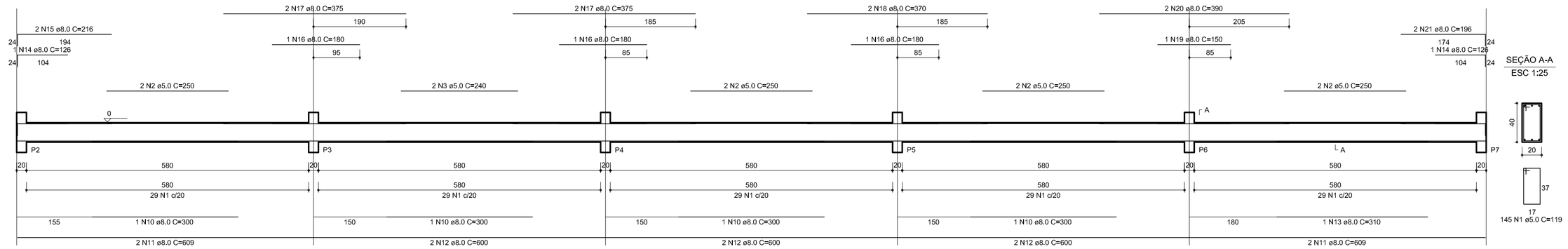
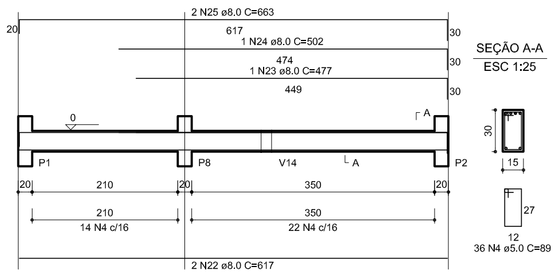
V1
1:50



V2
1:50



V12
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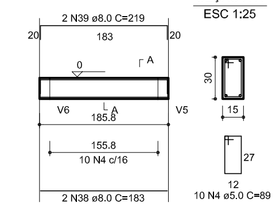

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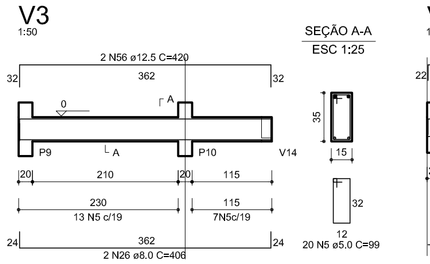

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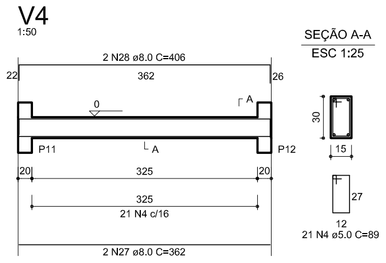

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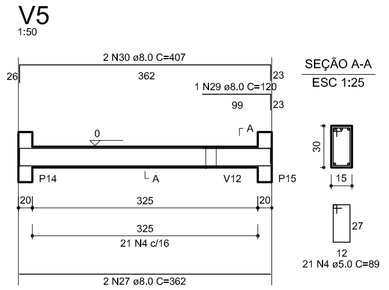
1:50



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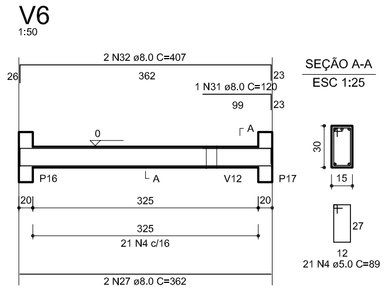

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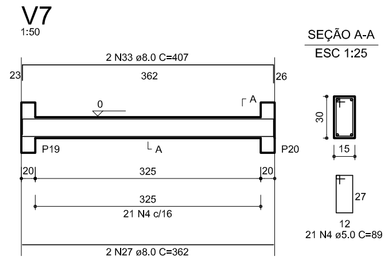
1:50



V8
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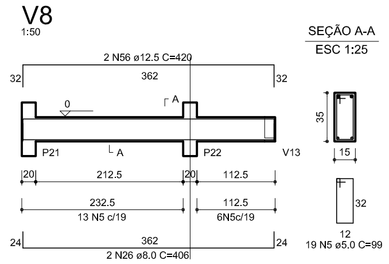
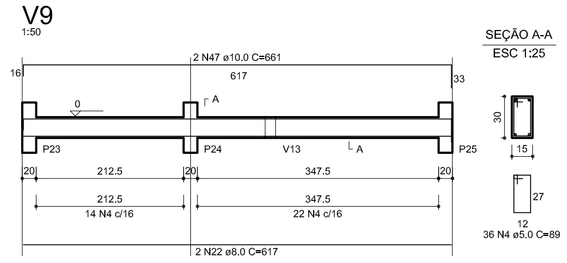


V9
1:50



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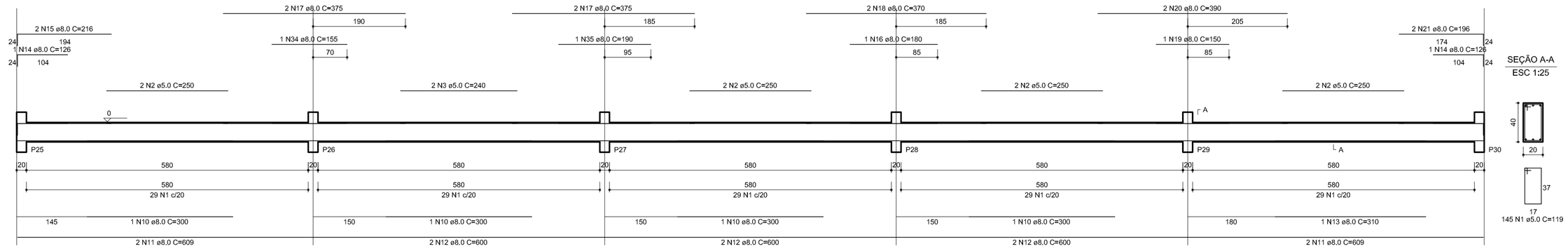

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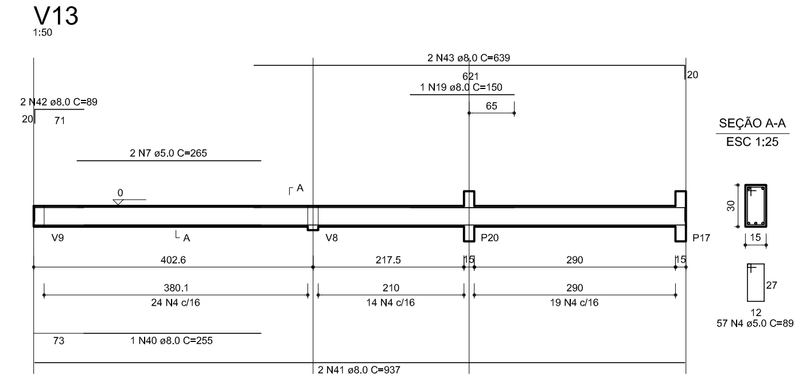

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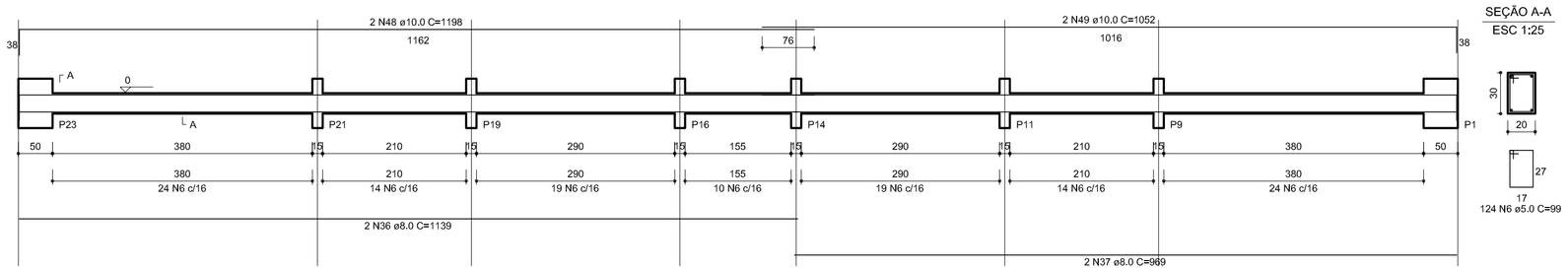

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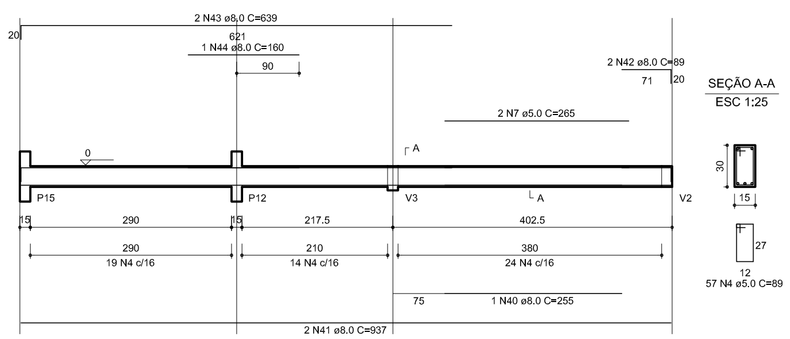
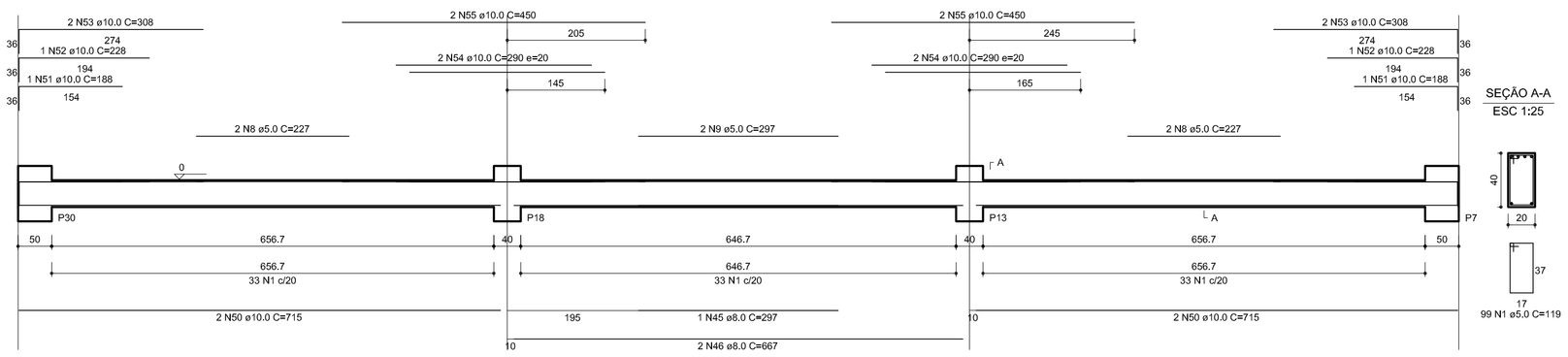
1:50



V15
1:50



RELAÇÃO DO AÇO

V1	V2	V3	
V4	V5	V6	
V7	V8	V9	
V10	V11	V12	
V13	V14	V15	

AÇO	N	DIAM	Q	UNIT (cm)	C.TOTAL (cm)
60	1	5.0	389	119	46291
	2	5.0	16	250	4000
	3	5.0	4	240	960
	4	5.0	280	89	24920
	5	5.0	39	99	3861
	6	5.0	124	99	12276
	7	5.0	4	265	1060
	8	5.0	4	227	908
	9	5.0	2	297	594
50	10	8.0	8	300	2400
	11	8.0	8	609	4872
	12	8.0	12	600	7200
	13	8.0	2	310	620
	14	8.0	4	126	504
	15	8.0	4	216	864
	16	8.0	4	180	720
	17	8.0	8	375	3000
	18	8.0	4	370	1480
	19	8.0	3	150	450
	20	8.0	4	390	1560
	21	8.0	4	196	784
	22	8.0	4	617	2468
	23	8.0	1	477	477
	24	8.0	1	502	502
	25	8.0	2	663	1326
	26	8.0	4	406	1624
	27	8.0	8	362	2896
	28	8.0	2	406	812
	29	8.0	1	120	120
	30	8.0	2	407	814
	31	8.0	1	120	120
	32	8.0	2	407	814
	33	8.0	2	407	814
	34	8.0	1	155	155
	35	8.0	1	190	190
	36	8.0	2	1139	2278
	37	8.0	2	969	1938
	38	8.0	2	183	366
	39	8.0	2	219	438
	40	8.0	2	255	510
	41	8.0	4	937	3748
	42	8.0	4	89	356
	43	8.0	4	639	2556
	44	8.0	1	160	160
	45	8.0	1	297	297
	46	8.0	2	667	1334
	47	10.0	2	661	1322
	48	10.0	2	1198	2396
	49	10.0	2	1052	2104
	50	10.0	4	715	2860
	51	10.0	2	188	376
	52	10.0	2	228	456
	53	10.0	4	308	1232
	54	10.0	4	290	1160
	55	10.0	4	450	1800
	56	12.5	4	420	1680

RESUMO DO AÇO

AÇO	DIAM	C.TOTAL (m)	PESO+10% (kg)
CA50	8.0	515.8	224.2
	10.0	137.0	93.0
	12.5	16.8	17.8
CA60	5.0	952.8	161.4
PESO TOTAL			
CA50	335.0		
CA60	161.4		

Vol. de concreto total =10.33 m³
Área de forma total = 140.59 m²

GOVERNO FEDERAL
BRASIL PAÍS RICO É PAÍS SEM POBREZA
Ministério da Educação
FNDE Fundo Nacional de Desenvolvimento da Educação

PROJETO PADRÃO - FNDE

MUNICÍPIO – UF: VICTOR GRAEFF - RS

PROPRIETÁRIO: MUNICÍPIO DE VICTOR GRAEFF

ENDEREÇO: Rua Fridholdo Fischer, esquina com a Av. 17 de Março

PROPRIETÁRIO Município de Victor Graeff

RESP. TÉCNICO Dirson Henrique Wentz — CREA
Engº Civil CREARS 86911

DLFO

CREA

RA

OBSERVAÇÕES:

QUADRA COBERTA

PROJETO ESTRUTURAL

COORDENAÇÃO: CGEST - Coordenação Geral de Infraestrutura Educacional

ESTRUTURA DE CONCRETO
VIGAS - NÍVEL 000

EST

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PRANCHA: 10/11