report (Input and Generalization table)
Ⅵ. Material List

4. Composition of the Drawings

Each set of drawings for a steel superstructure consists of ;

1. Concrete deck slab and general cross-section
2. Main beam and PC-Cable arrangement



For 1 Lane　　For 2 Lanes

5. Instruction

1) The standard bridges dealt here are straight and right-angled only, hence some modifications and consideration should be added to the standard design, when applied to skewed or curved bridges.
2) All dimensions on the drawings are in "mm" unless otherwise stated.
3) The standard bridges are intended to be used for rural bridges.
4) The number of lanes are available for one or two, and the width for these lane numbers are shown at below-left.
5) Cross-fall on the road-way is 1.5 % and on the side-walk is 1.0 %.
6) Curb height and width are 250 mm and 200 mm respectively.
7) Railings are 1100 mm high.
8) The minimum thickness of pavement is 50 mm at both sides of the road-way, and it is thickest at the center according to the cross-fall.
9) All the drawings of the standard bridges are made by use of CADD System program separately worked out for the project.
10) Combinations of span lengths and number of lanes are shown below.

Span Length (m)	PC			
	1 Lane		2 Lane	
	PRE	POST	PRE	POST
14	●	—	●	—
16	●	—	●	—
18	●	—	●	—
20	●	—	●	—
22	●	—	●	—
24	●	●	●	●
26	—	●		●
28	—	●		●
30	—	●		●
32	—	●		●
34	—	●		●
36	—	●		●

11) Structures of which applicable span length are not in the drawings can be designed using the CADD system program.
12) Anchorage for PC tendon and drainage device are not included in the drawings, because anchoring system shall be determined by client and contractor

Ⅱ. Design Condition

1. Design Method : Allowable Stress
2. Loading
   1) Dead Loads

Plane Concrete	: W_c = 2.30 t/m³
Reinforced Concrete	: γ_C = 2.50 t/m³
Steel	: γ = 7.85 t/m³
Pavement	: γ = 2.30 t/m³
Soil	: γ_S = 1.80 t/m³

   2) Horizontal Force of Railing : W_B = 0.050 t/m, W_L = 0.020 t/m, h = 1.100 m

   3) Sidewalk Live Load

   Lc ≤ 7.6 m → W_P = 0.415 t/m² (Lc ; Span Length)

   7.6 m < Lc ≤ 30.5m → W_P= 0.293 t/m²

   30.5 m < Lc

$$Wp = \left(147 + \frac{4464}{Lc}\right) \times \left(\frac{16.76 - (Sw - 0.25)}{15.24}\right) \times \frac{1}{1000}$$

   ※ In case of W_P>0.293→ W_P = 0.293 t/m² (Sw ; Sidewalk width)

   4) Live Load : HS20-44(100%)

   5) Wind : W_V = 0.244 t/m²

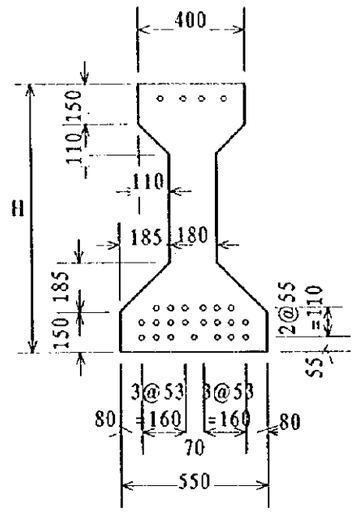
   6) Earthquake : A = 0.15 , Category B

3. Materials

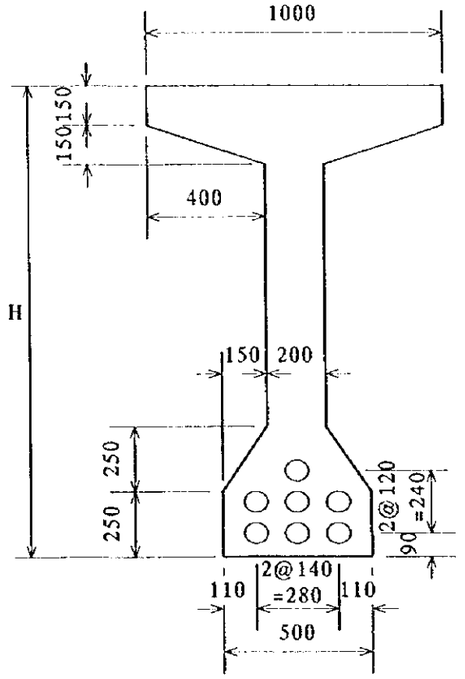
Slab Concrete	: H-30, f_c' = 250 kg/cm², E_c = 2.50×10⁵ kg/cm²
Beam Concrete	: H-40, f_c' = 350 kg/cm², E_c = 3.01×10⁵ kg/cm²
Reinforcing Bar	: A63-42H, f_y = 4200 kg/cm², f_{sa} = 1690 kg/cm², E_s = 2.10×10⁶ kg/cm²
Concrete Cover	: 3.0 cm (Lateral Beam 2.5cm)
Anchor Bar	: A44-28H, f_y = 2800 kg/cm², f_s = 1400 kg/cm²
PC Cable	: 1-12.7 (Pre-tensioned) , 7-12.7 (Post-tensioned)
	f_{pu} = 18980 kg/cm², f_{py} = 16100 kg/cm², E_s = 1.97×10⁶ kg/cm²

4. Beam Type

   1) Beam Configuration and dimensions



Pre-tensioned PC beam



Post-tensioned PC beam

   2) The distance from end of girder to center of bearing shoe

   Standardized that distance are as follows.

Span : L_C(m)	L_C < 20	20 ≤ L_C < 30	30 ≤ L_C
Distance (mm)	300	350	400

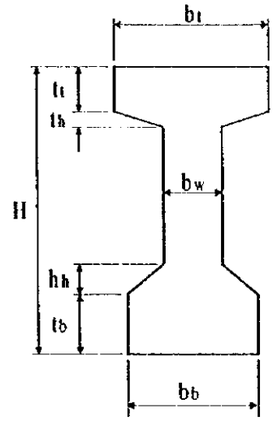
   3) Concept for beam derivation

   Pre-tension PC girder : It is considered that would be available to suit for variable width of bridge then decided 1.5m distance from center to center on economical competition which are 1.0m, 1.5m and 1.8m.

   Post-tensioned PC girder : They were decided by economical reason with considering beam height.

Ⅲ. Table of Design Variables

1. Lc ; Span Length (m)
2. Lv ; Girder Length (m) , Lower is the distance from end of girder to center of bearing shoe (m)
3. E_L ; Thickness of the deck slab (mm)
1. R.Bar ; Diameter and Pitch of Main Reinforcement Bar for Concrete Deck Slab (mm) [Upper row]
   Diameter and Pitch of Distribution Reinforcement Bar for Deck Slab (mm) [Lower row]
4. Main Gird. ; Number of Main Beam
5. Main Gird. ; Spacing of Main Beam (m)
6. H ; Beam Height (m)
7. b_t ; Width of Top Flange (mm)
8. t_t ; Thickness of Top Flange (mm)
9. t_h ; Hunch height of Top Flange (mm)
10. b_w ; Web Thickness (mm)
11. h_h ; Hunch height of Bottom Flange (mm)
12. t_b ; Thickness of Bottom Flange (mm)
13. b_b ; Width of Bottom Flange (mm)
14. N_T ; Number of Cross beam
15. ST ; Distance of Cross beam (m)
16. Nd ; Number of PC-cable (Pre-tensioned) or Duct (Post-tensioned)
17. XB ; Distance of Bond Control point for Pre-tensioned Beam (m)
18. NB ; Number of Bond Control for Pre-tensioned Beam
19. N1 ; Number of PC-cable at Top Flange
20. N5,N6,N7 ; Number of PC-cable at Bottom Flange
21. CS ; Diameter of PC-cable or Duct (mm)
22. RB3 ; Diameter of reinforcement Bar for Cross Beam side (mm)
23. RB4 ; Diameter of reinforcement Bar for Cross Beam bottom (mm)
24. RB6 ; Diameter(mm) and Number of reinforcement Bar for Main Beam side
25. A.S.B. ; Diameter(mm) and Number of Anti-seismic Bars
26. Vc ; Concrete Volume(m^3) of Cast-in-place Member (Deck-slab and Cross-flame)
27. Wc ; Weight of Reinforcement Bar at Deck-slab and Cross-flame (kg)
28. W_c/Vc ; Unit Weight of R.Bar for Unit concrete volume (kg/m^3)
29. V_B ; Concrete Volume(m^3) of Main Beam (Pre-stressed Member)
30. W_R ; Weight of Reinforcement Bar (kg) [Upper row]
    W_P ; Weight of PC-cable (kg) [Lower row]
31. W_R/Vc ; Weight of Reinforcement Bar for Unit concrete volume (kg/m^3)
32. Rd(t) ; Dead Load Reaction Force per Each Girder at One Bearing, (ton) [Upper row]
    RL(t) ; Live Load Reaction Force per Each Girder at One Bearing, (ton) [Lower row]



1-Lane																																		
INDEX	L_C(m)	L_V(m)	EL	R. Bar	Main Gird		H(m)	bt	tt	th	bw	hh	tb	bb	N_J	ST	Nd	XB	NB	N1	N5	N6	N7	CS	RB3	RB4	RB6	A.S.B.	Vc	Wc	Wc/Vc	V_B	W_R	W_R/V_B	Rd(t) RL(t)
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21			22	23	24	25	26	27	28	29	30	31	32	33
1-PRE-L14_n4	14.000	14.600	170	ϕ 12@125	4	1.500	0.700	400	150	110	180	185	150	550	1	7.000	17	2.100	9	2	0	8	7	70	ϕ 12	ϕ 22	ϕ 12n2	ϕ 22n2	29.1	4444	152.9	15.2	1935	127.1	13.150
		0.300		ϕ 12@175															7															769	50.5	15.021
1-PRE-L16_n4	16.000	16.600	170	ϕ 12@125	4	1.500	0.800	400	150	110	180	185	150	550	1	8.000	19	2.800	11	2	2	8	7	70	ϕ 12	ϕ 22	ϕ 12n2	ϕ 22n2	33.0	4995	151.6	18.5	2202	119.0	15.337
		0.300		ϕ 12@175															8															978	52.8	15.370
1-PRE-L18_n4	18.000	18.600	170	ϕ 12@125	4	1.500	0.900	400	150	110	180	185	150	550	1	9.000	21	3.500	13	2	4	8	7	70	ϕ 12	ϕ 22	ϕ 12n3	ϕ 22n2	36.8	5563	151.0	22.1	2631	119.2	17.588
		0.300		ϕ 12@175															9															1211	54.8	15.616
1-PRE-L20_n4	20.000	20.700	170	ϕ 12@125	4	1.500	1.000	400	150	110	180	185	150	550	1	10.000	23	4.100	13	2	6	8	7	70	ϕ 12	ϕ 22	ϕ 12n3	ϕ 22n2	40.9	6146	150.2	26.1	2949	113.1	20.047
		0.350		ϕ 12@175															10															1476	56.6	15.792
1-PRE-L22_n4	22.000	22.700	170	ϕ 12@125	4	1.500	1.100	400	150	110	180	185	150	550	1	11.000	23	4.600	13	2	6	8	7	70	ϕ 12	ϕ 22	ϕ 12n4	ϕ 22n2	44.8	6714	149.8	30.2	3436	113.7	22.503
		0.350		ϕ 12@175															10															1619	53.6	15.919
1-PRE-L24_n4	24.000	24.700	170	ϕ 12@125	4	1.500	1.200	400	150	110	180	185	150	550	1	12.000	25	5.100	13	2	8	8	7	70	ϕ 12	ϕ 22	ϕ 12n4	ϕ 22n2	52.7	9833	186.4	32.3	3136	97.0	25.049
		0.350		ϕ 12@175															11															152	4.7	16.011
1-PST-L24_n2	24.000	24.700	200	ϕ 16@150	2	3.000	1.600	1000	150	150	200	250	250	500	1	12.000	4							140	ϕ 12	ϕ 22	ϕ 12n5	ϕ 25n5	48.7	7264	149.2	34.7	3760	108.5	50.134
		0.350		ϕ 12@125																													1914	55.2	23.617
1-PST-L26_n2	26.000	26.700	200	ϕ 16@150	2	3.000	1.700	1000	150	150	200	250	250	500	2	8.667	5							140	ϕ 12	ϕ 22	ϕ 12n5	ϕ 25n5	57.8	10704	185.1	36.1	3425	95.0	55.150
		0.350		ϕ 12@125																													1444	40.0	23.715
1-PST-L28_n2	28.000	28.700	200	ϕ 16@150	2	3.000	1.800	1000	150	150	200	250	250	500	2	9.333	5							140	ϕ 12	ϕ 22	ϕ 12n6	ϕ 25n5	62.0	11459	184.7	39.9	3827	95.8	59.987
		0.350		ϕ 12@125																													1552	38.9	23.784
1-PST-L30_n2	30.000	30.800	200	ϕ 16@150	2	3.000	2.000	1000	150	150	200	250	250	500	2	10.000	5							140	ϕ 12	ϕ 22	ϕ 12n7	ϕ 28n5	66.7	12315	184.5	45.6	4300	94.3	65.996
		0.400		ϕ 12@125																													1667	36.6	23.831
1-PST-L32_n2	32.000	32.800	200	ϕ 16@150	2	3.000	2.100	1000	150	150	200	250	250	500	2	10.666	6							140	ϕ 12	ϕ 22	ϕ 12n7	ϕ 28n5	70.9	13094	184.6	49.9	4588	92.0	70.842
		0.400		ϕ 12@125																													2131	42.7	23.862
1-PST-L34_n2	34.000	34.800	200	ϕ 16@150	2	3.000	2.200	1000	150	150	200	250	250	500	2	11.333	6							140	ϕ 12	ϕ 22	ϕ 12n8	ϕ 28n5	75.2	13851	184.3	54.3	5038	92.7	76.276
		0.400		ϕ 12@125																													2262	41.6	23.880
1-PST-L36_n2	36.000	36.800	200	ϕ 16@150	2	3.000	2.400	1000	150	150	200	250	250	500	2	12.000	7							140	ϕ 12	ϕ 22	ϕ 12n9	ϕ 32n5	79.6	14684	184.4	60.6	5547	91.5	82.924
		0.400		ϕ 12@125																													2792	46.0	23.888

PRE : Pre-tensioned

PST : Post-tensioned

2-Lane																																
INDEX	L_C(m)	L_V(m)	EL	R. Bar	Main Gird		H(m)	bt	tt	th	bw	hh	tb	bb	N_1	ST	Nd	XB	NB	N1	N5	N6	N7	CS	RB3	RB4	RB6	A.S.B.	Vc	Wc	Wc/Vc	V_B	W_R W_P	W_R/V_B W_P/V_B	Rd(t) RL(t)
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21			22	23	24	25	26	27	28	29	30	31	32	33
2-PRE-L14_n6	14.000	14.600	170	ϕ 12@125	6	1.500	0.700	400	150	110	180	185	150	550	1	7.000	17	2.100	9	2	0	8	7	70	ϕ 18	ϕ 25	ϕ 12n2	ϕ 22n2	44.9	6752	150.4	22.9	3215	140.7	13.278
		0.300		ϕ 12@175															7														1154	50.5	15.021
2-PRE-L16_n6	16.000	16.600	170	ϕ 12@125	6	1.500	0.800	400	150	110	180	185	150	550	1	8.000	19	3.100	11	2	2	8	7	70	ϕ 16	ϕ 25	ϕ 12n2	ϕ 22n2	50.9	7530	148.0	27.8	3532	127.2	15.337
		0.300		ϕ 12@175															8														1467	52.8	15.370
2-PRE-L18_n6	18.000	18.600	170	ϕ 12@125	6	1.500	0.900	400	150	110	180	185	150	550	1	9.000	21	4.100	13	2	4	8	7	70	ϕ 16	ϕ 25	ϕ 12n3	ϕ 22n2	56.9	8397	147.5	33.1	4222	127.4	17.588
		0.300		ϕ 12@175															9														1816	54.8	15.616
2-PRE-L20_n6	20.000	20.700	170	ϕ 12@125	6	1.500	1.000	400	150	110	180	185	150	550	1	10.000	23	5.100	13	2	6	8	7	70	ϕ 16	ϕ 22	ϕ 12n3	ϕ 22n2	63.2	9230	146.0	39.1	4614	118.0	20.047
		0.350		ϕ 12@175															10														2214	56.6	15.792
2-PRE-L22_n6	22.000	22.700	170	ϕ 12@125	6	1.500	1.100	400	150	110	180	185	150	550	1	11.000	25	5.600	13	2	8	8	7	70	ϕ 16	ϕ 22	ϕ 12n4	ϕ 22n2	69.2	10097	145.9	45.3	5391	118.9	22.737
		0.350		ϕ 12@175															11														2639	58.2	15.919
2-PRE-L24_n6	24.000	24.700	170	ϕ 12@125	6	1.500	1.200	400	150	110	180	185	150	550	1	12.000	27	6.300	15	2	8	8	7	70	ϕ 16	ϕ 22	ϕ 12n4	ϕ 22n2	75.2	10912	145.1	52.0	5877	113.0	25.305
		0.350		ϕ 12@175															12														3101	59.6	16.011
2-PST-L24_n4	24.000	24.700	170	ϕ 16@150	4	2.250	1.600	1000	150	150	200	250	250	500	1	12.000	4							140	ϕ 12	ϕ 22	ϕ 12n5	ϕ 25n3	75.6	14907	197.2	64.6	6298	97.5	41.964
		0.350		ϕ 12@125																													2136	33.0	24.017
2-PST-L26_n4	26.000	26.700	170	ϕ 16@150	4	2.250	1.700	1000	150	150	200	250	250	500	2	8.667	4							140	ϕ 12	ϕ 22	ϕ 12n5	ϕ 25n3	83.6	16276	194.7	72.1	6898	95.7	46.654
		0.350		ϕ 12@125																													2310	32.0	24.116
2-PST-L28_n4	28.000	28.700	170	ϕ 16@150	4	2.250	1.800	1000	150	150	200	250	250	500	2	9.333	4							140	ϕ 12	ϕ 22	ϕ 12n6	ϕ 25n3	90.0	17442	193.9	81.3	7741	95.3	51.311
		0.350		ϕ 12@125																													2484	30.6	24.186
2-PST-L30_n4	30.000	30.800	170	ϕ 16@150	4	2.250	2.000	1000	150	150	200	250	250	500	2	10.000	5							140	ϕ 12	ϕ 22	ϕ 12n7	ϕ 28n3	96.6	18748	194.0	91.2	8659	95.0	56.289
		0.400		ϕ 12@125																													3335	36.6	24.234
2-PST-L32_n4	32.000	32.800	170	ϕ 16@150	4	2.250	2.100	1000	150	150	200	250	250	500	2	10.666	5							140	ϕ 12	ϕ 22	ϕ 12n7	ϕ 28n4	102.7	19926	194.0	99.8	9231	92.5	60.733
		0.400		ϕ 12@125																													3552	35.6	24.266
2-PST-L34_n4	34.000	34.800	170	ϕ 16@150	4	2.250	2.200	1000	150	150	200	250	250	500	2	11.333	5							140	ϕ 12	ϕ 22	ϕ 12n8	ϕ 28n5	108.8	21080	193.8	108.7	10135	93.3	65.278
		0.400		ϕ 12@125																													3770	34.7	24.284
2-PST-L36_n4	36.000	36.800	170	ϕ 16@150	4	2.250	2.300	1000	150	150	200	250	250	500	2	12.000	6							140	ϕ 12	ϕ 22	ϕ 12n8	ϕ 32n3	114.9	22305	194.2	117.9	10736	91.1	69.923
		0.400		ϕ 12@125																													4785	40.6	24.292

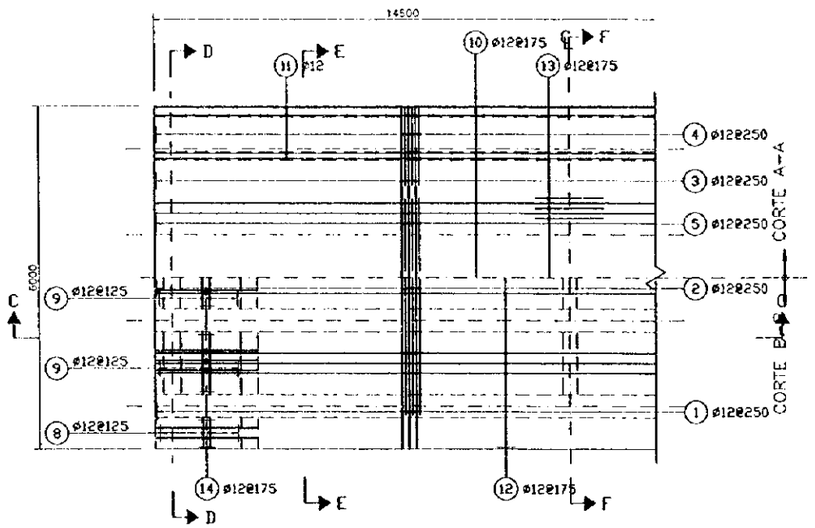
PRE : Pre-tensioned

PST : Post-tensioned

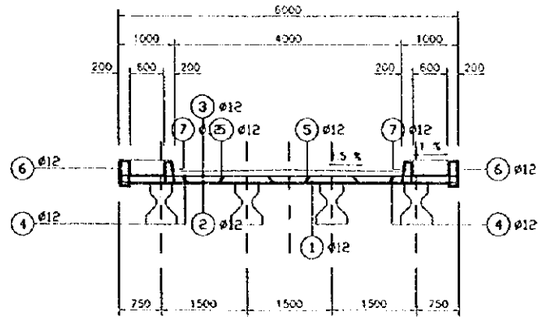
Ⅳ. Drawings

1. 1-PRE-L14-n4_1 (Deck slab and general cross-section)
2. 1-PRE-L14-n4_1 (Main beam and PC-Cable arrangement)
3. 1-PRE-L16-n4_1 (Deck slab and general cross-section)
4. 1-PRE-L16-n4_1 (Main beam and PC-Cable arrangement)
5. 1-PRE-L18-n4_1 (Deck slab and general cross-section)
6. 1-PRE-L18-n4_1 (Main beam and PC-Cable arrangement)
7. 1-PRE-L20-n4_1 (Deck slab and general cross-section)
8. 1-PRE-L20-n4_1 (Main beam and PC-Cable arrangement)
9. 1-PRE-L22-n4_1 (Deck slab and general cross-section)
10. 1-PRE-L22-n4_1 (Main beam and PC-Cable arrangement)
11. 1-PRE-L24-n4_1 (Deck slab and general cross-section)
12. 1-PRE-L24-n4_1 (Main beam and PC-Cable arrangement)
13. 1-PST-L24-n2_1 (Deck slab and general cross-section)
14. 1-PST-L24-n2_1 (Main beam and PC-Cable arrangement)
15. 1-PST-L26-n2_1 (Deck slab and general cross-section)
16. 1-PST-L26-n2_1 (Main beam and PC-Cable arrangement)
17. 1-PST-L28-n2_1 (Deck slab and general cross-section)
18. 1-PST-L28-n2_1 (Main beam and PC-Cable arrangement)
19. 1-PST-L30-n2_1 (Deck slab and general cross-section)
20. 1-PST-L30-n2_1 (Main beam and PC-Cable arrangement)
21. 1-PST-L32-n2_1 (Deck slab and general cross-section)
22. 1-PST-L32-n2_1 (Main beam and PC-Cable arrangement)
23. 1-PST-L34-n2_1 (Deck slab and general cross-section)
24. 1-PST-L34-n2_1 (Main beam and PC-Cable arrangement)
25. 1-PST-L36-n2_1 (Deck slab and general cross-section)
26. 1-PST-L36-n2_1 (Main beam and PC-Cable arrangement)
27. 2-PRE-L14-n6_1 (Deck slab and general cross-section)
28. 2-PRE-L14-n6_1 (Main beam and PC-Cable arrangement)
29. 2-PRE-L16-n6_1 (Deck slab and general cross-section)
30. 2-PRE-L16-n6_1 (Main beam and PC-Cable arrangement)
31. 2-PRE-L18-n6_1 (Deck slab and general cross-section)
32. 2-PRE-L18-n6_1 (Main beam and PC-Cable arrangement)
33. 2-PRE-L20-n6_1 (Deck slab and general cross-section)
34. 2-PRE-L20-n6_1 (Main beam and PC-Cable arrangement)
35. 2-PRE-L22-n6_1 (Deck slab and general cross-section)
36. 2-PRE-L22-n6_1 (Main beam and PC-Cable arrangement)
37. 2-PRE-L24-n6_1 (Deck slab and general cross-section)
38. 2-PRE-L24-n6_1 (Main beam and PC-Cable arrangement)
39. 2-PST-L24-n4_1 (Deck slab and general cross-section)
40. 2-PST-L24-n4_1 (Main beam and PC-Cable arrangement)
41. 2-PST-L26-n4_1 (Deck slab and general cross-section)
42. 2-PST-L26-n4_1 (Main beam and PC-Cable arrangement)
43. 1-PST-L28-n4_1 (Deck slab and general cross-section)
44. 1-PST-L28-n4_1 (Main beam and PC-Cable arrangement)
45. 1-PST-L30-n4_1 (Deck slab and general cross-section)
46. 1-PST-L30-n4_1 (Main beam and PC-Cable arrangement)
47. 1-PST-L32-n4_1 (Deck slab and general cross-section)
48. 1-PST-L32-n4_1 (Main beam and PC-Cable arrangement)
49. 1-PST-L34-n4_1 (Deck slab and general cross-section)
50. 1-PST-L34-n4_1 (Main beam and PC-Cable arrangement)
51. 1-PST-L36-n4_1 (Deck slab and general cross-section)
52. 1-PST-L36-n4_1 (Main beam and PC-Cable arrangement)

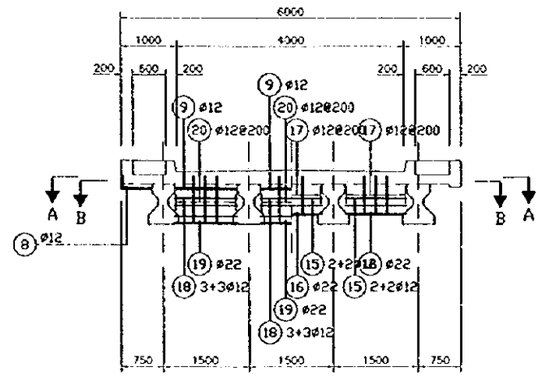
PLANTA DE LOSA
ESC 1:50



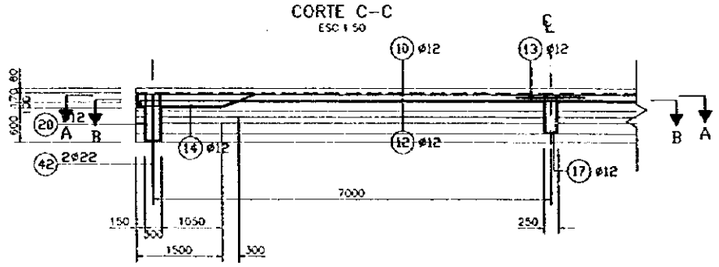
CORTE TRAVERSAL
CORTE E-E
ESC.1:50



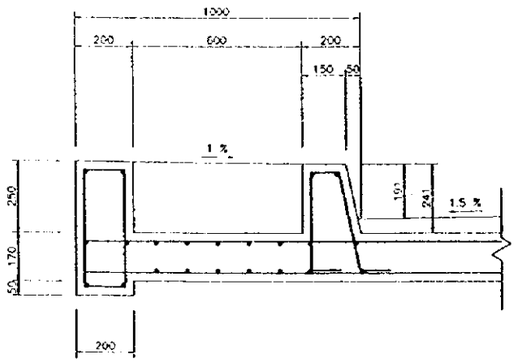
TRAVESAÑOS EXTREMOS
CORTE D-D CORTE F-F
ESC.1:50



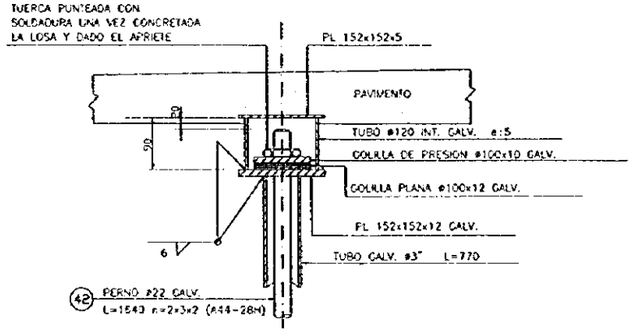
CORTE C-C
ESC 1:50



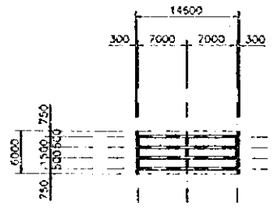
DETALLE DE PASILLO
ESC 1:10



DETALLE BARRAS ANTISISMICAS
ESC 1:5



PLANTA DE DISPOSICION



DIRECCION DE VIALIDAD
DEPARTAMENTO DE PUENTES

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Camino:	
Provincia:	Region:
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Vo Bo Ing. Jefe Depto. Puentes	Director de Vialidad
Dibujo Fecha:	

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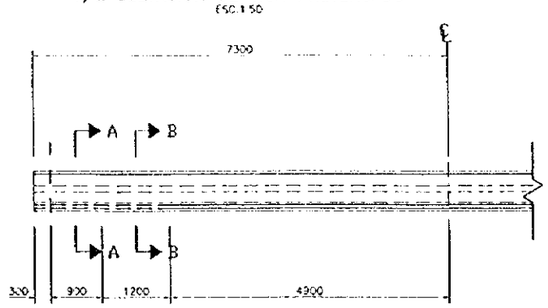
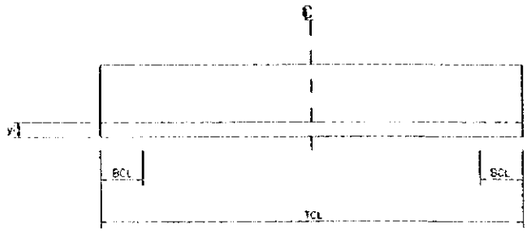
1/2 ELEVACION DE VIGA PRETENSADO
ESC.1:50

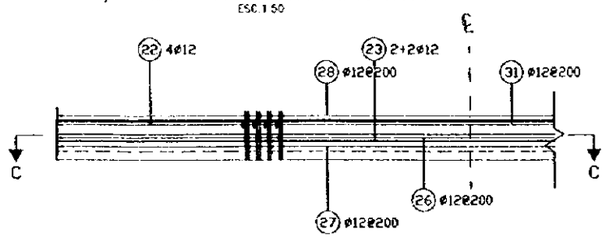




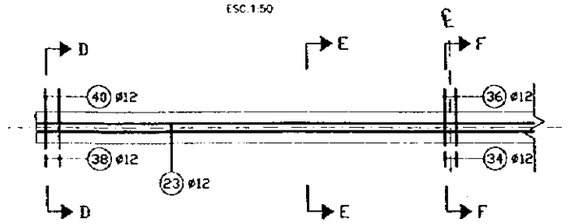
TCL = 14.6 m

No	y(cm)	NB	NBC	BCL(mm)	NBC	BCL(mm)	N	Total(mm)
1	64.5	2	0	1200	0	2400	2	0
2	51.0	2	2	1200	4	2400	8	24000
3	5.5	4	0	1200	3	2400	7	14400
Total		8	2	2400	7	16800	17	38400

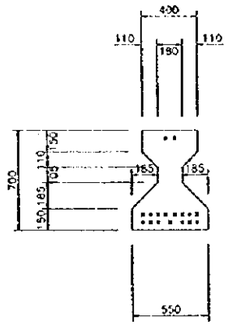
1/2 ENFIERRADURA VIGA PRETENSADO
ESC.1:50



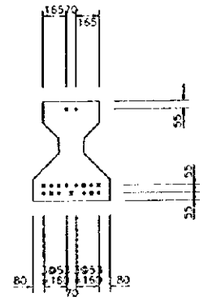
CORTE C-C
ESC.1:50



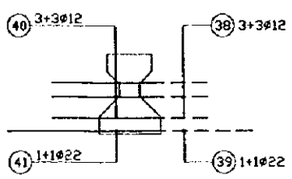
CORTE A-A
ESC.1:20



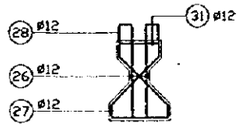
CORTE B-B
ESC.1:20



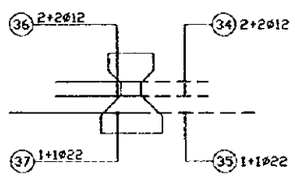
CORTE D-D
ESC.1:25



CORTE E-E
ESC.1:25



CORTE F-F
ESC.1:25



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Dibujo
Fecha:

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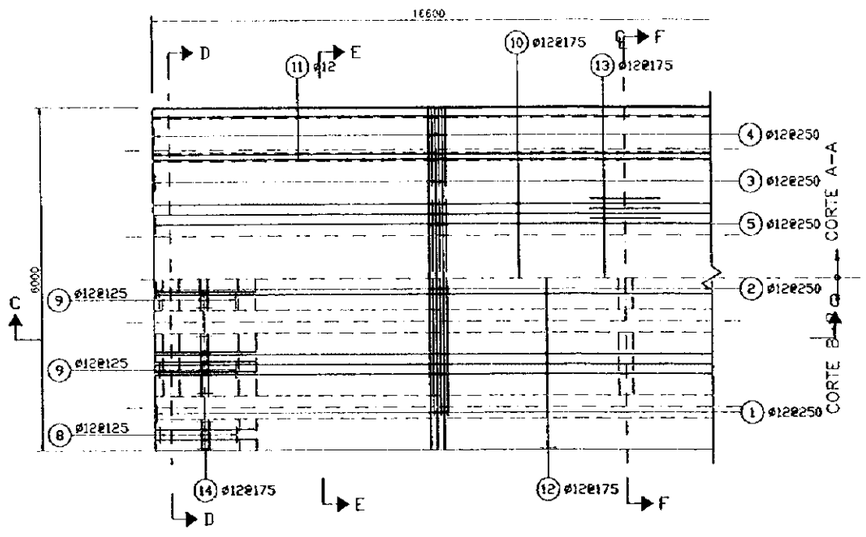
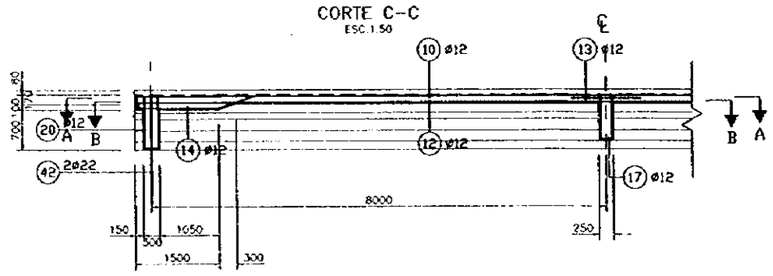
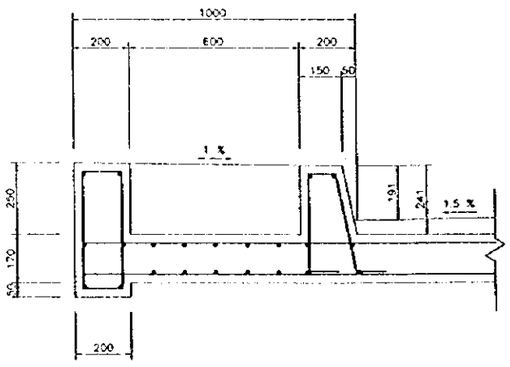
PLANTA DE LOSA
ESC 1:50



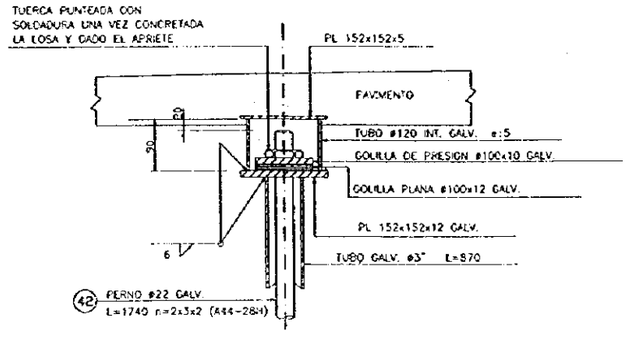
CORTE C-C
ESC 1:50



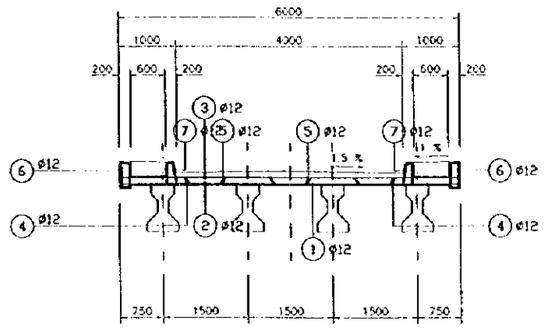
DETALLE DE PASILLO
ESC 1:10



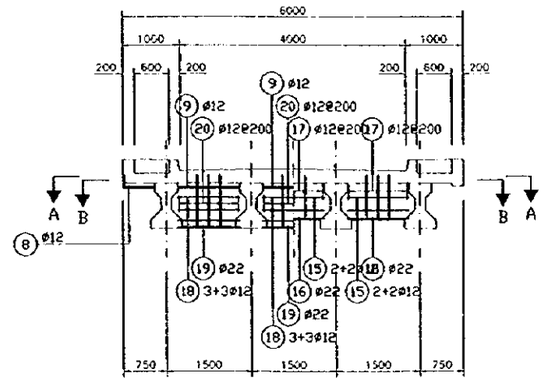
DETALLE BARRAS ANTISISMICAS
ESC 1:5



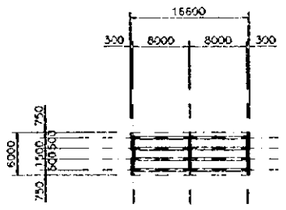
CORTE TRAVERSAL
CORTE E-E
ESC 1:50



TRAVESAÑOS EXTREMOS
CORTE D-D CORTE F-F
ESC 1:50



PLANTA DE DISPOSICION



DIRECCION DE VIALIDAD
DEPARTAMENTO DE PUENTES

Puente: 1-PRE-L16_n4	
Camino:	
Provincia:	Region:
Proyecto	Revisó
Vo Bo Ing. Jefe Depto Puentes	Director de Vialidad
Dibujo	
Fecha:	

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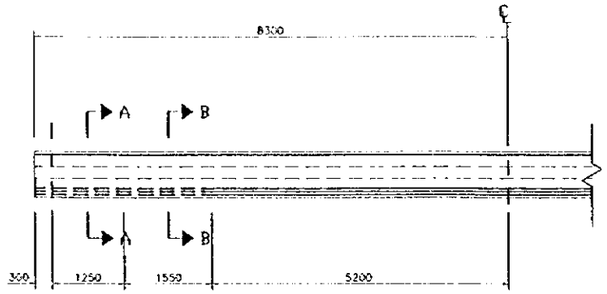
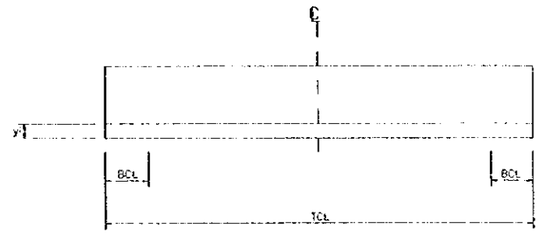
1/2 ELEVACION DE VIGA PRETENSADO
ESC.1:50

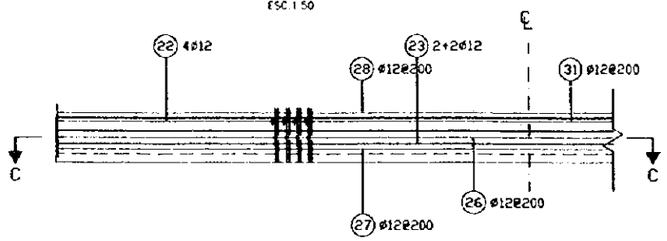




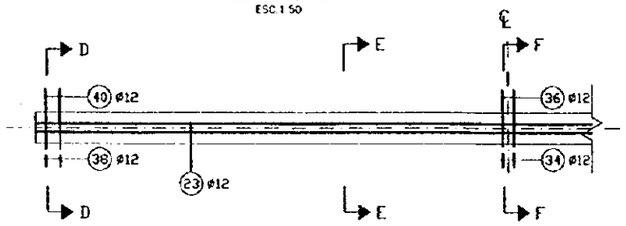
TCL = 16.6 m.

No	y(cm)	NB	NBC	BCL(mm)	NBC	BCL(mm)	N	Total(mm)
1	74.5	2	0	1550	0	3100	2	0
2	16.5	0	0	1550	2	3100	2	12400
3	11.0	2	2	1550	4	3100	8	31000
4	5.5	4	1	1550	2	3100	7	15500
Total		8	3	4550	8	24800	19	58900

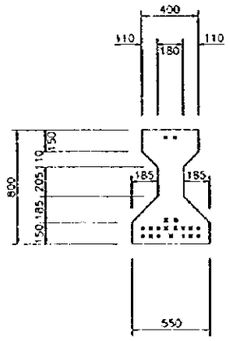
1/2 ENFIERRADURA VIGA PRETENSADO
ESC.1:50



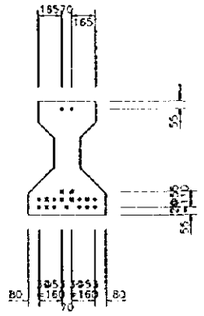
CORTE C-C
ESC.1:50



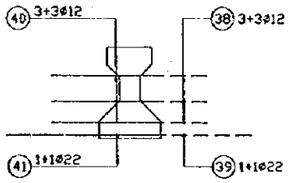
CORTE A-A
ESC.1:20



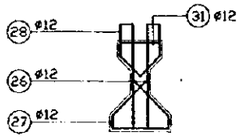
CORTE B-B
ESC.1:20



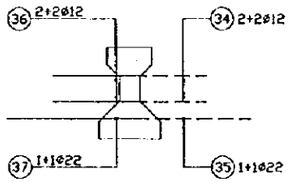
CORTE D-D
ESC.1:25



CORTE E-E
ESC.1:25



CORTE F-F
ESC.1:25



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Proyecto | Revisó

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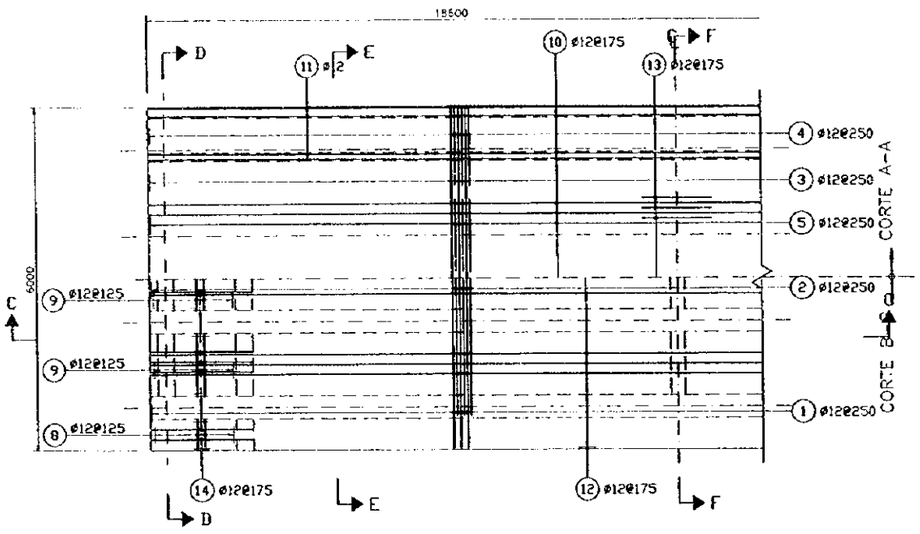
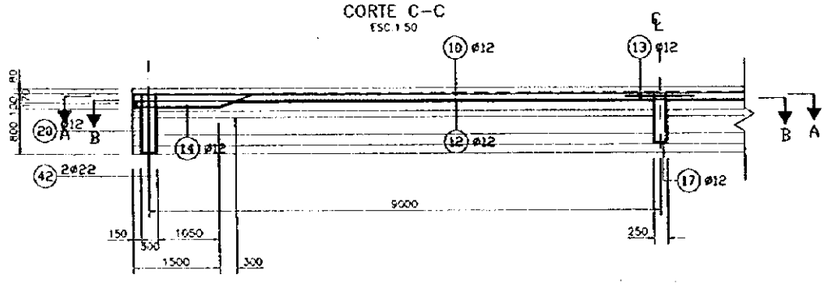
Dibujo
Fecha

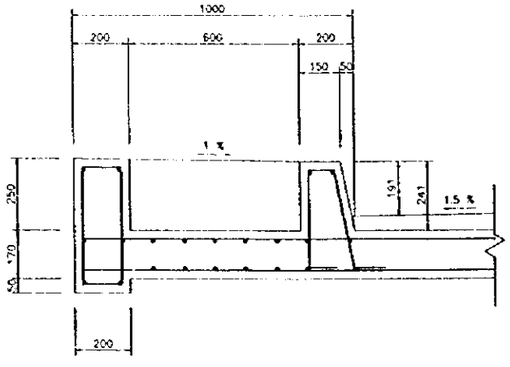
PLANTA DE LOSA
ESC. 1:50



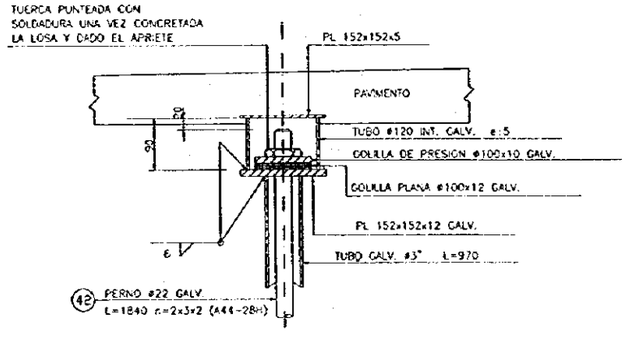
CORTE C-C
ESC. 1:50



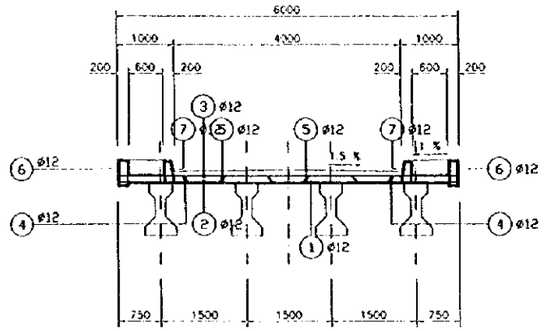
DETALLE DE PASILLO
ESC. 1:10



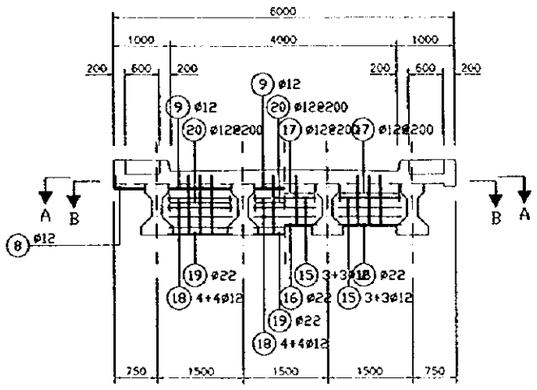
DETALLE BARRAS ANTISISMICAS
ESC. 1:5



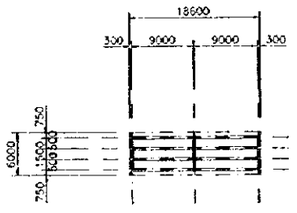
CORTE TRAVERSAL
CORTE E-E
ESC. 1:50



TRAVESAÑOS EXTREMOS
CORTE D-D CORTE F-F
ESC. 1:50



PLANTA DE DISPOSICION



DIRECCION DE VIALIDAD
DEPARTAMENTO DE PUENTES

Puente:	1-PRE-L18_n4
Camino:	
Provincia:	Region:

Proyecto — Revisó

Vo Bo Ing. Jefe Depto. Puentes — Director de Vialidad

Dibujo — Fecha

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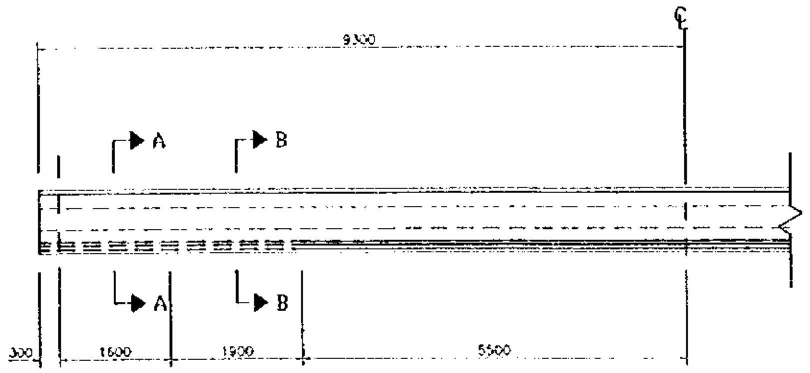
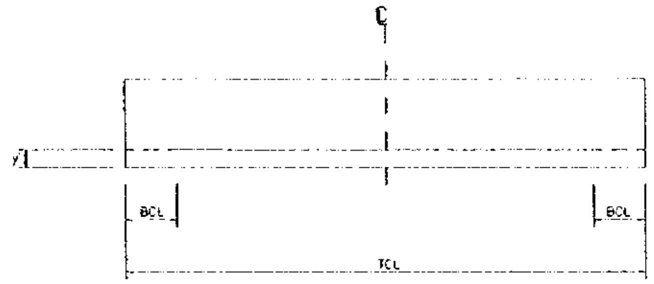
1/2 ELEVACION DE VIGA PRETENSADO
ESC 1:50

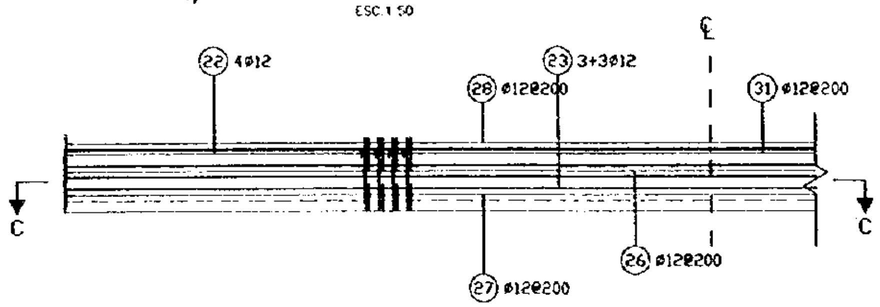




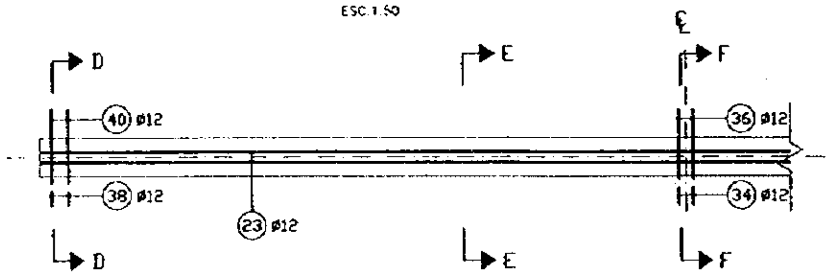
TCL = 18.6 m

No	y(cm)	NB	NBC	BCL(mm)	NSC	SCL(mm)	N	Total(mm)
1	84.5	2	0	1900	0	3800	2	0
2	16.5	0	2	1900	2	3800	4	22800
3	11.0	2	2	1900	4	3800	8	38000
4	5.5	4	0	1900	3	3800	7	22800
Total		8	4	7600	9	34200	21	83600

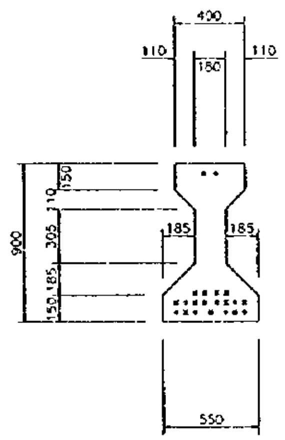
1/2 ENFIERRADURA VIGA PRETENSADO
ESC 1:50



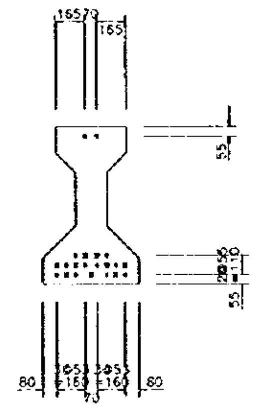
CORTE C-C
ESC 1:50



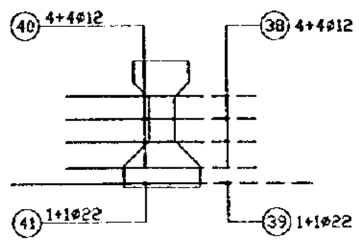
CORTE A-A
ESC 1:20



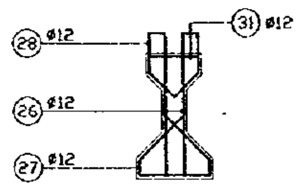
CORTE B-B
ESC 1:20



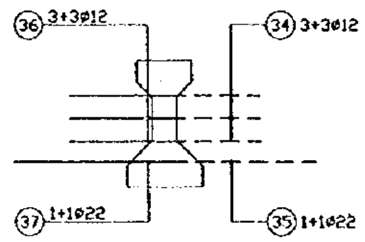
CORTE D-D
ESC 1:25



CORTE E-E
ESC 1:25



CORTE F-F
ESC 1:25



DIRECCION DE VIALIDAD
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Provincia: Region:

Proyecto
Reviso
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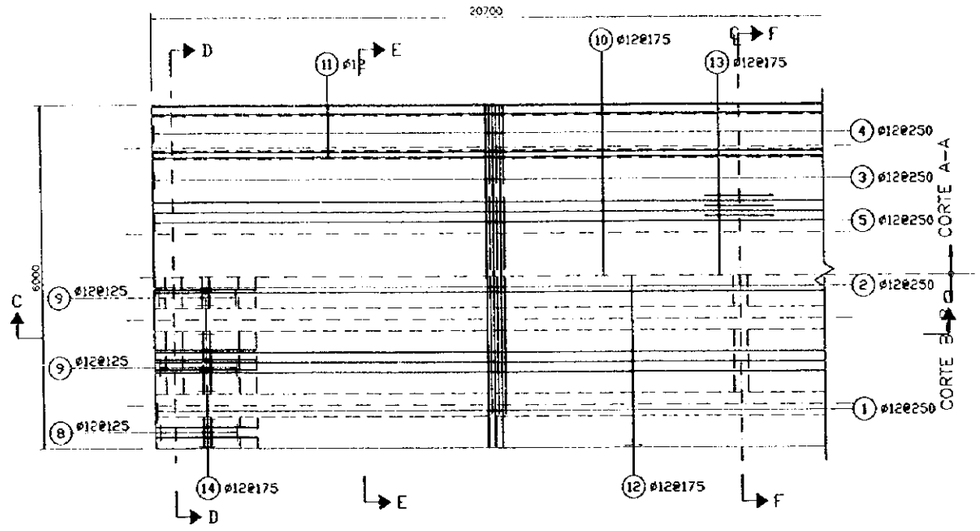
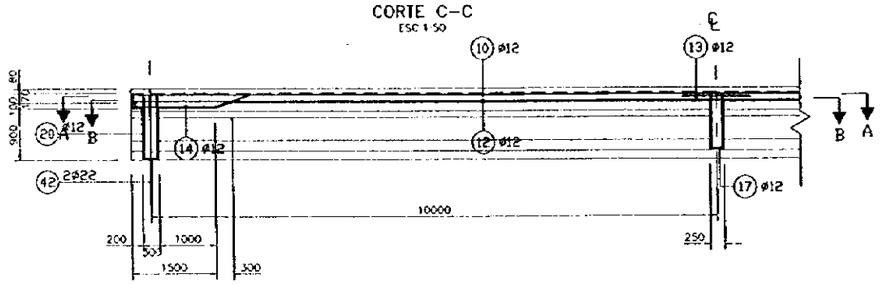
Director de Vialidad
Dibujo
Fecha:

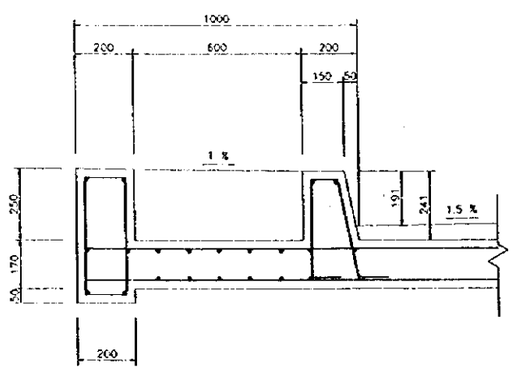
PLANTA DE LOSA
ESC 1:50



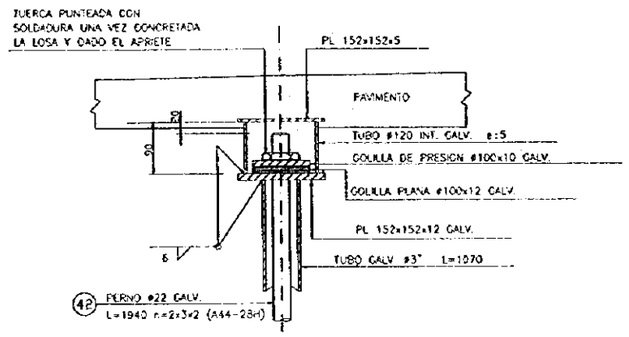
CORTE C-C
ESC 1:50



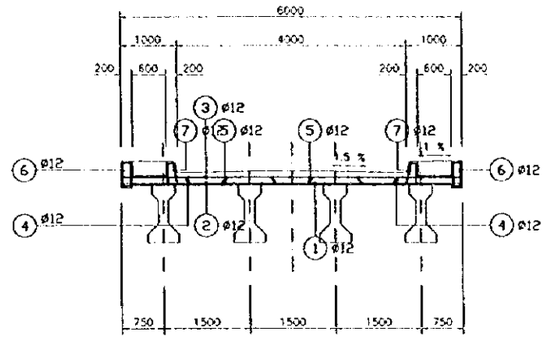
DETALLE DE PASILLO
ESC 1:10



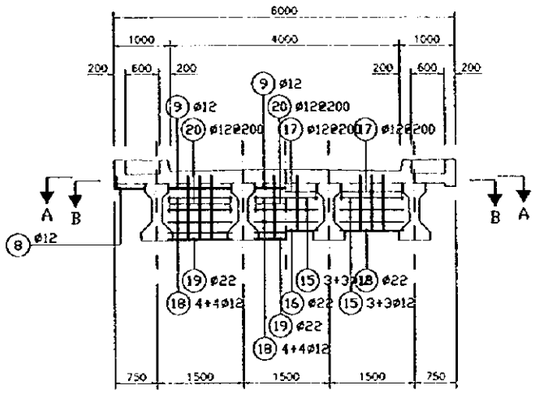
DETALLE BARRAS ANTISISMICAS
ESC 1:5



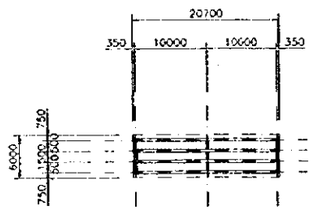
CORTE TRAVERSAL
CORTE E-E
ESC 1:50



TRAVESAÑOS EXTREMOS
CORTE D-D CORTE F-F
ESC 1:50



PLANTA DE DISPOSICION



DIRECCION DE VIALIDAD
DEPARTAMENTO DE PUENTES

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Revisó
Fecha

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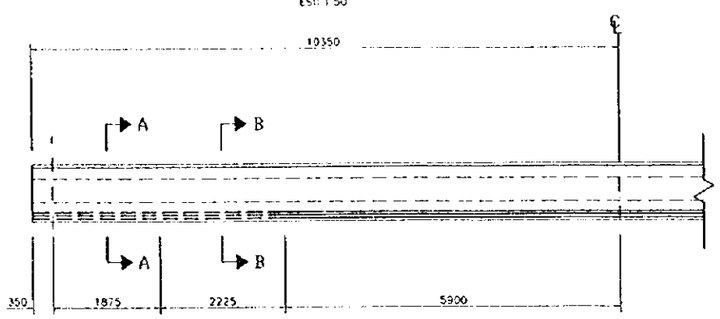
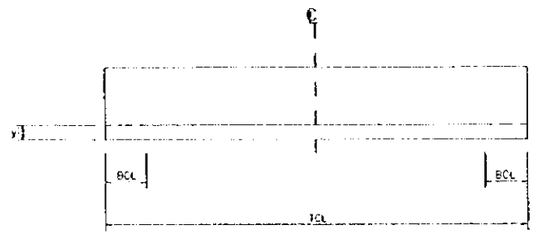
1/2 ELEVACION DE VIGA PRETENSADO
ESC 1:50

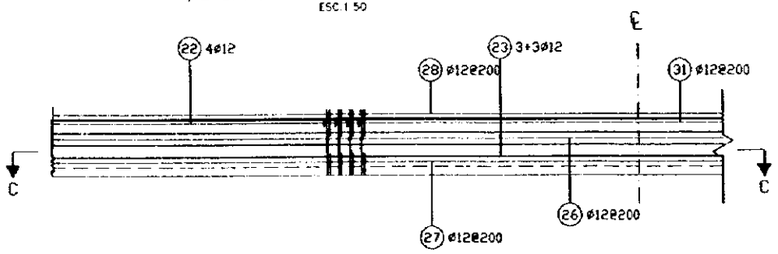




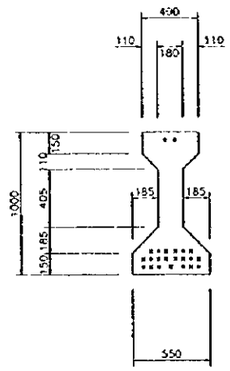
TCL = 20.7 m

No	y(cm)	NB	NBC	BCL(mm)	NBC	BCL(mm)	N	Total(mm)
1	94.5	2	0	2225	0	4450	2	0
2	18.5	2	0	2225	4	4450	6	35600
3	11.0	2	2	2225	4	4450	8	44500
4	5.5	4	1	2225	2	4450	7	22250
Total		10	3	6675	10	44500	23	102350

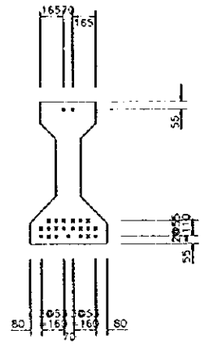
1/2 ENFIERRADURA VIGA PRETENSADO
ESC 1:50



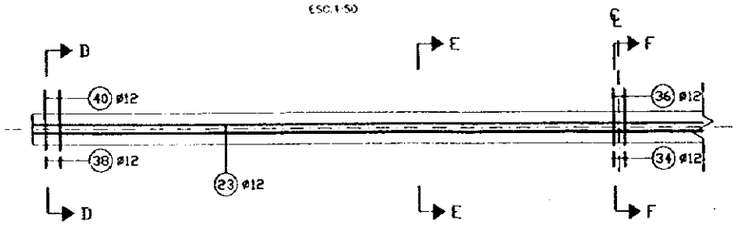
CORTE A–A
ESC 1:20



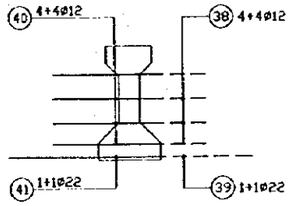
CORTE B–B
ESC 1:20



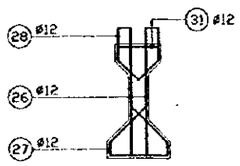
CORTE C–C
ESC 1:50



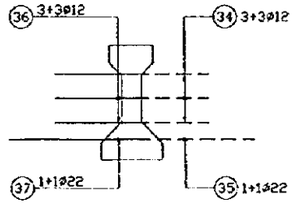
CORTE D–D
ESC 1:25



CORTE E–E
ESC 1:25



CORTE F–F
ESC 1:25



DIRECCION DE VIALIDAD
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Dibujo: Fecha:	

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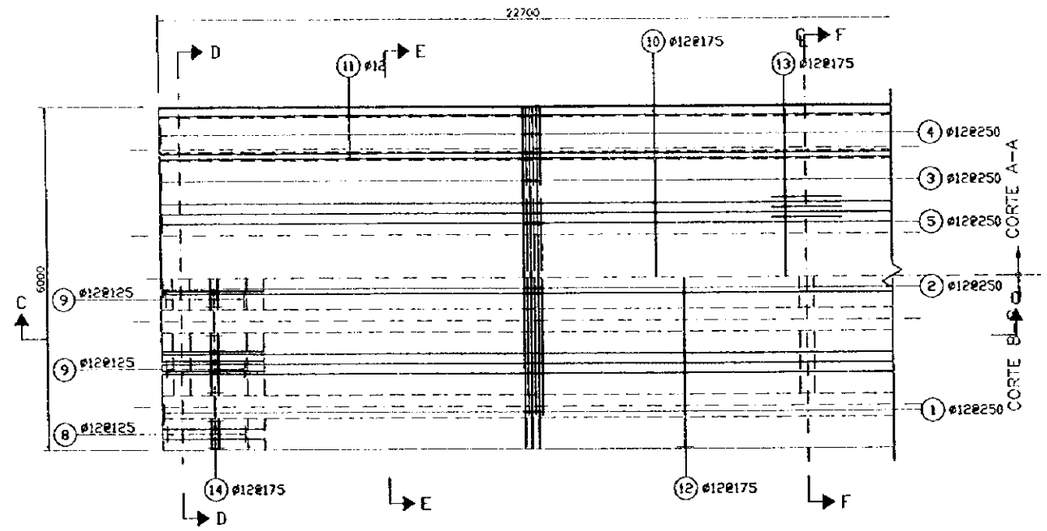
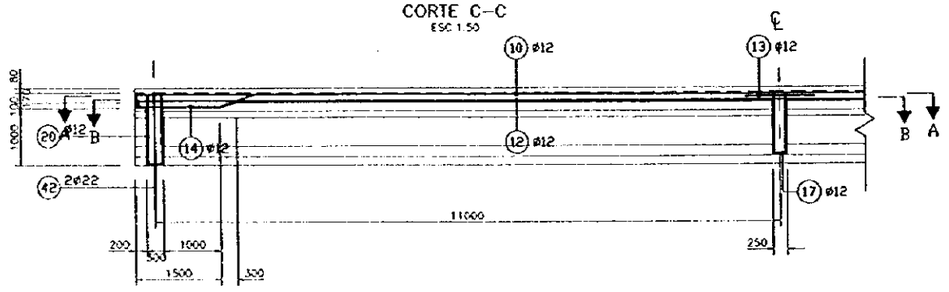
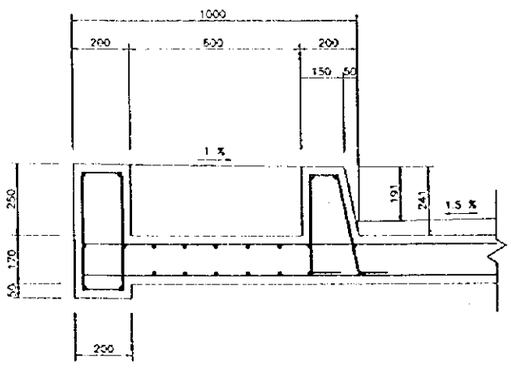
PLANTA DE LOSA
ESC 1:50



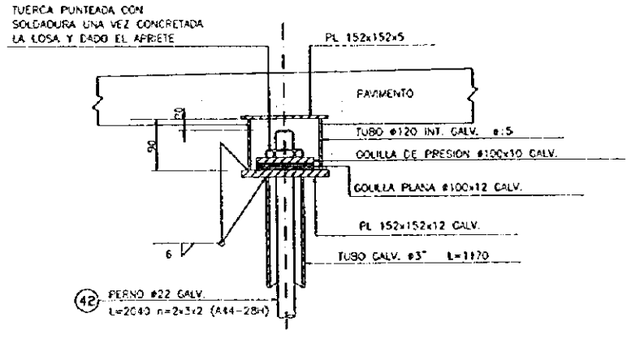
CORTE C-C
ESC 1:50



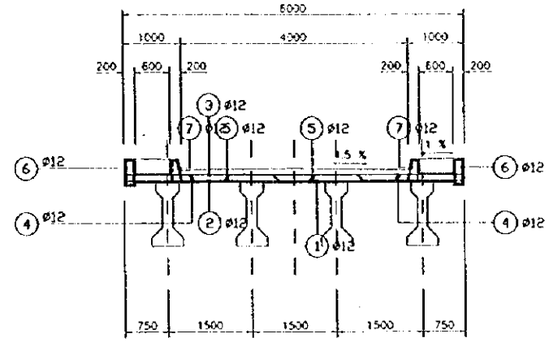
DETALLE DE PASILLO
ESC 1:10



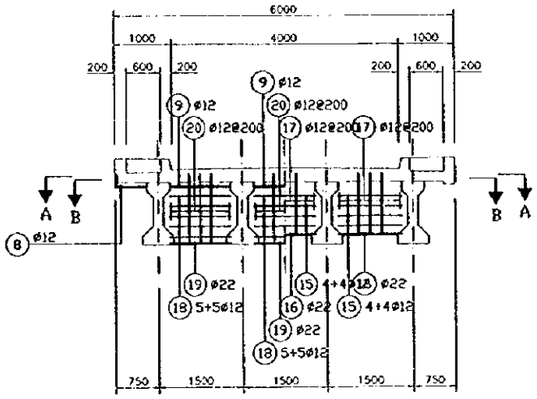
DETALLE BARRAS ANTISISMICAS
ESC.1:5



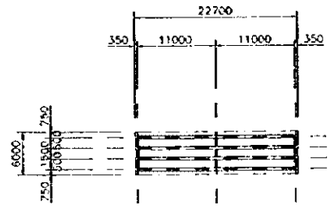
CORTE TRAVERSAL
CORTE E--E
ESC 1:50



TRAVESAÑOS EXTREMOS
CORTE D--D CORTE F--F
ESC 1:50



PLANTA DE DISPOSICION



DIRECCION DE VIALIDAD
DEPARTAMENTO DE PUENTES

Puente: 1-PRE-L22_n4	
Camino:	
Provincia:	Region:

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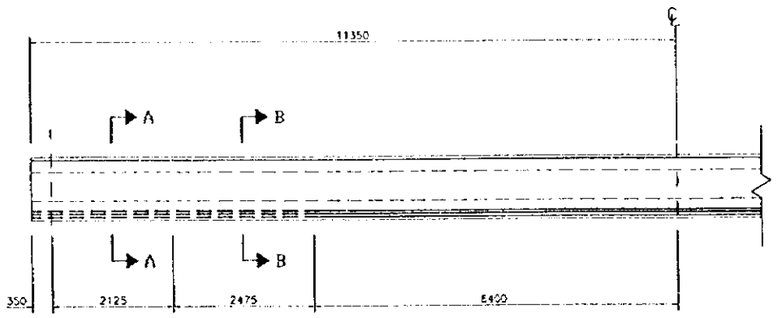
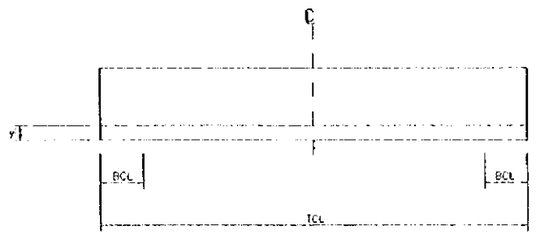
Dibujo | Fecha:

1/2 ELEVACION DE VIGA PRETENSADO
ESC 1:50

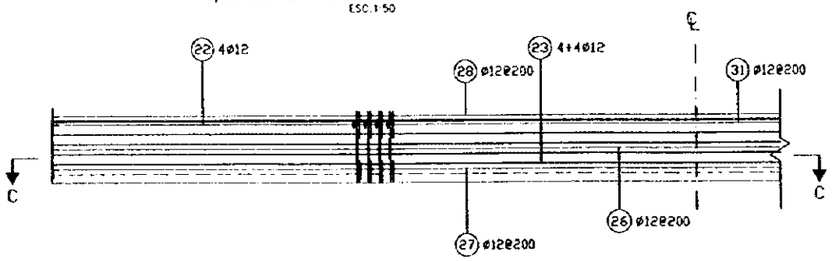




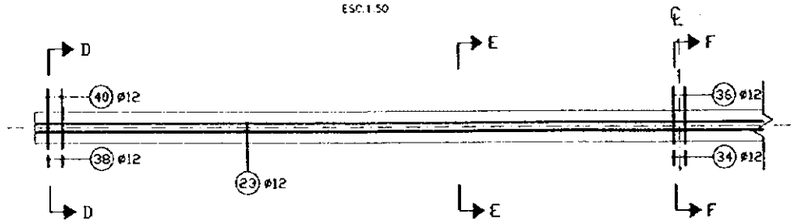
TCL = 22.7 m

No	y(cm)	NB	NBC	BCL(mm)	NBC	BCL(mm)	N	Total(mm)
1	104.5	2	0	2475	0	4950	2	0
2	16.5	0	2	2475	4	4950	6	49500
3	11.0	4	0	2475	4	4950	8	39500
4	5.5	4	1	2475	2	4950	7	24750
Total		10	3	7425	10	49500	23	113850

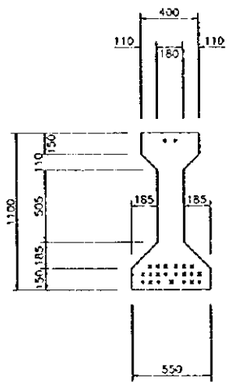
1/2 ENFIERRADURA VIGA PRETENSADO
ESC.1:50



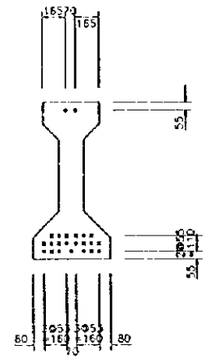
CORTE C-C
ESC.1:50



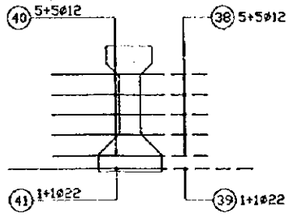
CORTE A-A
ESC.1:20



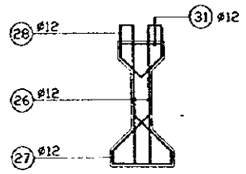
CORTE B-B
ESC.1:20



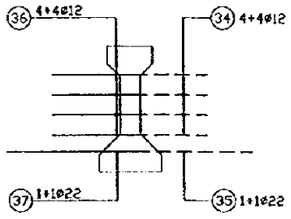
CORTE D-D
ESC.1:25



CORTE E-E
ESC.1:25



CORTE F-F
ESC.1:25



DIRECCION DE VIALIDAD
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Puente: 1-PRE-L22_n4

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Provincia: | Region:

Proyecto | Revisa

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Dibujo
Fecha

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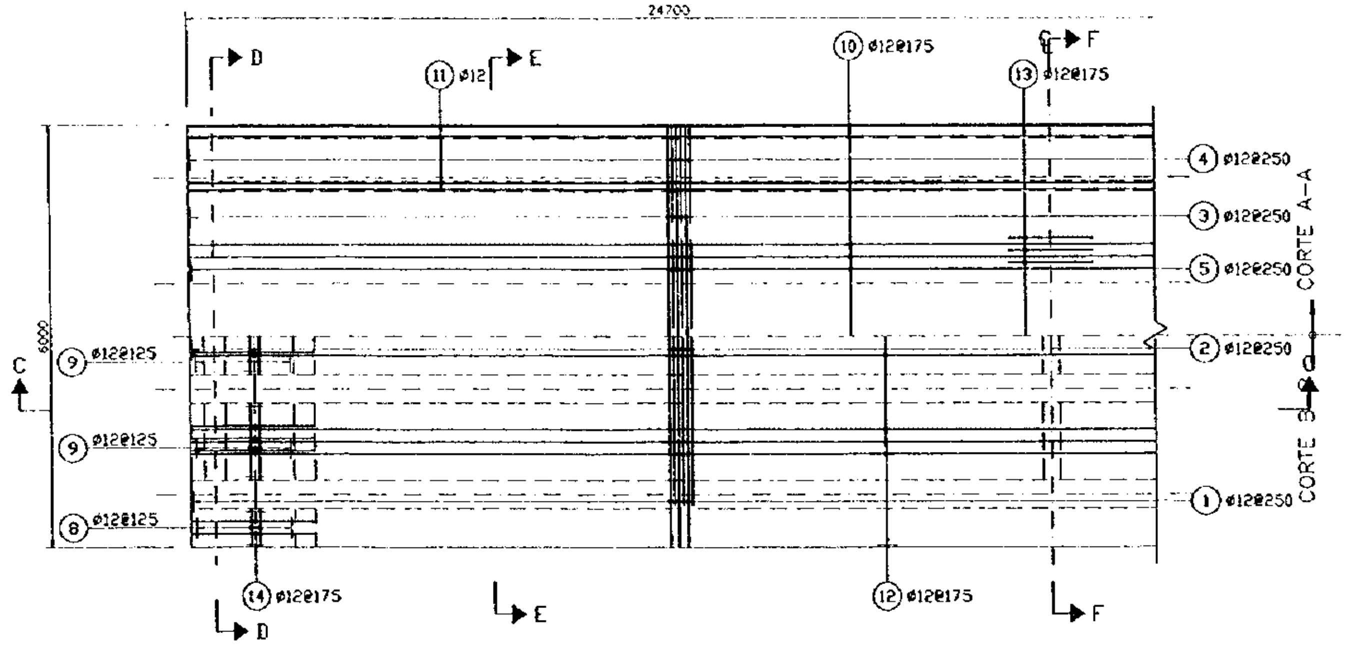
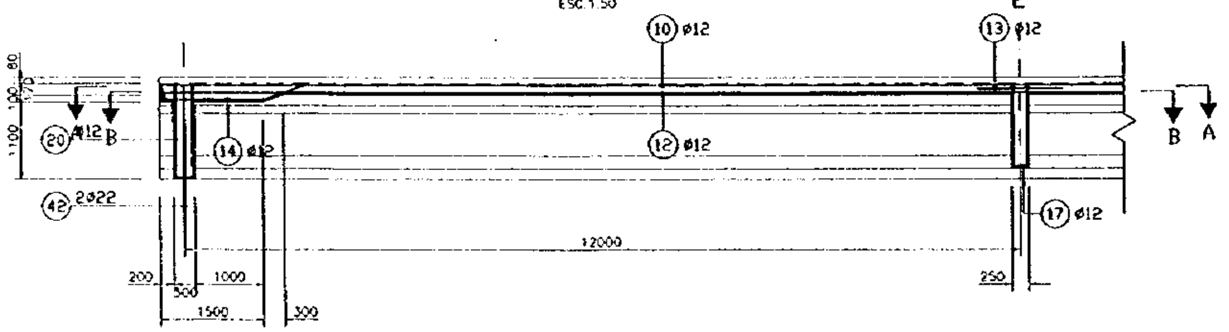
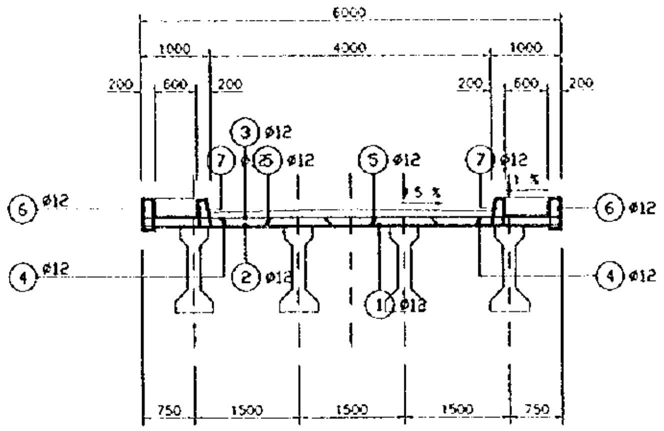
PLANTA DE LOSA
ESC 1:50



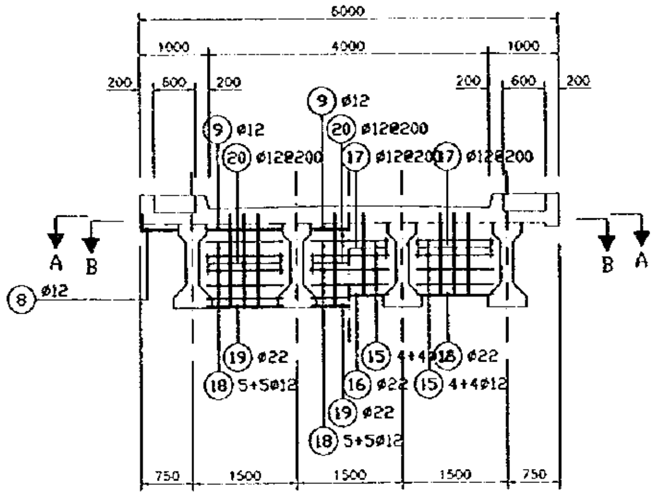
CORTE C–C
ESC 1:50



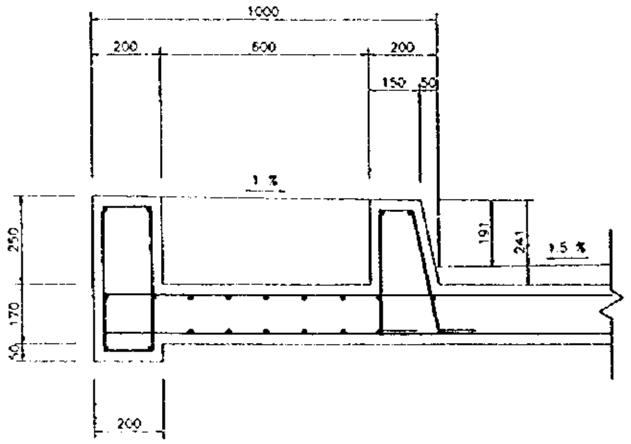
CORTE TRAVERSAL
CORTE E–E
ESC 1:50



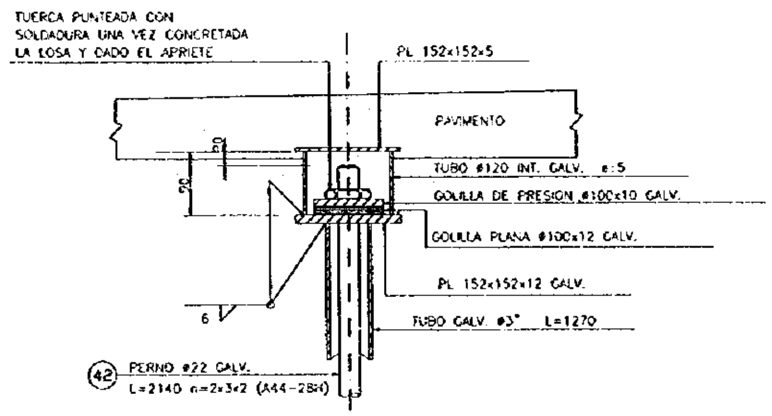
TRAVESAÑOS EXTREMOS
CORTE D–D CORTE F–F
ESC 1:50



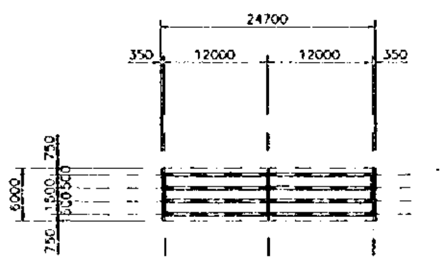
DETALLE DE PASILLO
ESC 1:10



DETALLE BARRAS ANTISISMICAS
ESC 1:5



PLANTA DE DISPOSICION



DIRECCION DE VIALIDAD
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Proyecto	Revisa
Vo Bo Ing. Jefe Depto Puentes	Director de Vialidad
Dibujo: Fecha:	

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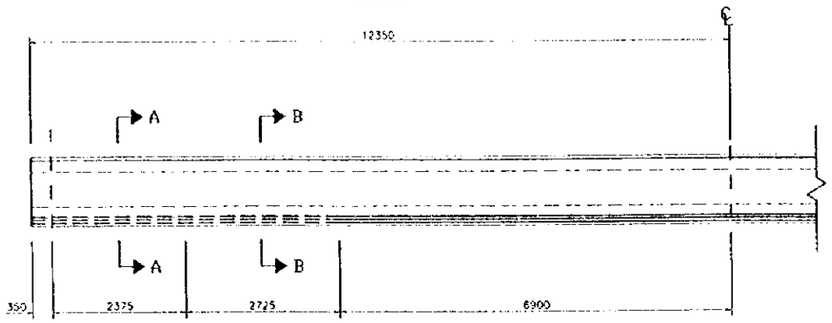
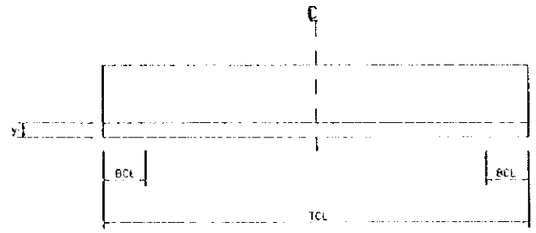
1/2 ELEVACION DE VIGA PRETENSADO
ESC 1:50

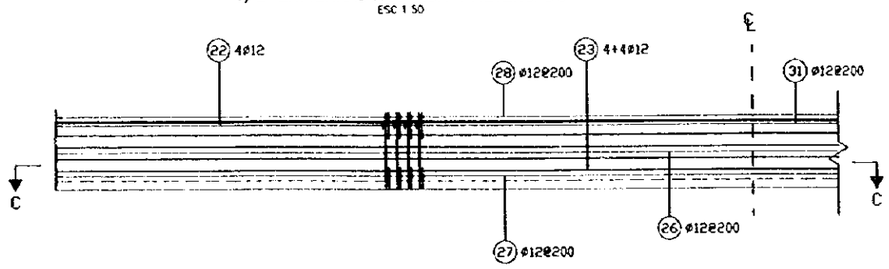




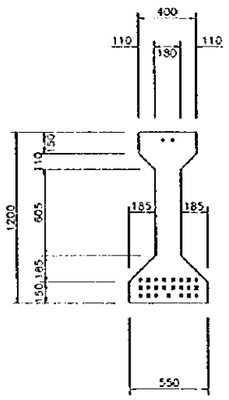
TCL = 24.7 m

Nº	y(cm)	NB	NBC	BCL(mm)	NBC	BCL(mm)	N	Total(mm)
1	114.5	2	0	2725	0	5450	2	0
2	16.5	4	0	2725	4	5450	8	43600
3	11.0	2	2	2725	4	5450	8	54500
4	5.5	4	0	2725	3	5450	7	32700
Total		12	2	5450	11	59950	25	130800

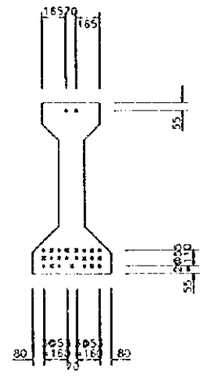
1/2 ENFIERRADURA VIGA PRETENSADO
ESC 1:50



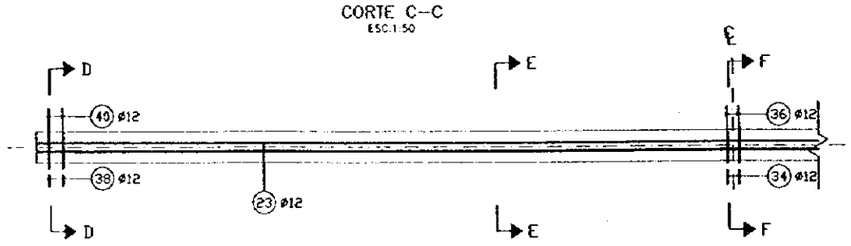
CORTE A–A
ESC.1:20



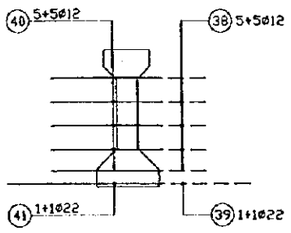
CORTE B–B
ESC.1:20



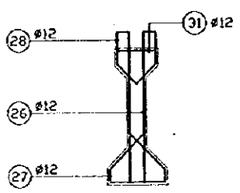
CORTE C–C
ESC.1:50



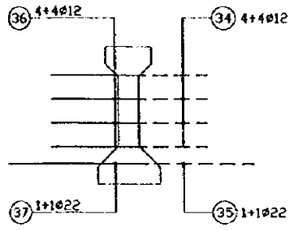
CORTE D–D
ESC.1:25



CORTE E–E
ESC.1:25



CORTE F–F
ESC.1:25



DIRECCION DE VIALIDAD
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Provincia:	Region:

Proyecto | Revisó

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Dibujo: | Fecha:

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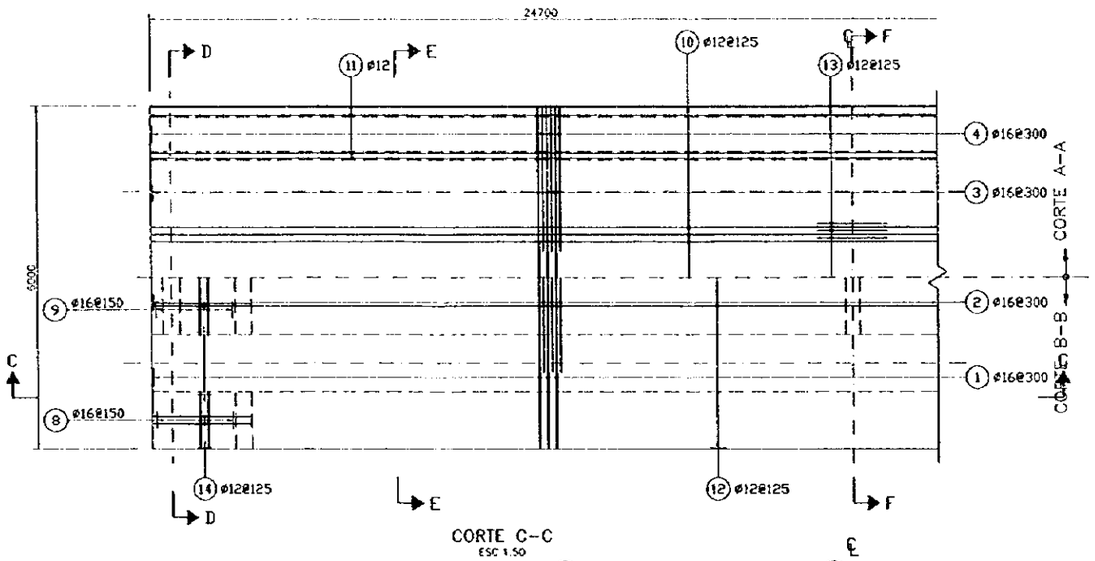
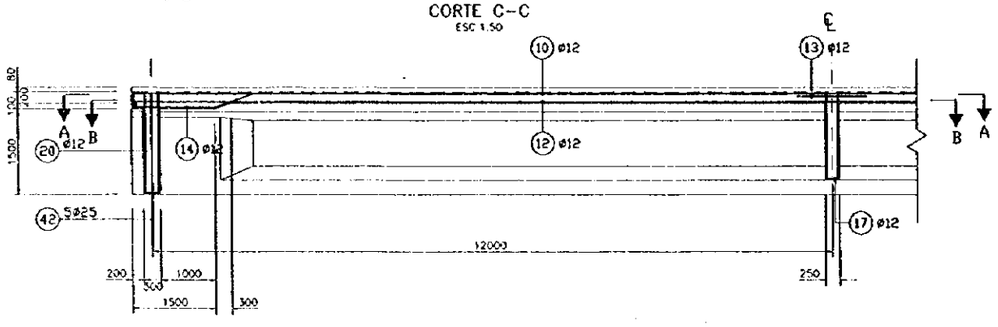
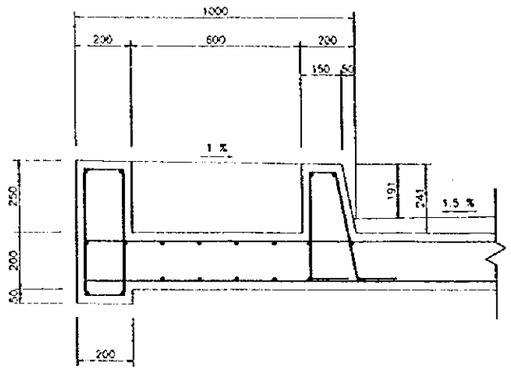
PLANTA DE LOSA
ESC 1:50



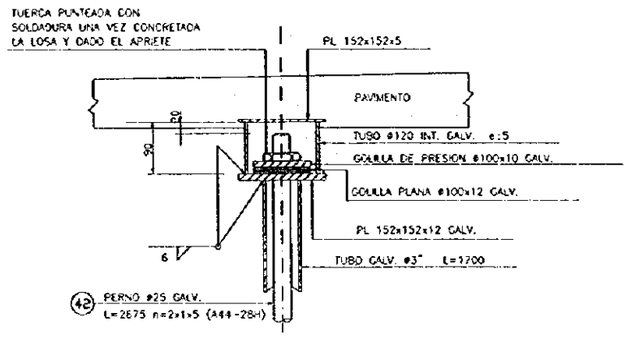
CORTE C-C
ESC 1:50



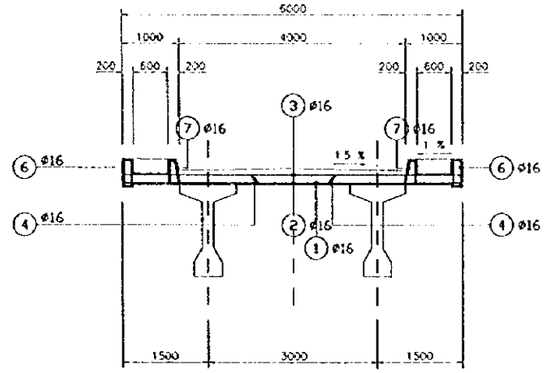
DETALLE DE PASILLO
ESC 1:10



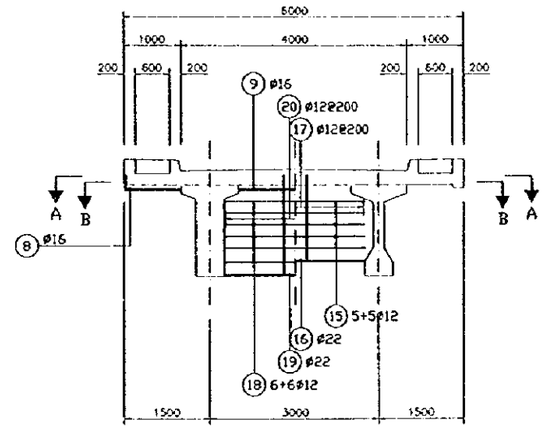
DETALLE BARRAS ANTISISMICAS
ESC 1:5



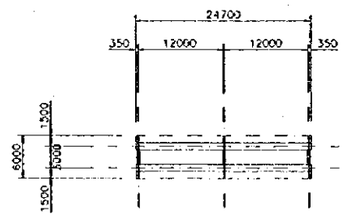
CORTE TRAVERSAL
CORTE E-E
ESC 1:50



TRAVESAÑOS EXTREMOS
CORTE D-D CORTE F-F
ESC.1:50



PLANTA DE DISPOSICION



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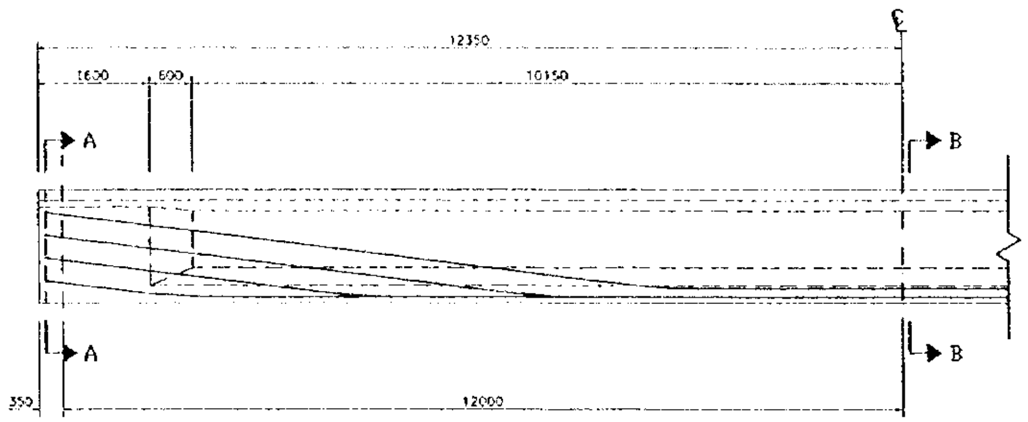
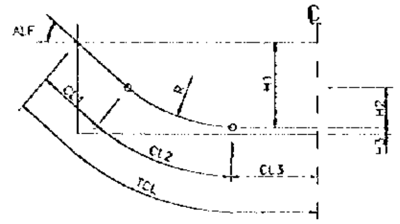
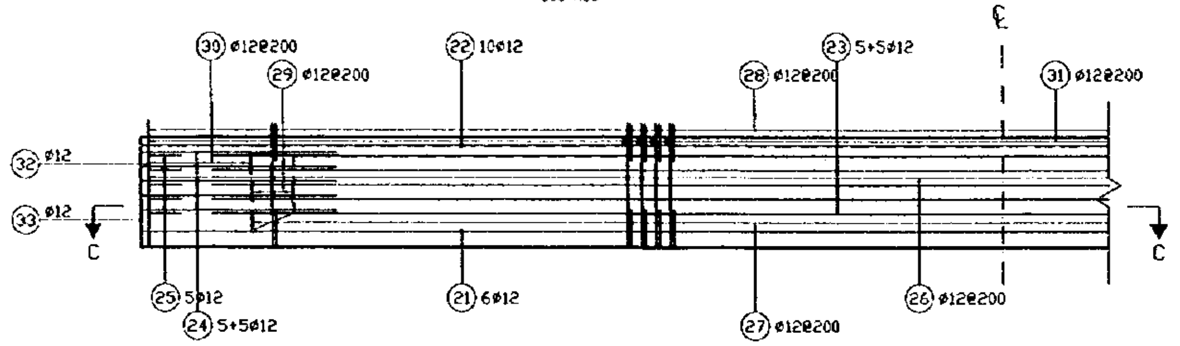
1/2 ELEVACION DE VIGA POSTENSADO
ESC 1:50



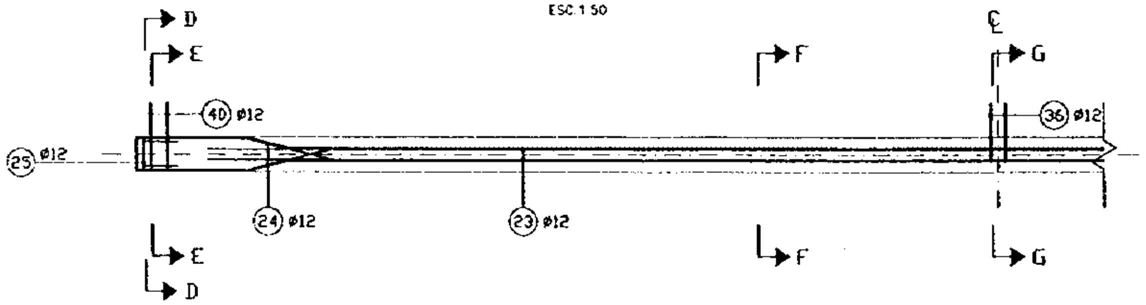


	ALF	R	H1	H2	H3	CL1	CL2	CL3	TCL
D1	7°	10	1070	75	210	8168	1222	2924	12314
D2	7°	10	870	75	90	6527	1222	4553	12302
D3	7°	10	550	75	90	3901	1222	7159	12282
D4	7°	10	230	75	90	1276	1222	9765	12263

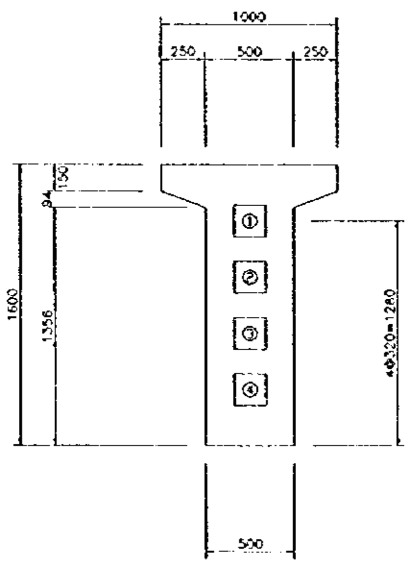
1/2 ENFIERRADURA VIGA POSTENSADO
ESC 1:50



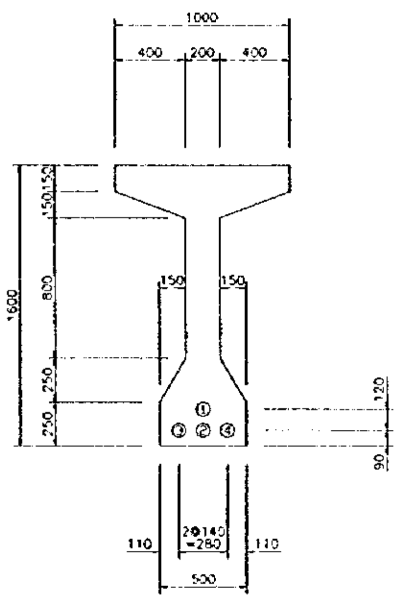
CORTE C–C
ESC 1:50



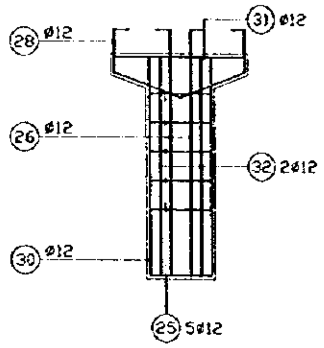
CORTE A–A
ESC 1:20



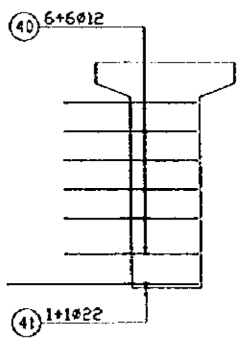
CORTE B–B
ESC 1:20



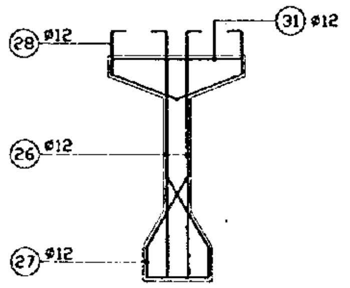
CORTE D–D
ESC 1:25



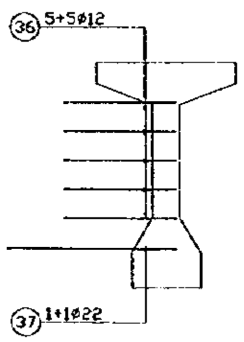
CORTE E–E
ESC 1:25



CORTE F–F
ESC 1:25



CORTE G–G
ESC 1:25



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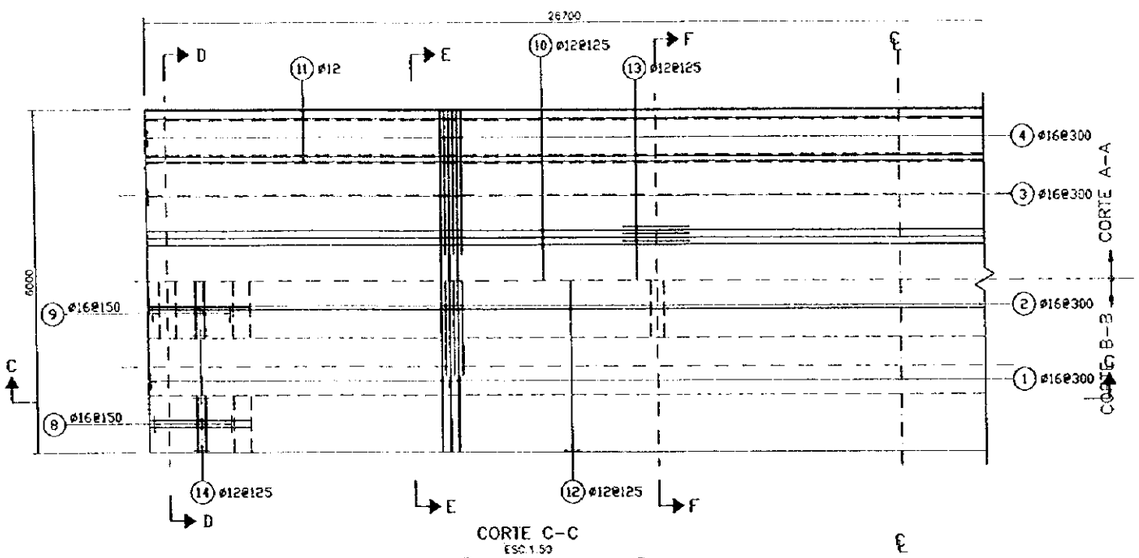
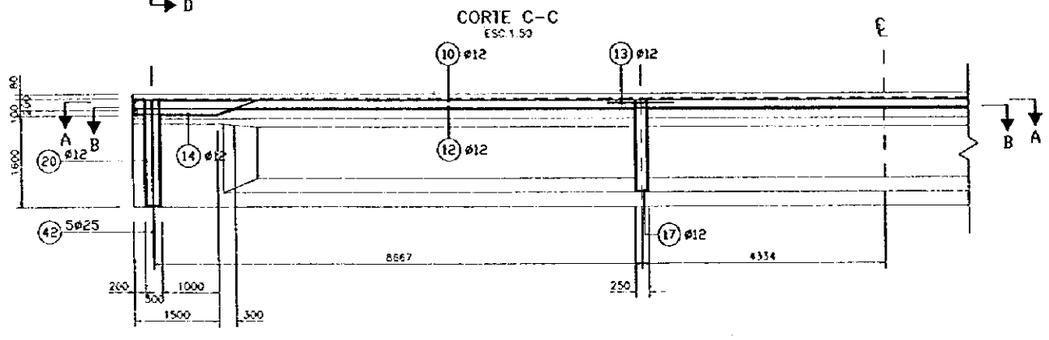
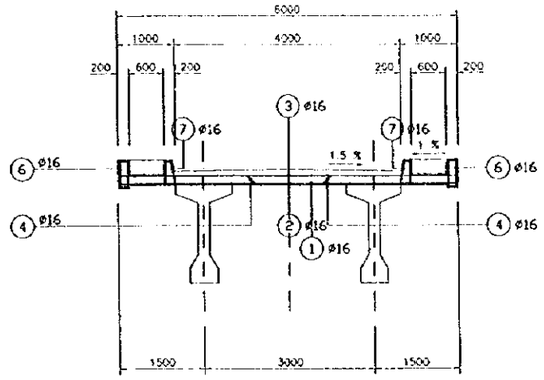
PLANTA DE LOSA
ESC 1:50



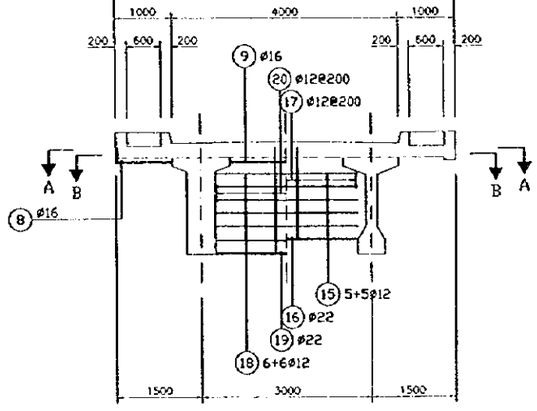
CORTE C-C
ESC 1:50



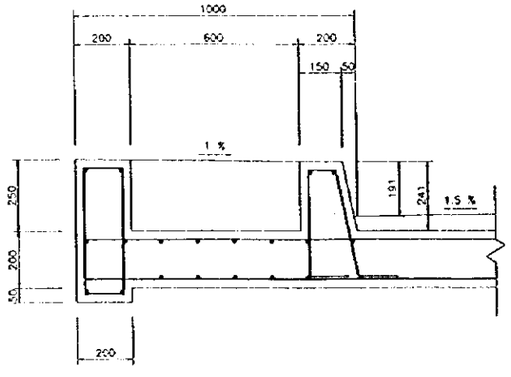
CORTE TRAVERSAL
CORTE E-E
ESC 1:50



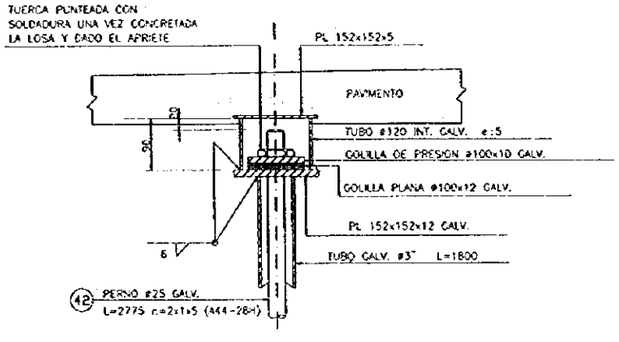
TRAVESAÑOS EXTREMOS
CORTE D-D CORTE F-F
ESC 1:50



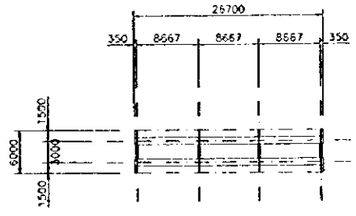
DETALLE DE PASILLO
ESC 1:10



DETALLE BARRAS ANTISISMICAS
ESC 1:5



PLANTA DE DISPOSICION



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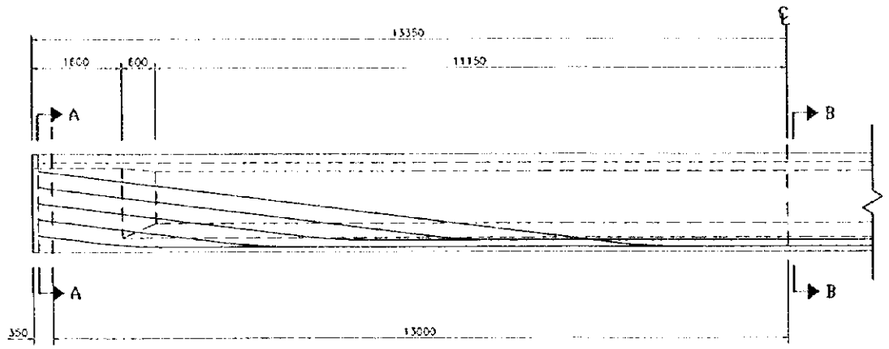
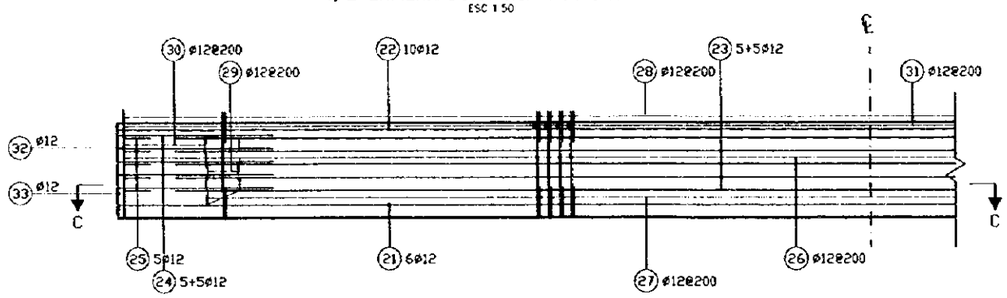
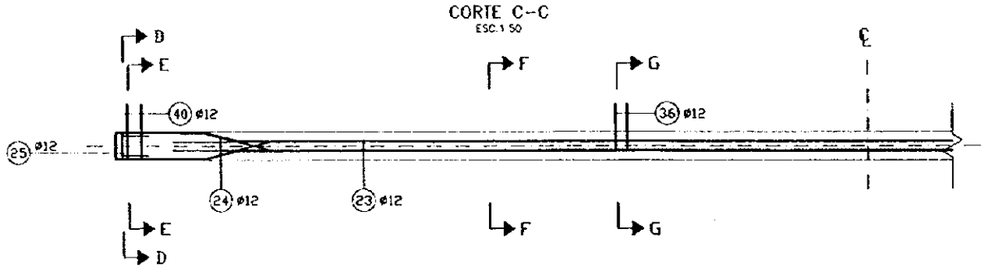
1/2 ELEVACION DE VIGA POSTENSADO
ESC 1:50

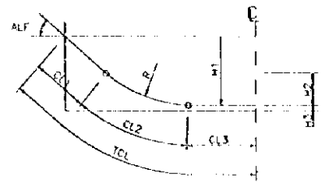


1/2 ENFIERRADURA VIGA POSTENSADO
ESC 1:50



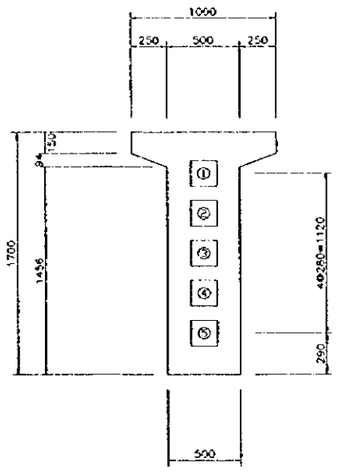
CORTE C-C
ESC 1:50



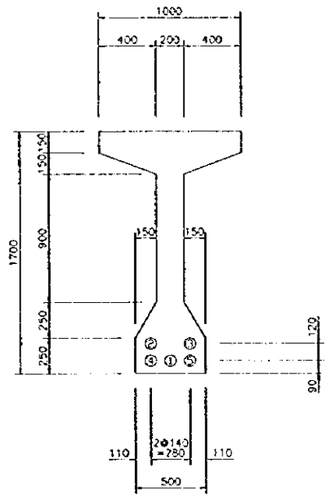


	ALF	R	H1	H2	H3	CL1	CL2	CL3	TCL
D1	7°	10	1320	75	90	10220	1222	1888	13329
D2	7°	10	920	75	210	6937	1222	5146	13305
D3	7°	10	640	75	210	4540	1222	7426	13288
D4	7°	10	480	75	90	3327	1222	8729	13278
D5	7°	10	200	75	90	1029	1222	11010	13261

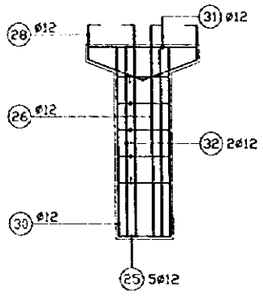
CORTE A-A
ESC 1:20



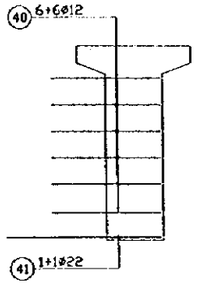
CORTE B-B
ESC 1:20



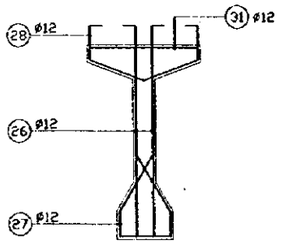
CORTE D-D
ESC 1:25



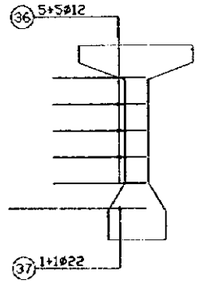
CORTE E-E
ESC 1:25



CORTE F-F
ESC 1:25



CORTE G-G
ESC 1:25



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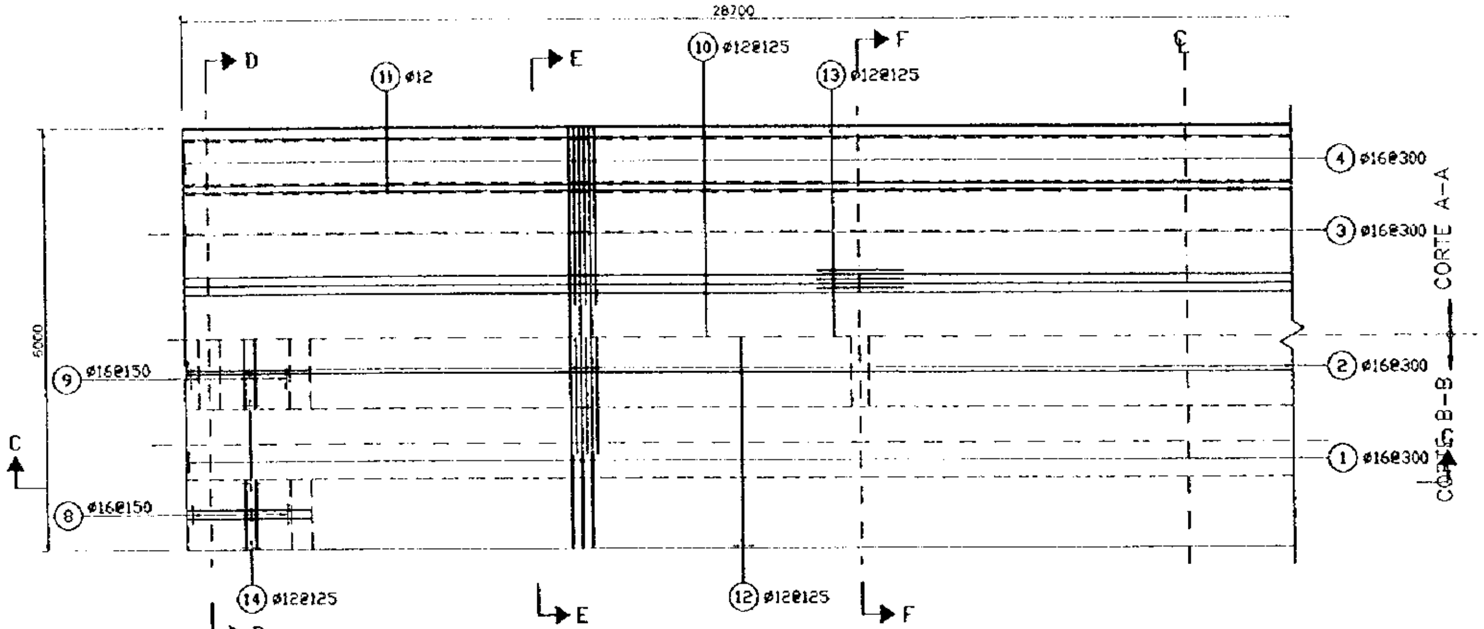
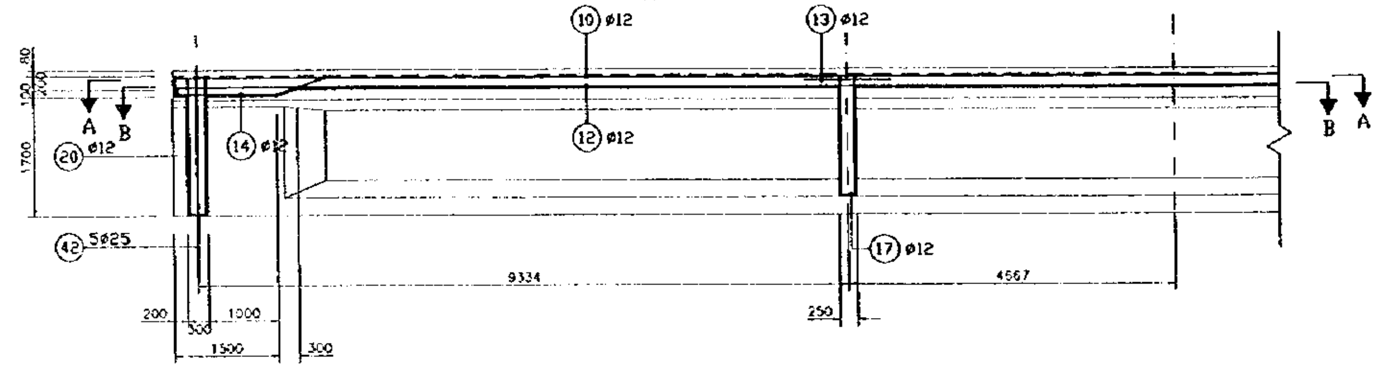
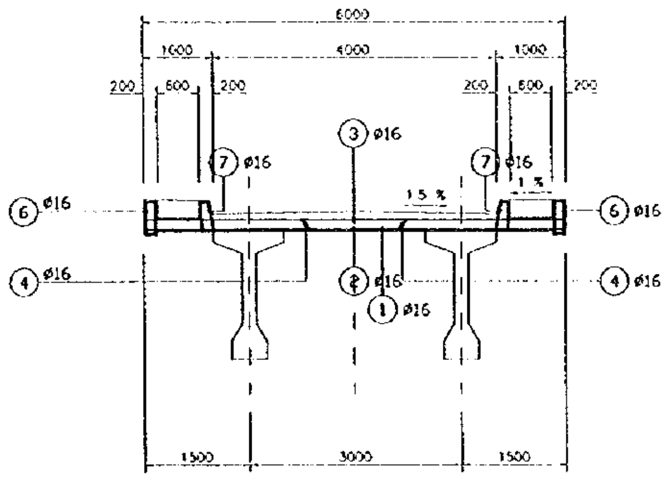
PLANTA DE LOSA
ESC 1:50



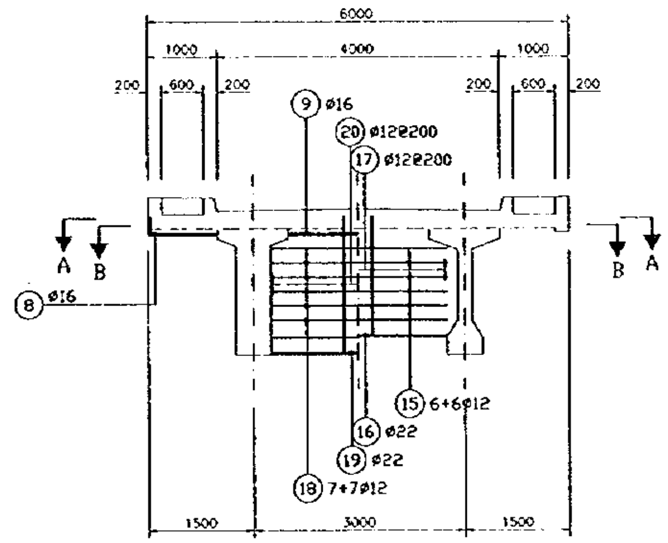
CORTE C-C
ESC 1:50



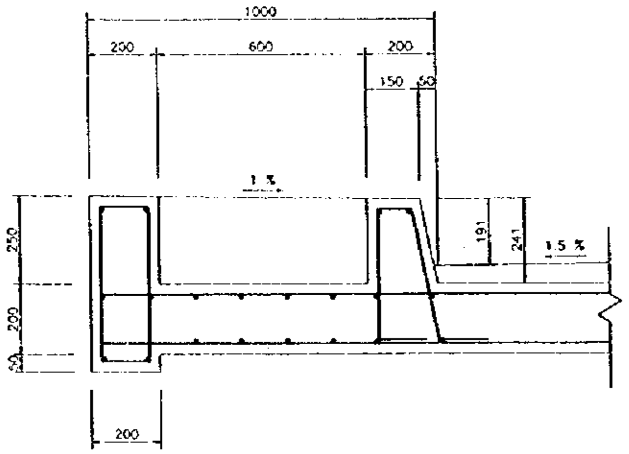
CORTE TRAVERSAL
CORTE E-E
ESC 1:50



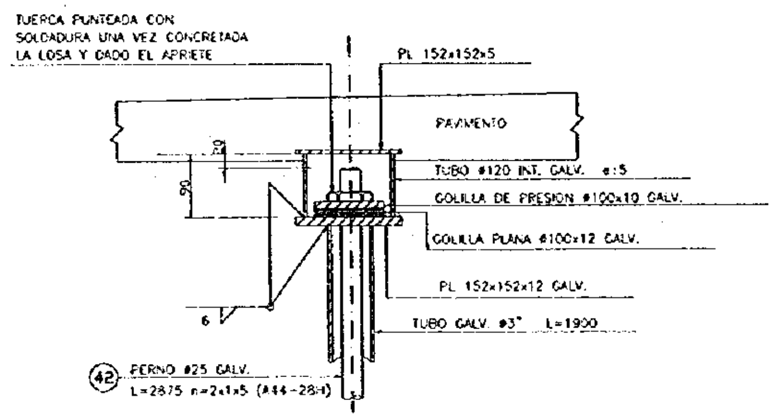
TRAVESAÑOS EXTREMOS
CORTE D-D   CORTE F-F
ESC 1:50



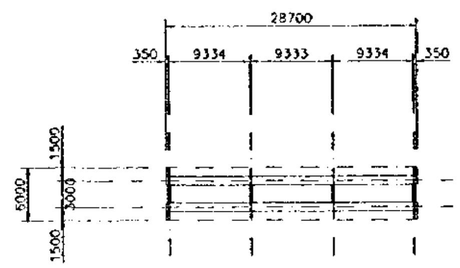
DETALLE DE PASILLO
ESC 1:10



DETALLE BARRAS ANTISISMICAS
ESC 1:5



PLANTA DE DISPOSICION



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Dibujo Fecha:	

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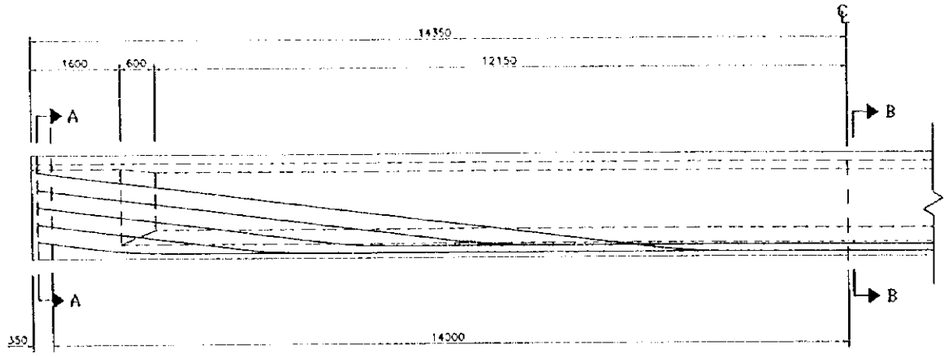
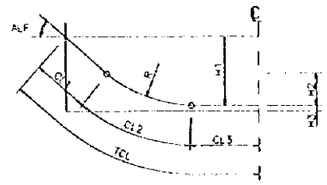
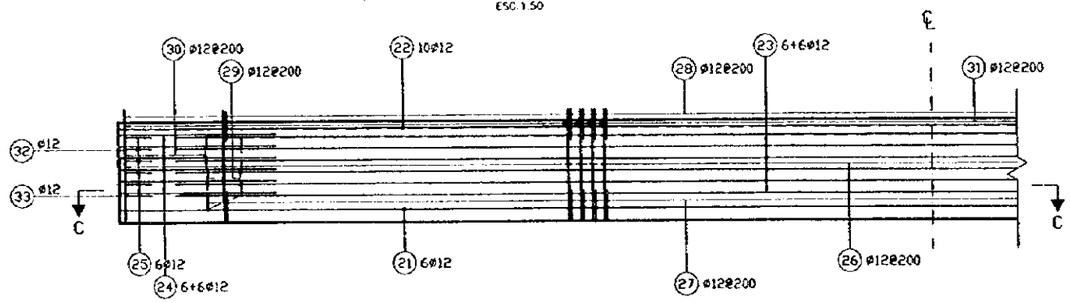
1/2 ELEVACION DE VIGA POSTENSADO
ESC 1:50



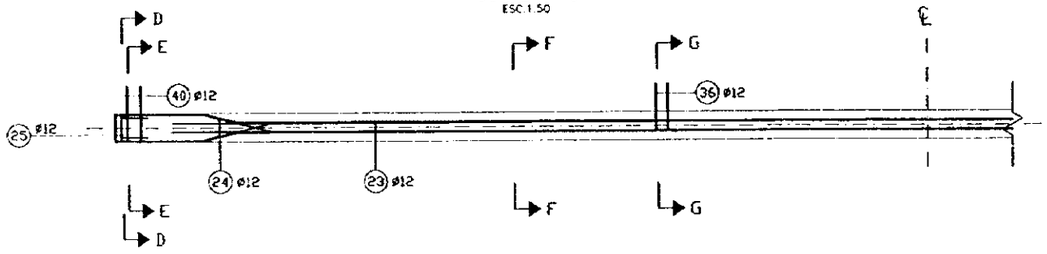


	ALF	R	H1	H2	H3	CL1	CL2	CL3	TCL
D1	7°	10	1410	75	90	10558	1222	2155	14335
D2	7°	10	990	75	210	7512	1222	5575	14309
D3	7°	10	690	75	210	5050	1222	8019	14291
D4	7°	10	510	75	90	3573	1222	9485	14280
D5	7°	10	210	75	90	1112	1222	11928	14261

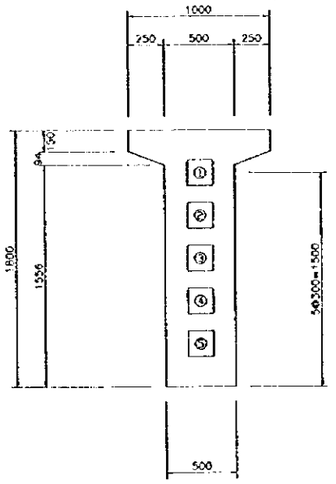
1/2 ENFIERRADURA VIGA POSTENSADO
ESC 1:50



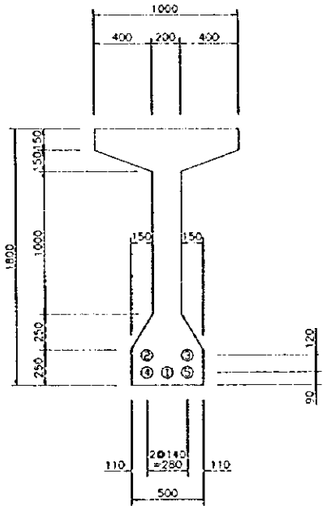
CORTE C–C
ESC 1:50



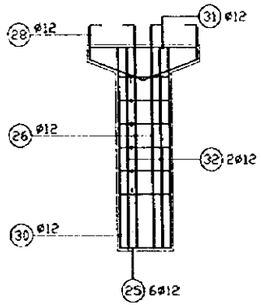
CORTE A–A
ESC 1:20



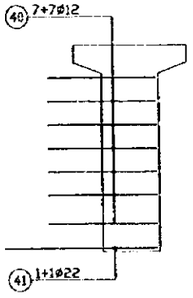
CORTE B–B
ESC 1:20



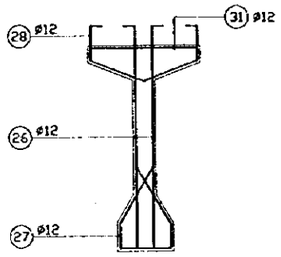
CORTE D–D
ESC 1:25



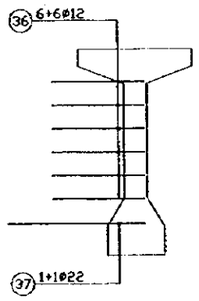
CORTE E–E
ESC 1:25



CORTE F–F
ESC 1:25



CORTE G–G
ESC 1:25



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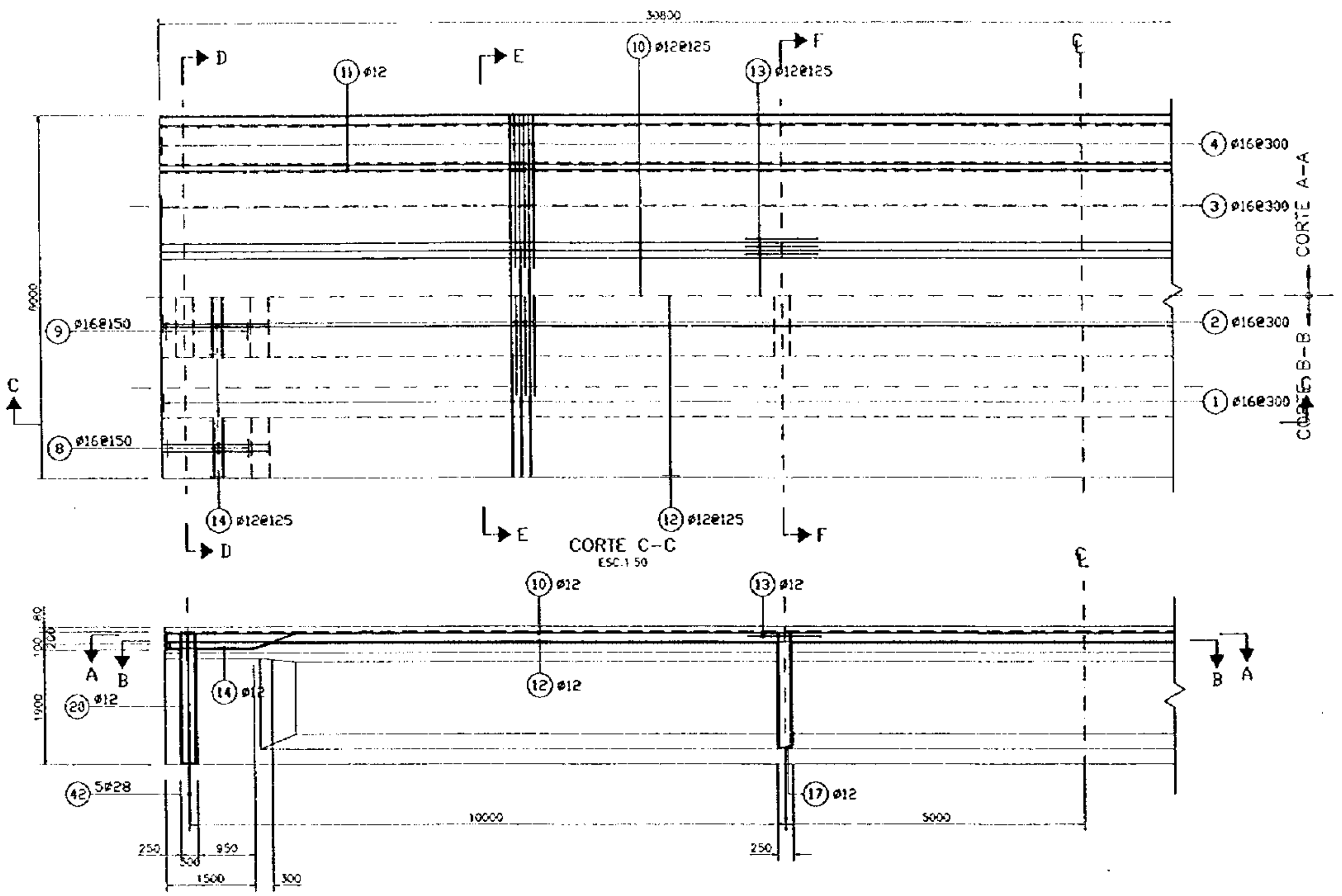
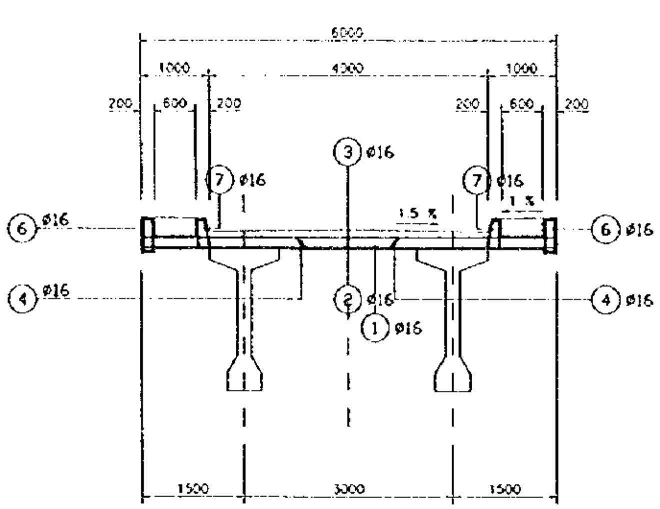
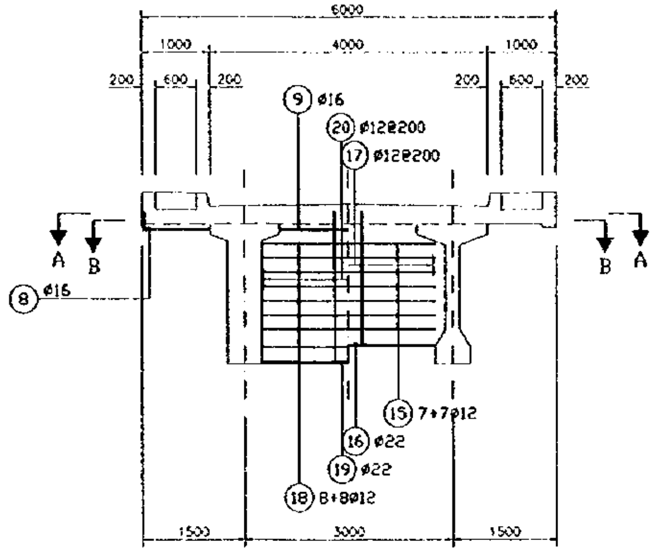
PLANTA DE LOSA
ESC 1:50



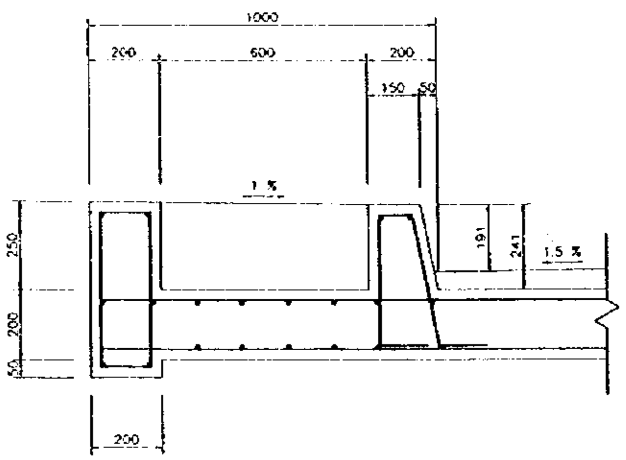
CORTE TRAVERSAL
CORTE E–E
ESC 1:50



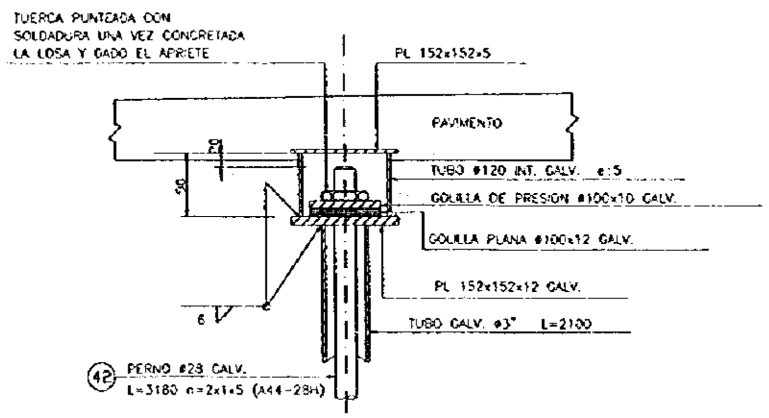
TRAVESAÑOS EXTREMOS
CORTE D–D CORTE F–F
ESC 1:50



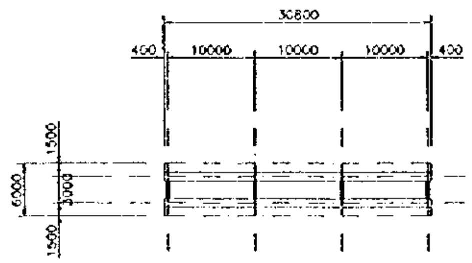
DETALLE DE PASILLO
ESC 1:10



DETALLE BARRAS ANTISISMICAS
ESC 1:5



PLANTA DE DISPOSICION



DIRECCION DE VIALIDAD
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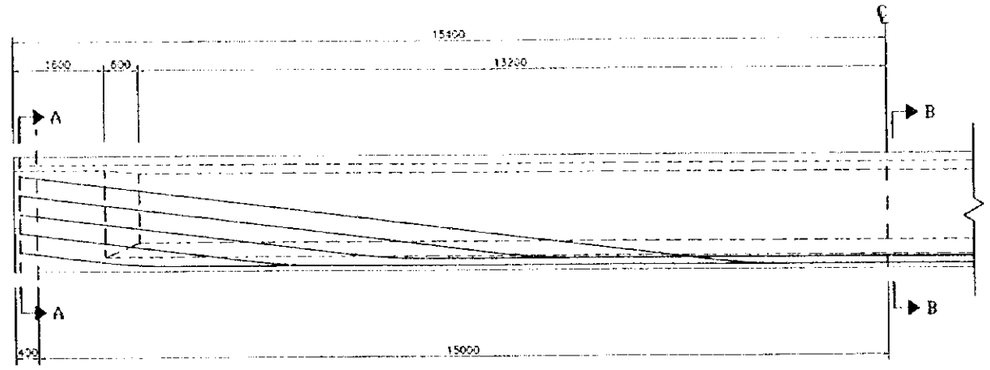
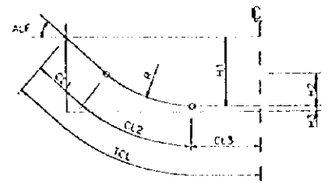
Vo Bo Ing Jefe Depto Puentes	Director de Vialidad
Dibujo:	
Fecha:	

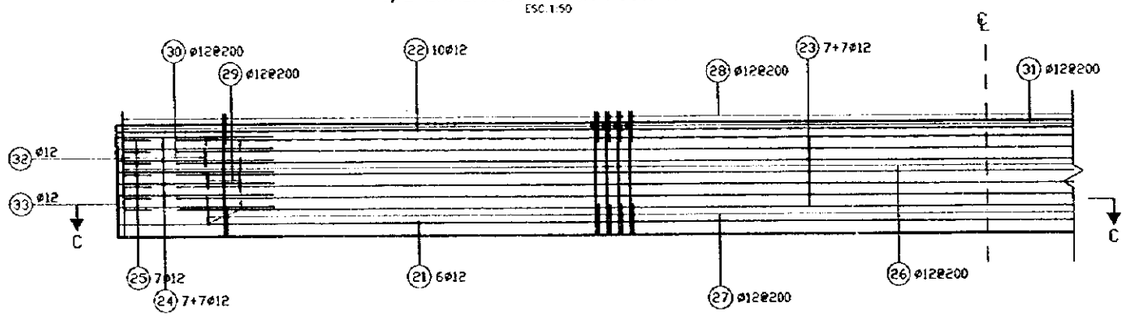
1/2 ELEVACION DE VIGA POSTENSADO
ESC 1:50



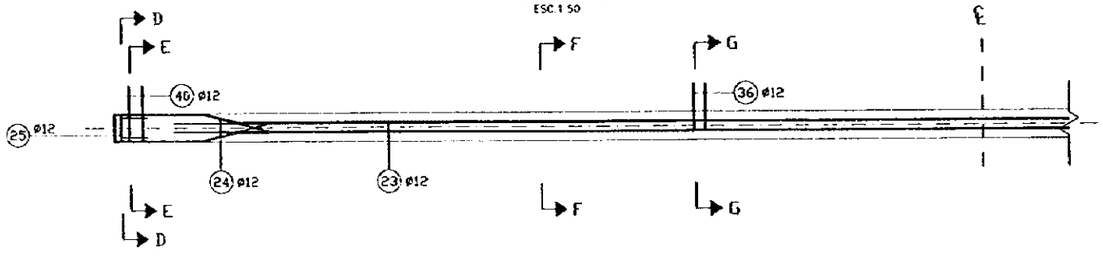


	ALF	R	H1	H2	H3	CL1	CL2	CL3	TCL
D1	7°	10	1570	75	90	12271	1222	1302	15395
D2	7°	10	1120	75	210	8579	1222	5587	15367
D3	7°	10	790	75	210	5871	1222	8254	15347
D4	7°	10	580	75	90	4148	1222	9955	15334
D5	7°	10	250	75	90	1440	1222	12852	15314

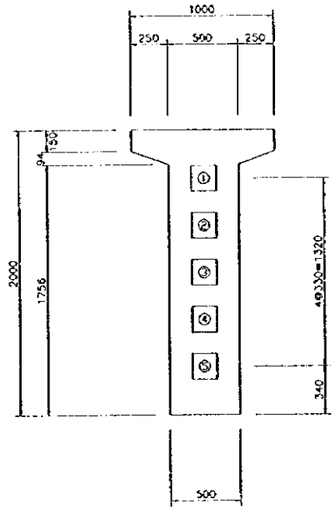
1/2 ENFIERRADURA VIGA POSTENSADO
ESC 1:50



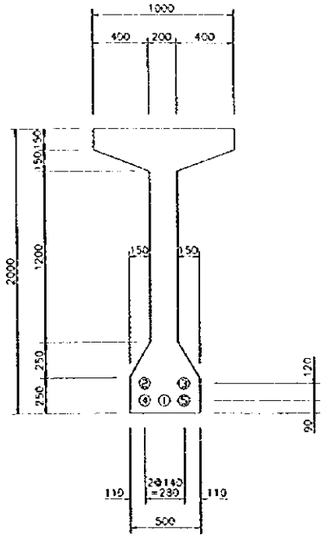
CORTE C-C
ESC 1:50



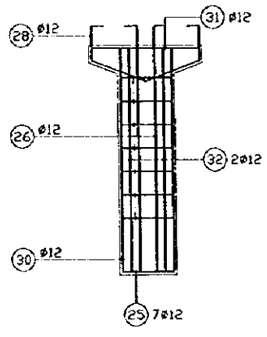
CORTE A-A
ESC 1:20



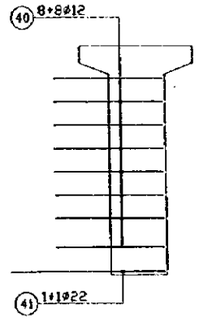
CORTE B-B
ESC 1:20



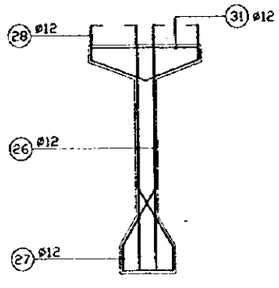
CORTE D-D
ESC 1:25



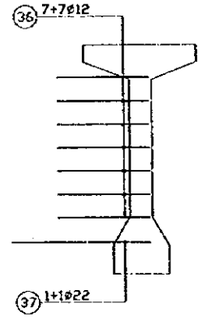
CORTE E-E
ESC 1:25



CORTE F-F
ESC 1:25



CORTE G-G
ESC 1:25



DIRECCION DE VIALIDAD
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Dibujó
Fecha

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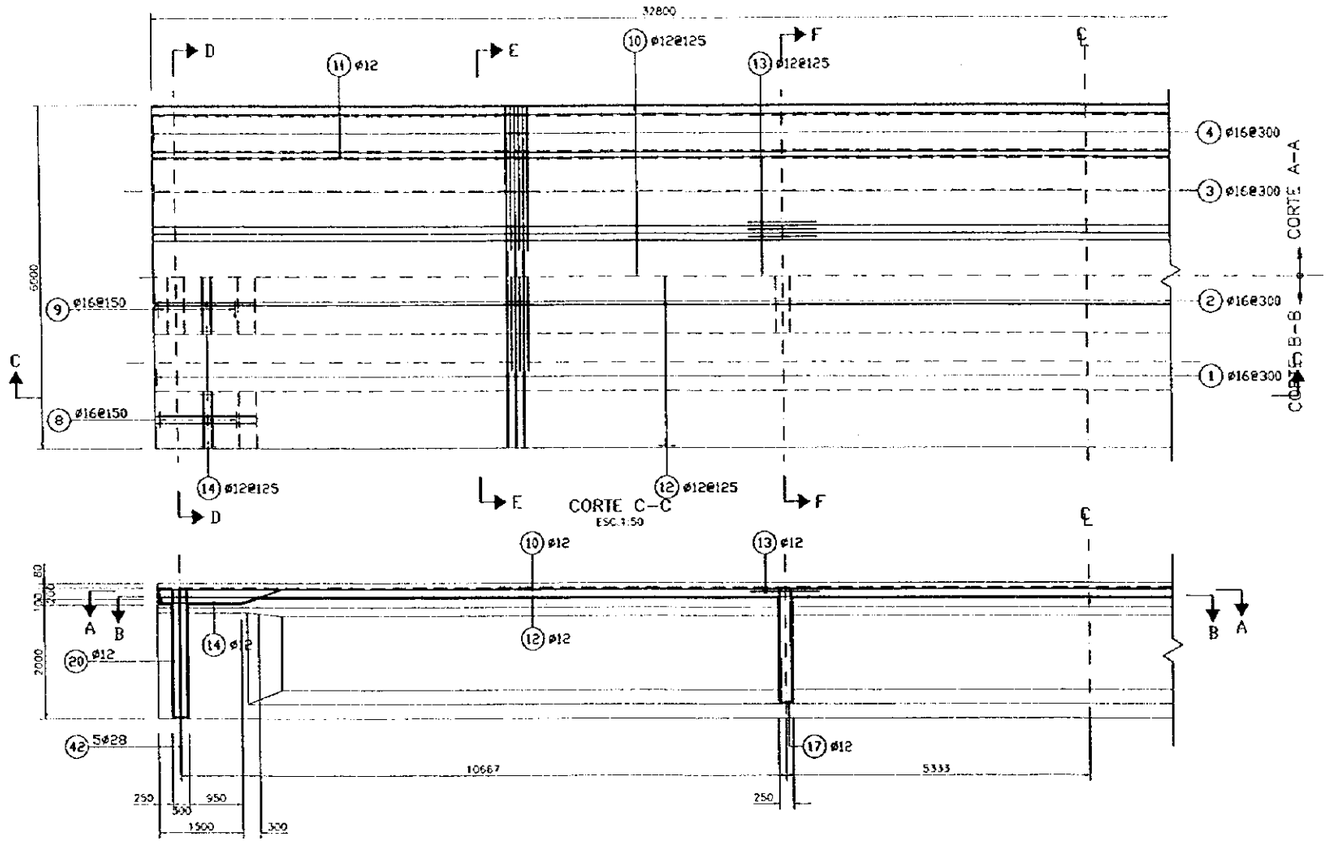
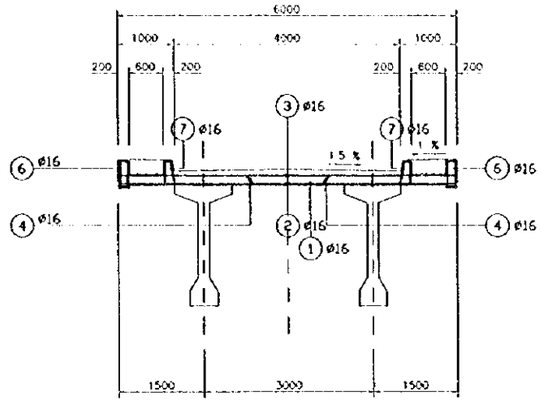
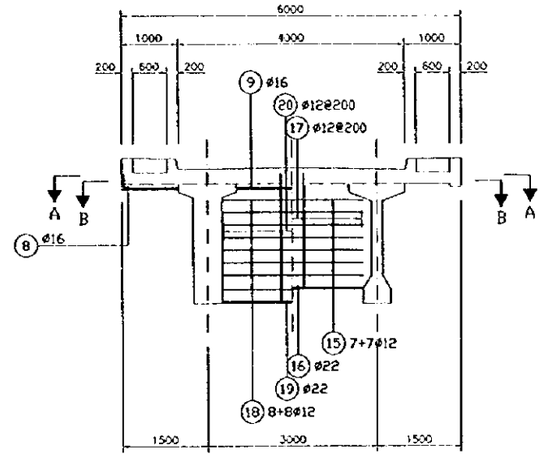
PLANTA DE LOSA
ESC.1:50



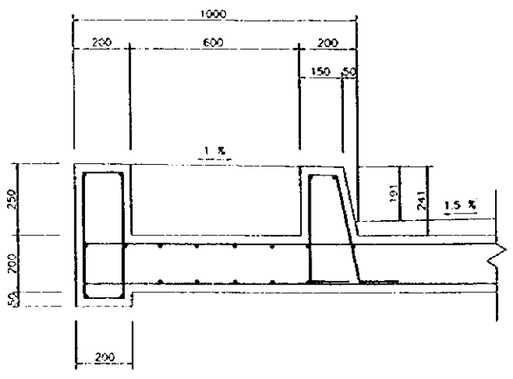
CORTE TRAVERSAL
CORTE E--E
ESC.1:50



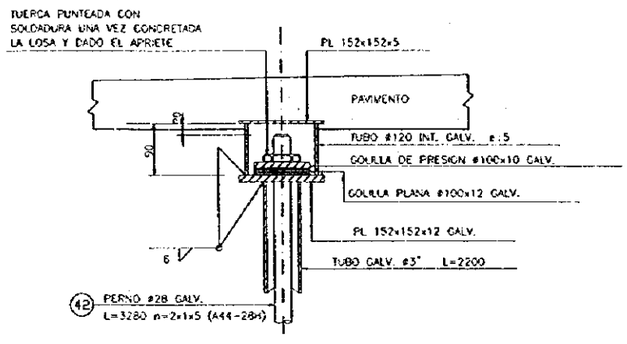
TRAVESAÑOS EXTREMOS
CORTE D--D CORTE F--F
ESC.1:50



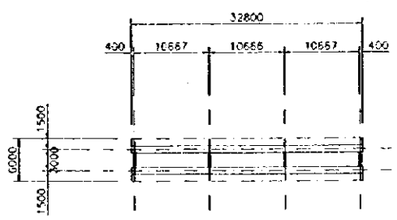
DETALLE DE PASILLO
ESC.1:10



DETALLE BARRAS ANTISISMICAS
ESC.1:5



PLANTA DE DISPOSICION



DIRECCION DE VIALIDAD
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Proyecto — Revisó

Vo Bo Ing. Jefe Depto. Puentes — Director de Vialidad

Dibujó — Fecha

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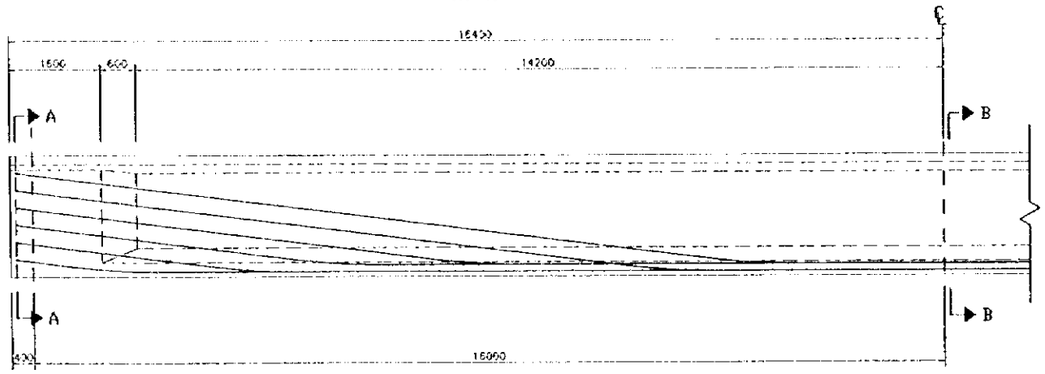
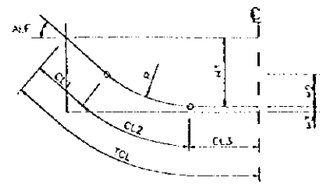
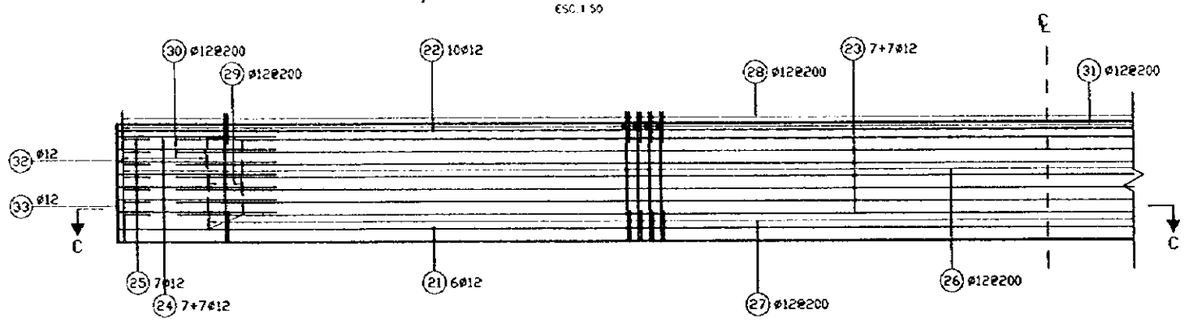
1/2 ELEVACION DE VIGA POSTENSADO
ESC. 1:50



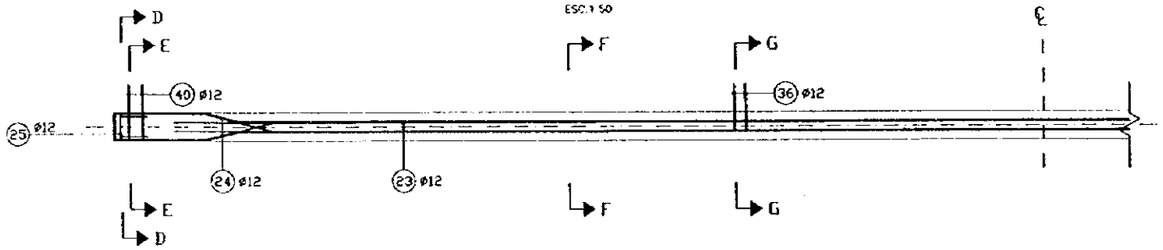


	ALF	R	H1	H2	H3	CL1	CL2	CL3	TCL
D1	7°	10	1590	75	210	12435	1222	2733	16335
D2	7°	10	1410	75	90	10958	1222	4205	16385
D3	7°	10	990	75	210	7512	1222	7625	16359
D4	7°	10	690	75	210	5050	1222	10069	16341
D5	7°	10	510	75	90	3573	1222	11535	16330
D6	7°	10	210	75	90	1112	1222	13978	16311

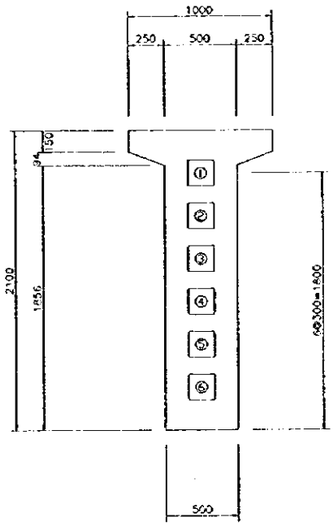
1/2 ENFIERRADURA VIGA POSTENSADO
ESC. 1:50



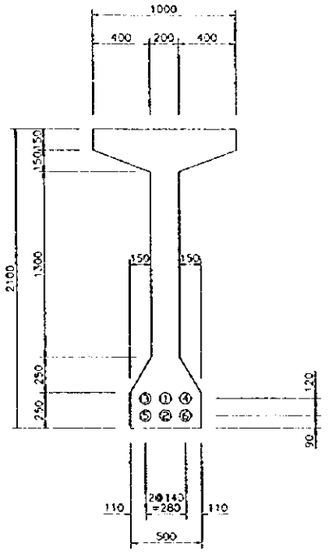
CORTE C-C
ESC. 1:50



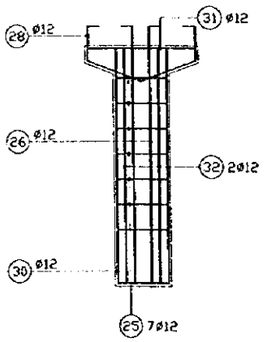
CORTE A-A
ESC. 1:20



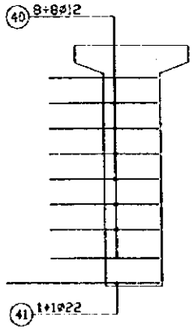
CORTE B-B
ESC. 1:20



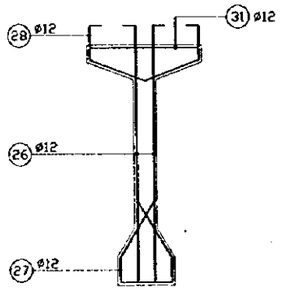
CORTE D-D
ESC. 1:25



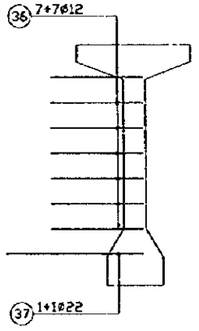
CORTE E-E
ESC. 1:25



CORTE F-F
ESC. 1:25



CORTE G-G
ESC. 1:25



DIRECCION DE VIALIDAD
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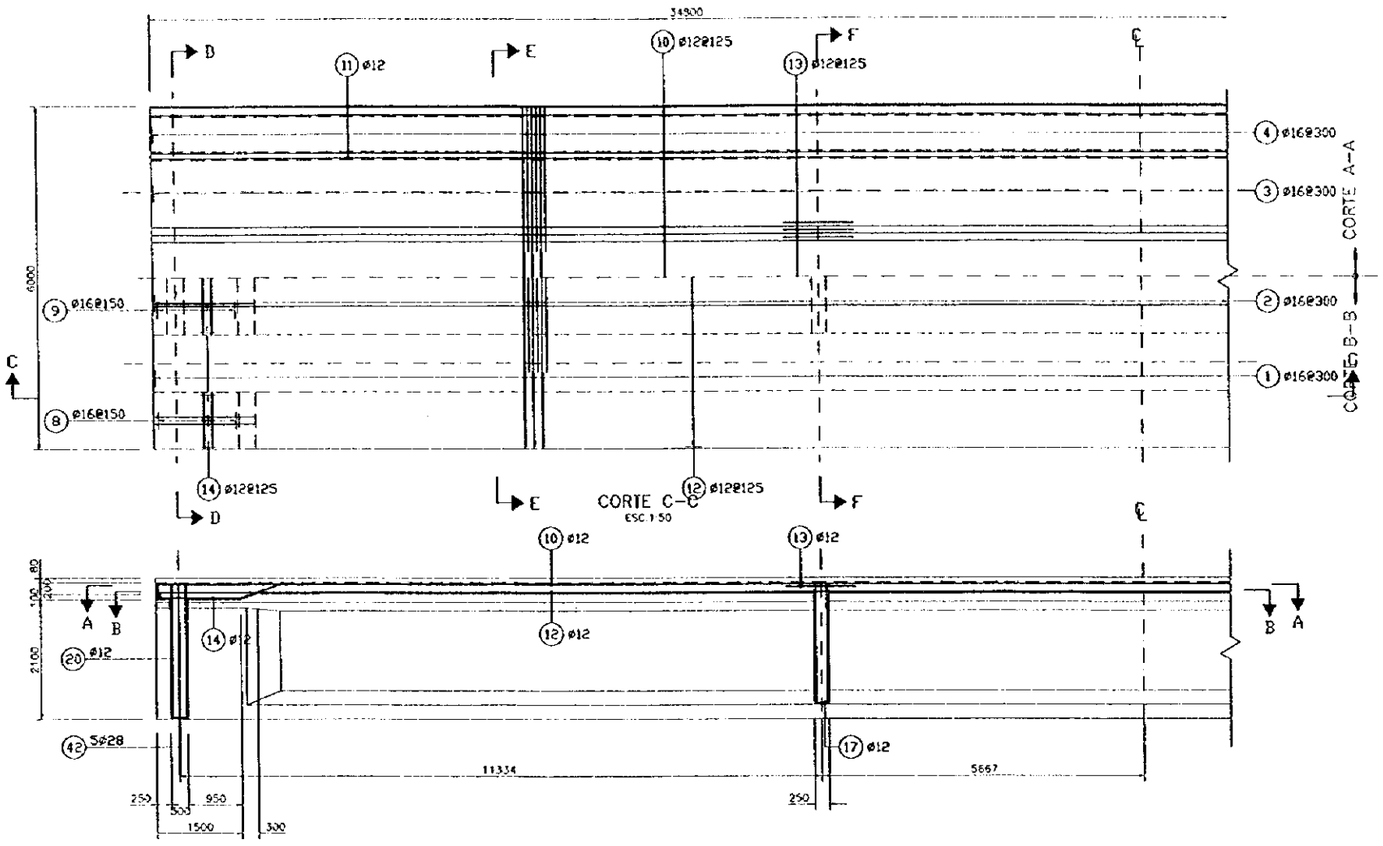
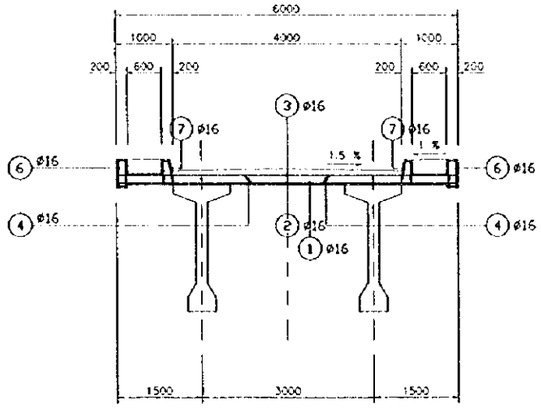
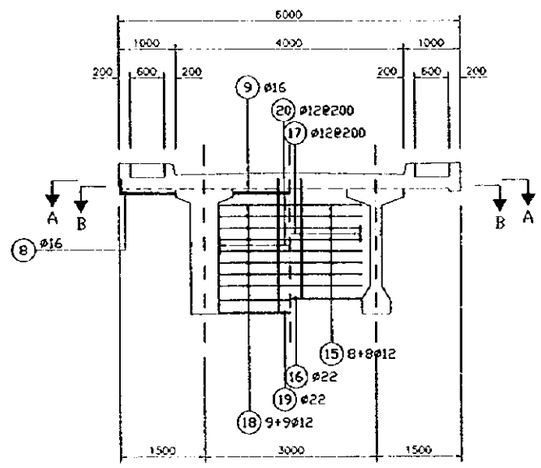
PLANTA DE LOSA
ESC 1:50



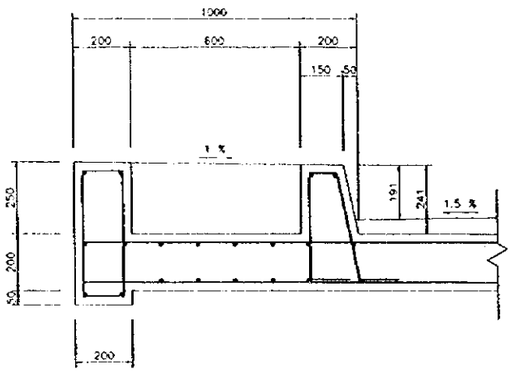
CORTE TRAVERSAL
CORTE E--E
ESC 1:50



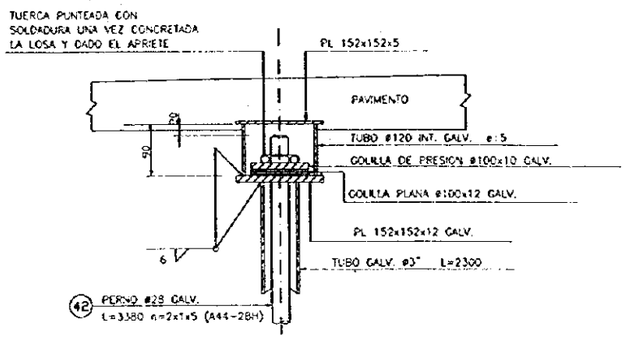
TRAVESAÑOS EXTREMOS
CORTE D--D CORTE F--F
ESC.1:50



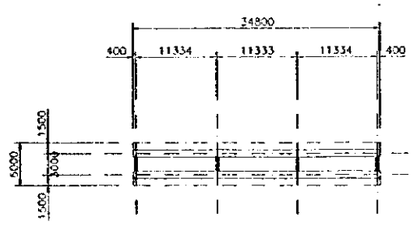
DETALLE DE PASILLO
ESC 1:10



DETALLE BARRAS ANTISISMICAS
ESC.1:5



PLANTA DE DISPOSICION



DIRECCION DE VIALIDAD
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Dibujo / Fecha:

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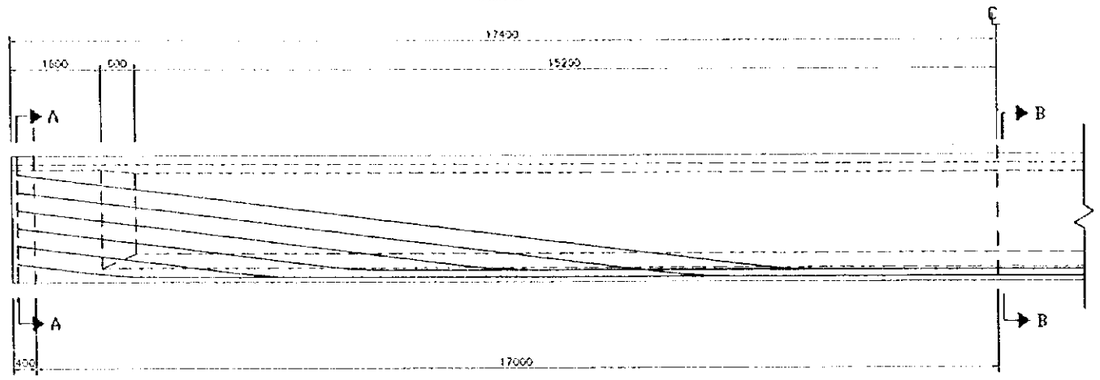
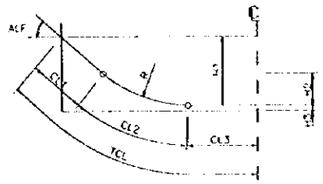
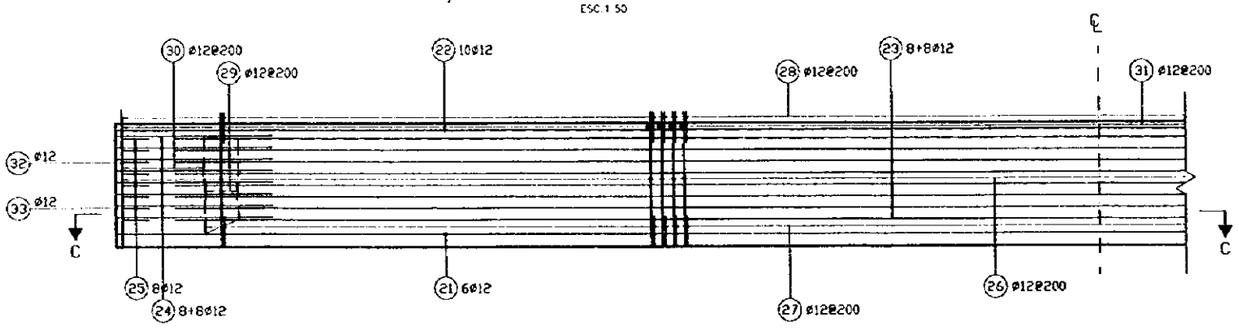
1/2 ELEVACION DE VIGA POSTENSADO
ESC.1:50



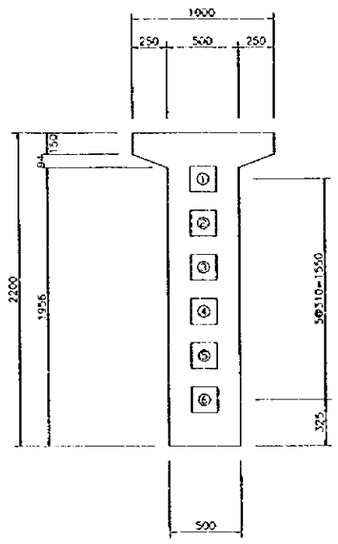


	ALF	R	H1	H2	H3	CL1	CL2	CL3	TCL
D1	7°	10	1685	75	210	13051	1222	3128	17400
D2	7°	10	1475	75	90	11491	1222	4675	17389
D3	7°	10	1045	75	210	7353	1222	8178	17362
D4	7°	10	735	75	210	5419	1222	10702	17343
D5	7°	10	545	75	90	3860	1222	12250	17332
D6	7°	10	235	75	90	1317	1222	14774	17313

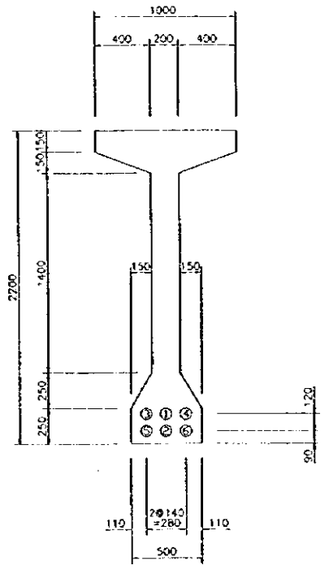
1/2 ENFIERRADURA VIGA POSTENSADO
ESC.1:50



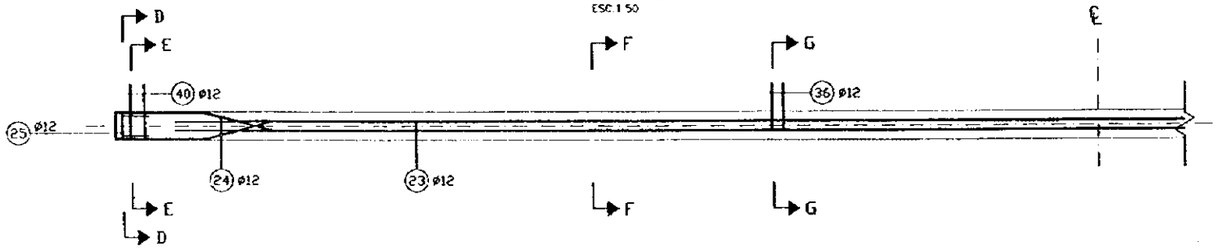
CORTE A-A
ESC.1:20



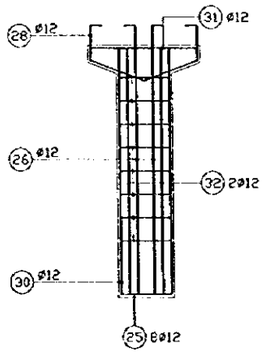
CORTE B-B
ESC.1:20



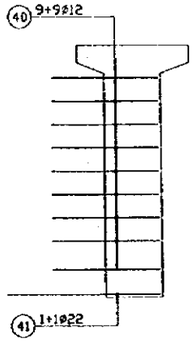
CORTE C-C
ESC.1:50



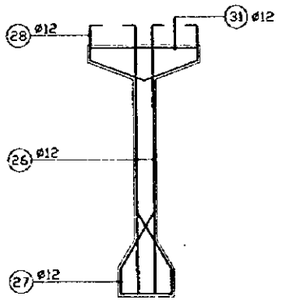
CORTE D-D
ESC.1:25



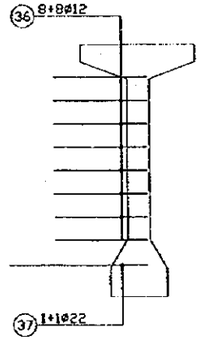
CORTE E-E
ESC.1:25



CORTE F-F
ESC.1:25



CORTE G-G
ESC.1:25



DIRECCION DE VIALIDAD
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Puente: 1-PST-L34_n2

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Dibujo | Fecha

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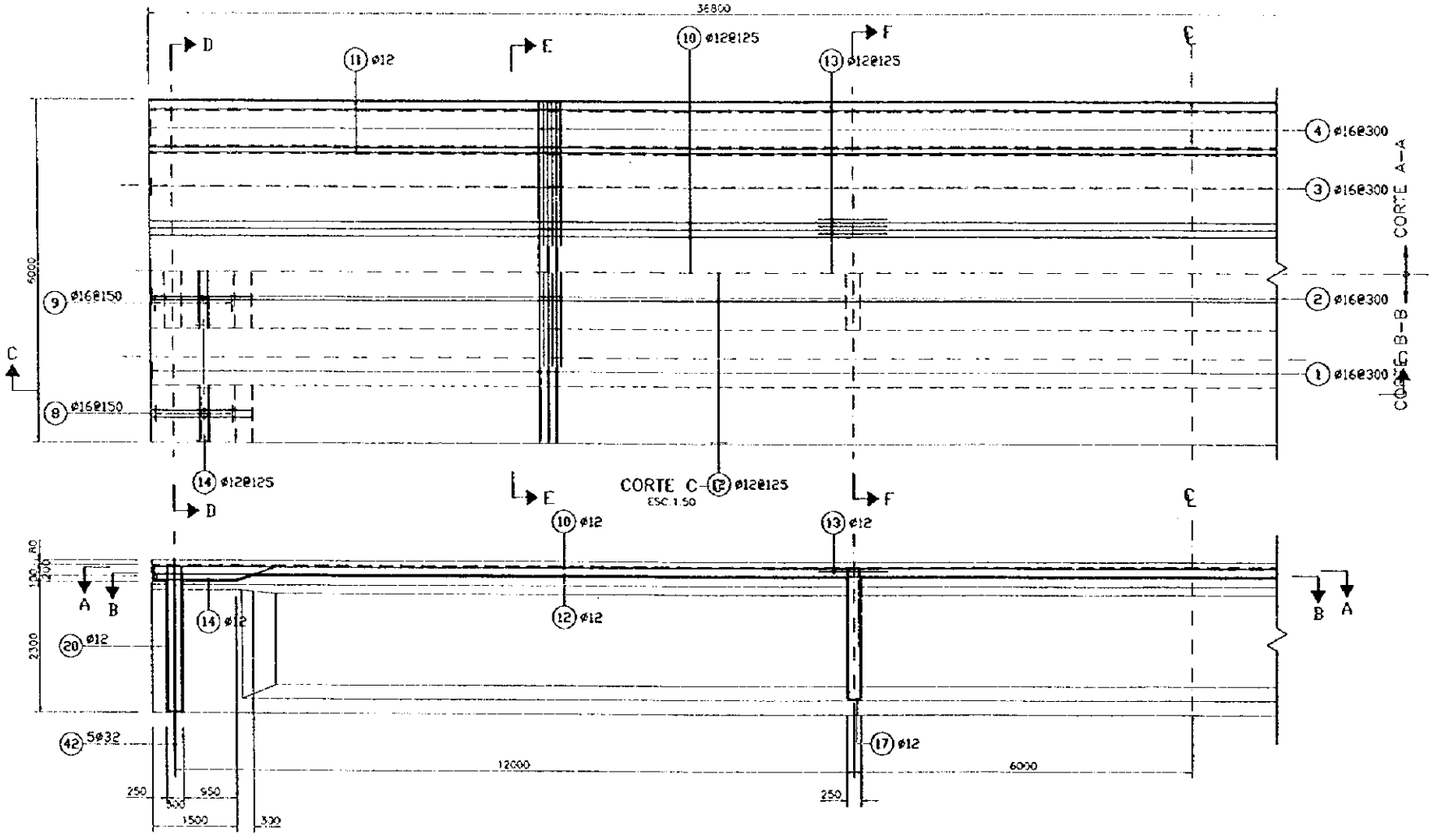
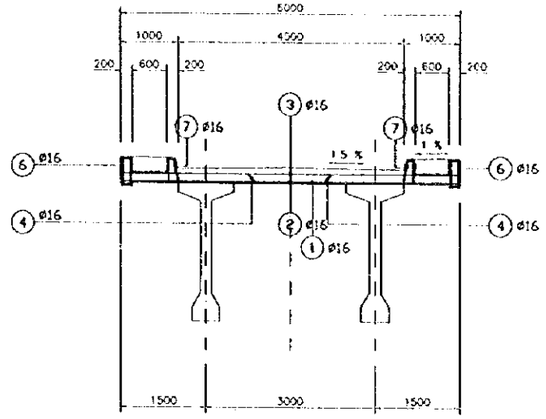
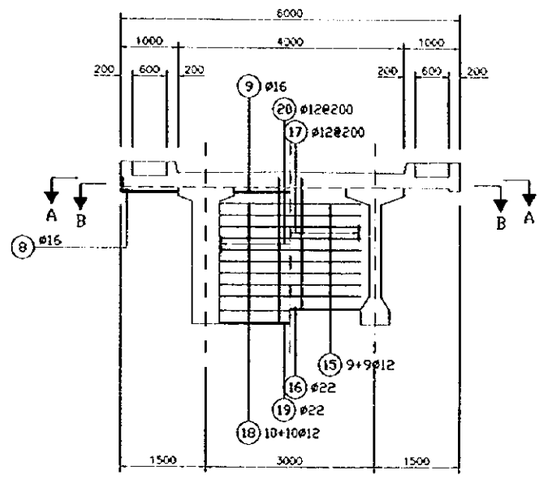
PLANTA DE LOSA
ESC.1:50



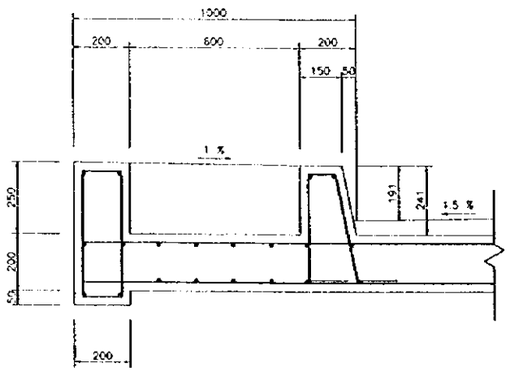
CORTE TRAVERSAL
CORTE E--E
ESC.1:50



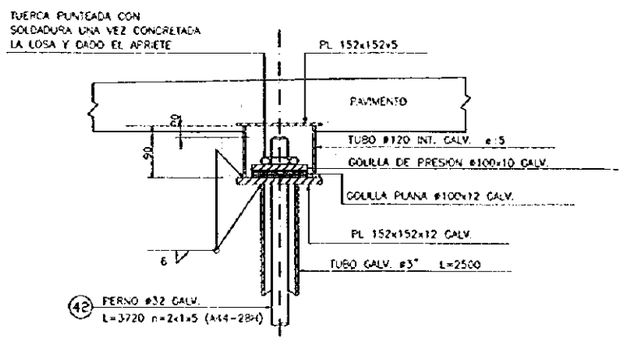
TRAVESAÑOS EXTREMOS
CORTE D--D CORTE F--F
ESC.1:50



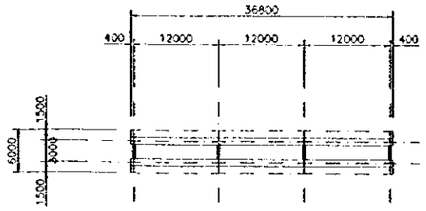
DETALLE DE PASILLO
ESC.1:10



DETALLE BARRAS ANTISISMICAS
ESC.1:5



PLANTA DE DISPOSICION



DIRECCION DE VIALIDAD
DEPARTAMENTO DE PUENTES

Puente: I-PST-L36_n2

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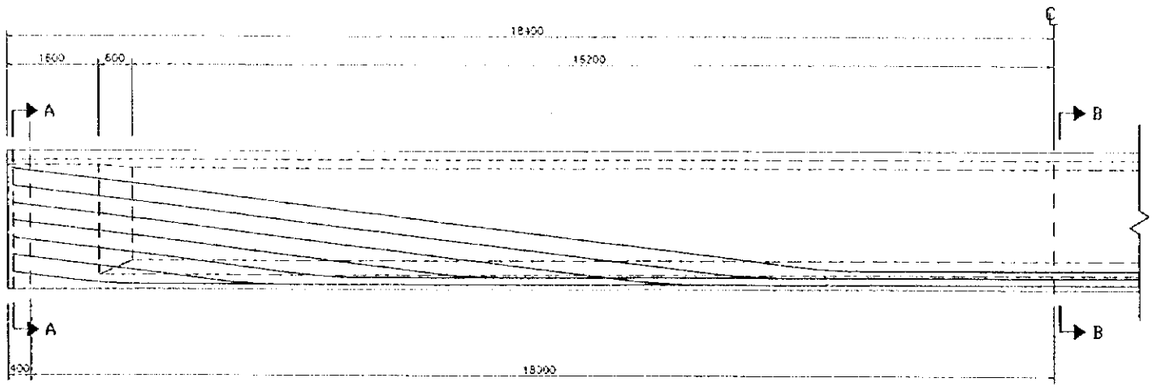
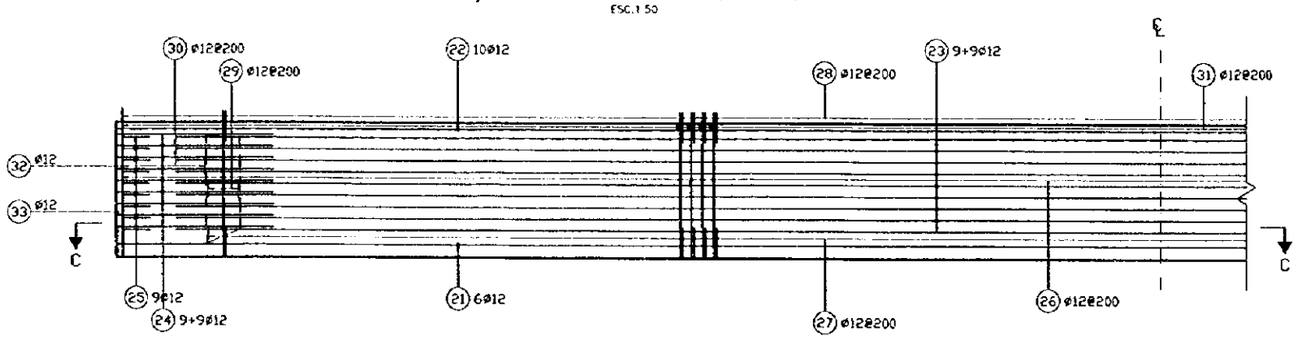
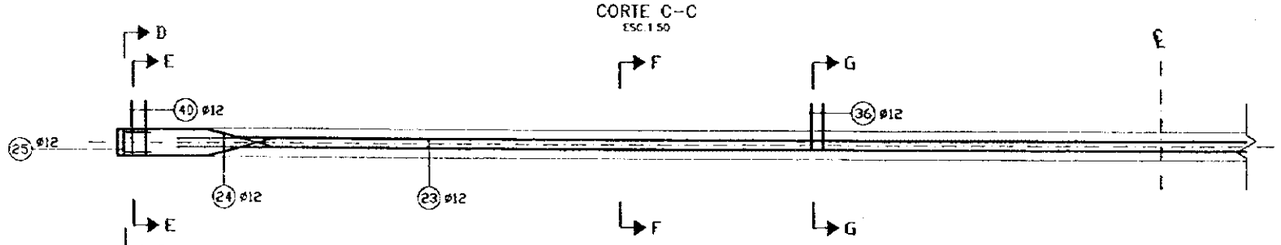
1/2 ELEVACION DE VIGA POSTENSADO
ESC 1:50



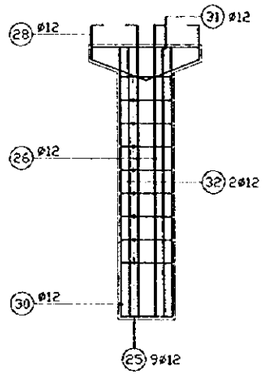
1/2 ENFIERRADURA VIGA POSTENSADO
ESC.1:50



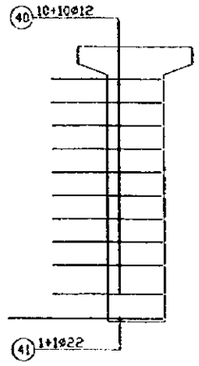
CORTE C-C
ESC 1:50



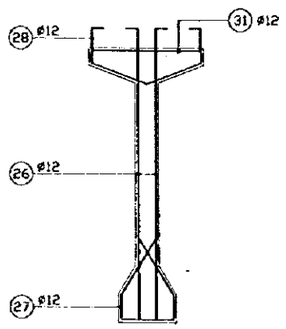
CORTE D-D
ESC.1:25



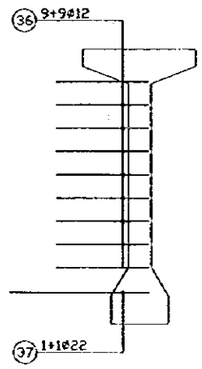
CORTE E-E
ESC.1:25

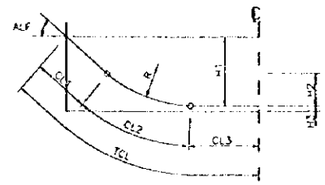


CORTE F-F
ESC.1:25



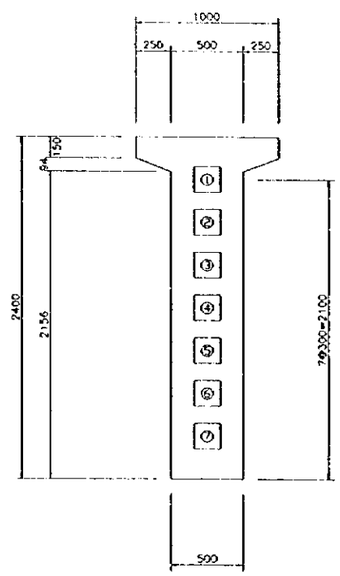
CORTE G-G
ESC.1:25



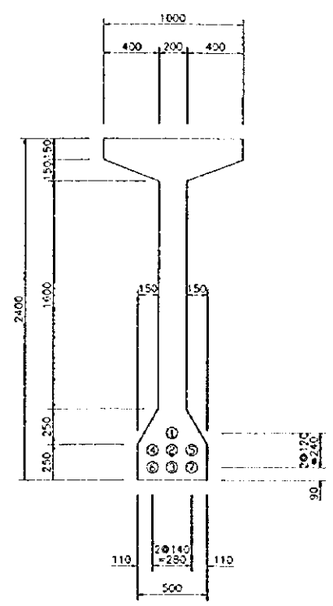


	ALF	R	H1	H2	H3	CL1	CL2	CL3	TCL
D1	7°	10	1770	75	330	13312	1222	3273	18407
D2	7°	10	1590	75	210	12435	1222	4739	18395
D3	7°	10	1410	75	90	10958	1222	6205	18385
D4	7°	10	990	75	210	7512	1222	9625	18359
D5	7°	10	690	75	210	5050	1222	12089	18341
D6	7°	10	510	75	90	3573	1222	13535	18330
D7	7°	10	210	75	90	1112	1222	15978	18311

CORTE A-A
ESC.1:20



CORTE B-B
ESC.1:20



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Dibujo
Fecha:

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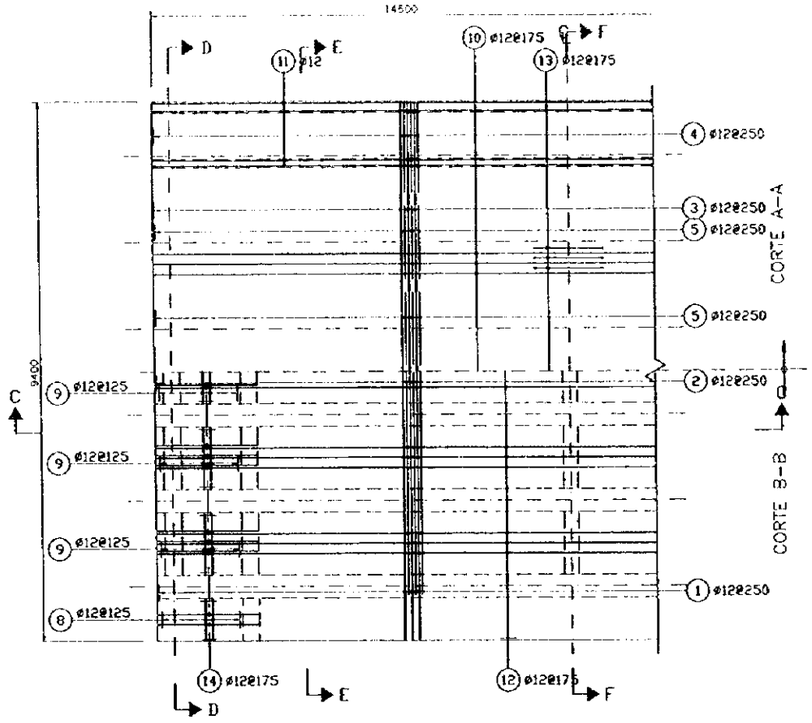
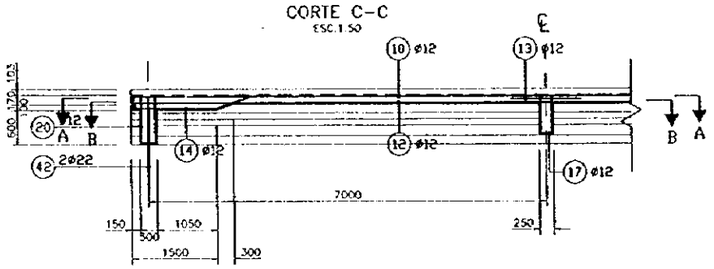
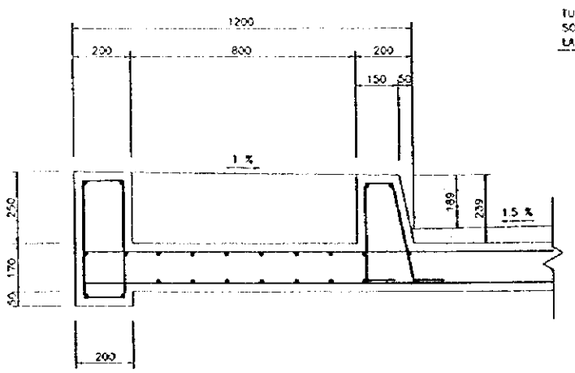
PLANTA DE LOSA
ESC 1:50



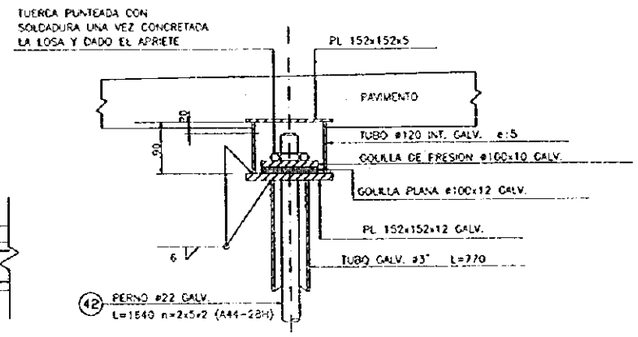
CORTE C-C
ESC.1:50



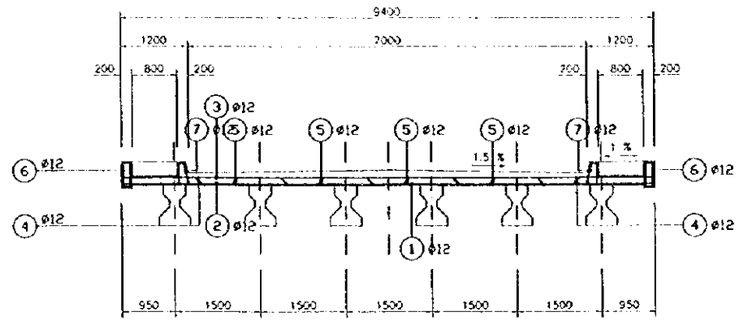
DETALLE DE PASILLO
ESC 1:10



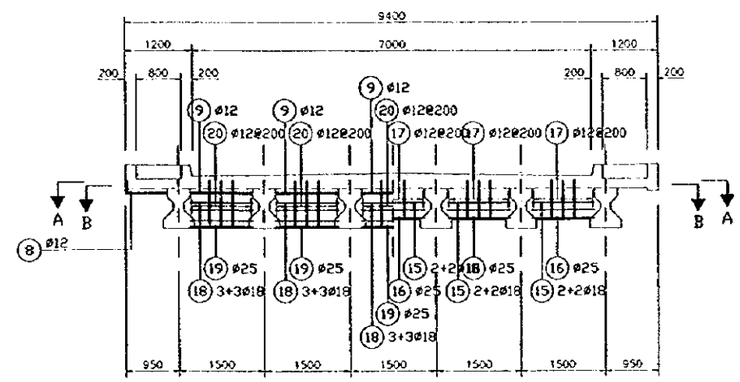
DETALLE BARRAS ANTISISMICAS
ESC 1:5



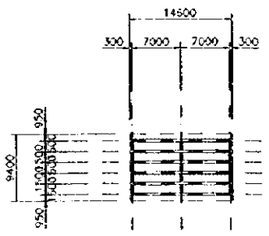
CORTE TRAVERSAL
CORTE E-E
ESC 1:50



TRAVESAÑOS EXTREMOS
CORTE D-D CORTE F-F
ESC.1:50



PLANTA DE DISPOSICION



DIRECCION DE VIALIDAD
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Dibujo — Fecha

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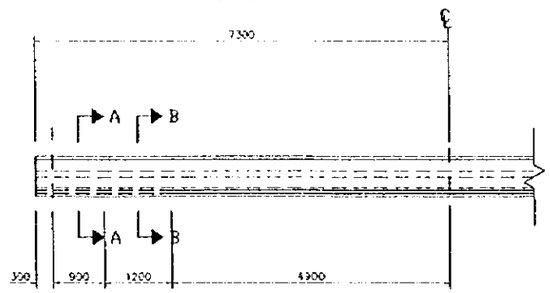
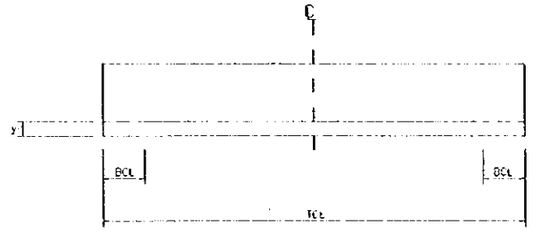
1/2 ELEVACION DE VIGA PRETENSADO
ESC 1:50

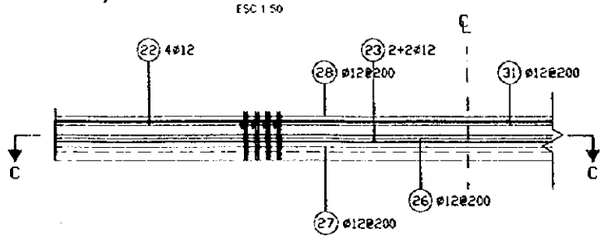




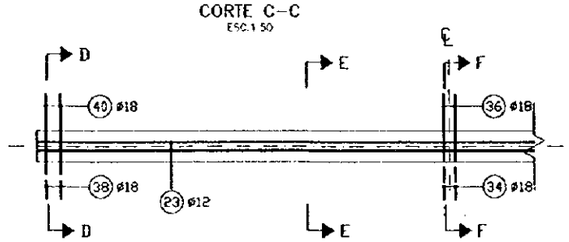
TCL = 14.6 m

No	y(cm)	NB	NBC	BCL(mm)	NBC	BCL(mm)	N	Total(mm)
1	64.5	2	0	1200	0	2400	2	0
2	11.0	2	2	1200	4	2400	8	24000
3	5.5	4	0	1200	3	2400	7	14400
Total		8	2	2400	7	16800	17	38400

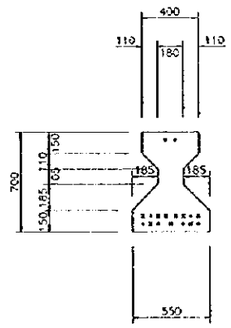
1/2 ENFIERRADURA VIGA PRETENSADO
ESC 1:50



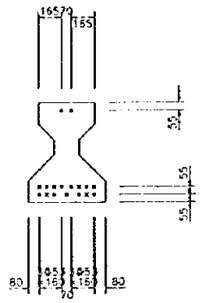
CORTE C-C
ESC.1:50



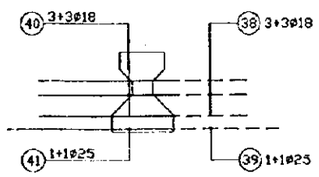
CORTE A-A
ESC.1:20



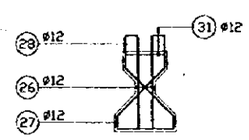
CORTE B-B
ESC.1:20



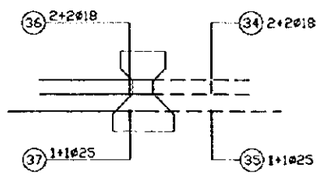
CORTE D-D
ESC.1:25



CORTE E-E
ESC.1:25



CORTE F-F
ESC.1:25



DIRECCION DE VIALIDAD
DEPARTAMENTO DE PUENTES

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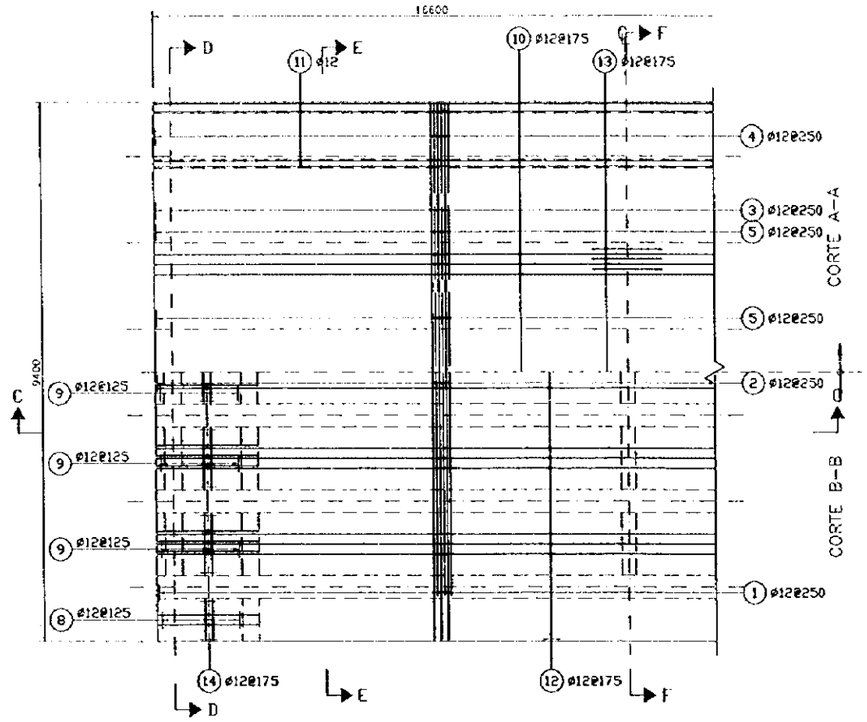
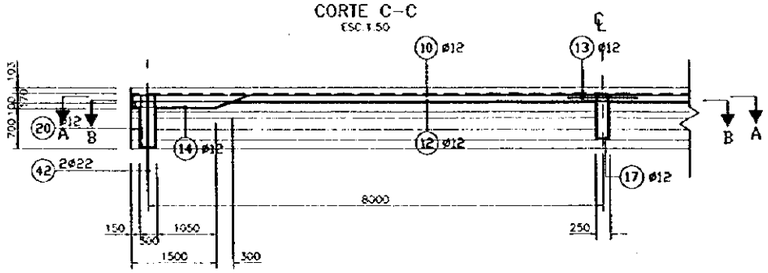
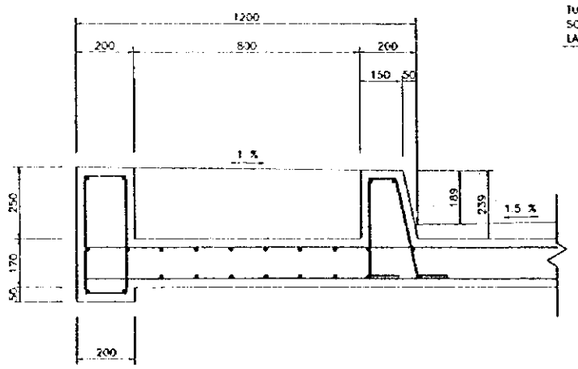
PLANTA DE LOSA
ESC 1:50



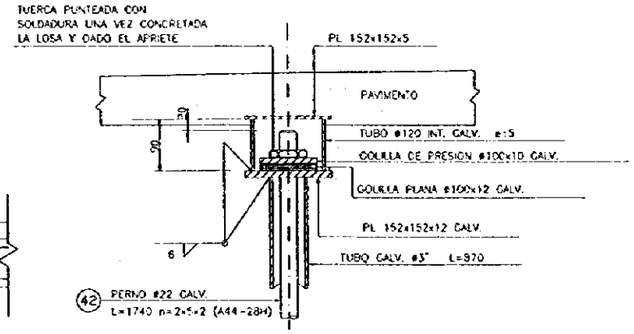
CORTE C-C
ESC 1:50



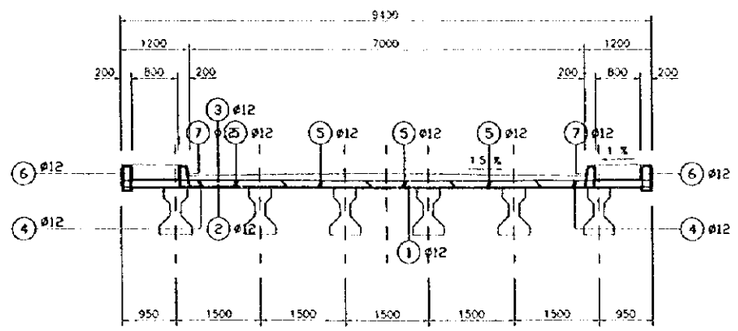
DETALLE DE PASILLO
ESC 1:10



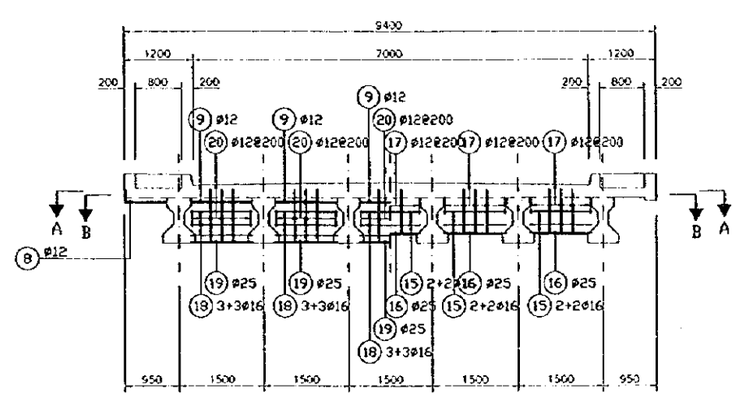
DETALLE BARRAS ANTISISMICAS
ESC 1:5



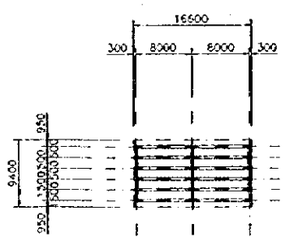
CORTE TRAVERSAL
CORTE E-E
ESC 1:50



TRAVESAÑOS EXTREMOS
CORTE D-D CORTE F-F
ESC.1:50



PLANTA DE DISPOSICION



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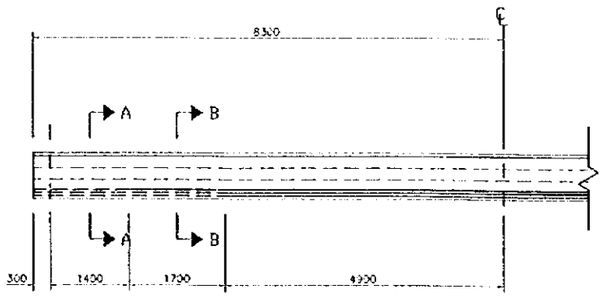
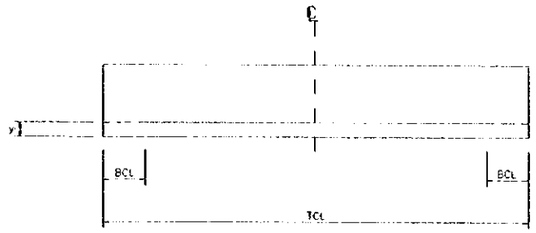
Dibujo — Fecha

1/2 ELEVACION DE VIGA PRETENSADO
ESC.1:50

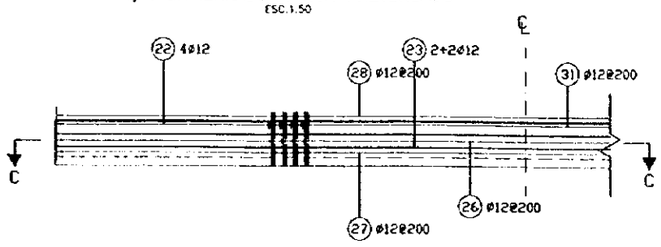




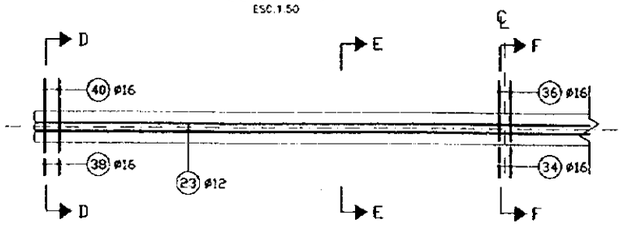
TCL = 18.6 m

No	y(cm)	NB	NBC	BCL(mm)	NBC	BCL(mm)	N	Total(mm)
1	74.5	2	0	1700	0	3400	2	0
2	18.5	0	2	1700	0	3400	2	6800
3	11.0	2	0	1700	6	3400	8	40800
4	5.5	4	1	1700	2	3400	7	17000
Total		8	3	5100	8	27200	19	64600

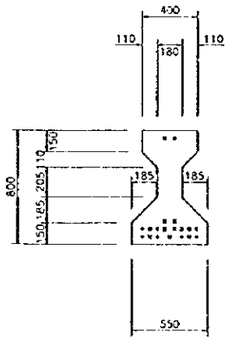
1/2 ENFIERRADURA VIGA PRETENSADO
ESC.1:50



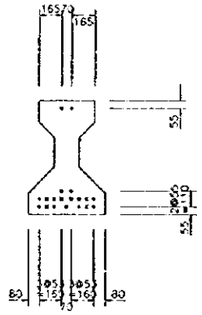
CORTE C–C
ESC.1:50



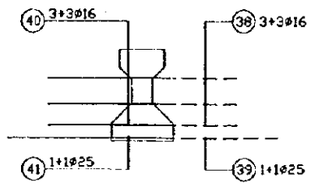
CORTE A–A
ESC.1:20



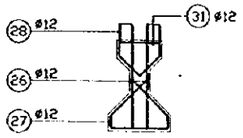
CORTE B–B
ESC.1:20



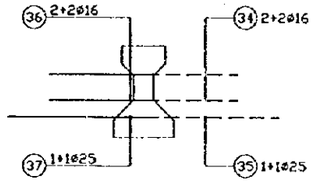
CORTE D–D
ESC.1:25



CORTE E–E
ESC.1:25



CORTE F–F
ESC.1:25



DIRECCION DE VIALIDAD
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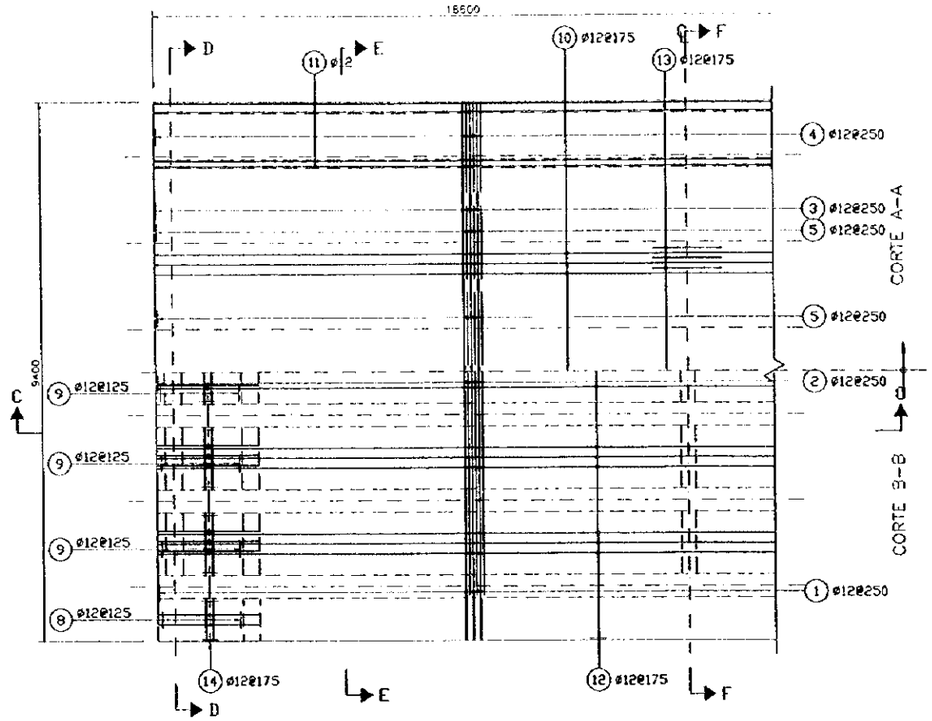
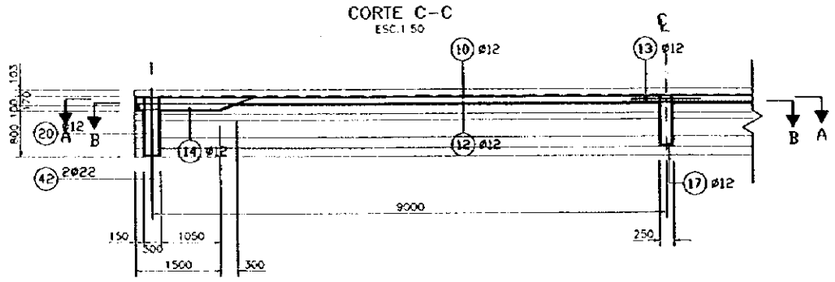
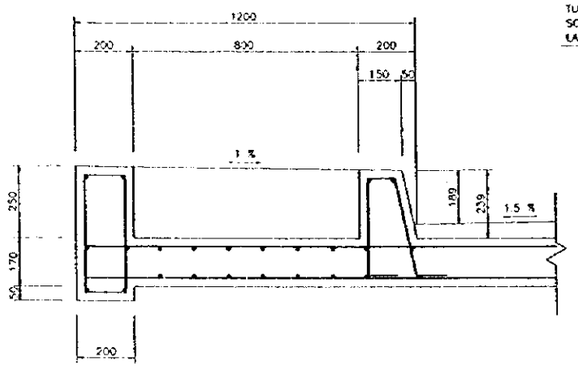
PLANTA DE LOSA
ESC. 1:50



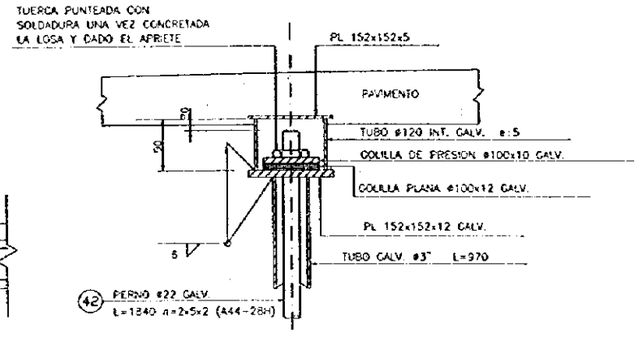
CORTE C-C
ESC. 1:50



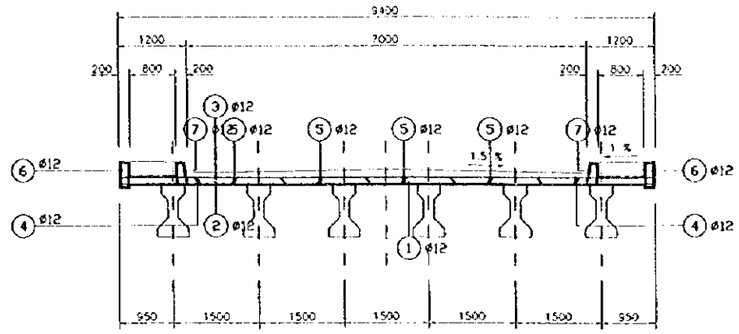
DETALLE DE PASILLO
ESC 1:10



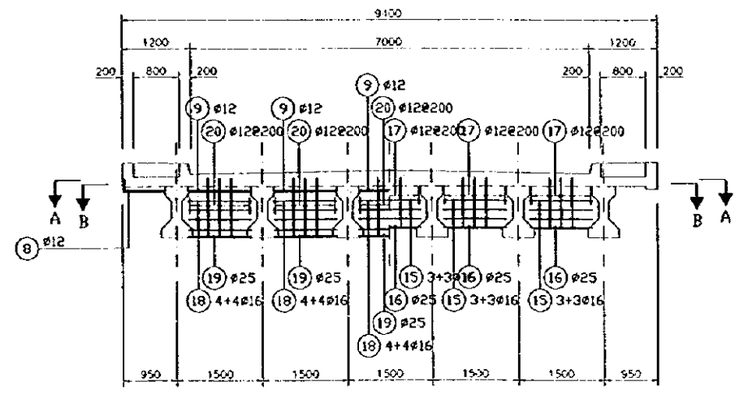
DETALLE BARRAS ANTISISMICAS
ESC 1:5



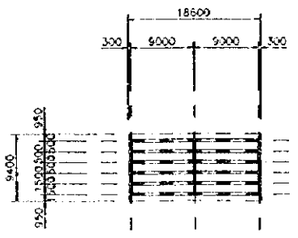
CORTE TRAVERSAL
CORTE E-E
ESC 1:50



TRAVESAÑOS EXTREMOS
CORTE D-D CORTE F-F
ESC 1:50



PLANTA DE DISPOSICION



DIRECCION DE VIALIDAD
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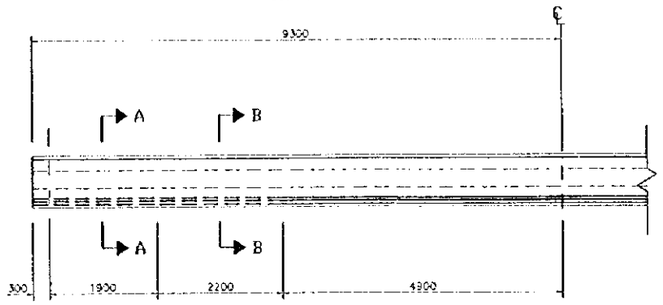
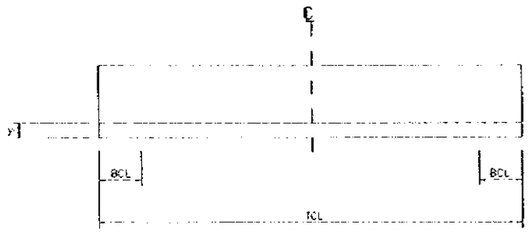
1/2 ELEVACION DE VIGA PRETENSADO
ESC.1:50

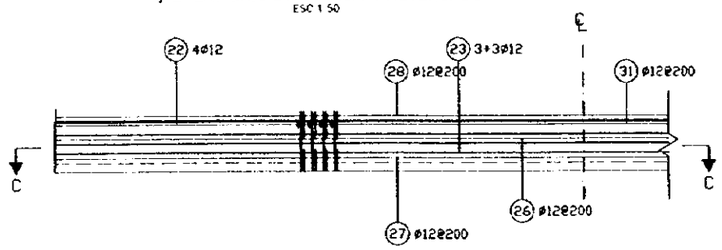




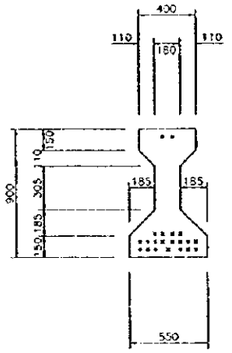
TCL = 18.6 m

No	y(cm)	NB	NBC	BCL(mm)	NBC	BCL(mm)	N	Total(mm)
1	84.5	2	0	2200	0	4400	2	0
2	18.5	0	2	2200	2	4400	4	26400
3	11.0	2	2	2200	4	4400	8	44000
4	5.5	4	0	2200	3	4400	7	26400
Total		8	4	8800	9	39600	21	96800

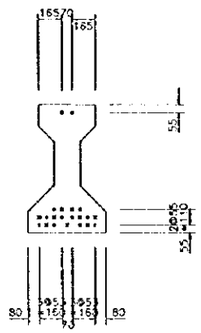
1/2 ENFIERRADURA VIGA PRETENSADO
ESC.1:50



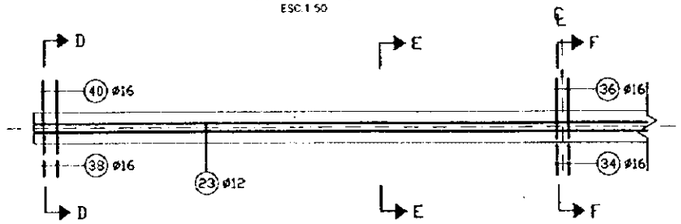
CORTE A-A
ESC.1:20



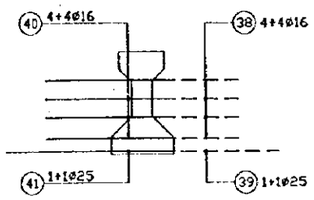
CORTE B-B
ESC.1:20



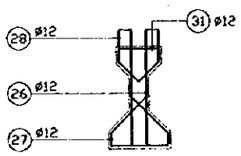
CORTE C-C
ESC.1:50



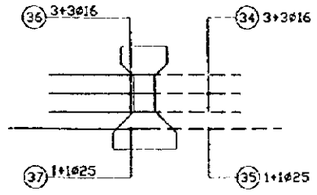
CORTE D-D
ESC.1:25



CORTE E-E
ESC.1:25



CORTE F-F
ESC.1:25



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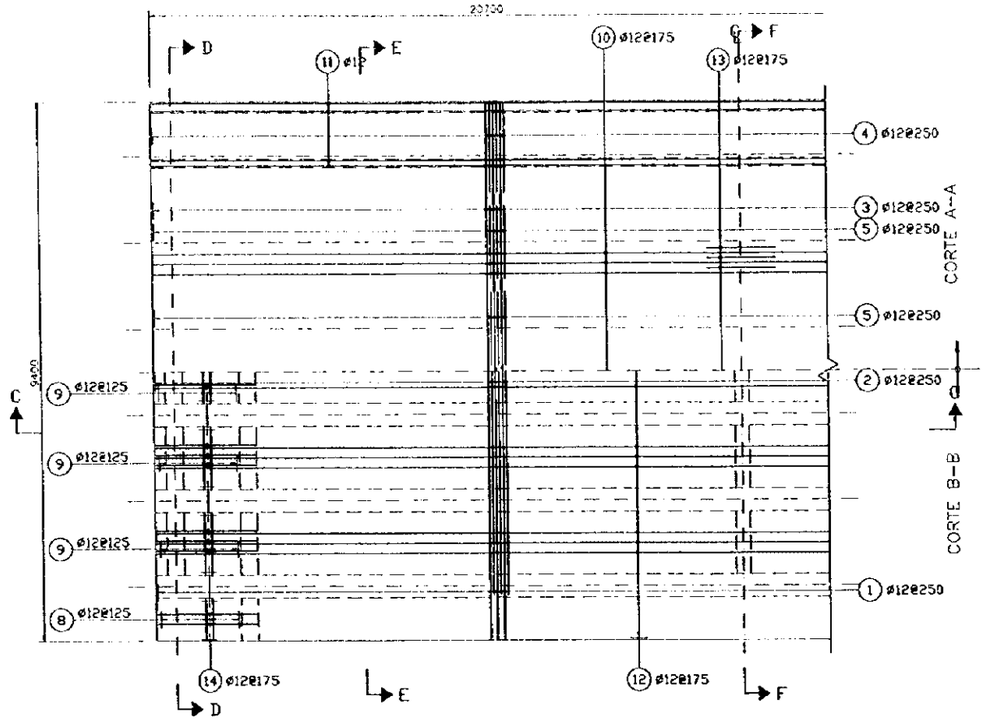
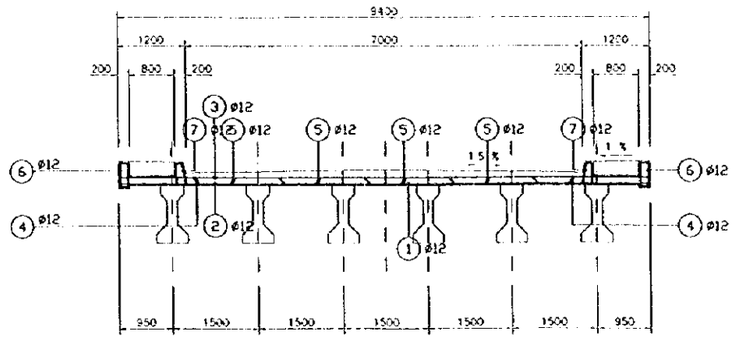
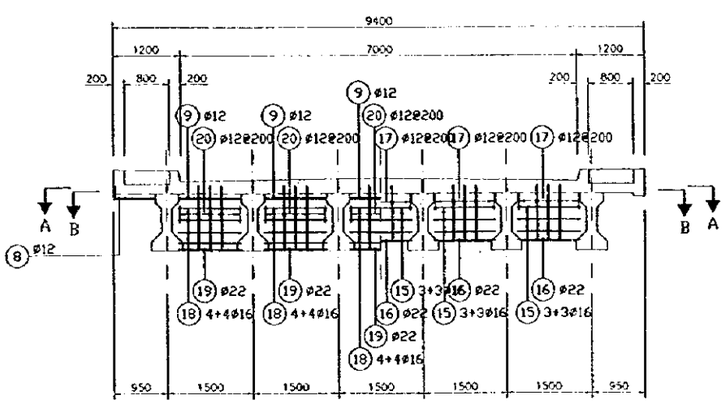
PLANTA DE LOSA
ESC 1:50



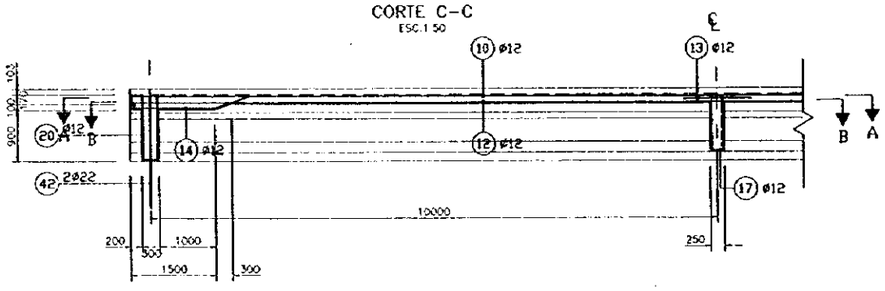
CORTE TRAVERSAL
CORTE E-E
ESC.1:50



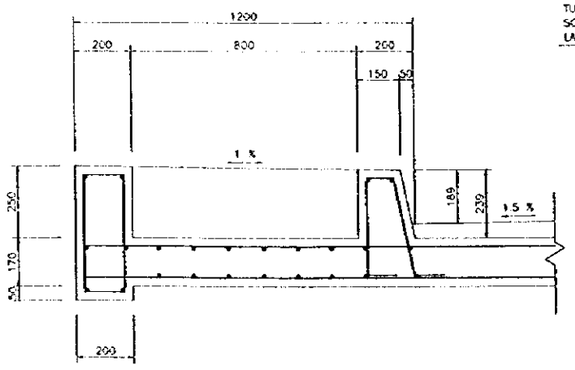
TRAVESAÑOS EXTREMOS
CORTE D-D CORTE F-F
ESC.1:50



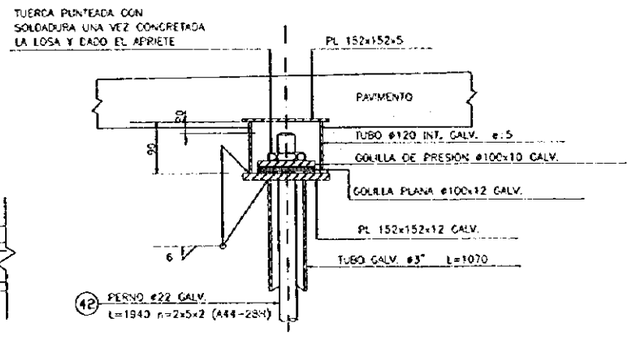
CORTE C-C
ESC.1:50



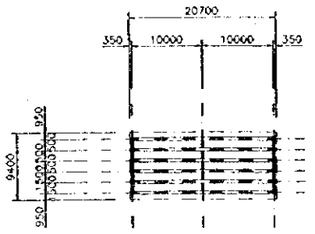
DETALLE DE PASILLO
ESC 1:10



DETALLE BARRAS ANTISISMICAS
ESC 1:5



PLANTA DE DISPOSICION



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Fecha	

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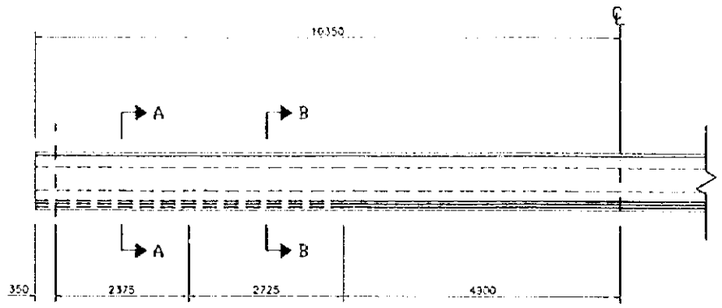
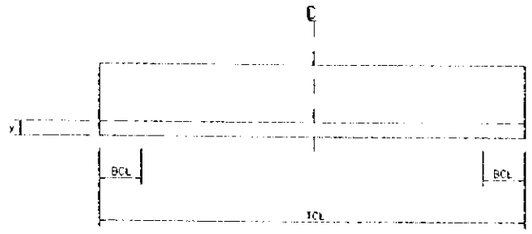
1/2 ELEVACION DE VIGA PRETENSADO
ESC 1:50

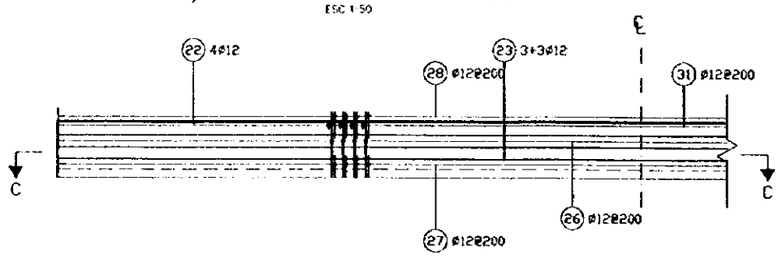




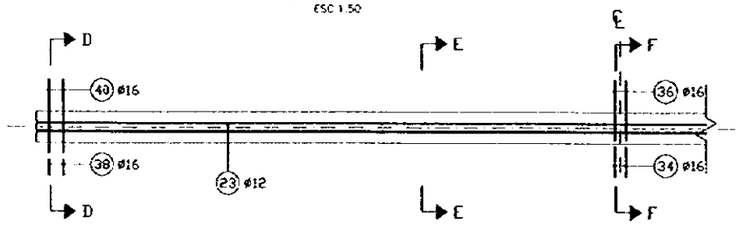
TCL = 20.7 m

No	y(cm)	NB	NBC	BCL(mm)	NBC	BCL(mm)	N	Total(mm)
1	94.5	2	0	2725	0	5450	2	0
2	18.5	2	0	2725	4	5450	6	43600
3	11.0	2	2	2725	4	5450	8	54500
4	5.5	4	1	2725	2	5450	7	27250
Total		10	3	8175	10	54500	23	125350

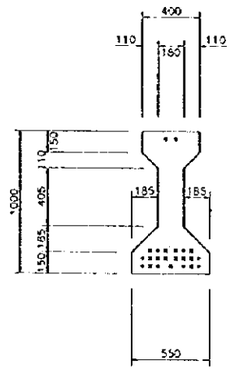
1/2 ENFIERRADURA VIGA PRETENSADO
ESC 1:50



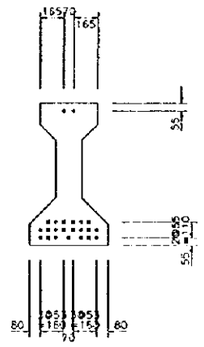
CORTE C–C
ESC 1:50



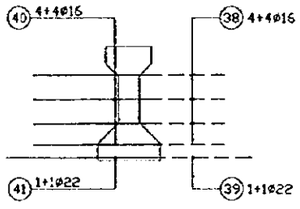
CORTE A–A
ESC 1:20



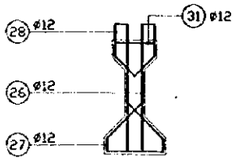
CORTE B–B
ESC 1:20



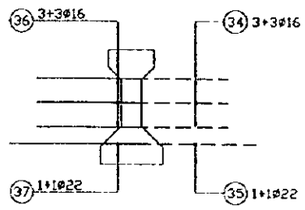
CORTE D–D
ESC 1:25



CORTE E–E
ESC 1:25



CORTE F–F
ESC 1:25



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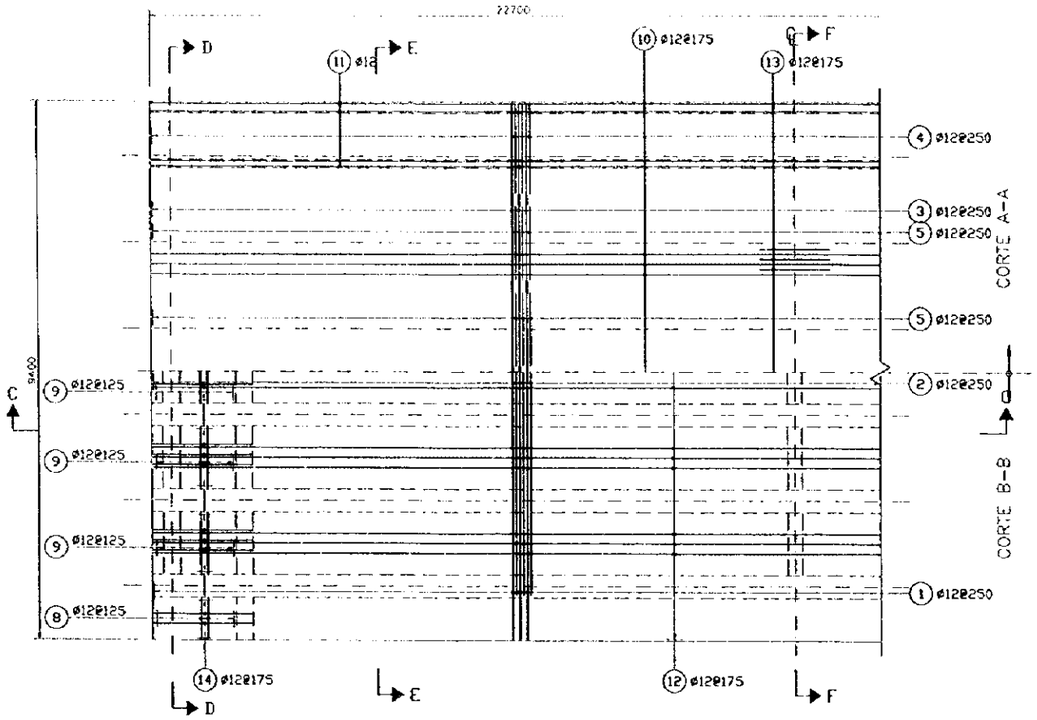
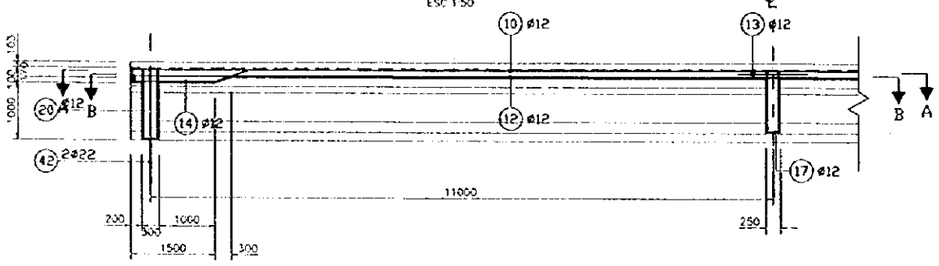
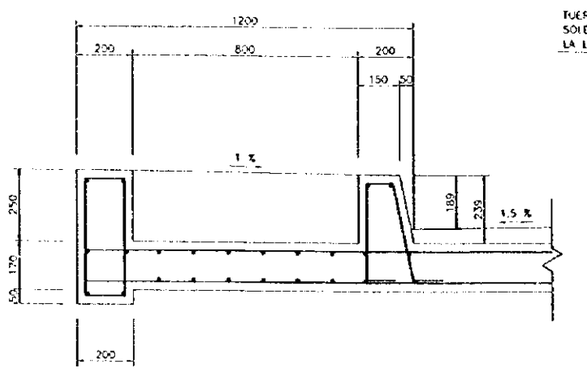
PLANTA DE LOSA
ESC 1:50



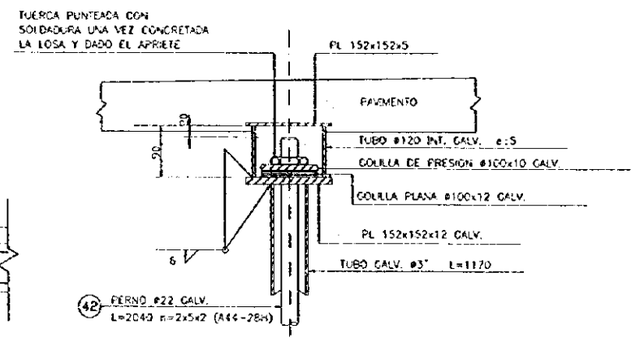
CORTE C-C
ESC 1:50



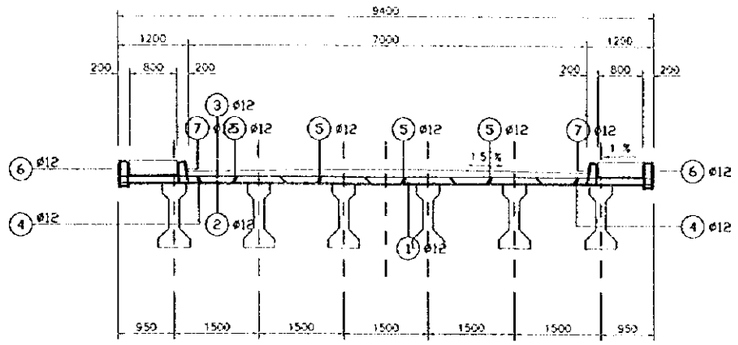
DETALLE DE PASILLO
ESC 1:10



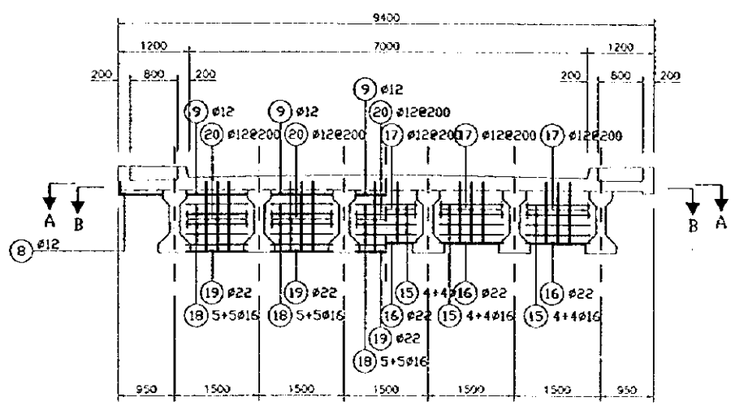
DETALLE BARRAS ANTISISMICAS
ESC 1:5



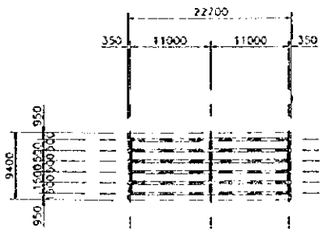
CORTE TRAVERSAL
CORTE E-E
ESC 1:50



TRAVESAÑOS EXTREMOS
CORTE D-D
CORTE F-F
ESC 1:50



PLANTA DE DISPOSICION



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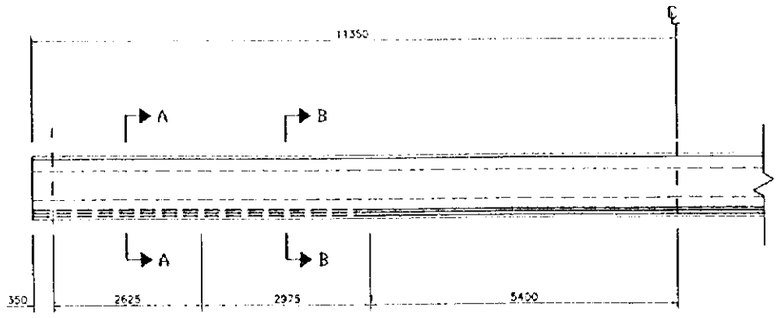
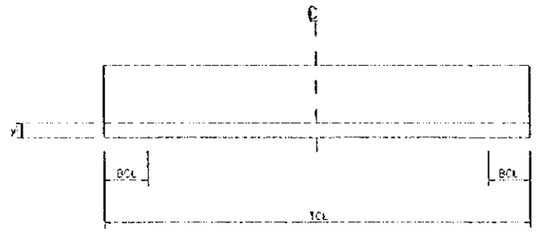
1/2 ELEVACION DE VIGA PRETENSADO
ESC 1:50

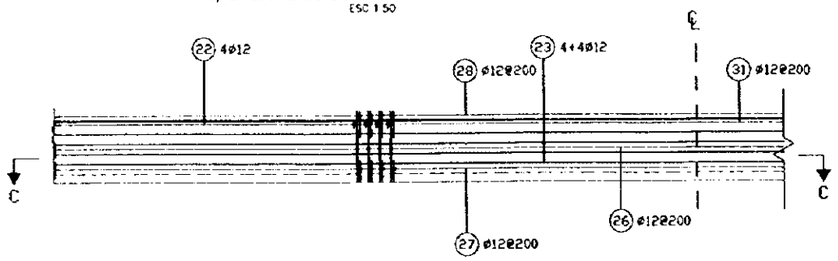




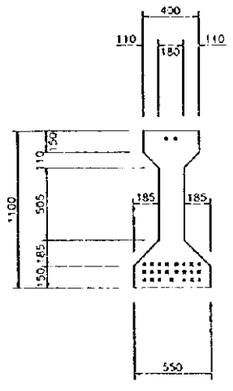
TCL = 22.7 m

No	y(cm)	NB	NBC	BCL(mm)	NBC	BCL(mm)	N	Total(mm)
1	104.5	2	0	2975	6	5950	2	0
2	18.5	4	0	2975	4	5950	8	47600
3	11.0	2	2	2975	4	5950	8	56500
4	5.5	4	0	2975	3	5850	7	35700
Total		12	2	5950	11	65450	25	142800

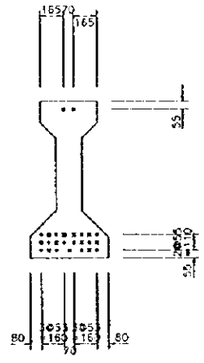
1/2 ENFIERRADURA VIGA PRETENSADO
ESC 1:50



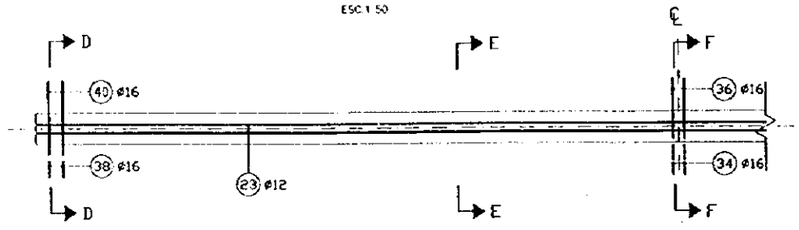
CORTE A–A
ESC.1:20



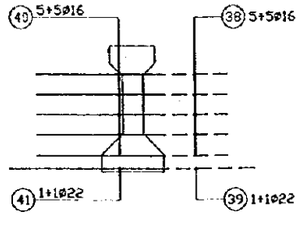
CORTE B–B
ESC 1:20



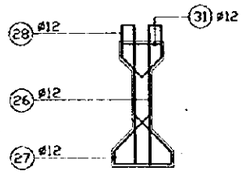
CORTE C–C
ESC.1:50



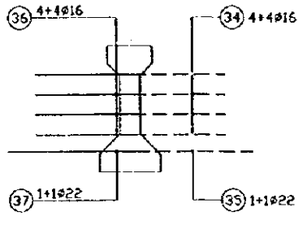
CORTE D–D
ESC.1:25



CORTE E–E
ESC.1:25



CORTE F–F
ESC.1:25



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Provincia: | Region:

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Vo Bo Ing. Jefe Depto. Puentes | Director de Vialidad

Dibujo | Fecha

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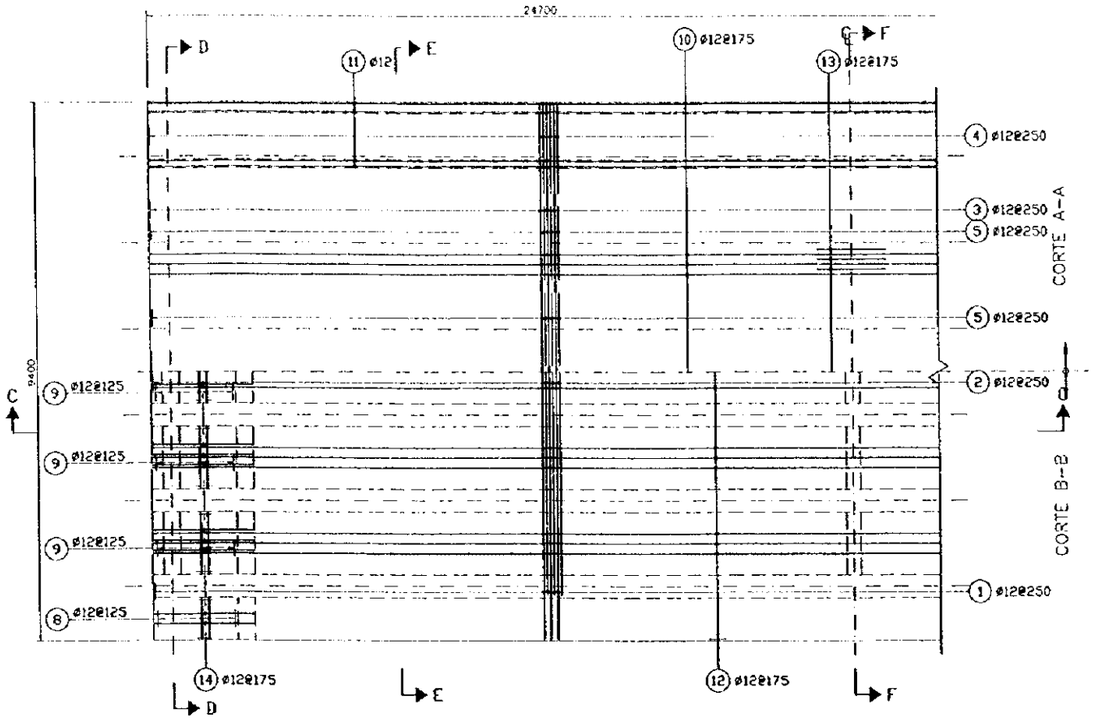
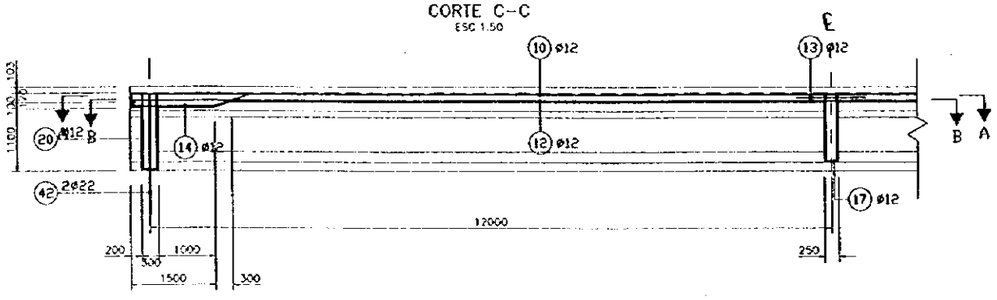
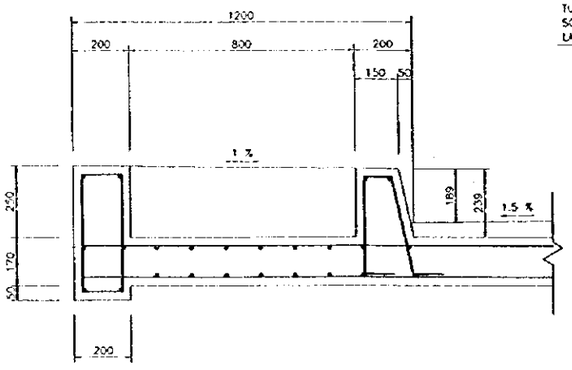
PLANTA DE LOSA
ESC 1:50



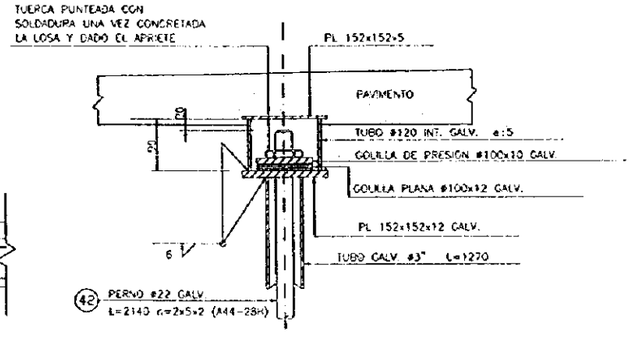
CORTE C-C
ESC 1:50



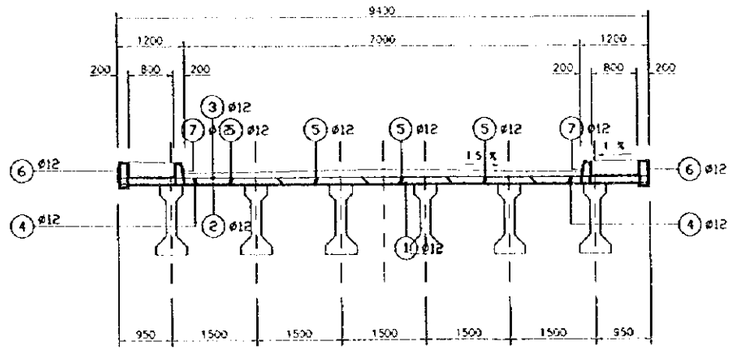
DETALLE DE PASILLO
ESC 1:10



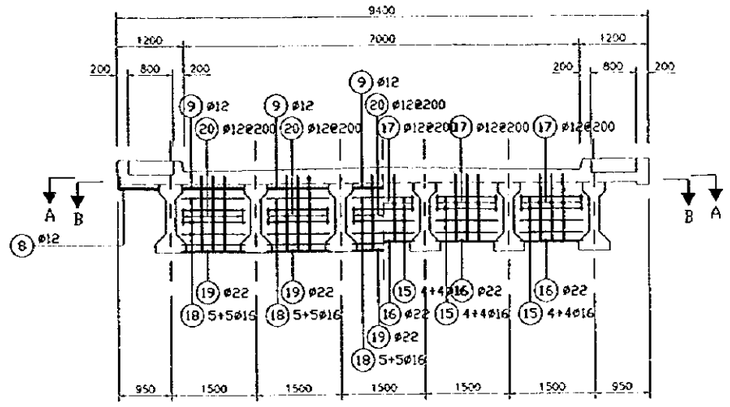
DETALLE BARRAS ANTISISMICAS
ESC 1:5



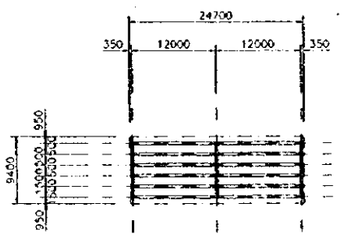
CORTE TRAVERSAL
CORTE E--E
ESC 1:50



TRAVESAÑOS EXTREMOS
CORTE D-D CORTE F-F
ESC 1:50



PLANTA DE DISPOSICION



DIRECCION DE VIALIDAD
DEPARTAMENTO DE PUENTES

Puente: 2-PRE-L24_n6	
Camino:	
Provincia:	Region:
Proyecto	Revisa
Vo Bo Jefe Depto Puentes	Director de Vialidad
Dibujo: Fecha:	

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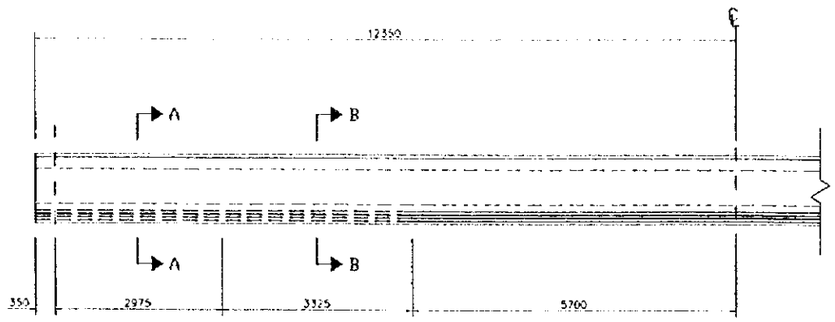
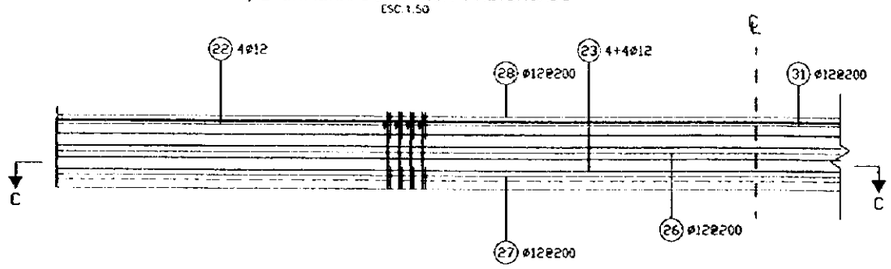
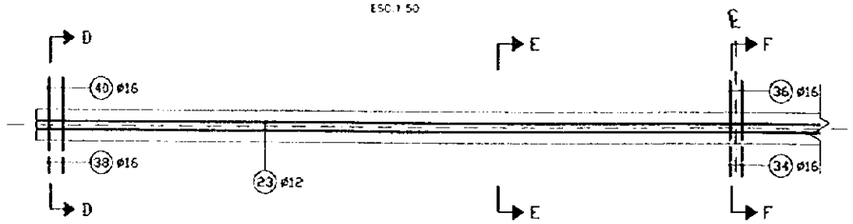
1/2 ELEVACION DE VIGA PRETENSADO
ESC 1:50

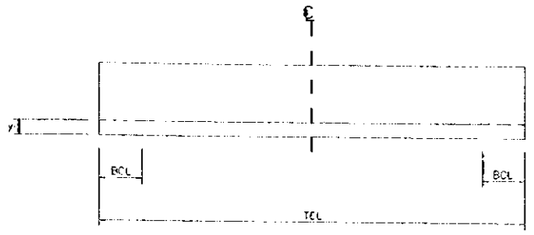


1/2 ENFIERRADURA VIGA PRETENSADO
ESC 1:50



CORTE C–C
ESC 1:50

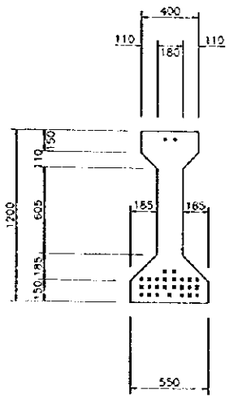




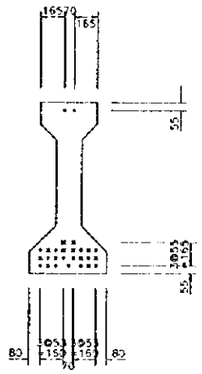
TCL = 24.7 m

No	y(cm)	NB	NBC	BCL(mm)	NBC	BCL(mm)	N	Total(mm)
1	114.5	2	0	3325	0	6650	2	0
2	22.0	0	0	3325	2	6650	2	26600
3	16.5	4	0	3325	4	6650	8	53200
4	11.0	2	2	3325	4	6650	8	66500
5	5.5	4	1	3325	2	6650	7	33250
Total		12	3	9975	12	79800	27	179550

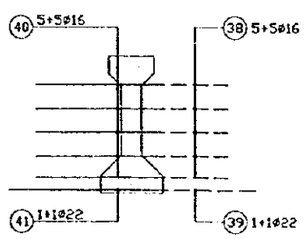
CORTE A–A
ESC 1:20



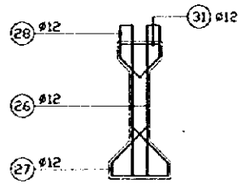
CORTE B–B
ESC 1:20



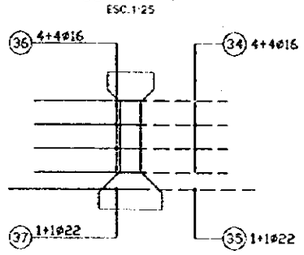
CORTE D–D
ESC 1:25



CORTE E–E
ESC 1:25



CORTE F–F
ESC 1:25



DIRECCION DE VIALIDAD
DEPARTAMENTO DE PUENTES

Puente: 2-PRE-L24_n6

Camino:

Provincia: | Region:

Proyecto | Revisó

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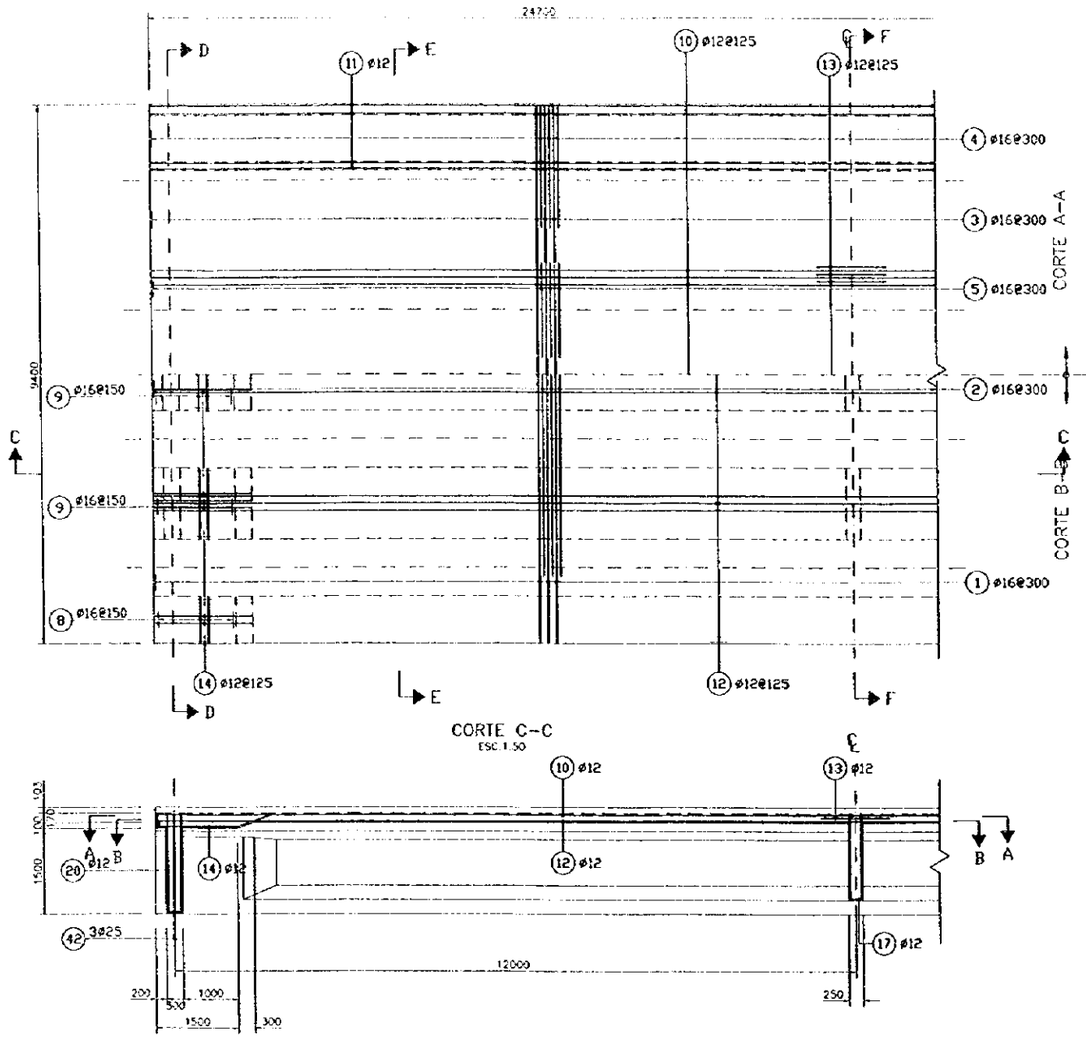
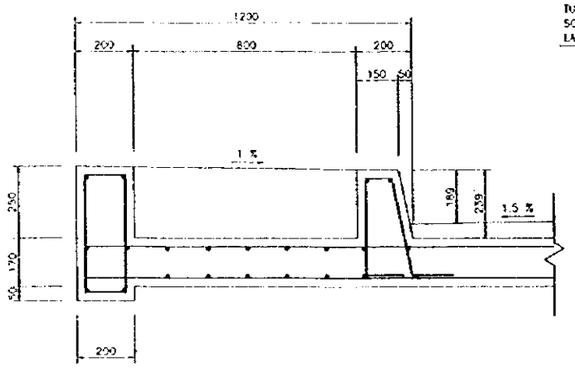
Dibujó | Fecha

PLANTA DE LOSA
ESC 1:50

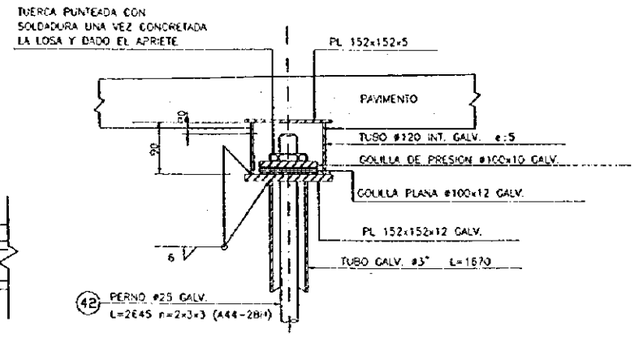


CORTE C-C
ESC 1:50

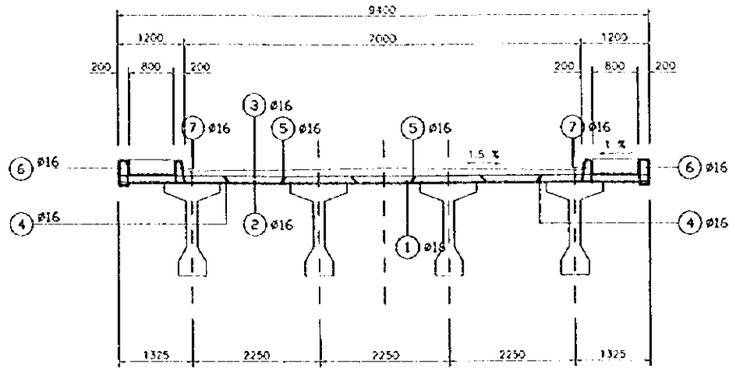
DETALLE DE PASILLO
ESC 1:10



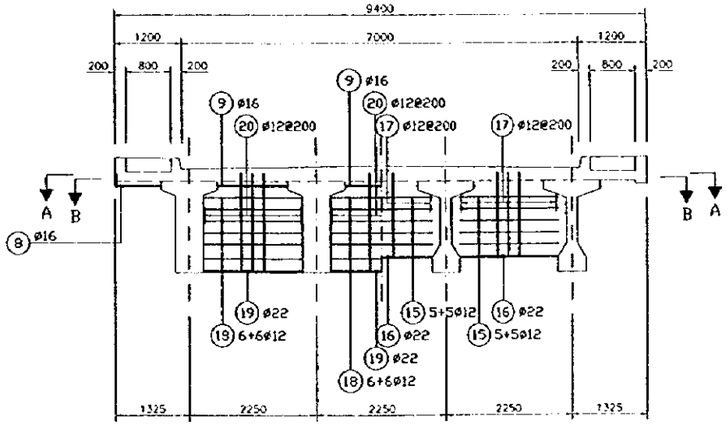
DETALLE BARRAS ANTISISMICAS
ESC 1:5



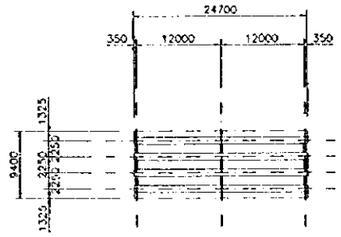
CORTE TRAVERSAL
CORTE E-E
ESC 1:50



TRAVESAÑOS EXTREMOS
CORTE D-D CORTE F-F
ESC 1:50



PLANTA DE DISPOSICION



DIRECCION DE VIALIDAD
DEPARTAMENTO DE PUENTES

Puente: 2-PST-L24_n4	
Camino:	
Provincia:	Region:
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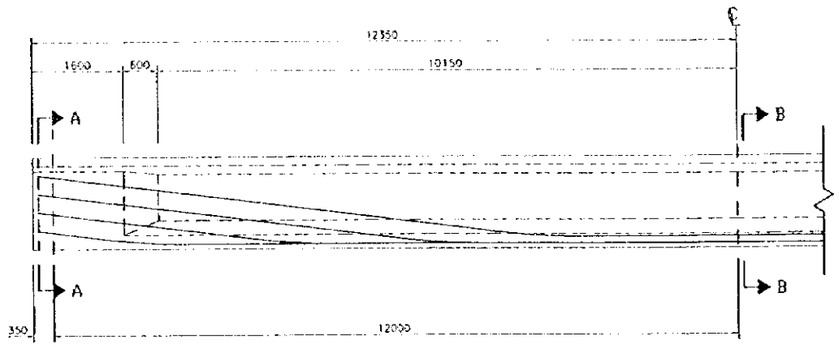
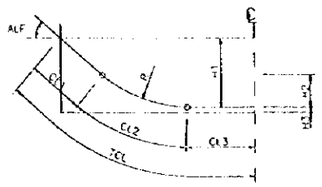
Vo Bo Ing. Jefe Depto. Puentes	Director de Vialidad
Dibujo	
Fecha	

1/2 ELEVACION DE VIGA POSTENSADO
ESC. 1:50





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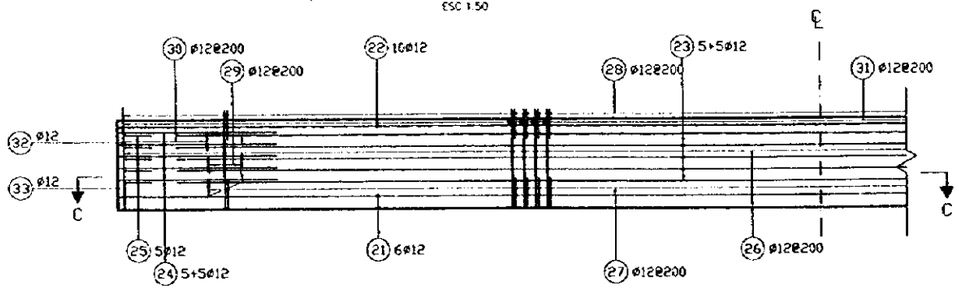
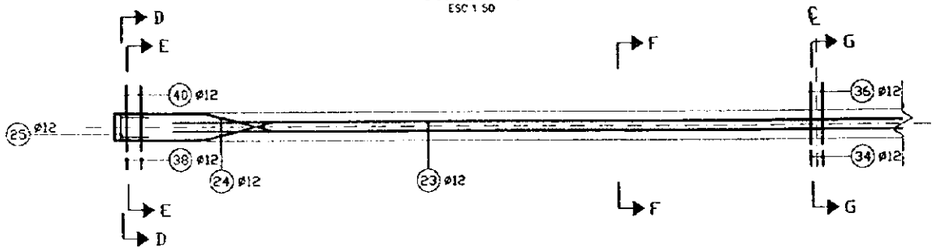
D1	7°	10	1070	75	210	8168	1222	2924	12314
D2	7°	10	870	75	90	6527	1222	4553	12302
D3	7°	10	550	75	90	3901	1222	7159	12282
D4	7°	10	230	75	90	1276	1222	9765	12263

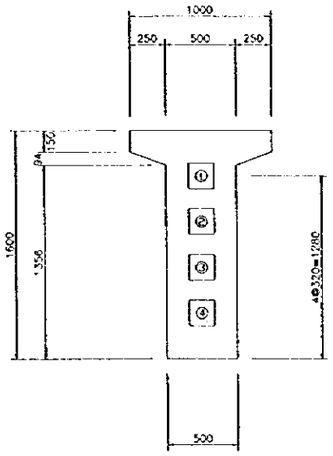
1/2 ENFIERRADURA VIGA POSTENSADO
ESC. 1:50



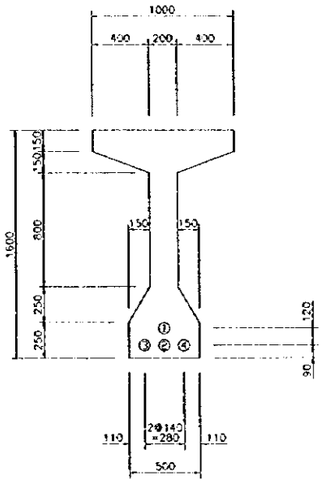
CORTE C–C
ESC. 1:50



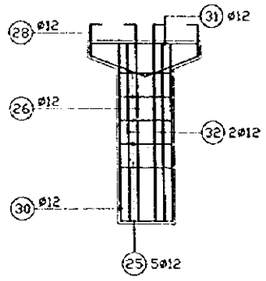
CORTE A–A
ESC. 1:20



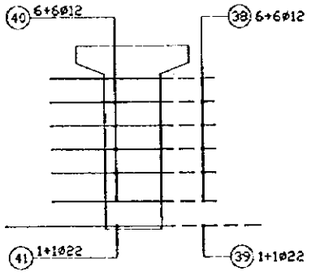
CORTE B–B
ESC. 1:20



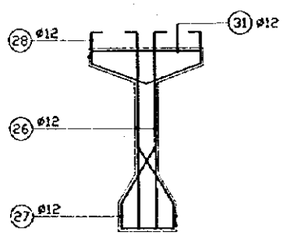
CORTE D–D
ESC. 1:25



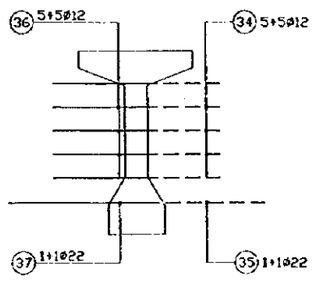
CORTE E–E
ESC. 1:25



CORTE F–F
ESC. 1:25



CORTE G–G
ESC. 1:25



DIRECCION DE VIALIDAD
DEPARTAMENTO DE PUENTES

Puente: 2-PST-L24_n4	
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Provincia:	Region:

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Vo Bo Ing Jefe Depto Puentes — Director de Vialidad

Dibujo
Fecha

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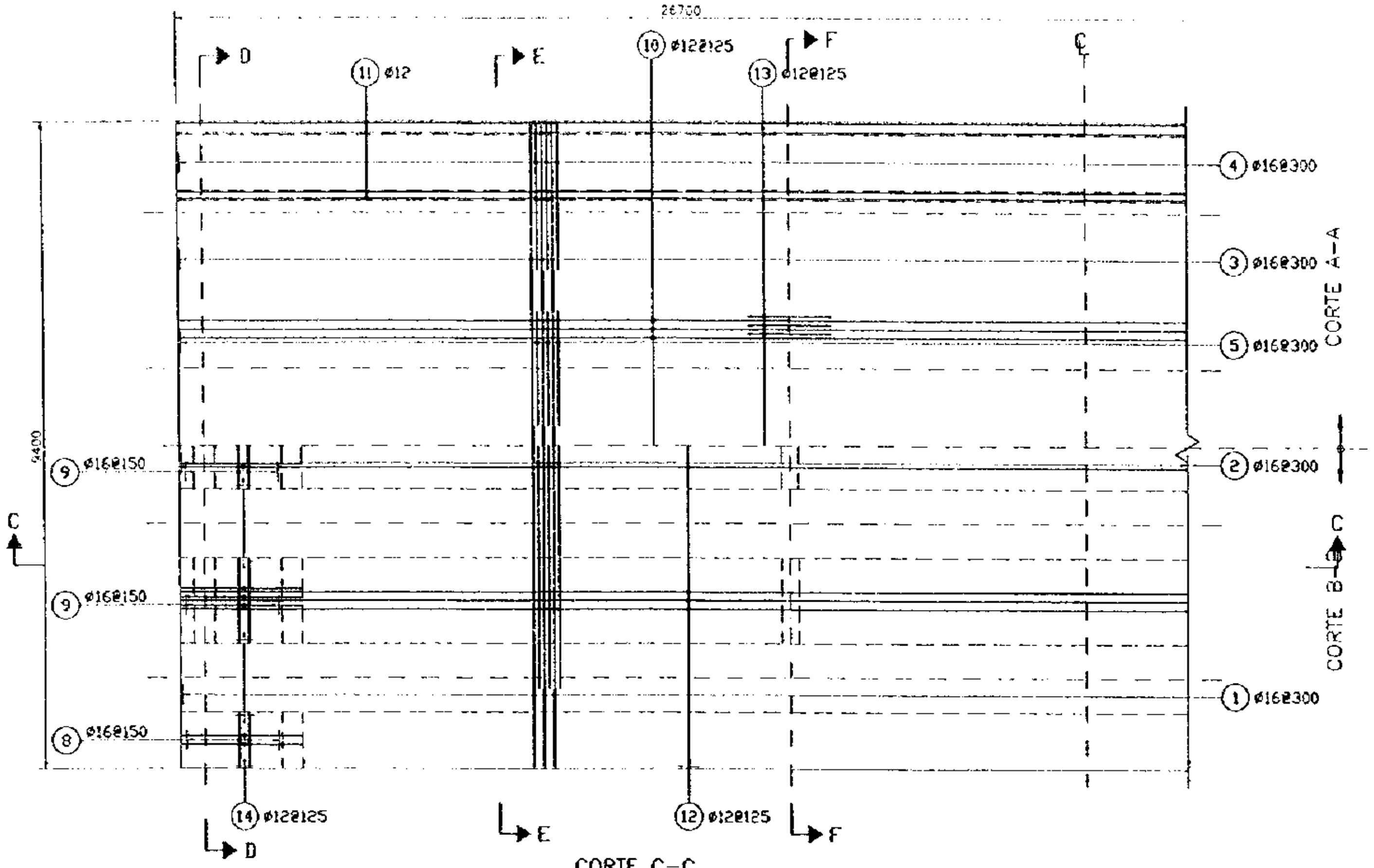
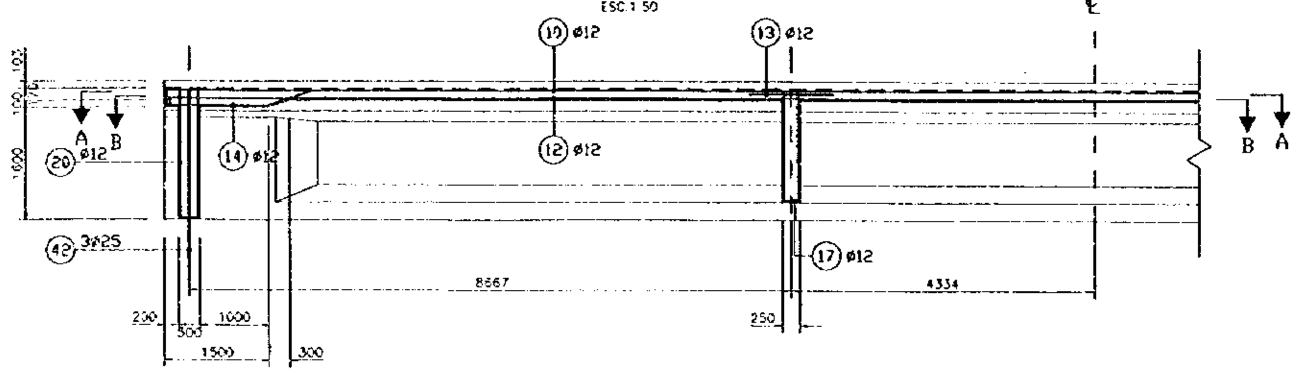
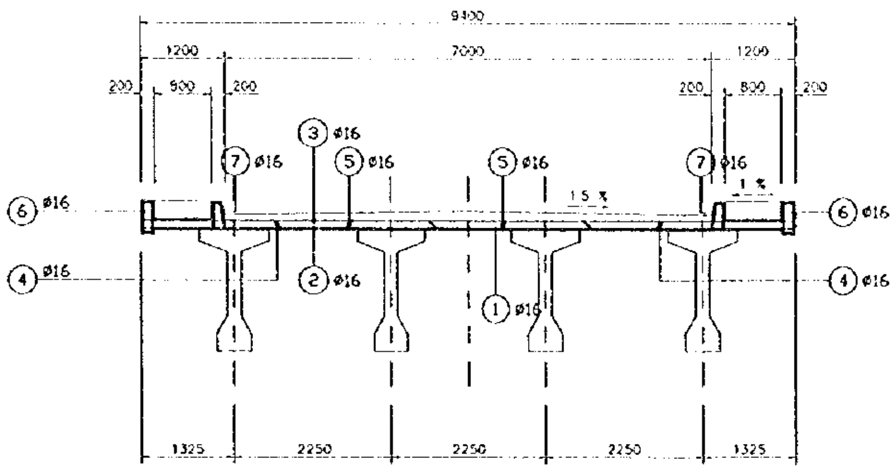
PLANTA DE LOSA
ESC 1:50



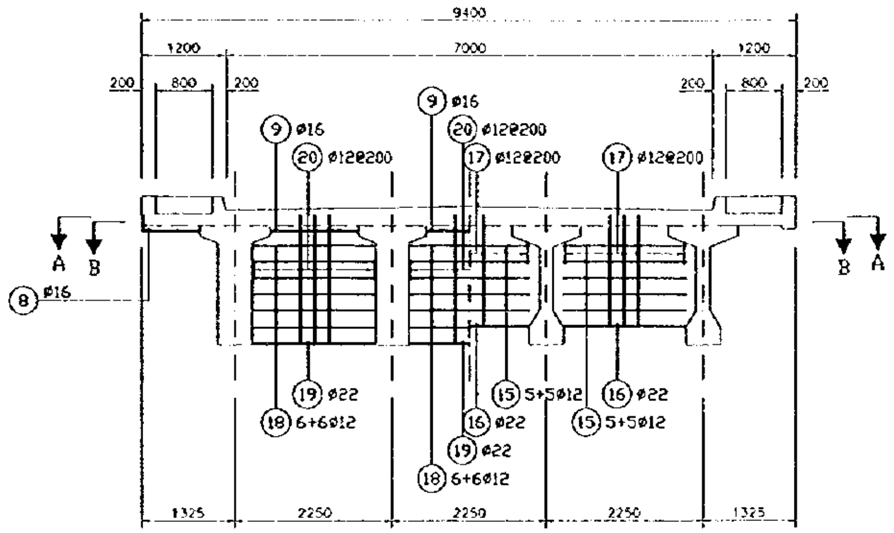
CORTE C–C
ESC 1:50



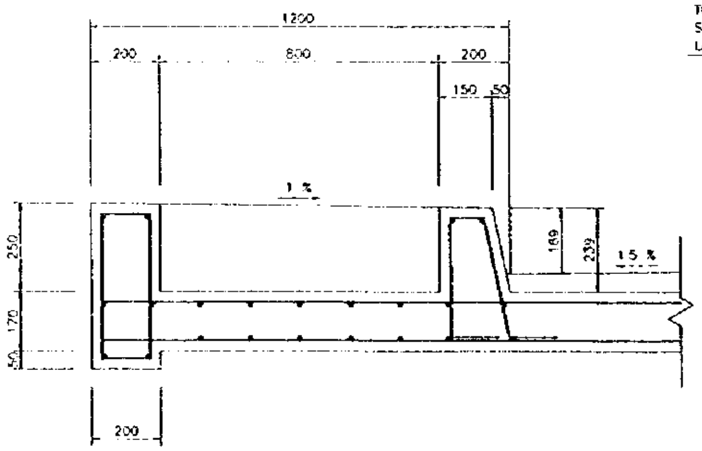
CORTE TRAVERSAL
CORTE E–E
ESC 1:50



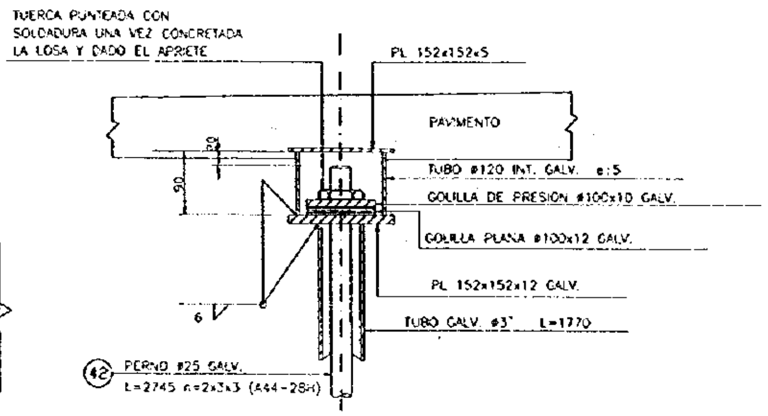
TRAVESAÑOS EXTREMOS
CORTE D–D
ESC 1:50
CORTE F–F



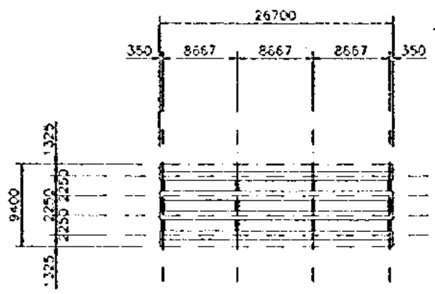
DETALLE DE PASILLO
ESC 1:10



DETALLE BARRAS ANTISISMICAS
ESC 1:5



PLANTA DE DISPOSICION



DIRECCION DE VIALIDAD
DEPARTAMENTO DE PUENTES

Puente: 2-PST-L26_n4
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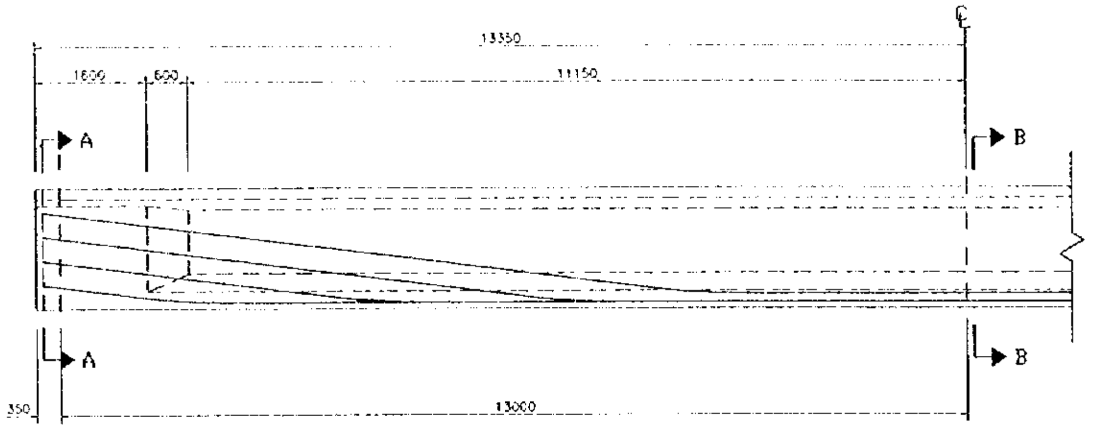
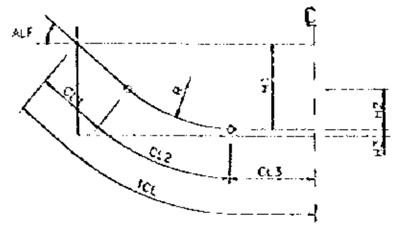
Vo Bo Ing. Jefe Depto. Puentes | Director de Vialidad

Dibujo:
Fecha:

1/2 ELEVACION DE VIGA POSTENSADO
ESC.1:50





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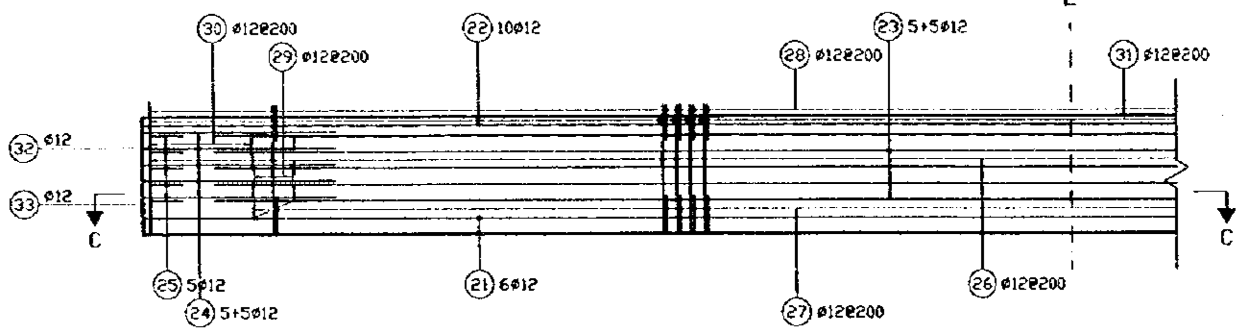
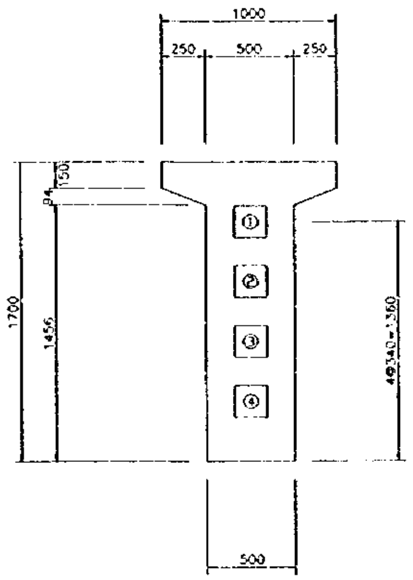
D1	7	10	1150	75	210	8825	1222	3272	13319
D2	7	10	930	75	90	7019	1222	5064	13305
D3	7	10	590	75	90	4230	1222	7833	13285
D4	7	10	250	75	90	1440	1222	10602	13254

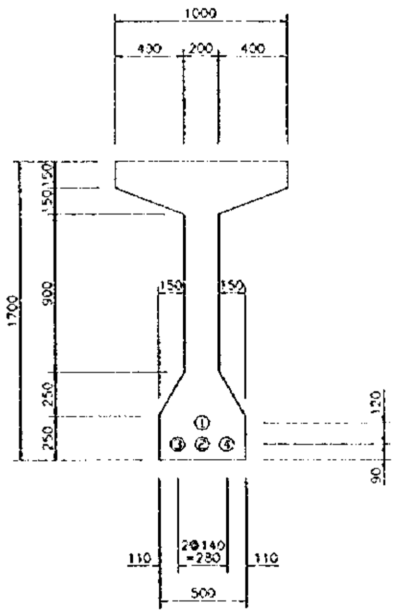
1/2 ENFIERRADURA VIGA POSTENSADO
ESC.1:50



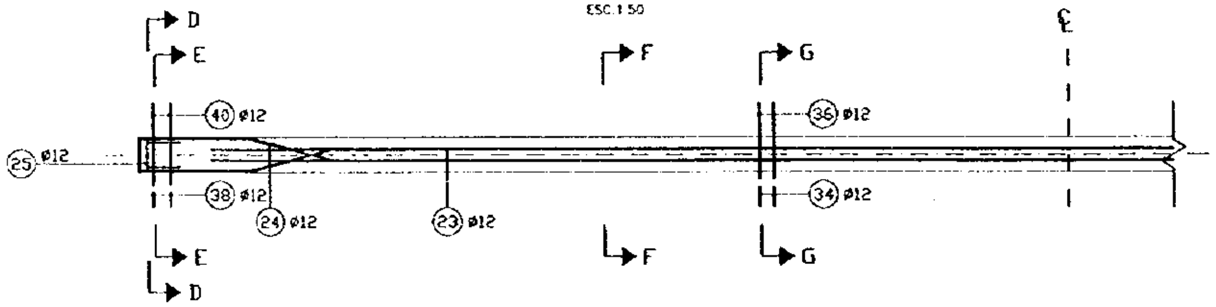
CORTE A-A
ESC.1:20



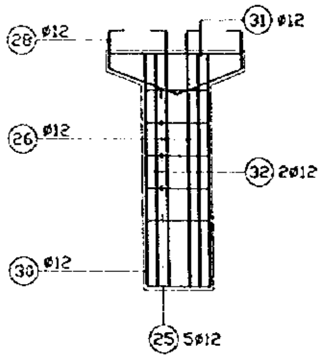
CORTE B-B
ESC.1:20



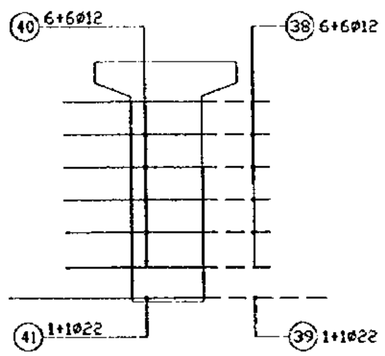
CORTE C-C
ESC.1:50



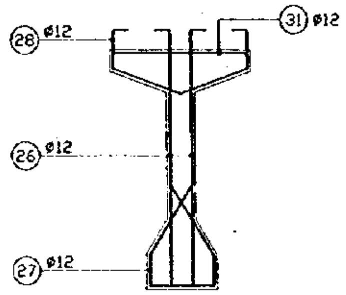
CORTE D-D
ESC.1:25



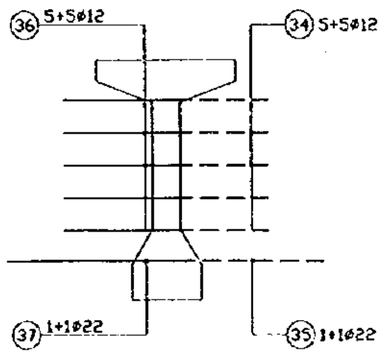
CORTE E-E
ESC.1:25



CORTE F-F
ESC.1:25



CORTE G-G
ESC.1:25

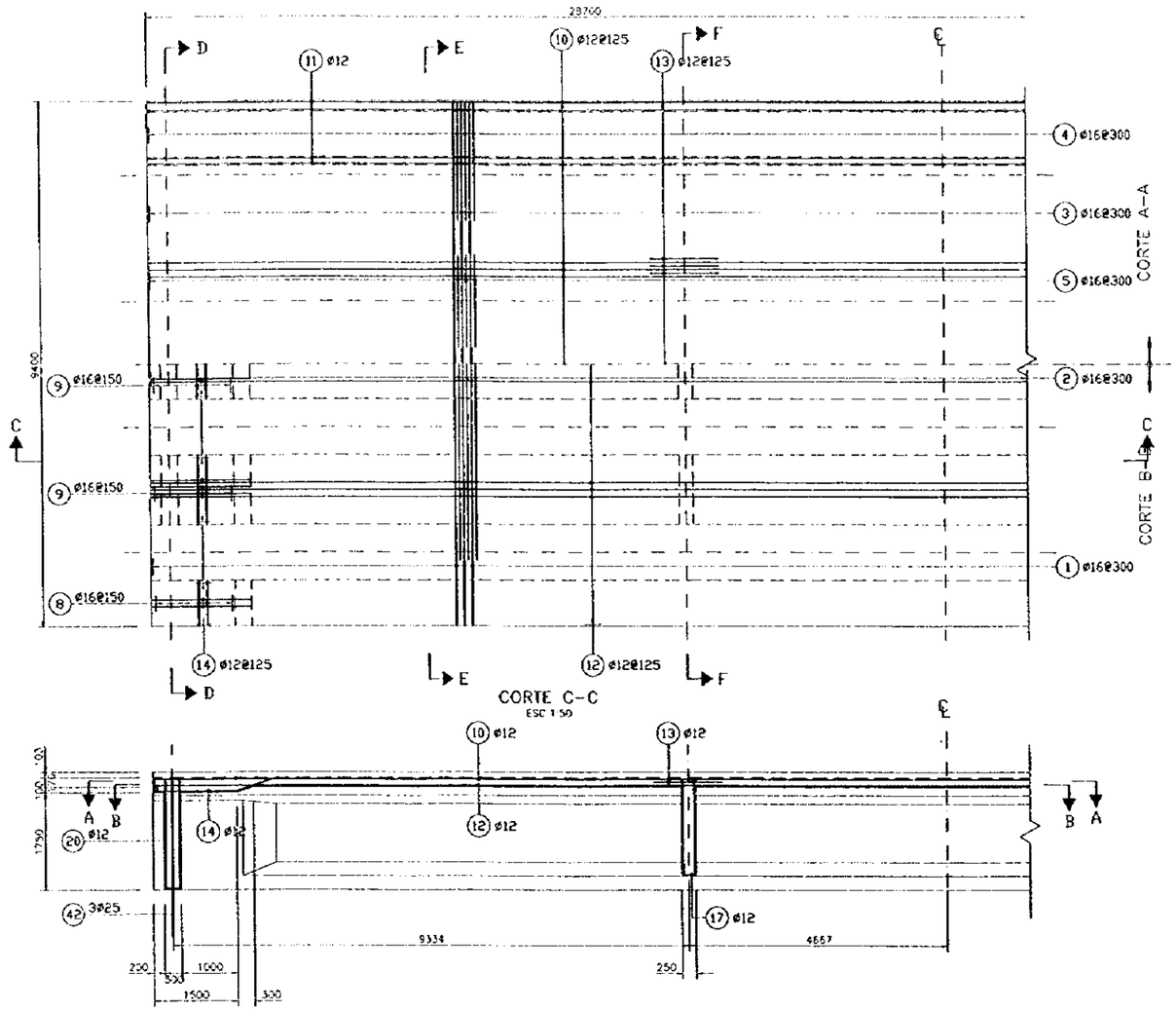


DIRECCION DE VIALIDAD
DEPARTAMENTO DE PUENTES

Puente: 2-PST-L26_n4
Camino:
Provincia: Region:

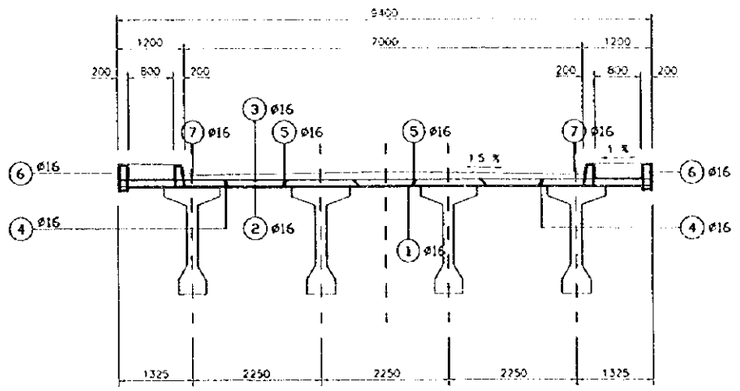
Proyecto
Reviso
Vo Bo Ing. Jefe Depto Puentes
Direccion de Vialidad
Dibujo
Fecha

PLANTA DE LOSA
ESC 1:50

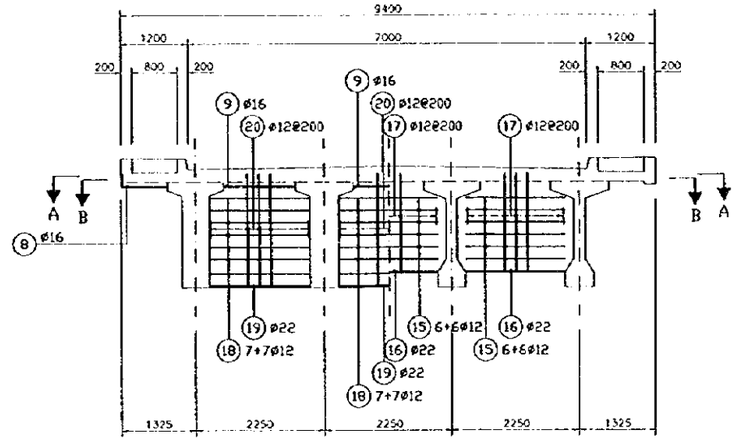


CORTE C-C
ESC 1:50

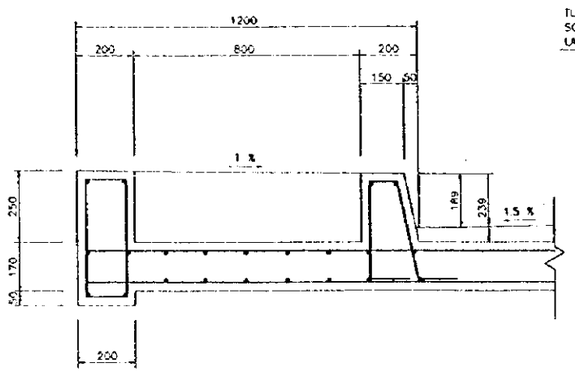
CORTE TRAVERSAL
CORTE E-E
ESC 1:50



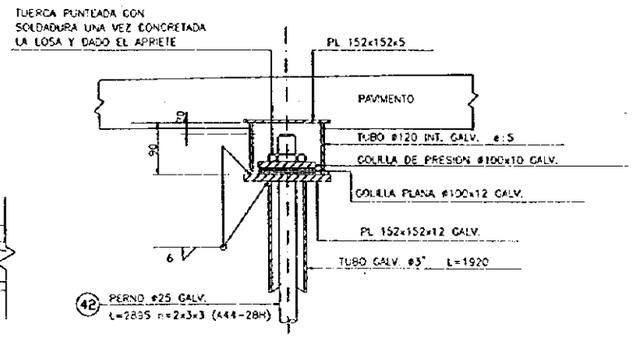
TRAVESAÑOS EXTREMOS
CORTE D-D CORTE F-F
ESC.1:50



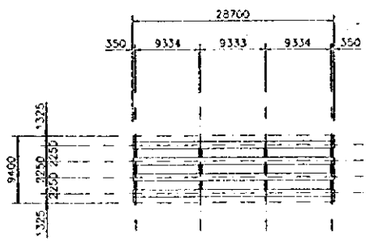
DETALLE DE PASILLO
ESC 1:10



DETALLE BARRAS ANTISISMICAS
ESC 1:5



PLANTA DE DISPOSICION



DIRECCION DE VIALIDAD
DEPARTAMENTO DE PUENTES

Puente: 2-PST-L28_n4	
Camino:	
Provincia:	Region:
Proyecto	Revisó
Vo Bo Ing. Jefe Depto Puentes	Director de Vialidad
Dibujo:	
Fecha:	

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