

PLANO DE ESTRUCTURA DEL HERRAJE 4

PLANO CONFORME A OBRA.

PROPIEDAD DE:
SERGIO SUJOY y
SILVIA WAINER de GITAROFF.

CALLE: ALVEAR 1846/48/50/52/54.

COLUMANAS (1)

DETALLES DE CALCULO

07 OCT 1980

136

TENSIONES $\frac{kg}{cm^2}$

Seal	Steel	Spl.	Coin
4000	100	80	15

FIRMAS:

PROYECTADORA:
DINERO, GILBERTO, S&B, 70000.

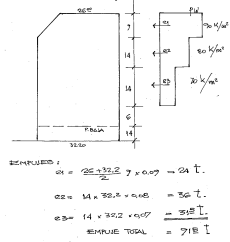
INGENIERO DE OBRA:
NOMBRE:
FIRMADO:

REVISOR: ESTRUCTURAL RUBEN LITVIN

TRABAJO: REPARACION 402- 517000.
MATERIAL: MUELLO 3000- 5000- 5000- 5000

INDICACIONES REPARACIONAL:
BLOQ CONCRETO: 100- 1000.
MATERIAL: MUELLO 3000- 5000- 5000- 5000.
DIRECCION: DIRE. MATERIA 2540- 5000.

CALCULO EMPUJE DE VIENTO.

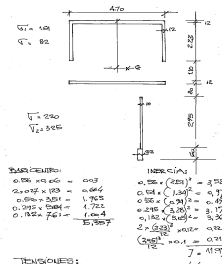


EMPURJES:
 $W = 25 \times 14 \times 14 \times 0.007 = 24 \text{ t.}$
 $W = 14 \times 14 \times 0.007 = 14 \text{ t.}$
 $W = 14 \times 14 \times 0.007 = 14 \text{ t.}$
 EMPUJE TOTAL = 52 t

MOMENTO A NIVEL +4.00 (FEMA)
 $M = 24 \times 14 = 336$
 $M = 14 \times 14 = 196$
 $M = 14 \times 14 = 196$

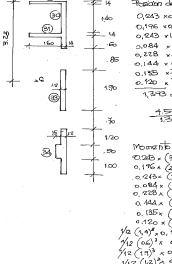
DISTRIBUCION DEL EMPUJE EN PILES 10 a 12"
 Se distribuye por partes iguales entre las siguientes estructuras:
 a) TUB 29/39/49/59/69/79/89/99/109/119/129
 b) TUB 14/24/34/44/54/64/74/84/94/104/114/124

TENSIONES EN TUB 29/39/49/59/69/79/89/99/109/119/129



TENSIONES EN TUB 29/39/49/59/69/79/89/99/109/119/129
 $T = 25 \times 14 \times 14 \times 0.007 = 24 \text{ t.}$
 $C = 14 \times 14 \times 0.007 = 14 \text{ t.}$
 $C = 14 \times 14 \times 0.007 = 14 \text{ t.}$

TENSIONES EN TUB 29/39/49/59/69/79/89/99/109/119/129



TENSIONES EN TUB 29/39/49/59/69/79/89/99/109/119/129
 $T = 25 \times 14 \times 14 \times 0.007 = 24 \text{ t.}$
 $C = 14 \times 14 \times 0.007 = 14 \text{ t.}$
 $C = 14 \times 14 \times 0.007 = 14 \text{ t.}$

CARGAS NORMALES DE VIENTO EN PISO

TUB 29 0.043 x 240 = 10.32 t
 TUB 39 0.043 x 240 = 10.32 t
 TUB 49 0.043 x 240 = 10.32 t
 TUB 59 0.043 x 240 = 10.32 t
 TUB 69 0.043 x 240 = 10.32 t
 TUB 79 0.043 x 240 = 10.32 t
 TUB 89 0.043 x 240 = 10.32 t
 TUB 99 0.043 x 240 = 10.32 t
 TUB 109 0.043 x 240 = 10.32 t
 TUB 119 0.043 x 240 = 10.32 t
 TUB 129 0.043 x 240 = 10.32 t

DISTRIBUCION DEL VIENTO EN PISO

EMPURJE TOTAL = 52 t
 TUB 29/39/49/59/69/79/89/99/109/119/129
 TUB 14/24/34/44/54/64/74/84/94/104/114/124

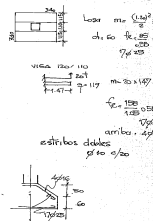
BASES.

Base	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	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
Base	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	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100

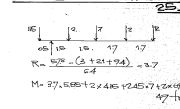
VIGAS CANTILEVER.

Viga	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	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
Viga	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	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100

DETALLE BASE 70.



DETALLE VIGA CANTILEVER 25.



PLANO DE ESTRUCTURA DE HAP

PLANO CONFORME A OBRA
 PROPIEDAD DE:

SERGIO SUJOY y
 SILVIA WAINER de GITAROFF
 CALLE: ALVEAR 1846/48/50/52/54.

BASES CALC. VIENTO

DETALLES ESPECIALES CALCULO

TENSIONES Kg/cm²

100 150 200 250 300 350 400 450 500 550 600 650 700 750 800 850 900 950 1000

FIRMAS:

PREPAREDADO: SERGIO SUJOY

REVISADO: SILVIA WAINER

ELABORADO: SERGIO SUJOY

VERIFICADO: SILVIA WAINER

APROBADO: SERGIO SUJOY

REVISADO: SILVIA WAINER

ELABORADO: SERGIO SUJOY

VERIFICADO: SILVIA WAINER

APROBADO: SERGIO SUJOY

REVISADO: SILVIA WAINER

ELABORADO: SERGIO SUJOY

VERIFICADO: SILVIA WAINER

APROBADO: SERGIO SUJOY

REVISADO: SILVIA WAINER

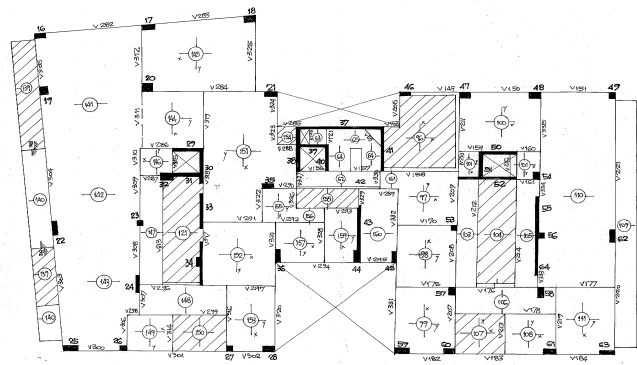
ELABORADO: SERGIO SUJOY

VERIFICADO: SILVIA WAINER

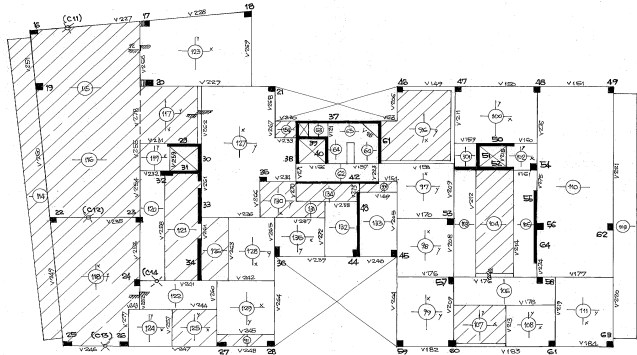
APROBADO: SERGIO SUJOY

REVISADO: SILVIA WAINER

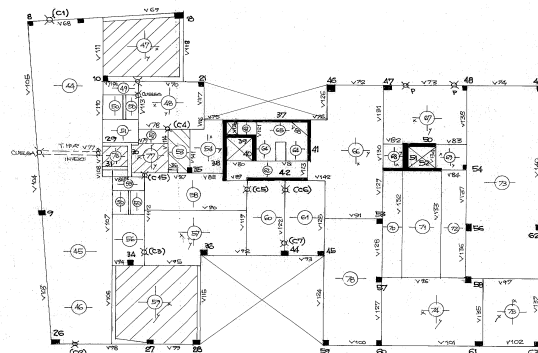
ELABORADO: SERGIO SUJOY



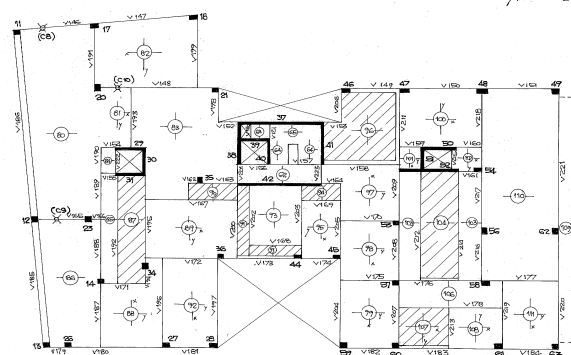
3/12 PISO



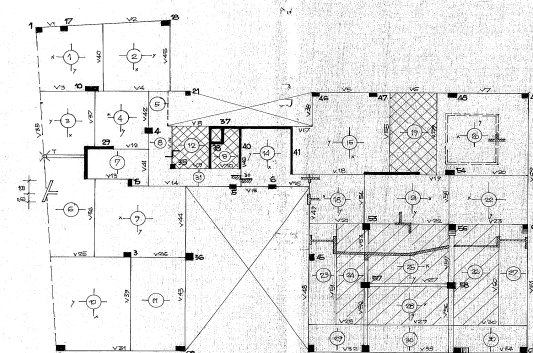
3/12 PISO



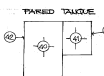
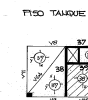
3/12 PISO



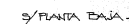
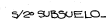
3/12 PISO



3/12 PISO



PLANO DE ESTRUCTURA DE HAZO. PLANO CONFORME A CERRA. PROPIEDAD DE: SERGIO SUJOY y SILVIA WAINER de GITAROFF. CALLE : ALVEAR 1846/48/50/52/54	
PLANOS: 1/12, 1/13, 1/14, 1/15, 1/16, 1/17, 1/18, 1/19, 1/20, 1/21, 1/22, 1/23, 1/24, 1/25, 1/26, 1/27, 1/28, 1/29, 1/30, 1/31, 1/32, 1/33, 1/34, 1/35, 1/36, 1/37, 1/38, 1/39, 1/40, 1/41, 1/42, 1/43, 1/44, 1/45, 1/46, 1/47, 1/48, 1/49, 1/50, 1/51, 1/52, 1/53, 1/54, 1/55, 1/56, 1/57, 1/58, 1/59, 1/60, 1/61, 1/62, 1/63, 1/64, 1/65, 1/66, 1/67, 1/68, 1/69, 1/70, 1/71, 1/72, 1/73, 1/74, 1/75, 1/76, 1/77, 1/78, 1/79, 1/80, 1/81, 1/82, 1/83, 1/84, 1/85, 1/86, 1/87, 1/88, 1/89, 1/90, 1/91, 1/92, 1/93, 1/94, 1/95, 1/96, 1/97, 1/98, 1/99, 1/100.	TELEFONOS: 1/12, 1/13, 1/14, 1/15, 1/16, 1/17, 1/18, 1/19, 1/20, 1/21, 1/22, 1/23, 1/24, 1/25, 1/26, 1/27, 1/28, 1/29, 1/30, 1/31, 1/32, 1/33, 1/34, 1/35, 1/36, 1/37, 1/38, 1/39, 1/40, 1/41, 1/42, 1/43, 1/44, 1/45, 1/46, 1/47, 1/48, 1/49, 1/50, 1/51, 1/52, 1/53, 1/54, 1/55, 1/56, 1/57, 1/58, 1/59, 1/60, 1/61, 1/62, 1/63, 1/64, 1/65, 1/66, 1/67, 1/68, 1/69, 1/70, 1/71, 1/72, 1/73, 1/74, 1/75, 1/76, 1/77, 1/78, 1/79, 1/80, 1/81, 1/82, 1/83, 1/84, 1/85, 1/86, 1/87, 1/88, 1/89, 1/90, 1/91, 1/92, 1/93, 1/94, 1/95, 1/96, 1/97, 1/98, 1/99, 1/100.
DETALLES DE CERRAJE: 1/12, 1/13, 1/14, 1/15, 1/16, 1/17, 1/18, 1/19, 1/20, 1/21, 1/22, 1/23, 1/24, 1/25, 1/26, 1/27, 1/28, 1/29, 1/30, 1/31, 1/32, 1/33, 1/34, 1/35, 1/36, 1/37, 1/38, 1/39, 1/40, 1/41, 1/42, 1/43, 1/44, 1/45, 1/46, 1/47, 1/48, 1/49, 1/50, 1/51, 1/52, 1/53, 1/54, 1/55, 1/56, 1/57, 1/58, 1/59, 1/60, 1/61, 1/62, 1/63, 1/64, 1/65, 1/66, 1/67, 1/68, 1/69, 1/70, 1/71, 1/72, 1/73, 1/74, 1/75, 1/76, 1/77, 1/78, 1/79, 1/80, 1/81, 1/82, 1/83, 1/84, 1/85, 1/86, 1/87, 1/88, 1/89, 1/90, 1/91, 1/92, 1/93, 1/94, 1/95, 1/96, 1/97, 1/98, 1/99, 1/100.	
FIRMAS: 1/12, 1/13, 1/14, 1/15, 1/16, 1/17, 1/18, 1/19, 1/20, 1/21, 1/22, 1/23, 1/24, 1/25, 1/26, 1/27, 1/28, 1/29, 1/30, 1/31, 1/32, 1/33, 1/34, 1/35, 1/36, 1/37, 1/38, 1/39, 1/40, 1/41, 1/42, 1/43, 1/44, 1/45, 1/46, 1/47, 1/48, 1/49, 1/50, 1/51, 1/52, 1/53, 1/54, 1/55, 1/56, 1/57, 1/58, 1/59, 1/60, 1/61, 1/62, 1/63, 1/64, 1/65, 1/66, 1/67, 1/68, 1/69, 1/70, 1/71, 1/72, 1/73, 1/74, 1/75, 1/76, 1/77, 1/78, 1/79, 1/80, 1/81, 1/82, 1/83, 1/84, 1/85, 1/86, 1/87, 1/88, 1/89, 1/90, 1/91, 1/92, 1/93, 1/94, 1/95, 1/96, 1/97, 1/98, 1/99, 1/100.	



4300

ESCALA 1:100

TENSIONES Kg/cm²

σ _{ek}	σ _{sk}	σ _p	σ _m
2400	180	7.44	0

PROFESSOR: 
TOMADA DE POSSE: 7/9/2001

136 MATHE
2000


 ASSISTANT INTERNATIONAL
 JOHN O'CONNELL - THE CIVIL

Donor: The MITRE Corp.

X-7670

[illegible]

POS.	LINE #	Y	CHARGE	h	CHG COST	1st CHARGE	h	d	WEEKS (30)	CHARGE COST	
46	980	1.07	550	5.8	1	140	5.8	7	154	6	21
	275					258	5.8	7	154	6	21
49	200	2.22	550	4.2	10	258	5.8	7	128	6	22
	6.30					43	5.8	7	128	6	22
50	198	1.86	700	5.0	15	39	5.8	7	128	6	22
						197	5.8	7	128	6	22
51	200	1.81	580	4.7	11	277	5.8	7	255	6	22
	1.10					48	5.8	7	128	6	22
52	150	3.00	450	1.4	17	0	5.8	15	128	6	22
	255					8	5.8	15	128	6	22
53	255	1.86	700	5.0	15	39	5.8	7	128	6	22
	1.50					197	5.8	7	128	6	22
54	300	2.22	550	4.2	10	258	5.8	7	255	6	22
	1.75					48	5.8	7	128	6	22
55	170	1.88	500	4.5	10	258	5.8	7	255	6	22
	1.50					48	5.8	7	128	6	22
56	170	1.88	500	4.5	10	258	5.8	7	255	6	22
	1.50					48	5.8	7	128	6	22
57	170	1.88	500	4.5	10	258	5.8	7	255	6	22
	1.50					48	5.8	7	128	6	22
58	170	1.88	500	4.5	10	258	5.8	7	255	6	22
	1.50					48	5.8	7	128	6	22
59	400	3.00	700	7.4	1	1570	5.8	7	157	5	17
	2.10					37	5.8	7	157	5	17
60	430	2.04	500	3.5	15	195	5.8	7	128	6	22
	2.10					38	5.8	7	128	6	22
61	204	2.04	500	3.5	15	195	5.8	7	128	6	22
	2.10					38	5.8	7	128	6	22
62	300	1.81	580	4.7	11	10	5.8	7	158	6	22
	1.10					48	5.8	7	128	6	22
63	100	1.42	480	3.3	16	28	5.8	7	128	6	22
	1.10					28	5.8	7	128	6	22
64	240	1.81	700	5.0	10	730	5.8	7	152	5	18
	1.10					37	5.8	7	152	5	18
65	100	1.00	700	3.3	16	17	5.8	7	130	6	22
	1.10					29	5.8	7	130	6	22
66	380	1.24	850	6.3	6	385	5.8	11	136	6	22
	3.80					78	5.8	11	136	6	22
67	400	1.05	500	6.4	4	230	5.8	10	128	6	22
	1.10					13	5.8	10	128	6	22
68	100	1.00	500	1.8	6	32	5.8	8	128	6	22
	1.10					13	5.8	8	128	6	22
69	160	1.12	450	2.7	6	36	7.8	10	158	6	22
	1.10					46	8.7	10	158	6	22
70	670	1.00	800	2.5	6	12	6.8	8	128	6	22
	1.10					18	6.8	8	128	6	22
71	67										

Point	LOS		X	Y	CARTON	h	CARTON	T	h	HURRINGS		OBSERVATIONS
	ft	m								in	ft	
94	0.28	0.10	210	700	3.3	17	80	7	108	6	22	
	0.32	0.10				81	8	108	6	22		
95	0.40	0.30	170	470	5.3	18	94	8	138	5	22	
	0.30	0.30				101	7	108	6	22		
96	4.80	1.60	1070	570	7.4	1	90.8	11	146	6	17	
	4.80	1.60				107	8	146	6	17		
97	8.90	3.00	106	600	5.6	6	107	8	146	6	17	
	8.90	3.00				107	8	146	6	17		
98	5.30	1.20	480	56	7	114	6.8	128	5	22		
	5.30	1.20				114	6.8	128	5	22		
99	380	122	470	4	2	152	6	128	5	22		
	380	122				152	6	128	5	22		
100	440	102	470	6	2	202	7.8	10	108	6	22	
	440	102				202	7.8	108	6	22		
101	150	1.60	470	20	1	44	80	128	5	22		
	150	1.60				44	80	128	5	22		
102	1.60	1.12	530	32	1	46	6.8	128	5	22		
	1.60	1.12				46	6.8	128	5	22		
103	100	700	480	63	17	8	6	108	6	22		
	100	700				8	6	108	6	22		
104	700	3.33	800	70	16	88	6.8	128	5	22		
	700	3.33				88	6.8	128	5	22		
105	100	5.90	480	37	17	14	6.8	128	5	22		
	100	5.90				14	6.8	128	5	22		
106	5.40	1.40	500	4.6	17	23	6	128	5	22		
	5.40	1.40				23	6	128	5	22		
107	1.20	1.18	800	44	17	139	6.8	128	5	22		
	1.20	1.18				139	6.8	128	5	22		
108	2.80	1.00	580	4.6	6	71	6	108	6	22		
	2.80	1.00				71	6	108	6	22		
109	1.60	1.00	580	104	19	-617	15	287	8	17		
	1.60	1.00				-617	15	287	8	17		
110	920	0.88	600	70	17	178	10	128	5	22		
	920	0.88				178	10	128	5	22		
111	3.80	0.18	600	18	17	140	10	128	5	22		
	3.80	0.18				140	10	128	5	22		
112	1.20	-	800	104	19	-150	15	287	8	17		
	1.20	-				-150	15	287	8	17		
113	600	1.05	800	16.7	17	428	18	15	17	17		
	600	1.05				428	18	15	17	17		
114	3.80	1.00	800	14.8	17	703	18	15	17	17		
	3.80	1.00				703	18	15	17	17		
115	3.80	0.93	670	79	13	690	15	231	6	18		
	3.80	0.93				690	15	231	6	18		
116	4.40	0.80	60	6	6	221	12	14	24	22		
	4.40	0.80				221	12	14	24	22		
117	1.70	1.18	500	30	1	41	6.8	128	5	22		
	1.70	1.18				41	6.8	128	5	22		

PLANO DE ESTRUCTURA DE H.P.A.

PLANO CONFORME A OBRA.

PROPIEDAD DE:
SERGIO SUJOY y
SILVIA WAINER de GITAROFF.

CALLE: ALVEAR 1846/48/50/52/54.

772-0

100

DETALLES DE CALZADO
ELECTROMECANICOS de LAMPAS.

1. 2. 3.

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7. 8. 9.

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