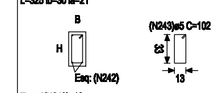
P001 | P002 | P003 | P004 | P005 | P006 | P007

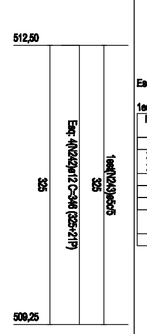
Pilar P001
CONC 20x40
L=325 B=30 la=21



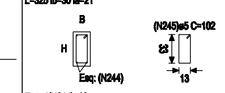
Esc: 4(N142)ø12

1xest(N142)ø5c/5

ID	QL	Diâm.	Comprimento unitário (cm) P.C. Reto	P.C. Total	Emb	Total (cm)	(kg)
Pilares							Aço CA-50 N 5088 Kg/cm2
242	4	ø12	325	21	340	1354	12,001
243	4	ø5			160	6732	10,706
						total+10,0%	25,728
Total+10,0% (kg)							
Aço CA-50 N 5088 Kg/cm2							
					ø5		11,779
					ø12		13,949
					Total		25,728



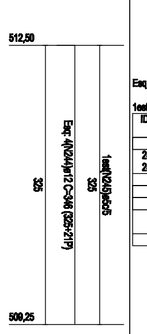
Pilar P002
CONC 20x40
L=325 B=30 la=21



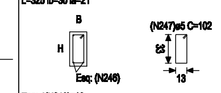
Esc: 4(N144)ø12

1xest(N144)ø5c/5

ID	QL	Diâm.	Comprimento unitário (cm) P.C. Reto	P.C. Total	Emb	Total (cm)	(kg)
Pilares							Aço CA-50 N 5088 Kg/cm2
244	4	ø12	325	21	340	1354	12,001
245	4	ø5			160	6732	10,706
						total+10,0%	25,728
Total+10,0% (kg)							
Aço CA-50 N 5088 Kg/cm2							
					ø5		11,779
					ø12		13,949
					Total		25,728



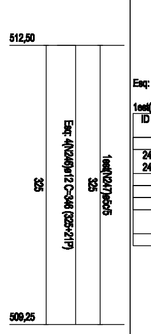
Pilar P003
CONC 20x40
L=325 B=30 la=21



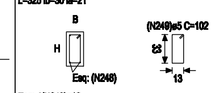
Esc: 4(N147)ø12

1xest(N147)ø5c/5

ID	QL	Diâm.	Comprimento unitário (cm) P.C. Reto	P.C. Total	Emb	Total (cm)	(kg)
Pilares							Aço CA-50 N 5088 Kg/cm2
246	4	ø12	325	21	340	1354	12,001
247	4	ø5			160	6732	10,706
						total+10,0%	25,728
Total+10,0% (kg)							
Aço CA-50 N 5088 Kg/cm2							
					ø5		11,779
					ø12		13,949
					Total		25,728



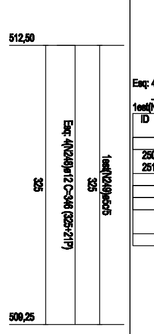
Pilar P004
CONC 20x40
L=325 B=30 la=21



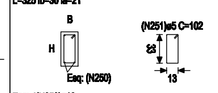
Esc: 4(N249)ø12

1xest(N249)ø5c/5

ID	QL	Diâm.	Comprimento unitário (cm) P.C. Reto	P.C. Total	Emb	Total (cm)	(kg)
Pilares							Aço CA-50 N 5088 Kg/cm2
248	4	ø12	325	21	340	1354	12,001
249	4	ø5			160	6732	10,706
						total+10,0%	25,728
Total+10,0% (kg)							
Aço CA-50 N 5088 Kg/cm2							
					ø5		11,779
					ø12		13,949
					Total		25,728



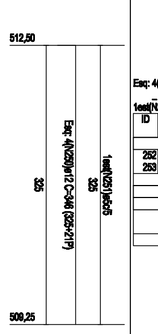
Pilar P005
CONC 20x40
L=325 B=30 la=21



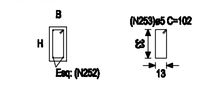
Esc: 4(N251)ø12

1xest(N251)ø5c/5

ID	QL	Diâm.	Comprimento unitário (cm) P.C. Reto	P.C. Total	Emb	Total (cm)	(kg)
Pilares							Aço CA-50 N 5088 Kg/cm2
250	4	ø12	325	21	340	1354	12,001
251	4	ø5			160	6732	10,706
						total+10,0%	25,728
Total+10,0% (kg)							
Aço CA-50 N 5088 Kg/cm2							
					ø5		11,779
					ø12		13,949
					Total		25,728



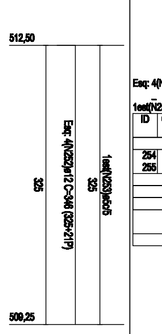
Pilar P006
CONC 20x40
L=325 B=30 la=21



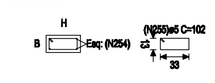
Esc: 4(N252)ø12

1xest(N252)ø5c/5

ID	QL	Diâm.	Comprimento unitário (cm) P.C. Reto	P.C. Total	Emb	Total (cm)	(kg)
Pilares							Aço CA-50 N 5088 Kg/cm2
252	4	ø12	325	21	340	1354	12,001
253	4	ø5			160	6732	10,706
						total+10,0%	25,728
Total+10,0% (kg)							
Aço CA-50 N 5088 Kg/cm2							
					ø5		11,779
					ø12		13,949
					Total		25,728



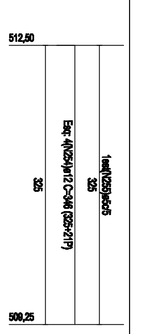
Pilar P007
CONC 20x40
L=325 B=30 la=21



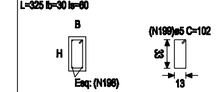
Esc: 4(N255)ø12

1xest(N255)ø5c/5

ID	QL	Diâm.	Comprimento unitário (cm) P.C. Reto	P.C. Total	Emb	Total (cm)	(kg)
Pilares							Aço CA-50 N 5088 Kg/cm2
254	4	ø12	325	21	340	1354	12,001
255	4	ø5			160	6732	10,706
						total+10,0%	25,728
Total+10,0% (kg)							
Aço CA-50 N 5088 Kg/cm2							
					ø5		11,779
					ø12		13,949
					Total		25,728



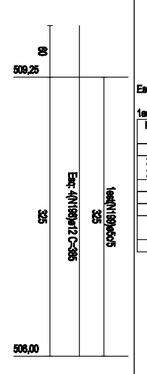
Pilar P001
CONC 20x40
L=325 B=30 la=60



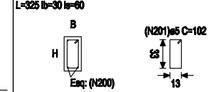
Esc: 4(N199)ø12

1xest(N199)ø5c/5

ID	QL	Diâm.	Comprimento unitário (cm) P.C. Reto	P.C. Total	Emb	Total (cm)	(kg)
Pilares							Aço CA-50 N 5088 Kg/cm2
198	4	ø12	325		340	1340	14,110
199	4	ø5			160	6732	10,706
						Total+10,0%	27,300
Total+10,0% (kg)							
Aço CA-50 N 5088 Kg/cm2							
					ø5		11,779
					ø12		15,521
					Total		27,300



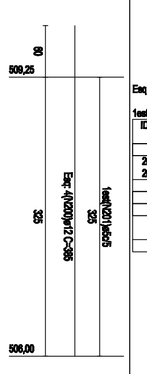
Pilar P002
CONC 20x40
L=325 B=30 la=60



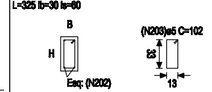
Esc: 4(N200)ø12

1xest(N201)ø5c/5

ID	QL	Diâm.	Comprimento unitário (cm) P.C. Reto	P.C. Total	Emb	Total (cm)	(kg)
Pilares							Aço CA-50 N 5088 Kg/cm2
200	4	ø12	325		340	1340	14,110
201	4	ø5			160	6732	10,706
						Total+10,0%	27,300
Total+10,0% (kg)							
Aço CA-50 N 5088 Kg/cm2							
					ø5		11,779
					ø12		15,521
					Total		27,300



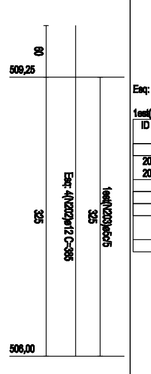
Pilar P003
CONC 20x40
L=325 B=30 la=60



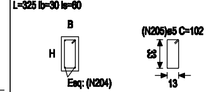
Esc: 4(N202)ø12

1xest(N203)ø5c/5

ID	QL	Diâm.	Comprimento unitário (cm) P.C. Reto	P.C. Total	Emb	Total (cm)	(kg)
Pilares							Aço CA-50 N 5088 Kg/cm2
202	4	ø12	325		340	1340	14,110
203	4	ø5			160	6732	10,706
						Total+10,0%	27,300
Total+10,0% (kg)							
Aço CA-50 N 5088 Kg/cm2							
					ø5		11,779
					ø12		15,521
					Total		27,300



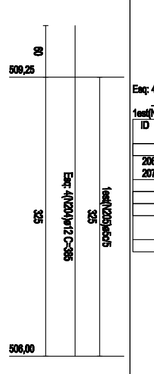
Pilar P004
CONC 20x40
L=325 B=30 la=60



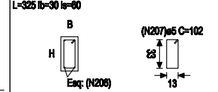
Esc: 4(N204)ø12

1xest(N205)ø5c/5

ID	QL	Diâm.	Comprimento unitário (cm) P.C. Reto	P.C. Total	Emb	Total (cm)	(kg)
Pilares							Aço CA-50 N 5088 Kg/cm2
204	4	ø12	325		340	1340	14,110
205	4	ø5			160	6732	10,706
						Total+10,0%	27,300
Total+10,0% (kg)							
Aço CA-50 N 5088 Kg/cm2							
					ø5		11,779
					ø12		15,521
					Total		27,300



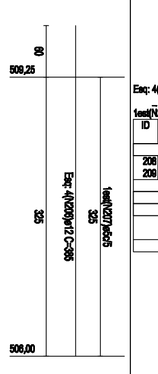
Pilar P005
CONC 20x40
L=325 B=30 la=60



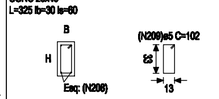
Esc: 4(N206)ø12

1xest(N207)ø5c/5

ID	QL	Diâm.	Comprimento unitário (cm) P.C. Reto	P.C. Total	Emb	Total (cm)	(kg)
Pilares							Aço CA-50 N 5088 Kg/cm2
206	4	ø12	325		340	1340	14,110
207	4	ø5			160	6732	10,706
						Total+10,0%	27,300
Total+10,0% (kg)							
Aço CA-50 N 5088 Kg/cm2							
					ø5		11,779
					ø12		15,521
					Total		27,300



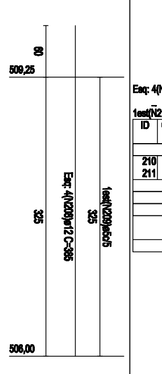
Pilar P006
CONC 20x40
L=325 B=30 la=60



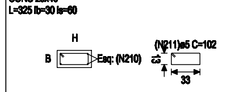
Esc: 4(N208)ø12

1xest(N209)ø5c/5

ID	QL	Diâm.	Comprimento unitário (cm) P.C. Reto	P.C. Total	Emb	Total (cm)	(kg)
Pilares							Aço CA-50 N 5088 Kg/cm2
208	4	ø12	325		340	1340	14,110
209	4	ø5			160	6732	10,706
						Total+10,0%	27,300
Total+10,0% (kg)							
Aço CA-50 N 5088 Kg/cm2							
					ø5		11,779
					ø12		15,521
					Total		27,300



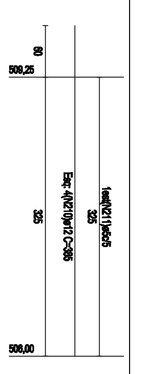
Pilar P007
CONC 20x40
L=325 B=30 la=60



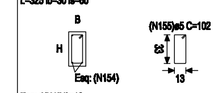
Esc: 4(N210)ø12

1xest(N211)ø5c/5

ID	QL	Diâm.	Comprimento unitário (cm) P.C. Reto	P.C. Total	Emb	Total (cm)	(kg)
Pilares							Aço CA-50 N 5088 Kg/cm2
210	4	ø12	325		340	1340	14,110
211	4	ø5			160	6732	10,706
						Total+10,0%	27,300
Total+10,0% (kg)							
Aço CA-50 N 5088 Kg/cm2							
					ø5		11,779
					ø12		15,521
					Total		27,300



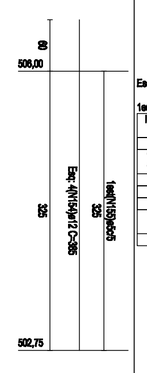
Pilar P001
CONC 20x40
L=325 B=30 la=60



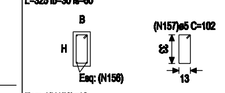
Esc: 4(N154)ø12

1xest(N154)ø5c/5

ID	QL	Diâm.	Comprimento unitário (cm) P.C. Reto	P.C. Total	Emb	Total (cm)	(kg)
Pilares							Aço CA-50 N 5088 Kg/cm2
154	4	ø12	325		340	1340	14,110
155	4	ø5			160	6732	10,706
						Total+10,0%	27,300
Total+10,0% (kg)							
Aço CA-50 N 5088 Kg/cm2							
					ø5		11,779
					ø12		15,521
					Total		27,300



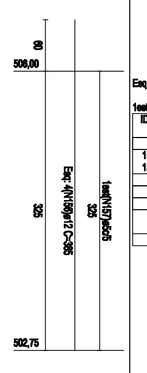
Pilar P002
CONC 20x40
L=325 B=30 la=60



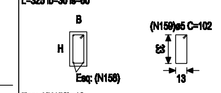
Esc: 4(N156)ø12

1xest(N157)ø5c/5

ID	QL	Diâm.	Comprimento unitário (cm) P.C. Reto	P.C. Total	Emb	Total (cm)	(kg)
Pilares							Aço CA-50 N 5088 Kg/cm2
156	4	ø12	325		340	1340	14,110
157	4	ø5			160	6732	10,706
						Total+10,0%	27,300
Total+10,0% (kg)							
Aço CA-50 N 5088 Kg/cm2							
					ø5		11,779
					ø12		15,521
					Total		27,300



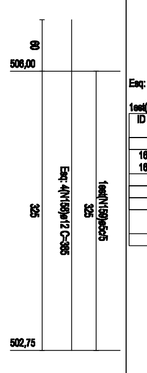
Pilar P003
CONC 20x40
L=325 B=30 la=60



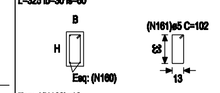
Esc: 4(N158)ø12

1xest(N159)ø5c/5

ID	QL	Diâm.	Comprimento unitário (cm) P.C. Reto	P.C. Total	Emb	Total (cm)	(kg)
Pilares							Aço CA-50 N 5088 Kg/cm2
158	4	ø12	325		340	1340	14,110
159	4	ø5			160	6732	10,706
						Total+10,0%	27,300
Total+10,0% (kg)							
Aço CA-50 N 5088 Kg/cm2							
					ø5		11,779
					ø12		15,521
					Total		27,300



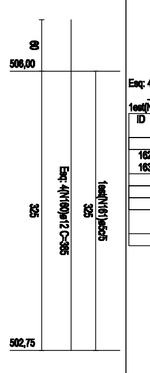
Pilar P004
CONC 20x40
L=325 B=30 la=60



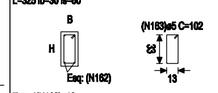
Esc: 4(N160)ø12

1xest(N161)ø5c/5

ID	QL	Diâm.	Comprimento unitário (cm) P.C. Reto	P.C. Total	Emb	Total (cm)	(kg)
Pilares							Aço CA-50 N 5088 Kg/cm2
160	4	ø12	325		340	1340	14,110
161	4	ø5			160	6732	10,706
						Total+10,0%	27,300
Total+10,0% (kg)							
Aço CA-50 N 5088 Kg/cm2							
					ø5		11,779
					ø12		15,521
					Total		27,300



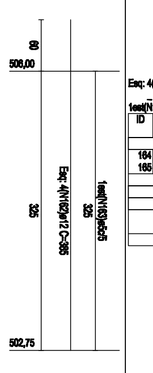
Pilar P005
CONC 20x40
L=325 B=30 la=60



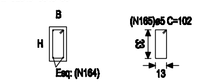
Esc: 4(N162)ø12

1xest(N163)ø5c/5

ID	QL	Diâm.	Comprimento unitário (cm) P.C. Reto	P.C. Total	Emb	Total (cm)	(kg)
Pilares							Aço CA-50 N 5088 Kg/cm2
162	4	ø12	325		340	1340	14,110
163	4	ø5			160	6732	10,706
						Total+10,0%	27,300
Total+10,0% (kg)							
Aço CA-50 N 5088 Kg/cm2							
					ø5		11,779
					ø12		15,521
					Total		27,300



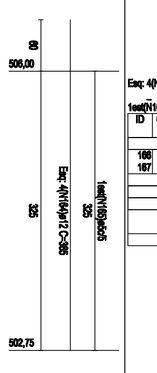
Pilar P006
CONC 20x40
L=325 B=30 la=60



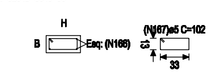
Esc: 4(N164)ø12

1xest(N165)ø5c/5

ID	QL	Diâm.	Comprimento unitário (cm) P.C. Reto	P.C. Total	Emb	Total (cm)	(kg)
Pilares							Aço CA-50 N 5088 Kg/cm2
164	4	ø12	325		340	1340	14,110
165	4	ø5			160	6732	10,706
						Total+10,0%	27,300
Total+10,0% (kg)							
Aço CA-50 N 5088 Kg/cm2							
					ø5		11,779
					ø12		15,521
					Total		27,300



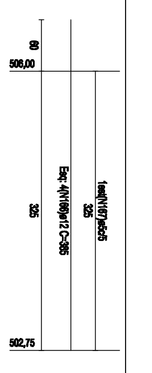
Pilar P007
CONC 20x40
L=325 B=30 la=60



Esc: 4(N166)ø12

1xest(N167)ø5c/5

ID	QL	Diâm.	Comprimento unitário (cm) P.C. Reto	P.C. Total	Emb	Total (cm)	(kg)
Pilares							Aço CA-50 N 5088 Kg/cm2
166	4	ø12	325		340	1340	14,110
167	4	ø5			160	6732	10,706
						Total+10,0%	27,300
Total+10,0% (kg)							
Aço CA-50 N 5088 Kg/cm2							
					ø5		11,779
					ø12		15,521
					Total		27,300



NOTAS

1 – DIMENSÕES EM CENTÍMETROS, ELEVAÇÕES EM METROS, EXCETO ONDE INDICADO

2 – LEGENDA DOS PILARES
☒ PILAR – NASCE
☒ PILAR – SEGUE
☒ PILAR – MORRE

3 – CONCRETO fCK 30MPA
Alturas e cotas em cm Cobrimento 35 mm

00	INICIAL	09/01/12	
REVISÃO	DETALHADOS	DATA	VISTO

GELFUS
GERENCIAMENTO, PROJETOS E ASSESSORIA DE OBRAS
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OBRA :
CONSTRUÇÃO DE EDIFÍCIOS ADMINISTRATIVO
NA CÂMARA MUNICIPAL DE LIMEIRA

CLIENTE :
CÂMARA MUNICIPAL DE LIMEIRA

DETALHADOS :
DETALHES DAS ARMADURAS
PILARES

PROJ. TÉCNICO: ARGAINO	DATA: 09 / 01 / 2012	PROJETO: ESTRUTURAL
ESCALAS: 1 : 50	REVISÃO: 00	FOLHA: 16 / 36
DESENHISTA: LÍVIA GOUVEIA	ARQUIVO: 132-D-556-16-003_1	

ESTE PROJETO É PROPRIEDADE INTELECTUAL DE SEUS AUTORES, PODENDO SER UTILIZADO SOMENTE DE ACORDO COM OS LIMITES CONTRATUAIS. PORTANTO É VETADA SUA UTILIZAÇÃO EM PARTE OU NO TODO SEM EXPRESSA AUTORIZAÇÃO DOS MESMOS.

DESENHO ELABORADO EM ZWCAD