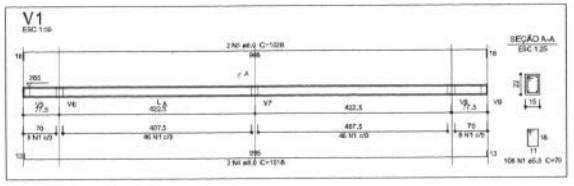
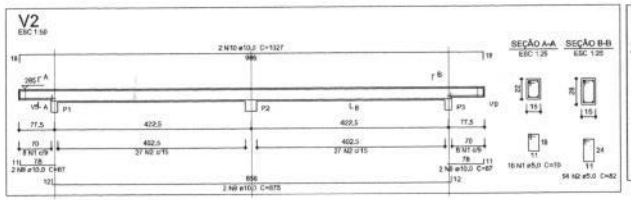
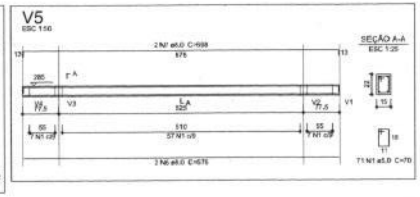






Relação do aço

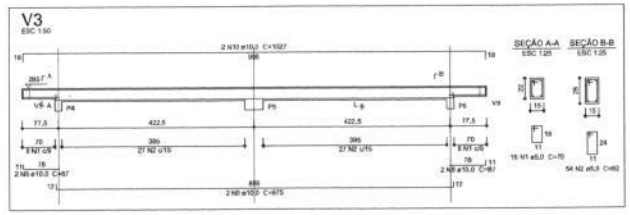
V1	V2	V3
V4	V5	V6
V7	V8	V9

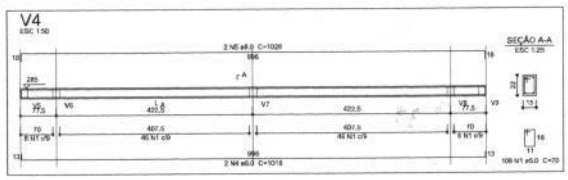
AÇO	N	DIAM (mm)	QUANT (Barras)	UNIT (cm)	C.TOTAL (cm)
CA60	1	5,0	436	70	30520
	2	5,0	174	82	14268
	3	5,0	24	106	2544
	4	8,0	4	1018	4072
	5	8,0	4	1028	4112
	6	8,0	4	676	2704
	7	8,0	4	698	2792
	8	10,0	20	87	1740
	9	10,0	4	875	3500
	10	10,0	4	1027	4108
	11	10,0	4	555	2220
	12	10,0	1	165	165
	13	10,0	1	170	170
	14	10,0	2	707	1414
	15	12,5	4	706	2824
	16	12,5	2	560	1120
	17	12,5	1	190	190
	18	12,5	1	150	150

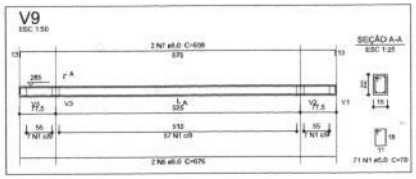
Resumo do aço

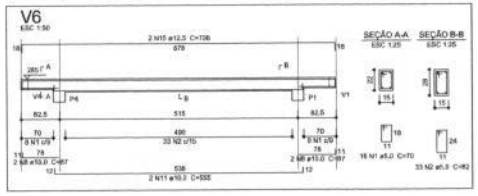
AÇO	DIAM (mm)	C.TOTAL (m)	PESO + 10 % (kg)
CA50	5,0	136,8	59,4
	10,0	133,2	90,3
	12,5	42,9	45,4
CA60	5,0	474,8	80,5
PESO TOTAL (kg)			
CA50	195,1		
CA60	80,5		

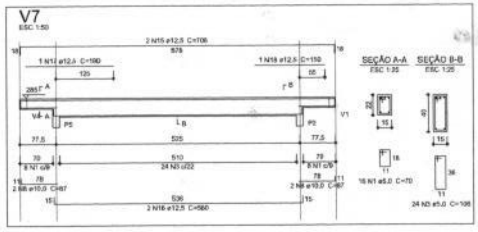
Volume de concreto (C-30) = 2,83 m³
Área de forma = 46,61 m²

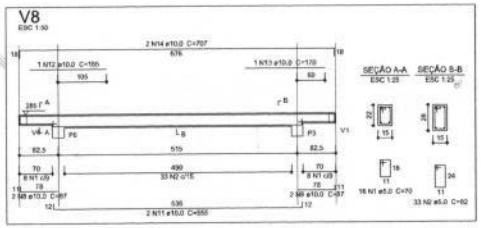












VIGAS do pavimento COBERTURA
escala 1:50

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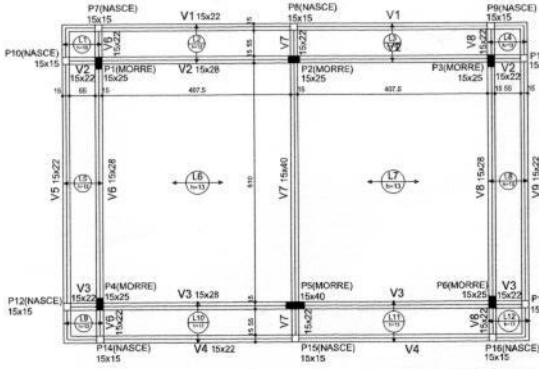
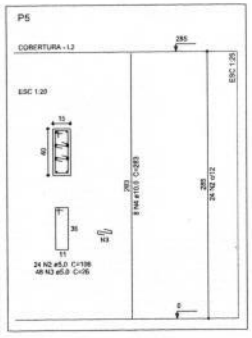


Forma do pavimento COBERTURA
escala 1:50

Vigas				
Nome	Seção (cm)	Elevação (cm)	Nível (cm)	
V1	15x22	0	285	
V2	15x22	0	285	
	15x28	0	285	
	15x22	0	285	
V3	15x22	0	285	
	15x28	0	285	
	15x22	0	285	
V4	15x22	0	285	
V5	15x22	0	285	
V6	15x22	0	285	
	15x28	0	285	
	15x22	0	285	
V7	15x22	0	285	
	15x40	0	285	
	15x22	0	285	
V8	15x22	0	285	
	15x28	0	285	
	15x22	0	285	
V9	15x22	0	285	

Lajes				
Nome	Tipo	Altura (cm)	Elevação (cm)	Nível (cm)
L1	Pré-moldada	13	0	285
L2	Pré-moldada	13	0	285
L3	Pré-moldada	13	0	285
L4	Pré-moldada	13	0	285
L5	Pré-moldada	13	0	285
L6	Pré-moldada	13	0	285
L7	Pré-moldada	13	0	285
L8	Pré-moldada	13	0	285
L9	Pré-moldada	13	0	285
L10	Pré-moldada	13	0	285
L11	Pré-moldada	13	0	285
L12	Pré-moldada	13	0	285

Cargas lineares nos materiais	
Kg (kg/(cm²))	Eva (kg/(cm²))
300	1600



Relação do aço

5xP1	P5				
AÇO	N	DIAM (mm)	QUANT (Barras)	UNIT (cm)	C.TOTAL (cm)
CA60	1	5,0	120	79	9120
	2	5,0	24	106	2544
	3	5,0	48	26	1248
	4	10,0	28	263	7364

Resumo do aço

AÇO	DIAM (mm)	C.TOTAL (m)	PESO + 10 % (kg)
CA50	10,0	79,3	53,7
CA60	5,0	120,2	21,9
PESO TOTAL (kg)			
CA50	53,7		
CA60	21,9		

Volume de concreto (C-30) = 0,71 m³
Área de forma = 14,54 m²

PILARES do pavimento COBERTURA
escala 1:50

PAVIMENTO COBERTURA

LAUXEN Engenharia
Tecnologia em Construções
RUA MÉRITO, nº 174, CENTRO, IBIRUBÁ - RS
CEP 98200-000 TEL: 54 3324 6500 / 54 911310047
Eng. Civil - Fabiano Lauxen
CREA - RS 107544-0

OBRA: CONSTRUÇÃO DE VESTIÁRIOS	LOCAL: Rua Canoas da esquina com a Estrada Municipal Quinze de Novembro - sede Aurora, Distrito de Sede aurora, Quinze de Novembro - RS
PROPRIETÁRIO: Prefeitura Municipal de Quinze de Novembro/RS	
DESCRIÇÃO DA PRANCHA: PAV. COBERTURA — PLANTA DE FORMAS DETALHAMENTO VIGAS E PILARES	PRANCHA: 02 / 03
AREA: 46,44m²	DATA: MAR 2019
ESCALA: INDICADA	