

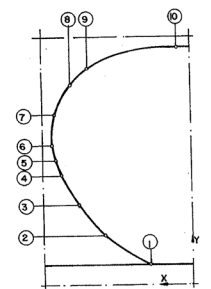
Esquemas del puente del Alamillo, Sevilla.

de: WHAT IS A BRIDGE, The making of Caltrava's Bridge in Seville.
Spiro N. Pollalis.

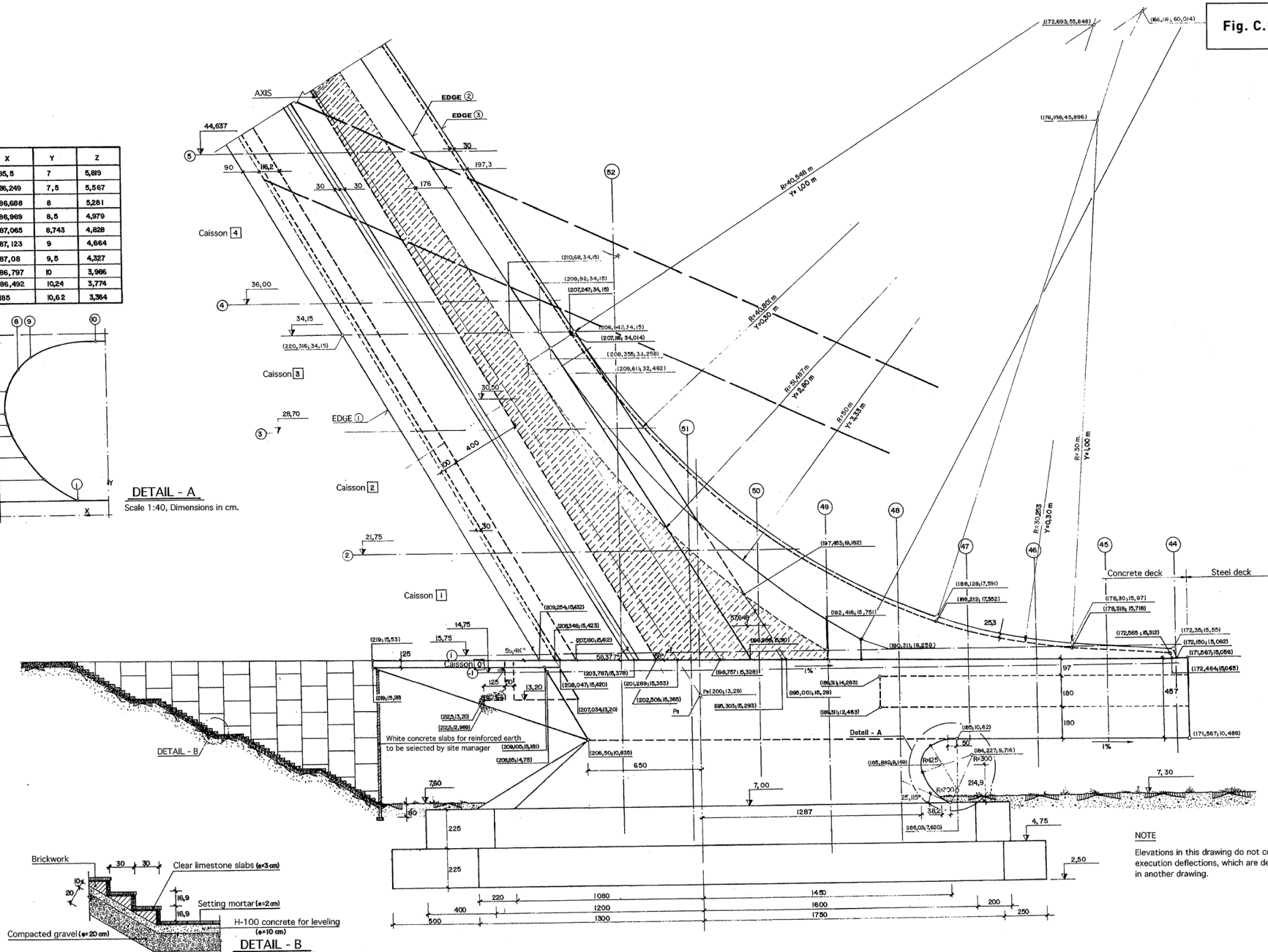
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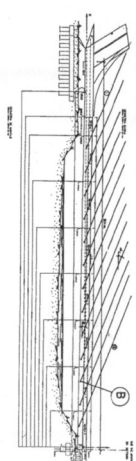
signatura: 056-POL-2

	X	Y	Z
1	185,5	7	5,819
2	186,249	7,5	5,567
3	186,688	8	5,281
4	186,969	8,5	4,979
5	187,065	8,743	4,828
6	187,123	9	4,664
7	187,08	9,5	4,327
8	186,797	10	3,986
9	186,492	10,24	3,774
10	185	10,62	3,304



DETAIL - A
Scale 1:40, Dimensions in cm.





CABLE	X	Y	Z
A 1 - 2	224,728	2,460	43,138
B 1 - 2	150,662	3,023	11,663
C 1 - 2	212,921	2,556	57,687
A 3 - 4	228,050	2,460	50,461
B 3 - 4	150,662	2,460	11,663
C 3 - 4	217,673	2,477	45,189
A 5 - 6	233,372	2,460	57,764
B 5 - 6	150,993	2,460	11,139
C 5 - 6	227,156	2,460	50,159
A 7 - 8	237,698	2,460	57,764
B 7 - 8	151,546	2,460	11,139
C 7 - 8	227,156	2,460	50,159
A 9 - 10	242,017	2,460	72,380
B 9 - 10	157,025	2,460	10,899
C 9 - 10	231,826	2,460	55,753
A 11 - 12	246,411	2,460	72,380
B 11 - 12	157,025	2,460	10,899
C 11 - 12	231,826	2,460	55,753
A 13 - 14	250,661	2,460	87,016
B 13 - 14	157,025	2,460	10,899
C 13 - 14	231,826	2,460	55,753
A 15 - 16	254,911	2,460	102,643
B 15 - 16	157,025	2,460	10,899
C 15 - 16	231,826	2,460	55,753
A 17 - 18	259,305	2,460	101,563
B 17 - 18	157,025	2,460	10,899
C 17 - 18	231,826	2,460	55,753
A 19 - 20	263,699	2,460	116,186
B 19 - 20	157,025	2,460	10,899
C 19 - 20	231,826	2,460	55,753
A 21 - 22	267,949	2,460	116,186
B 21 - 22	157,025	2,460	10,899
C 21 - 22	231,826	2,460	55,753
A 23 - 24	272,271	2,460	120,176
B 23 - 24	157,025	2,460	10,899
C 23 - 24	231,826	2,460	55,753
A 25 - 26	276,593	2,460	130,895
B 25 - 26	157,025	2,460	10,899
C 25 - 26	231,826	2,460	55,753

Fig. C.2

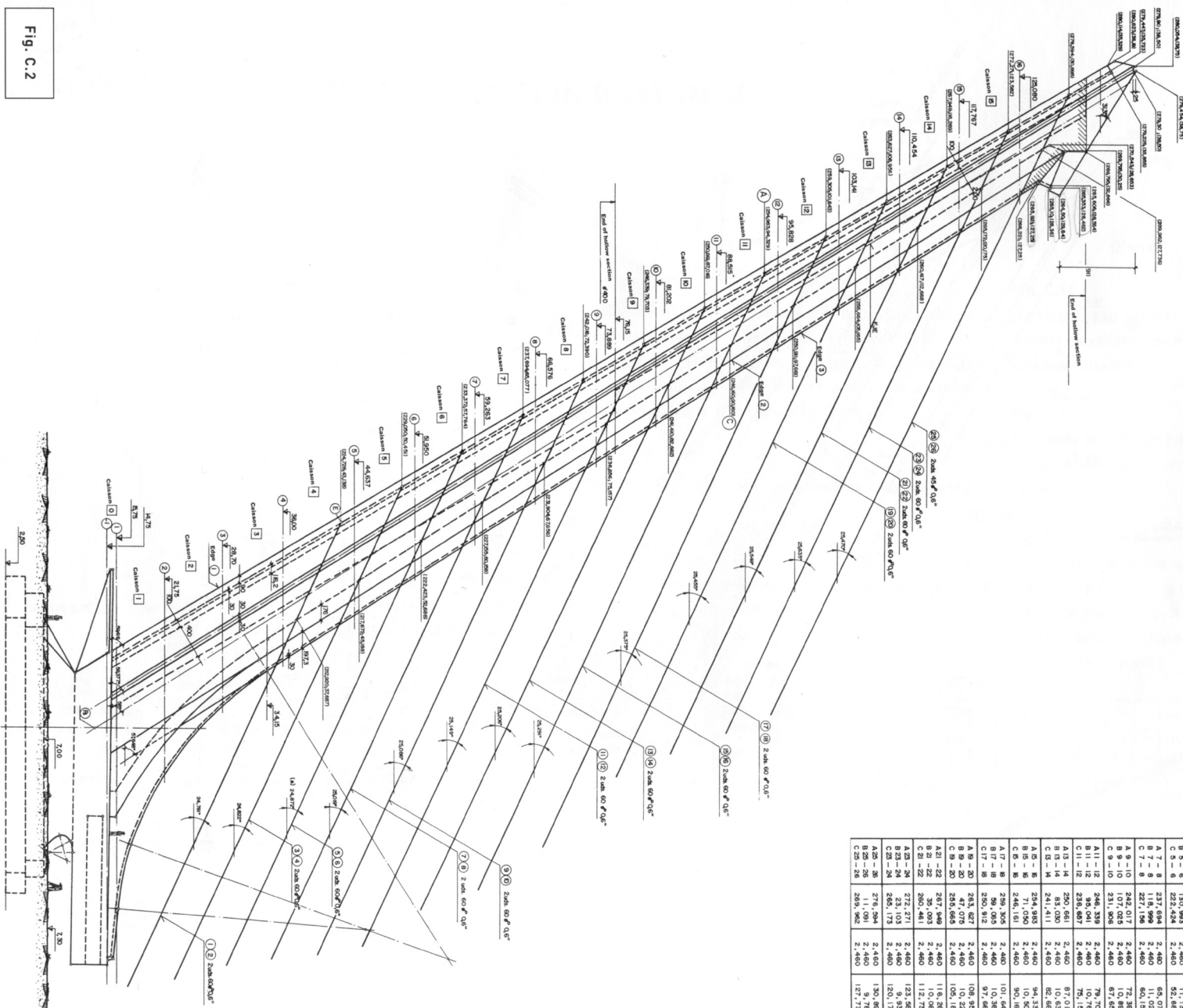
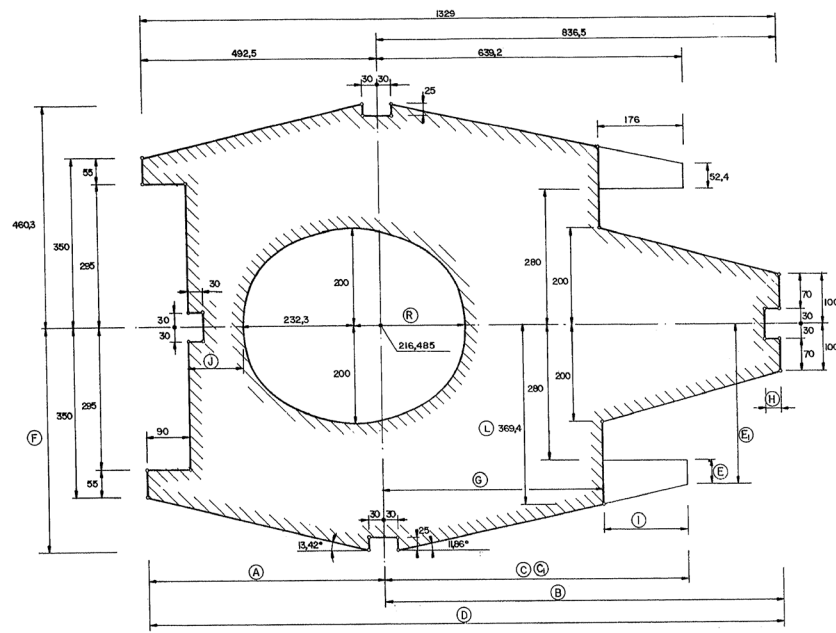
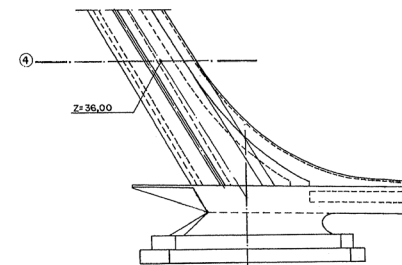


Fig. C.3



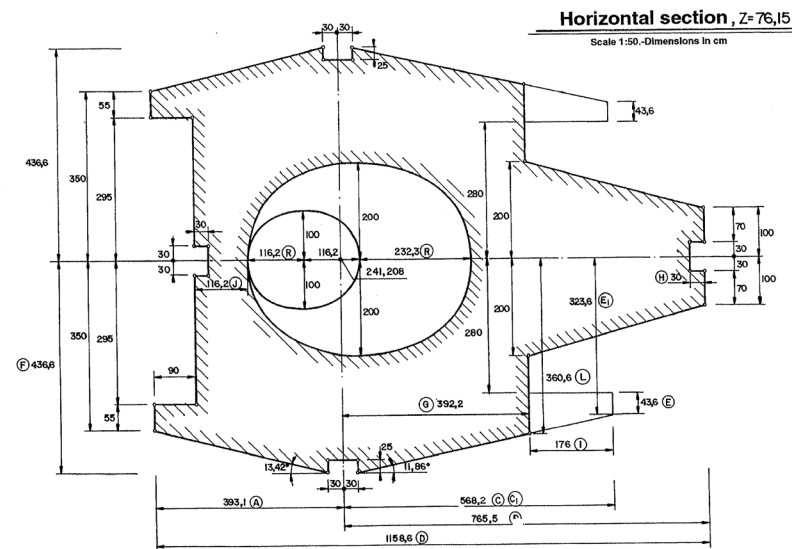
Horizontal section 4, Z=36,00
Scale 1:50-Dimensions in cm



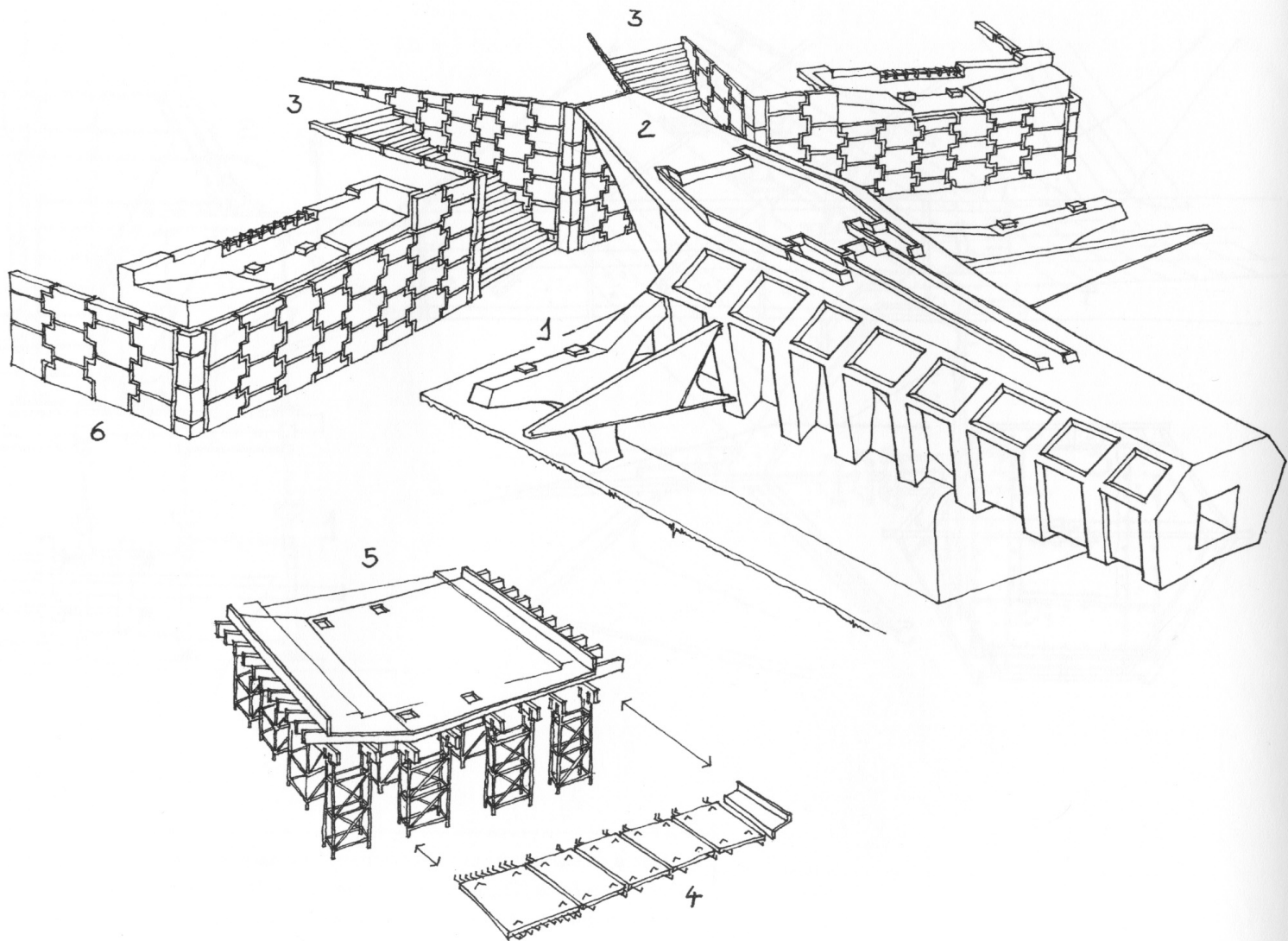
SECTION	X	Z	A	B	C	D	E	F	G
1	203.400	14.750	5.450	31.250	13.089	36.700	0.230	4.729	5.008
2	204.016	15.750	5.426	28.832	13.708	34.258	0.530	4.723	4.991
3	207.710	21.750	5.277	13.075	9.409	18.352	0.530	4.688	4.885
4	211.990	28.700	5.105	9.178	6.894	14.283	0.530	4.647	4.762
5	216.485	36.000	4.925	8.365	6.352	13.290	0.524	4.603	4.632
6	221.803	44.637	4.711	8.213	6.240	12.924	0.505	4.552	4.480
7	226.306	51.950	4.530	8.083	6.110	12.613	0.489	4.509	4.350
8	230.809	59.263	4.349	7.954	5.981	12.303	0.473	4.466	4.221
9	235.312	66.576	4.168	7.828	5.852	11.993	0.457	4.423	4.092
10	239.815	73.889	3.987	7.695	5.722	11.682	0.441	4.380	3.962
11	244.318	81.202	3.806	7.566	5.593	11.372	0.425	4.337	3.833
12	248.821	88.515	3.625	7.437	5.464	11.062	0.409	4.293	3.704
13	253.324	95.828	3.444	7.307	5.334	10.751	0.393	4.250	3.574
14	257.827	103.141	3.263	7.178	5.205	10.441	0.377	4.207	3.445
15	262.330	110.454	3.082	7.048	5.075	10.131	0.361	4.164	3.315
16	266.834	117.767	2.901	6.919	4.946	9.820	0.345	4.121	3.186
17	271.337	125.080	2.720	6.790	4.817	9.510	0.329	4.077	3.057

SECTION	Z	H	I	J	R	L	C1	E1	I1
1	14.750	0.314	2.105	1.162	2.323	3.740	6.768	3.371	22.509
2	21.750	0.347	2.105	1.162	2.323	3.738	6.751	3.368	20.109
3	28.700	0.340	1.890	1.162	2.323	3.725	6.645	3.355	4.457
4	36.000	0.300	1.760	1.162	2.323	3.694	6.392	3.324	0.000
5	44.637	0.300	1.760	1.162	2.323	3.675	6.240	3.305	0.000
6	51.950	0.300	1.760	1.162	2.323	3.659	6.110	3.289	0.000
7	59.263	0.300	1.760	1.162	2.323	3.643	5.981	3.273	0.000
8	66.576	0.300	1.760	1.162	2.323	3.627	5.852	3.257	0.000
9	73.889	0.300	1.760	1.162	2.323	3.611	5.722	3.241	0.000
10	81.202	0.300	1.760	1.162	1.162	3.595	5.593	3.225	0.000
11	88.515	0.300	1.760	1.162	1.162	3.579	5.464	3.209	0.000
12	95.828	0.300	1.760	1.162	1.162	3.563	5.334	3.193	0.000
13	103.141	0.300	1.760	1.162	1.162	3.547	5.205	3.177	0.000
14	110.454	0.300	1.760	1.162	1.162	3.531	5.075	3.161	0.000
15	117.767	0.300	1.760	1.162	1.162	3.515	4.946	3.145	0.000
16	125.080	0.300	1.760	1.162	1.162	3.499	4.817	3.129	0.000

ELEVATION OF THE PYLON'S
HORIZONTAL SECTIONS



Horizontal section, Z=76,15
Scale 1:50-Dimensions in cm



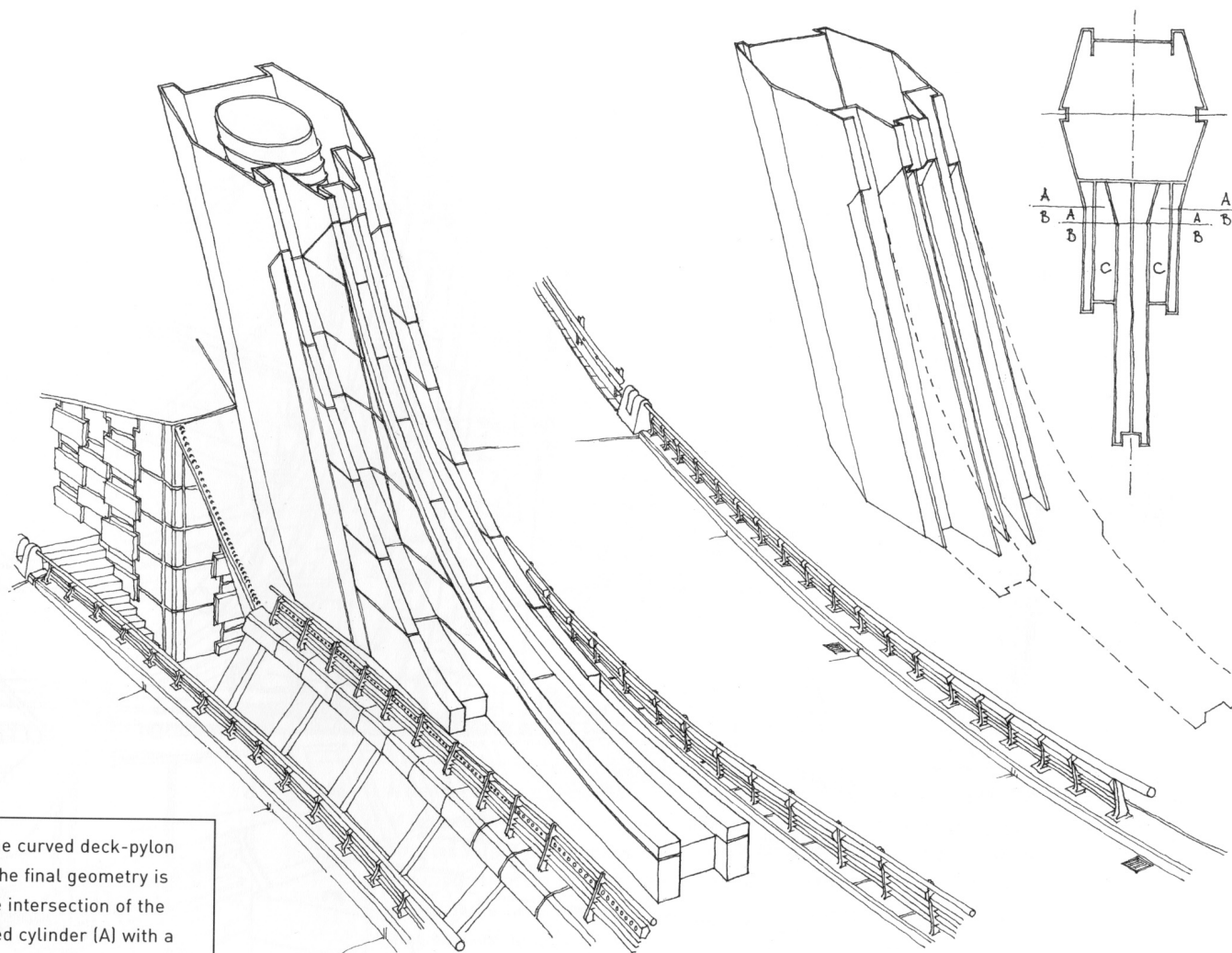
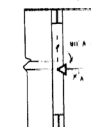
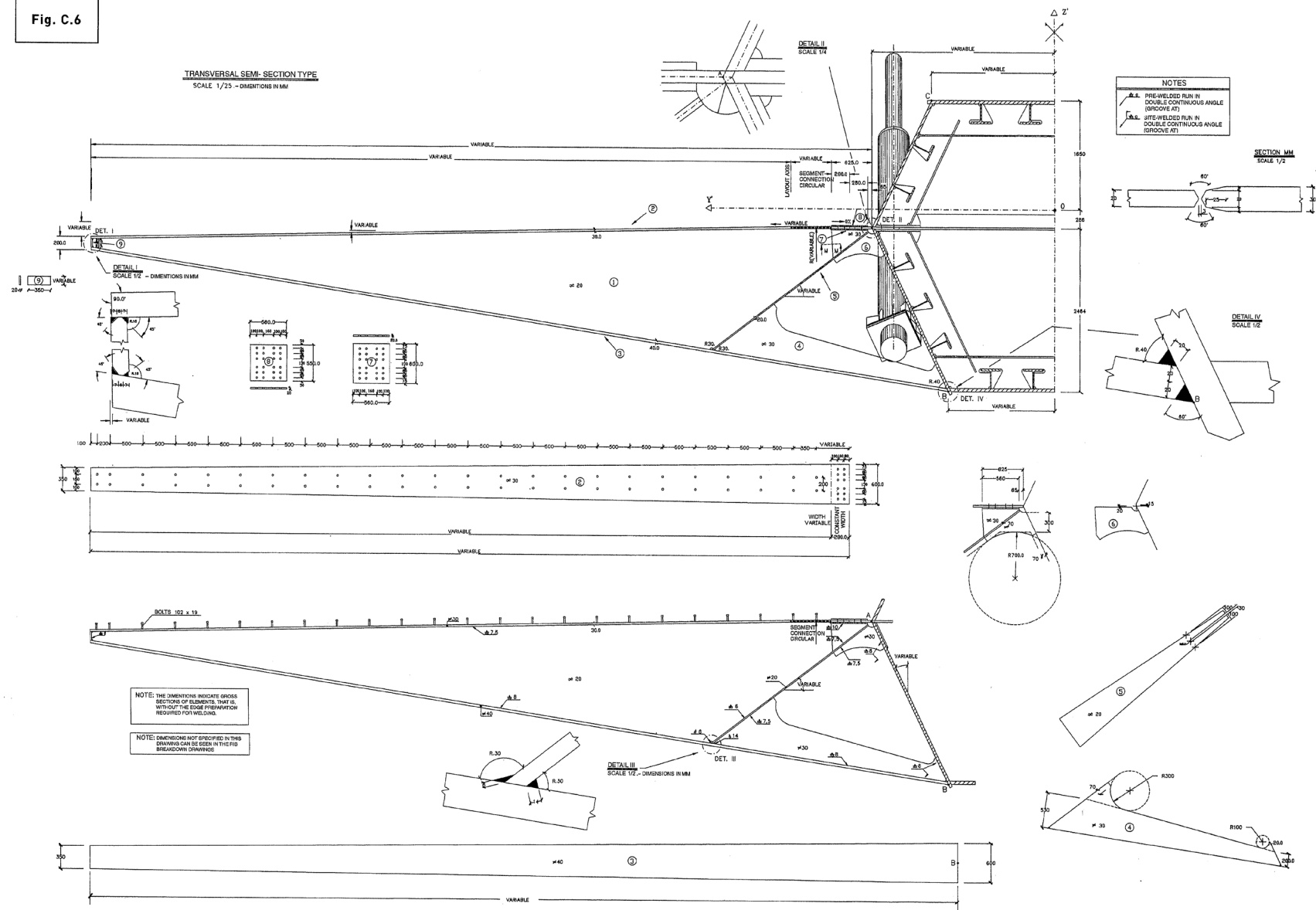
**Fig. 6.32**

Diagram of the curved deck-pylon connection. The final geometry is formed by the intersection of the pylon's inclined cylinder (A) with a series of parallel vertical planes (B and C).

Fig. C.6



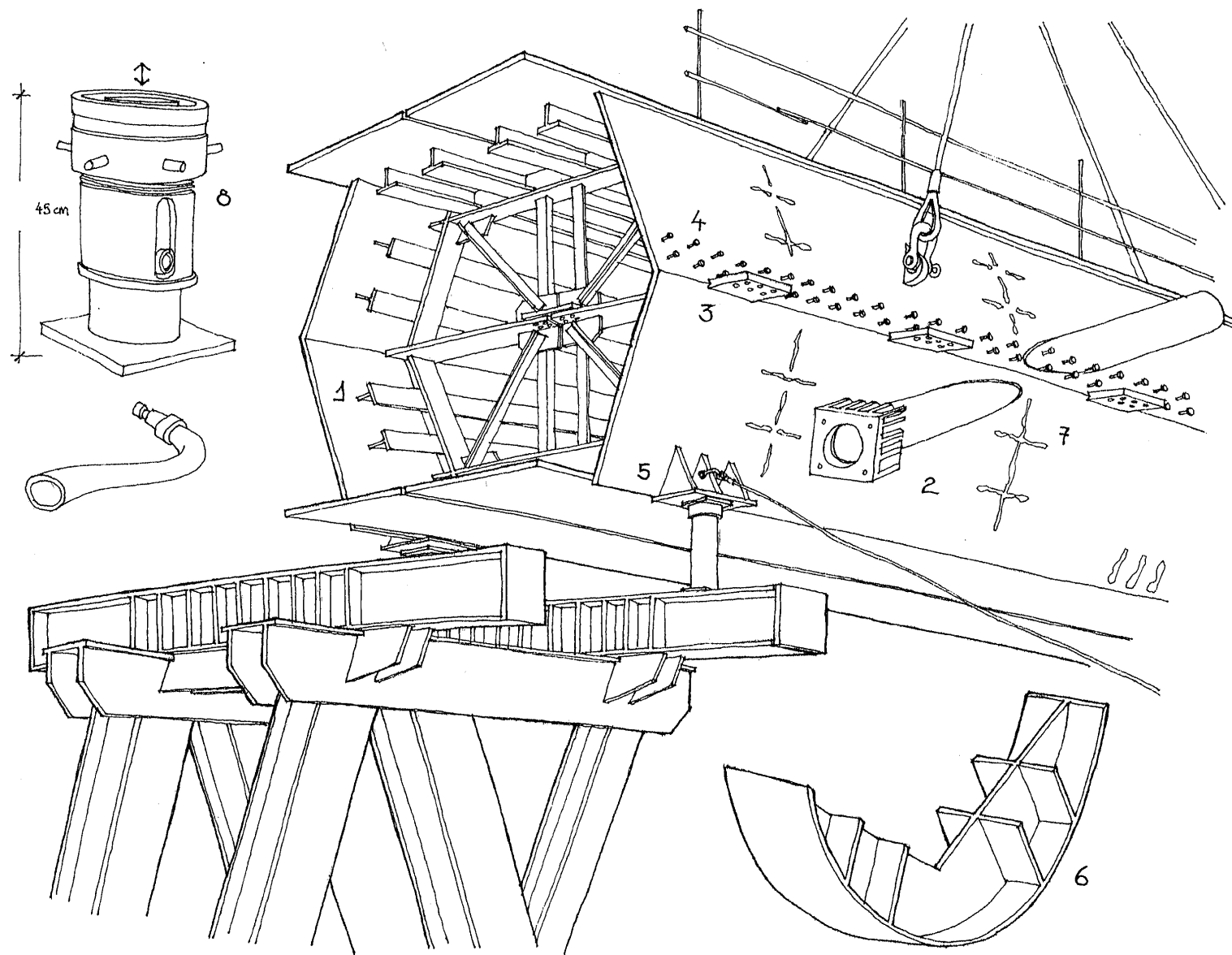


Fig. C.12

NOTE ON CONCRETE PROTECTION:

Concrete protection will be 2.5 cm for exterior bars, except in: piles (5 cm)
pile bracing base (10 cm) and pedestal sides (5 cm).

CONDITIONS

CONCRETE

- Base: H-100, $f_{ck} \geq 100$ Kp/cm²
- Piles: H-200, $f_{ck} \geq 200$ Kp/cm²
- Pile bracing, pedestal: H-300, $f_{ck} \geq 300$ Kp/cm², pylon and deck: H-350, $f_{ck} \geq 250$ Kp/cm²

STEEL

- Corrugated: symbol 4", AEN-500, $f_{yk} \geq 5100$ Kp/cm²

CONTROL LEVELS

- Materials: Intense, $\gamma_{ct}=1.5$, $\gamma_{st}=1.1$

- Executions: Intense, $\gamma_{st}=1.5$

NOTES

- (2) Re-bar parallel to the exterior face of the pedestal
(3) Re-bar parallel to the exterior edge of the deck

