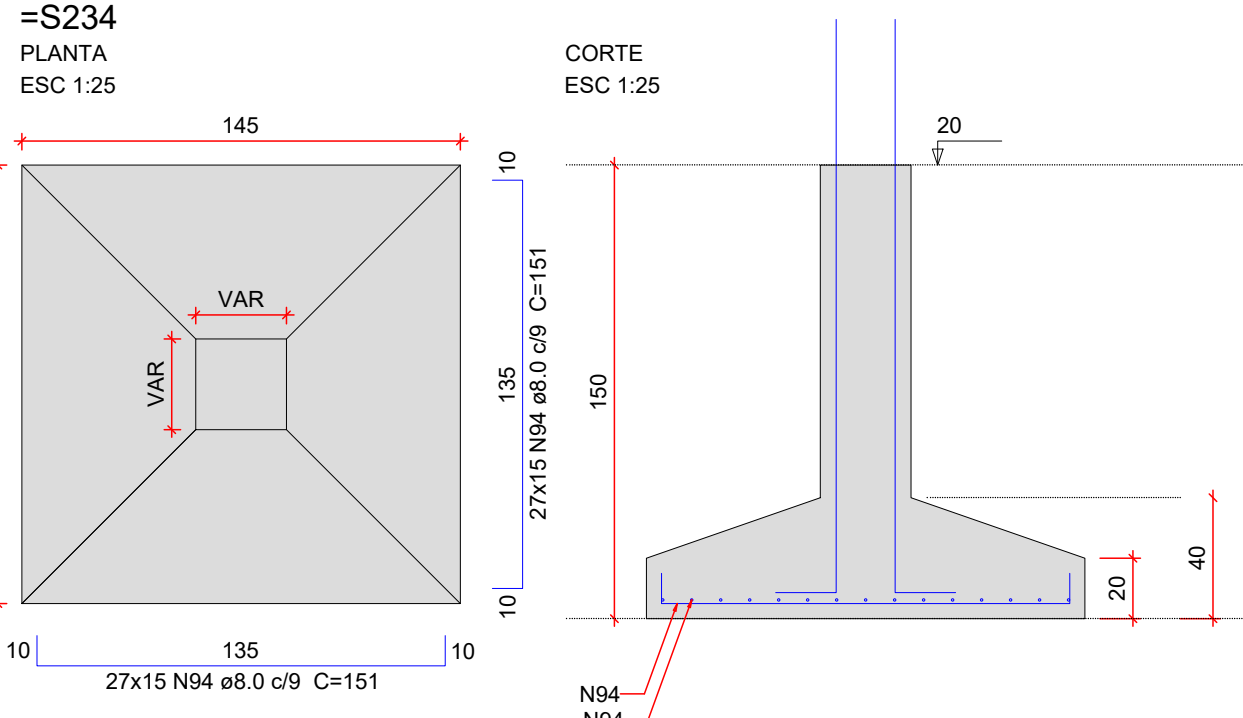


Relação do aço					
ELEMENTO	AÇO	N	DIAM (mm)	Q.UANT	C.U.NIT (cm)
S1	CA60	1	5,0	100	95
	CA50	2	8,0	240	121
S12	CA50	3	12,5	40	200
	CA60	4	13	69	845
	CA50	5	8,0	11	146
	CA50	6	8,0	13	131
S13	CA50	7	10,0	4	193
	CA60	8	5,0	26	1690
	CA50	9	8,0	32	141
	CA50	10	8,0	26	156
7xS14	CA50	11	10,0	10	193
	CA60	12	5,0	91	65
	CA50	13	8,0	91	128
	CA50	14	8,0	77	141
S15	CA50	15	10,0	28	193
	CA60	16	5,0	10	65
	CA50	17	5,0	15	168
	CA50	18	10,0	12	150
S16	CA50	19	12,5	6	200
	CA60	20	5,0	52	65
	CA50	21	8,0	136	136
	CA50	22	8,0	48	151
S17	CA50	23	10,0	18	193
	CA60	24	5,0	13	65
	CA50	25	8,0	8	121
	CA50	26	8,0	10	108
3xS34	CA50	27	10,0	4	193
	CA60	28	5,0	39	65
	CA50	29	8,0	39	131
	CA50	30	8,0	33	146
2xS63	CA50	31	10,0	12	193
	CA60	32	5,0	20	95
	CA50	33	10,0	24	100
	CA50	34	12,5	8	125
S66	CA60	35	5,0	13	65
	CA50	36	8,0	12	156
	CA50	37	8,0	16	2176
	CA50	38	10,0	4	193
S86	CA60	39	5,0	13	75
	CA60	40	5,0	13	65
	CA50	41	10,0	12	193
	CA50	42	10,0	20	165
2xS98	CA50	43	10,0	24	145
	CA60	44	5,0	20	81
	CA50	45	10,0	24	140
	CA50	46	10,0	20	155
S100	CA50	47	16,0	16	209
	CA60	48	5,0	24	135
	CA50	49	10,0	60	145
	CA50	50	16,0	12	209
S101	CA60	51	5,0	40	135
	CA50	52	10,0	110	145
	CA50	53	16,0	20	209
	CA60	54	5,0	125	95
5xS106	CA50	55	8,0	384	156
	CA50	56	12,5	48	200
	CA60	57	5,0	65	4225
	CA50	58	8,0	60	116
S107	CA50	59	8,0	50	131
	CA60	60	10,0	20	193
	CA60	61	5,0	136	95
	CA50	62	10,0	312	170
S108	CA50	63	12,5	48	200
	CA50	64	16,0	8	209
	CA60	65	5,0	113	95
	CA60	66	5,0	10	111
S110	CA50	67	10,0	336	180
	CA60	68	12,5	44	200
	CA50	69	16,0	8	209
	CA60	70	5,0	181	95
S115	CA50	71	10,0	432	165
	CA50	72	12,5	64	200
	CA50	73	16,0	16	209
	CA60	74	5,0	250	95
S116	CA50	75	8,0	616	141
	CA50	76	12,5	88	200
	CA60	77	5,0	13	83
	CA50	78	8,0	24	136
12xS117	CA50	79	10,0	6	193
	CA60	80	5,0	108	79
	CA50	81	8,0	84	86
	CA50	82	8,0	72	96
2xS153	CA50	83	10,0	48	143
	CA60	84	5,0	20	95
	CA50	85	8,0	40	106
	CA50	86	12,5	8	200
S156	CA60	87	5,0	180	95
	CA50	88	8,0	442	131
	CA50	89	12,5	68	200
	CA60	90	5,0	253	95
S165	CA60	91	5,0	13	83
	CA50	92	5,0	8	111
	CA60	93	5,0	16	40
	CA50	94	8,0	810	151
7xS189	CA50	95	10,0	6	193
	CA50	96	12,5	100	200
	CA50	97	16,0	16	209
	CA60	98	5,0	91	65
S191	CA50	99	8,0	84	121
	CA50	100	8,0	77	136
	CA50	101	10,0	28	193
	CA60	102	5,0	13	55
2xS192	CA50	103	8,0	13	141
	CA50	104	8,0	14	126
	CA50	105	10,0	4	193
	CA60	106	5,0	26	65
3xS193	CA50	107	8,0	24	151
	CA50	108	8,0	30	136
	CA50	109	10,0	12	193
	CA60	110	5,0	30	65
S194	CA50	111	8,0	30	136
	CA50	112	8,0	36	121
	CA50	113	10,0	12	193
	CA60	114	5,0	13	65
S195	CA50	115	8,0	10	131
	CA50	116	8,0	12	116
	CA50	117	10,0	4	193
	CA60	118	5,0	13	55
S196	CA50	119	8,0	6	91
	CA50	120	8,0	7	86
	CA50	121	10,0	4	158
	CA60	122	5,0	10	65
S201	CA50	123	10,0	14	160
	CA50	124	10,0	12	175
	CA50	125	12,5	6	200
	CA60	126	5,0	20	95
S206	CA50	127	5,0	60	185
	CA50	128	12,5	8	200
	CA60	129	5,0	10	95
	CA50	130	10,0	34	195
2xS217	CA50	131	12,5	4	200
	CA60	132	5,0	26	65
	CA50	133	8,0	22	136
	CA50	134	8,0	24	121
2xS221	CA50	135	10,0	8	193
	CA60	136	5,0	26	65
	CA50	137	8,0	24	128
	CA50	138	8,0	20	141
	CA50	139	10,0	8	193

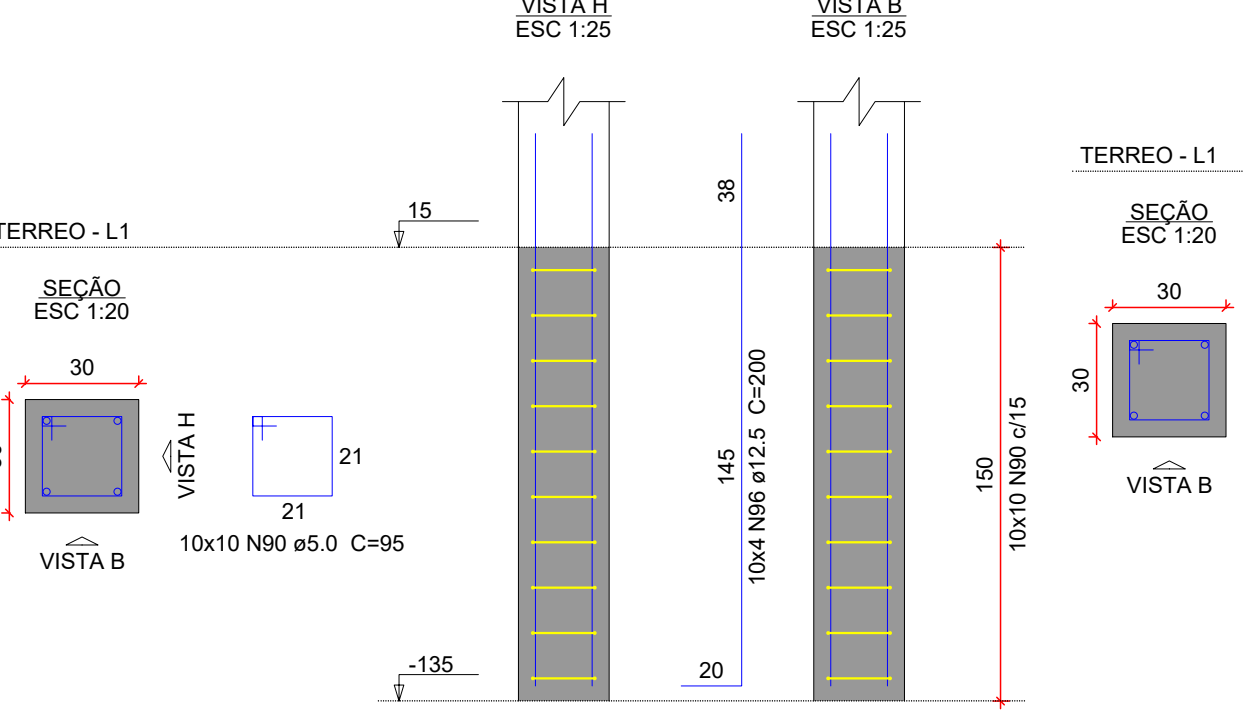
Relação do aço					
ELEMENTO	AÇO	N	DIAM (mm)	QUANT	C.U.NIT (cm)
S227	CA60	140	5,0	13	105
	CA60	141	5,0	13	36
	CA50	142	8,0	10	131
	CA50	143	8,0	11	126
S84-85	CA50	144	10,0	6	193
	CA60	145	5,0	8	135
	CA60	146	5,0	10	95
	CA60	147	5,0	7	711
S102-103	CA60	148	12,5	4	200
	CA50	149	12,5	32	278
	CA50	150	12,5	28	196
	CA50	151	16,0	4	209
2xSM1	CA60	152	5,0	8	135
	CA60	153	5,0	10	95
	CA60	154	5,0	7	681
	CA50	155	12,5	4	200

Resumo do aço				
AÇO	DIAM (mm)	C.TOTAL (m)	PESO + 10 % (kg)	
CA50	8,0	5179,3	2248	
CA50	10,0	3130,1	2122,8	
CA50	12,5	1370,1	1451,9	
CA60	5,0	287,3	464	
CA60	5,0	2281,3	386,8	
PESO TOTAL (kg)				
CA50	6286,7			
CA60	386,8			
Volume de concreto (C-35) = 141,42 m³				
Área de forma = 513,79 m²				

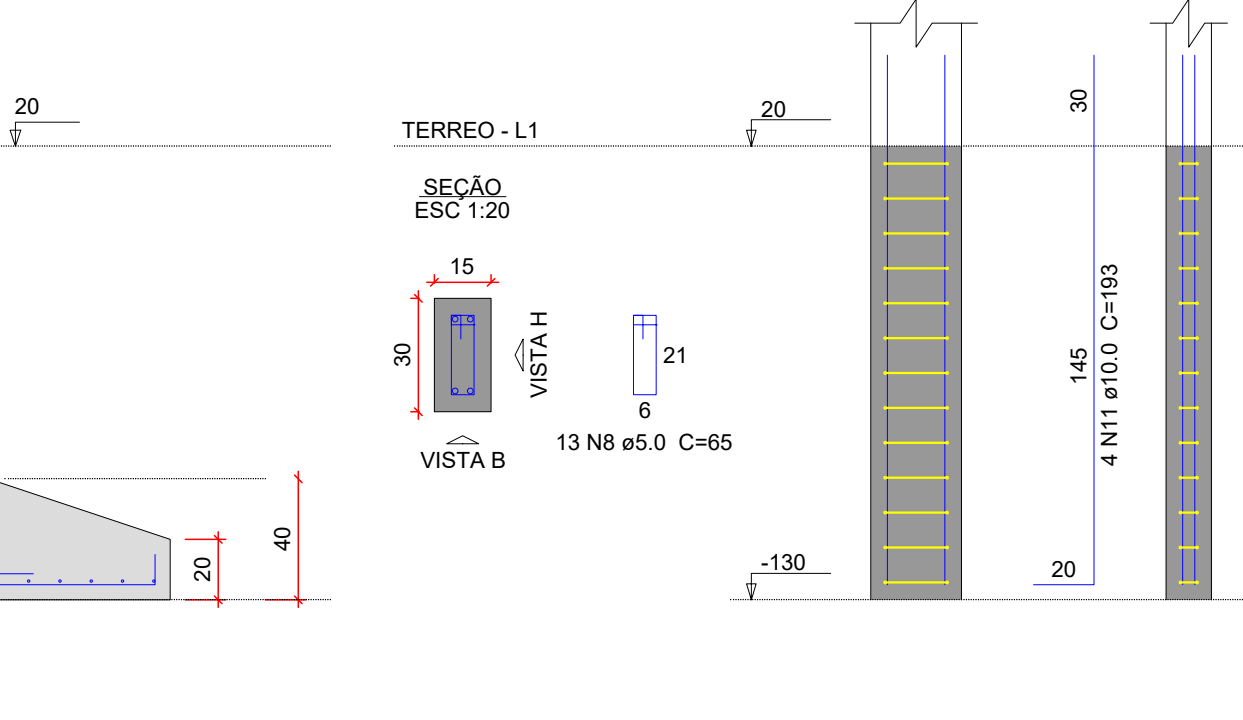
S4=S9=S10=S19=S20=S22
=S25=S31=S37=S55
=S56=S65=S91=S150=
S164=S165=S169=S174
=S184=S185=S203=S208
=S213=S216=S222=S233
=S234



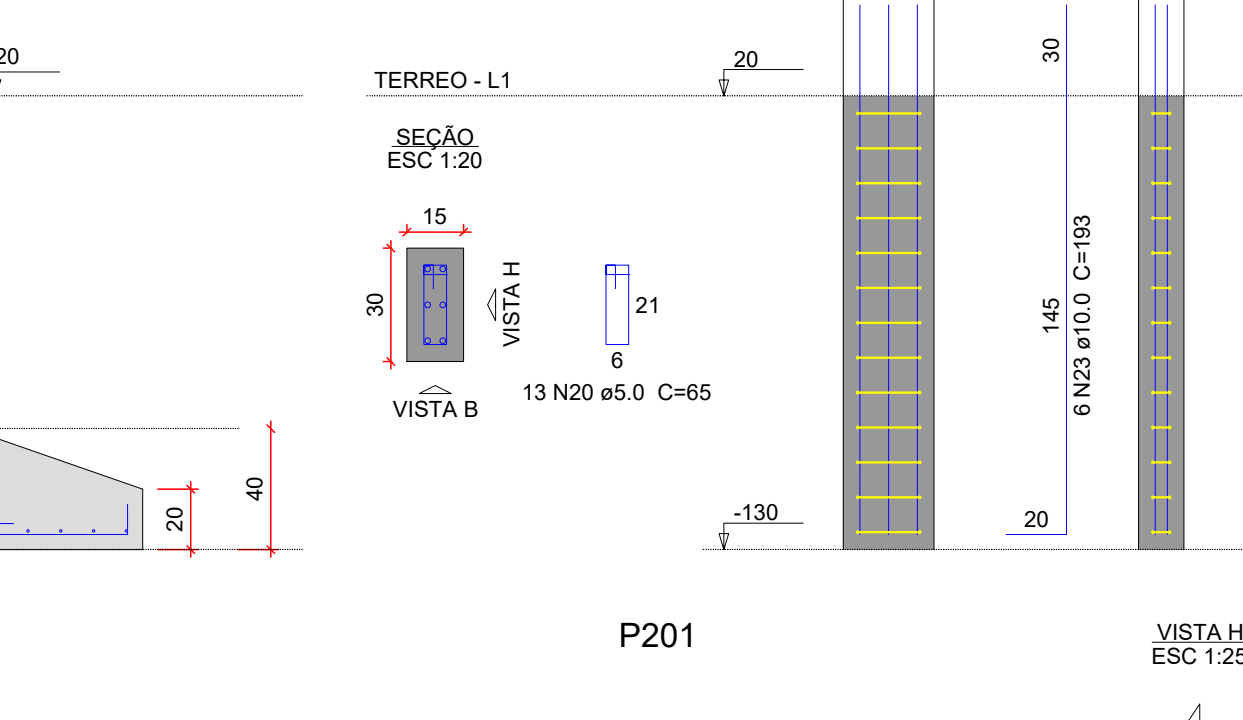
P22=P37=P55=P56=P65=P91=
=P174=P185=P203=P208



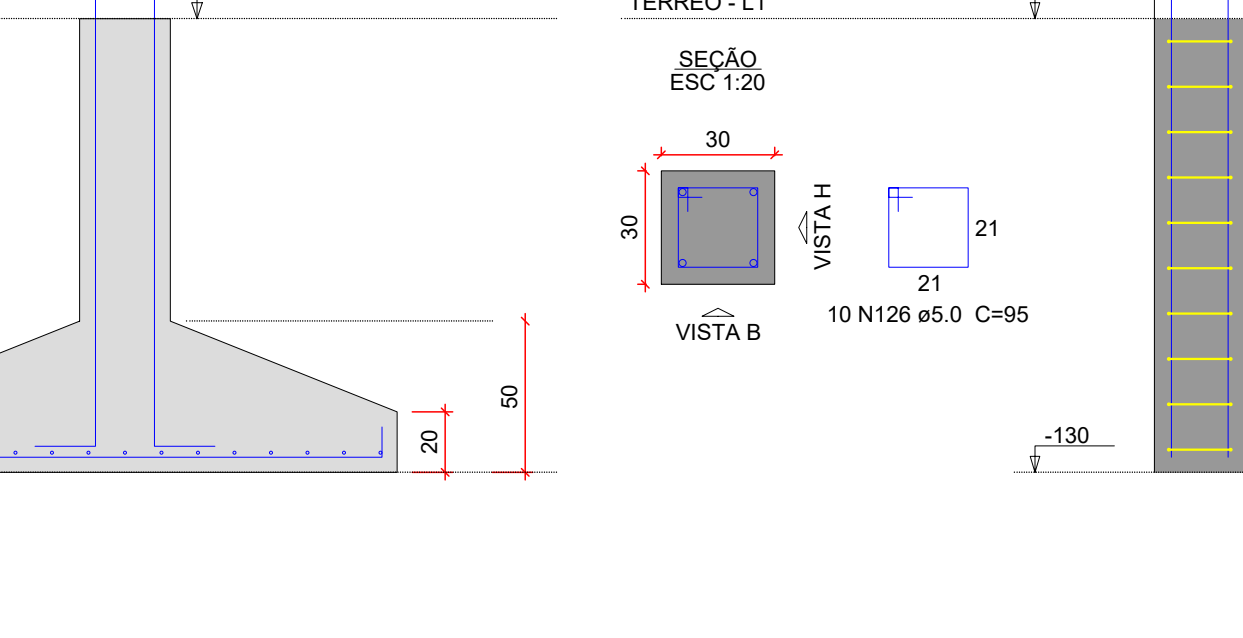
P13



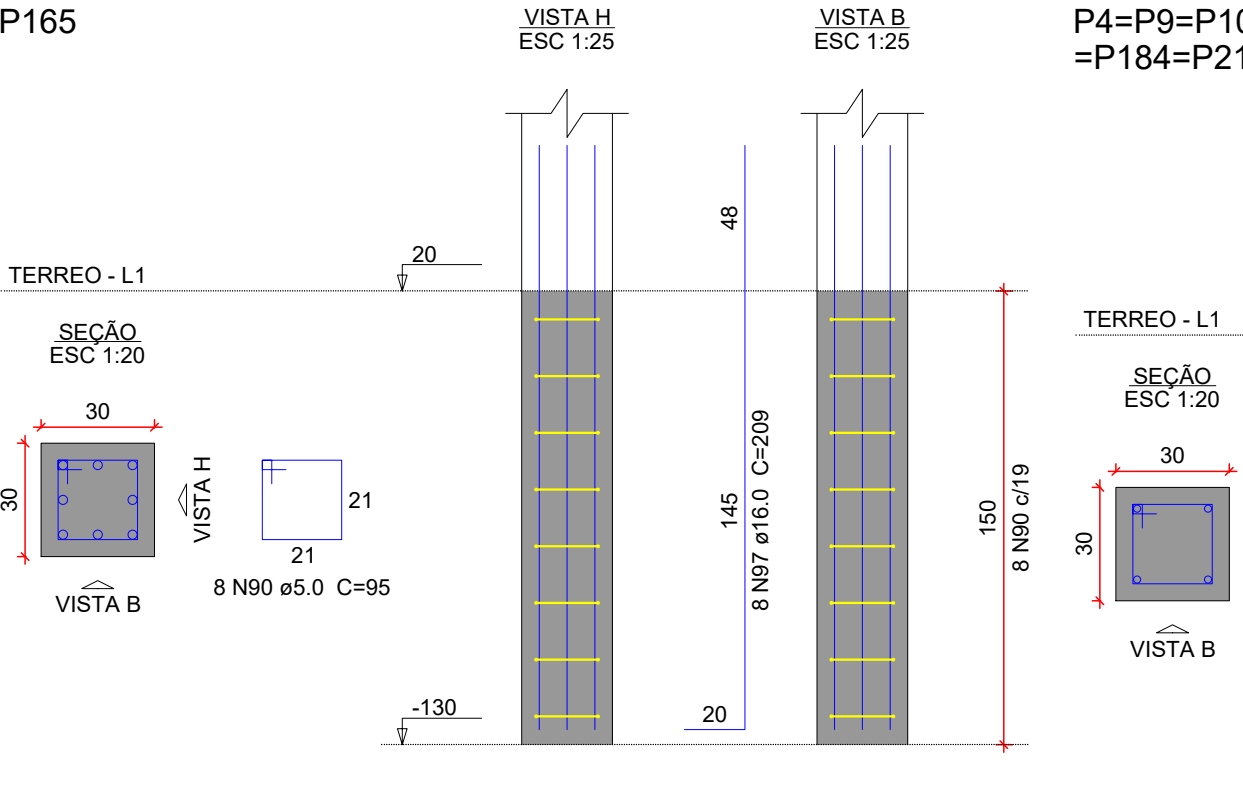
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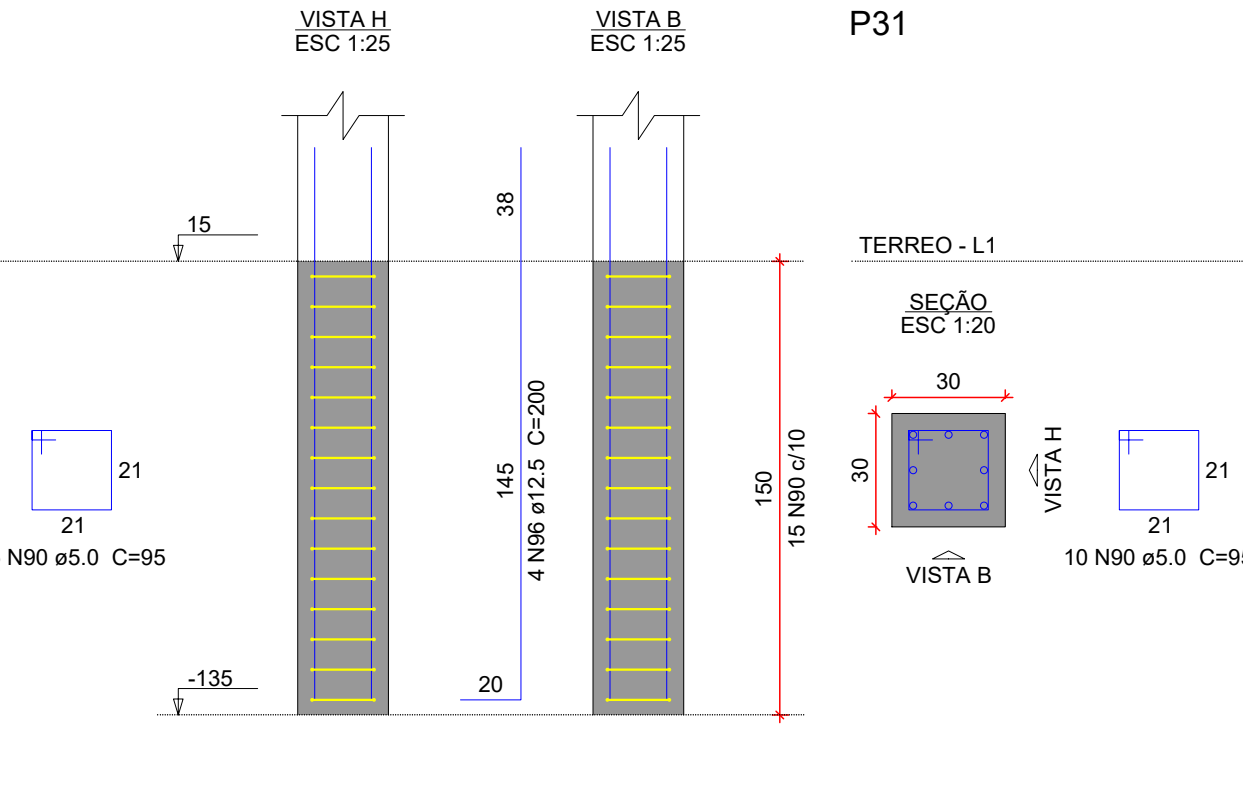
S26=S201



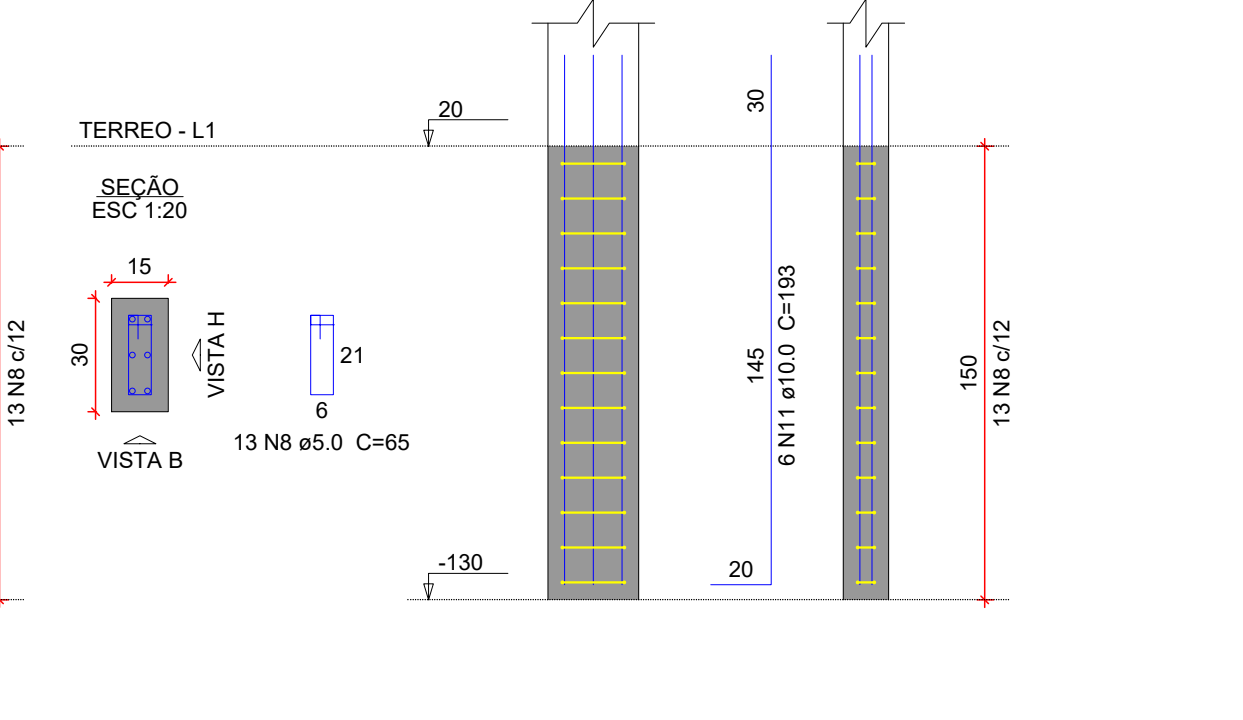
P165



P213



P18



P79=P80=P210

