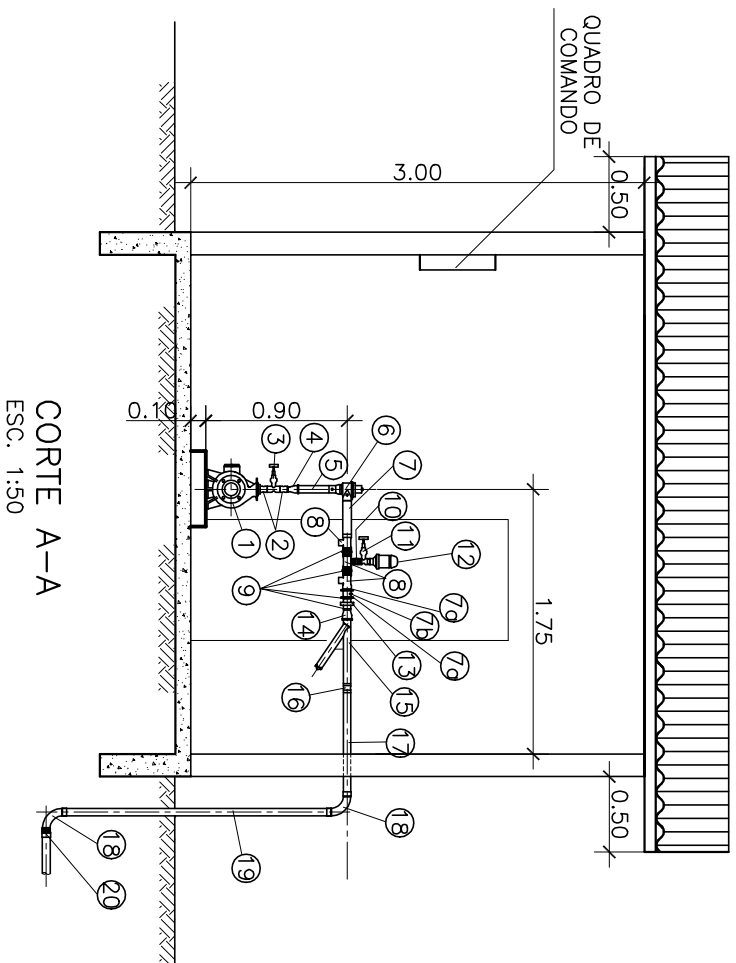
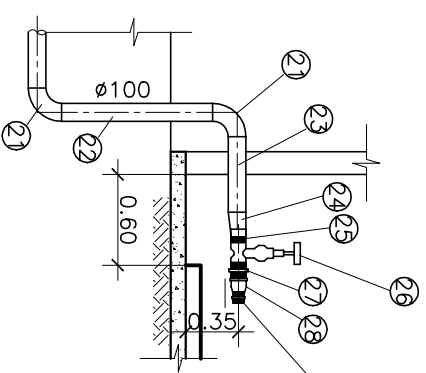


ELEVATÓRIA DN 50mm  
PLANTA  
ESC. 1:50



CORTE A-A  
ESC. 1:50



DETALHE DA SUÇÃO  
ESC. 1:50

### ESTÇÃO DE BOMBAMENTO TIPO I PARA LOTES COM Q= ATE 30 m³/h COM TOMADA EM CANAL

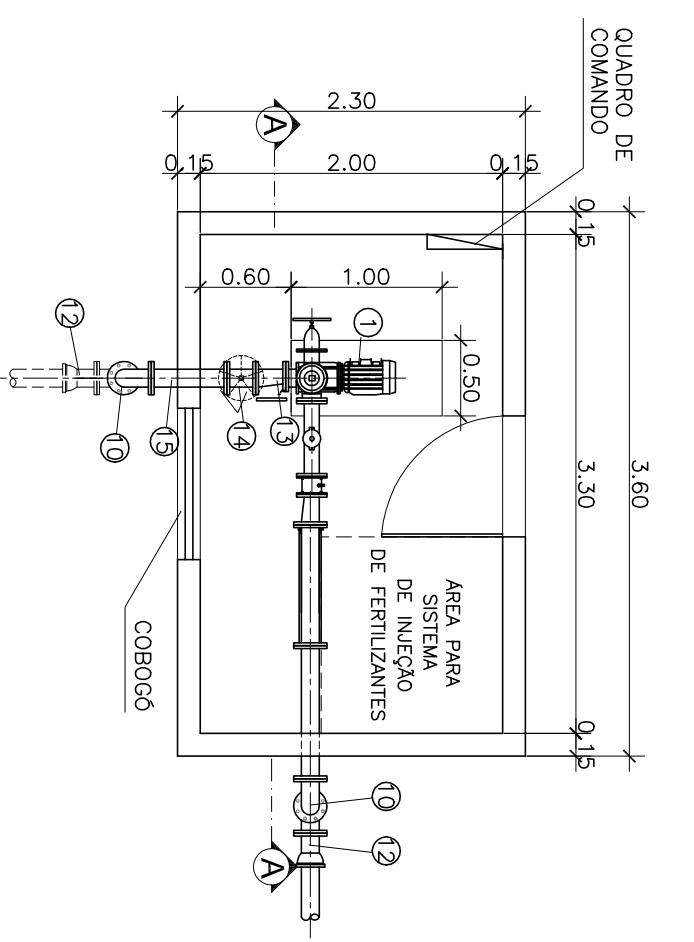
#### LISTA DE MATERIAL

ITEM	DESCRIÇÃO	UNID.	QUANT.
1	MOTOBOMBA CENTRÍFUGA, VAZÃO 20 a 40 m³/h, ALT. 40 mca	PQ	1
2	NÍPJE DUPLO, FVG, DN 1 1/2"	PQ	2
3	REGISTRO DE GAVETA, FVG, DN 1 1/2"	PQ	1
4	LUVA DE REDUÇÃO, FVG, DN 1 1/2x2"	PQ	1
5	TUBO ROSCAREL, FVG, L=0,20m, DN 2"	PQ	1
6	VALVULA LIMITADORA DE VAZÃO C/ HIPEROMETRO, DN 2", C/ ROSCAS FINEA	PQ	1
7	TUBO ROSCAREL, FVG, L=0,27m, DN 2"	PQ	1
7a	FLANGE COM SETXAMADO, FVG, DN 2"	PQ	2
7b	VALVULA DE RETENÇÃO DE PORTINHOCA DUPLA DN 2"	PQ	1
8	TE DE REDUÇÃO, FVG, DN 2x1 1/4"	PQ	3
9	NÍPJE DUPLO, FVG, DN 2"	PQ	4
10	NÍPJE DUPLO DE REDUÇÃO, FVG, DN 1 1/4x3/4"	PQ	1
11	REGISTRO DE GAVETA, FVG, DN 3/4"	PQ	1
12	VENTOSA DE TRÍPLICE FUNÇÃO ROSCAREL, DN 3/4"	PQ	1
13	UNIAO COM ASSENTO CONICO FINEA, FVG, DN 2"	PQ	1
14	LUVA DE REDUÇÃO, FVG, DN 3x2"	PQ	1
15	FILTRO METALICO DN 3", C/ ROSCAS	PQ	2
16	LUVA , FVG, DN 3"	PQ	1
17	TUBO ROSCAREL, FVG, L=0,25m, DN 3"	PQ	1
18	CURVA 90°, FVG, DN3"	PQ	2
19	TUBO ROSCAREL, FVG, L=1,75m, DN 3"	PQ	1
20	ADAPTADOR PARAF, DN 75mm	PQ	1
21	CURVA 90°, PVC, DN 75mm	PQ	2
22	TUBO DE PVC COM FORTES, DN 100mm, L=1,00m	PQ	1
23	TUBO DE PVC COM FORTES, DN 100mm, L=0,50m	PQ	1
24	REDUÇÃO PVC, DN 100x75mm	PQ	1
25	ADAPTADOR BOLSA SOLDAELAROSCA MACIO DN 75mm	PQ	1
26	REGISTRO DE GAVETA, ROSCAREL, BRONZE, DN 75mm	PQ	1
27	NÍPJE DUPLO ROSCAREL, FVG, DN 75mm	PQ	1
28	LUVA DE REDUÇÃO, FVG, DN 3x2 1/2"	PQ	1
29	NÍPJE DUPLO, FVG, DN 2 1/2"	PQ	1

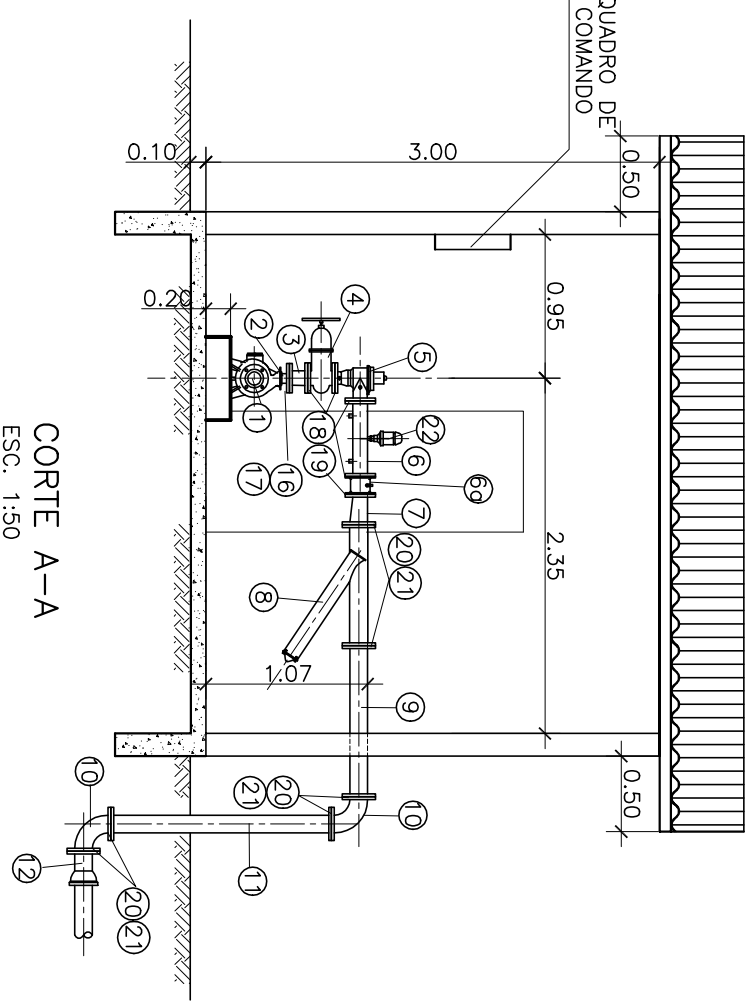
ESC. PLANT. 1:11
SERIEADA
COM PEN. MONTA
1 7 0,10
2 7 0,20
3 7 0,30
4 7 0,40
5 7 0,50
6 7 0,60
7 7 0,20
8 7 0,10
290 290 0,20
291 291 0,20
292 292 0,20
293 293 0,20
294 294 0,20

ARQUIVO: 1309A-D-ONF-HID-01-00.DWG

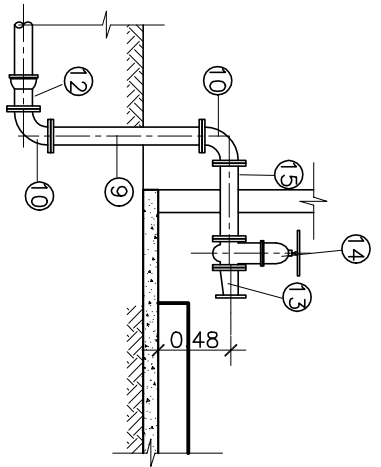
CONSÓRCIO CONBEC-MAGNA  
RUA TEÓFILO OTONI, 82/ 5º - CENTRO - RJ  
TEL. 0XX21-2516-1727  
e-mail:magnaeng@rio.com.br



ELEVATÓRIA DN 75mm  
PLANTA  
ESC. 1:50



CORTE A-A  
ESC. 1:50

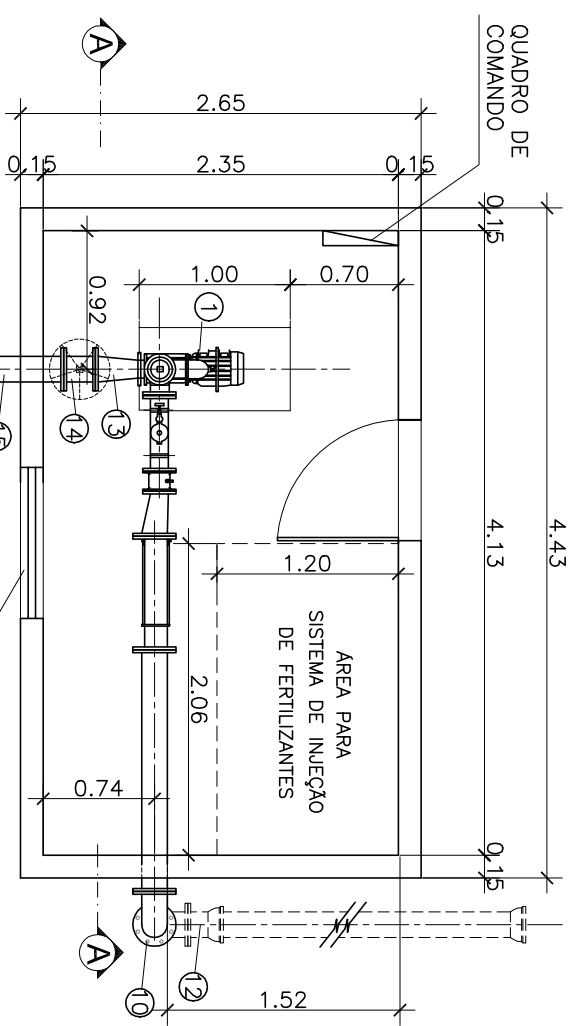


DETALHE DA SUÇÃO  
ESC. 1:50

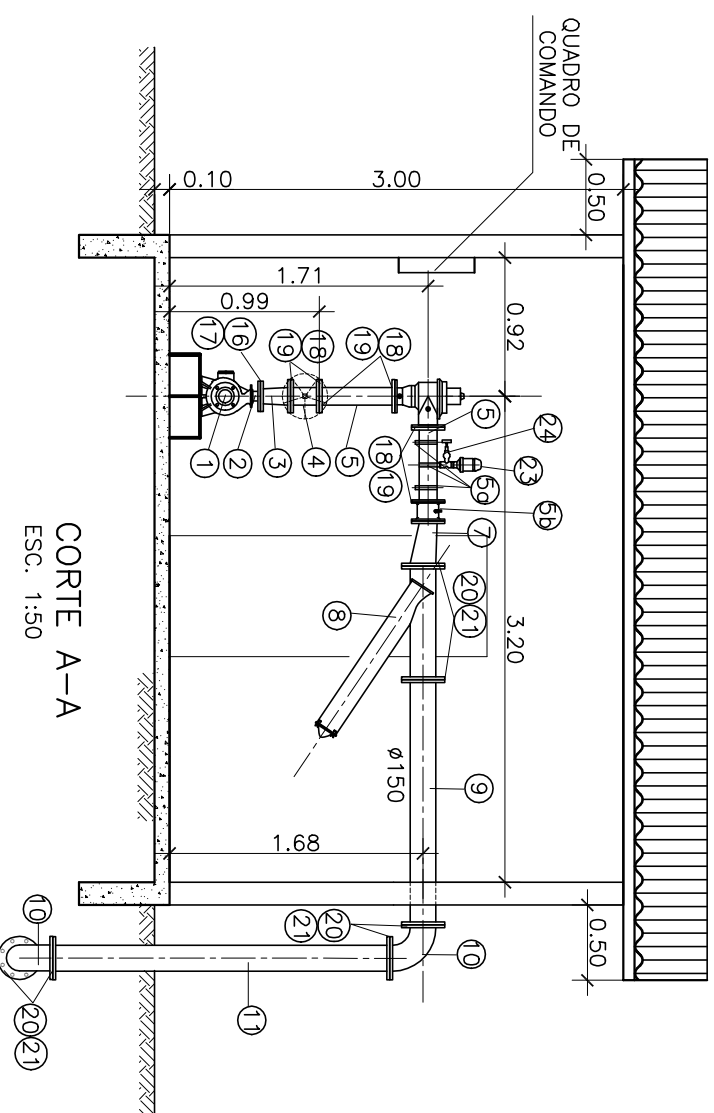
### ESTÇÃO DE BOMBAMENTO TIPO II PARA LOTES COM Q= 30 a 70m³/h COM TOMADA EM CANAL

#### LISTA DE MATERIAL

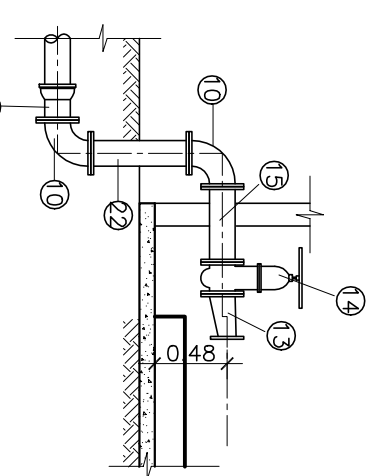
ITEM	DESCRIÇÃO	UNID.	QUANT.
1	MOTOBOMBA CENTRÍFUGA, VAZÃO 40 a 80 m³/h, ALT. 40 mca	PQ	1
2	FLANGE COM SETXAMADO, DN 50mm	PQ	1
3	REDUÇÃO CONCENTRICA COM FLANGES, FVG, PN 10, DN 75x50mm	PQ	1
4	REGISTRO CHATO DE GAVETA COM VOLANTE, COM FLANGES, FVG, PN 10, DN 100mm	PQ	1
5	VALVULA LIMITADORA DE VAZÃO C/ HIPEROMETRO, DN 75mm, COM FLANGES	PQ	1
6	PEÇA ESPECIA EM AÇO C/ FLANGES E COM 3 SAÍDAS DE 1" C/ ROSCAS	PQ	1
6a	VALVULA DE RETENÇÃO DE PORTINHOCA DUPLA DN 75mm	PQ	1
7	REDUÇÃO EXCÊNTRICA COM FLANGES, FVG, PN 10, DN 100x75mm	PQ	1
8	FILTRO METALICO COM FLANGES DN 100mm	PQ	1
9	TUBO COM FLANGES, FVG, PN 10, L=1,00m, DN 100mm	PQ	2
10	CURVA 90°, COM FLANGES, FVG, PN 10, DN 100mm	PQ	4
11	TUBO COM FLANGES, FVG, PN 10, L=1,46m, DN 100mm	PQ	1
12	EXTREMIDADE, FLANGE/BOLSA, FVG, PN 10, DN 100mm	PQ	2
13	REDUÇÃO CONCENTRICA COM FLANGES, FVG, PN 10, DN 100x75mm	PQ	1
14	REGISTRO CHATO DE GAVETA COM VOLANTE, COM FLANGES, FVG, PN 10, DN 100mm	PQ	1
15	TUBO COM FLANGES, FVG, PN 10, L=0,50m, DN 100mm	PQ	1
16	JUNTA DE BORRACHA PARA FLANGES, PN 10, DN 50mm	PQ	1
17	PARAFUSO PARA FLANGE, PN 10, DN 50mm	PQ	4
18	JUNTA DE BORRACHA PARA FLANGES, PN 10, DN 75mm	PQ	6
19	PARAFUSO PARA FLANGE, PN 10, DN 75mm	PQ	48
20	JUNTA DE BORRACHA PARA FLANGES, PN 10, DN 100mm	PQ	12
21	PARAFUSO PARA FLANGE, PN 10, DN 100mm	PQ	96
22	VENTOSA DE TRÍPLICE FUNÇÃO ROSCAREL, DN 1"	PQ	1



ELEVATÓRIA DN 100mm  
PLANTA  
ESC. 1:50



CORTE A-A  
ESC. 1:50



DETALHE DA SUÇÃO  
ESC. 1:50

### ESTÇÃO DE BOMBAMENTO TIPO III PARA LOTES COM Q= 70 a 120m³/h COM TOMADA EM CANAL

#### LISTA DE MATERIAL

ITEM	DESCRIÇÃO	UNID.	QUANT.
1	MOTOBOMBA CENTRÍFUGA, VAZÃO 80 a 50 m³/h, ALT. 40 mca	PQ	1
2	FLANGE COM SETXAMADO, DN 75mm	PQ	1
3	REDUÇÃO CONCENTRICA COM FLANGES, FVG, PN 10, DN 100x75mm	PQ	1
4	REGISTRO CHATO DE GAVETA COM VOLANTE, COM FLANGES, FVG, PN 10, DN 100mm	PQ	1
5	TOCO, COM FLANGES, FVG, PN 10, L=50m, DN 100mm	PQ	2
5a	COLAR DE TOMADA, DN 100x1"	PQ	3
5b	VALVULA DE RETENÇÃO DE PORTINHOCA DUPLA DN 75mm	PQ	1
6	VALVULA LIMITADORA DE VAZÃO C/ HIPEROMETRO, DN 75mm, COM FLANGES	PQ	1
7	REDUÇÃO EXCÊNTRICA COM FLANGES, FVG, PN 10, DN 150x100mm	PQ	1
8	FILTRO METALICO COM FLANGES DN 150mm	PQ	1
9	TUBO COM FLANGES, FVG, PN 10, L=1,62m, DN 150mm	PQ	1
10	CURVA 90°, COM FLANGES, FVG, PN 10, DN 150mm	PQ	4
11	TUBO COM FLANGES, FVG, PN 10, L=2,20m, DN 150mm	PQ	1
12	EXTREMIDADE, FLANGE/BOLSA, FVG, PN 10, DN 150mm	PQ	2
13	REDUÇÃO CONCENTRICA COM FLANGES, FVG, PN 10, DN 150x100mm	PQ	1
14	REGISTRO CHATO DE GAVETA COM VOLANTE, COM FLANGES, FVG, PN 10, DN 150mm	PQ	1
15	TUBO COM FLANGES, FVG, PN 10, L=0,50m, DN 150mm	PQ	1
16	JUNTA DE BORRACHA PARA FLANGES, PN 10, DN 75mm	PQ	1
17	PARAFUSO PARA FLANGE, PN 10, DN 75mm	PQ	8
18	JUNTA DE BORRACHA PARA FLANGES, PN 10, DN 100mm	PQ	6
19	PARAFUSO PARA FLANGE, PN 10, DN 100mm	PQ	48
20	JUNTA DE BORRACHA PARA FLANGES, PN 10, DN 150mm	PQ	12
21	PARAFUSO PARA FLANGE, PN 10, DN 150mm	PQ	96
22	TUBO COM FLANGES, FVG, PN 10, L=0,65m, DN 150mm	PQ	1
23	VENTOSA DE TRÍPLICE FUNÇÃO ROSCAREL, DN 1"	PQ	1
24	REGISTRO DE GAVETA, ROSCAREL, BRONZE, DN 75mm	PQ	1

Sector 1		
Lotes	TIPO DE EBA	MOTOBOMBAS
L0-01	III	4x2x8
L0-10	III	4x2x6
L0-13	III	3x2x6
L0-14	III	3x2x6
L0-15	III	3x2x6
L0-16	III	3x2x6
L0-17	III	3x2x6
L0-18	III	3x2x6
L0-19	III	4x2x6
L0-20	III	3x2x6
L0-21	III	3x2x6
L0-22	III	3x2x6
L0-23	I	2,1x2,1x2,2x0
L0-24	III	3x2x0
L0-25	III	3x2x6
L0-26	III	3x2x6
L0-27	III	3x2x6
L0-28	III	4x2x6
L0-29	III	4x2x6
L0-30	III	4x2x6
L0-31	III	4x2x6
Sector 1		
L1-01	III	4x2x6
L1-02	III	4x2x6
L1-03	III	4x2x6
L1-04	III	4x2x6
L1-05	III	4x2x6
L1-07	III	3x2x6
L1-09	III	3x2x6
L1-10	III	3x2x6
L1-11	I	2,1x1,1x2,0x5
L1-12	III	3x2x6
L1-13	III	4x2x6
Sector 2		
L2-01	III	4x2x8
L2-02	III	4x2x6
L2-03	III	4x2x6
L2-04	III	4x2x6
L2-05	III	4x2x6
L2-06	III	4x2x6
L2-07	III	4x2x6
L2-08	III	4x2x6
L2-09	III	4x2x6
L2-10	III	4x2x6
L2-11	III	4x2x6
L2-12	III	4x2x6
L2-13	I	2,1x2,1x2,2 x 0
Sector 3		
L3-01	III	4x2x6
L3-02	III	4x2x6
L3-03	III	4x2x6
L3-04	III	6,9x4,1x3
L3-05	III	4x2x6
L3-06	III	4x2x6
L3-07	III	4x2x6
L3-08	III	4x2x6
L3-09	III	4x2x6
L3-10	III	4x2x6
L3-11	III	4x2x6
L3-12	III	4x2x6
L3-13	III	4x2x6
L3-14	III	4x2x6
L3-15	III	4x2x6
L3-16	III	4x2x6
L3-17	III	4x2x6
L3-18	III	4x2x6
L3-19	III	4x2x6
L3-20	III	4x2x6
L3-21	III	4x2x6
L3-22	III	4x2x6
L3-23	III	4x2x6
L3-24	III	4x2x6
L3-25	III	4x2x6
L3-26	III	4x2x6
L3-27	III	4x2x6
L3-28	III	4x2x6
L3-29	III	4x2x6
L3-30	III	4x2x6
L3-31	III	4x2x6
L3-32	III	4x2x6
L3-33	III	4x2x6
L3-34	III	4x2x6
L3-35	III	4x2x6
L3-36	III	4x2x6
L3-37	III	4x2x6
L3-38	III	4x2x6
L3-39	III	4x2x6
L3-40	III	4x2x6
L3-41	III	4x2x6
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L3-43	III	4x2x6
L3-44	III	4x2x6
L3-45	III	4x2x6
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L3-48	III	4x2x6
L3-49	III	4x2x6
L3-50	III	4x2x6
L3-51	III	4x2x6
L3-52	III	4x2x6
L3-53	III	4x2x6
L3-54	III	4x2x6
L3-55	III	4x2x6
L3-56	III	4x2x6
L3-57	III	4x2x6
L3-58	III	4x2x6
L3-59	III	4x2x6
L3-60	III	4x2x6
L3-61	III	4x2x6
L3-62	III	4x2x6
L3-63	III	4x2x6
L3-64	III	4x2x6
L3-65	III	4x2x6
L3-66	III	4x2x6
L3-67	III	4x2x6
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L3-69	III	4x2x6
L3-70	III	4x2x6
L3-71	III	4x2x6
L3-72	III	4x2x6
L3-73	III	4x2x6
L3-74	III	4x2x6
L3-75	III	4x2x6
L3-76	III	4x2x6
L3-77	III	4x2x6
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L3-79	III	4x2x6
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L3-93	III	4x2x6
L3-94	III	4x2x6
L3-95	III	4x2x6
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L3-99	III	4x2x6
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L3-258	III	4x2x6
L3-259	III	4x2x6
L3-260	III	4x2x6
L3-261	III	4x2x6
L3-262	III	4x2x6
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L3-269	III	4x2x6
L3-270	III	4x2x6
L3-271	III	4x2x6
L3-272	III	4x2x6
L3-273	III	4x2x6
L3-274	III	4x2x6
L3-275	III	4x2x6
L3-276	III	4x2x6
L3-277	III	4x2x6
L3-278	III	4x2x6
L3-279	III	4x2x6
L3-280	III	4x2x6
L3-281	III	4x2x6
L3-282	III	4x2x6
L3-283	III	4x2x6
L3-284	III	4x2x6
L3-285	III	4x2x6
L3-286	III	4x2x6
L3-287	III	4x2x6
L3-288	III	4x2x6
L3-289	III	4x2x6
L3-290	III	4x2x6
L3-291	III	4x2x6
L3-292	III	4x2x6
L3-293	III	4x2x6
L3-294	III	4x2x6
L3-295	III	4x2x6
L3-296	III	4x2x6
L3-297	III	4x2x6
L3-298	III	4x2x6
L3-299	III	4x2x6
L3-300	III	4x2x6
L3-301	III	4x2x6
L3-302	III	4x2x6
L3-303	III	4x2x6
L3-304	III	4x2x6
L3-305	III	4x2x6
L3-306	III	4x2x6
L3-307	III	4x2x6
L3-308	III	4x2x6
L3-309	III	4x2x6
L3-310	III	4x2x6
L3-311	III	4x2x6
L3-312	III	4x2x6
L3-313	III	4x2x6
L3-314	III	4x2x6
L3-315	III	4x2x6
L3-316	III	4x2x6
L3-317	III	4x2x6
L3-318	III	4x2x6
L3-319	III	4x2x6
L3-320	III	4x2x6
L3-321	III	4x2x6
L3-322	III	4x2x6
L3-323	III	4x2x6
L3-324	III	4x2x6
L3-325	III	4x2x6
L3-326	III	4x2x6
L3-327	III	4x2x6
L3-328	III	4x2x6
L3-329	III	4x2x6
L3-330	III	4x2x6
L3-331	III	4x2x6
L3-332	III	4x2x6
L3-333	III	4x2x6
L3-334	III	4x2x6
L3-335	III	4x2x6
L3-336	III	4x2x6
L3-337	III	4x2x6
L3-338	III	4x2x6
L3-339	III	4x2x6
L3-340	III	4x2x6
L3-341	III	4x2x6
L3-342	III	4x2x6
L3-343	III	4x2x6
L3-344	III	4x2x6
L3-345	III	4x2x6
L3-346	III	4x2x6
L3-347	III	4x2x6
L3-348	III	4x2x6
L3-349	III	4x2x6
L3-350	III	4x2x6
L3-351	III	4x2x6
L3-352	III	4x2x6
L3-353	III	4x2x6
L3-354	III	4x2x6
L3-355	III	4x2x6
L3-356	III	4x2x6
L3-357	III	4x2x6
L3-358	III	4x2x6
L3-359	III	4x2x6
L3-360	III	4x2x6
L3-361	III	4x2x6
L3-362	III	4x2x6
L3-363	III	4x2x6
L3-364	III	4x2x6
L3-365	III	4x2x6
L3-366	III	4x2x6
L3-367	III	4x2x6
L3-368	III	4x2x6
L3-369	III	4