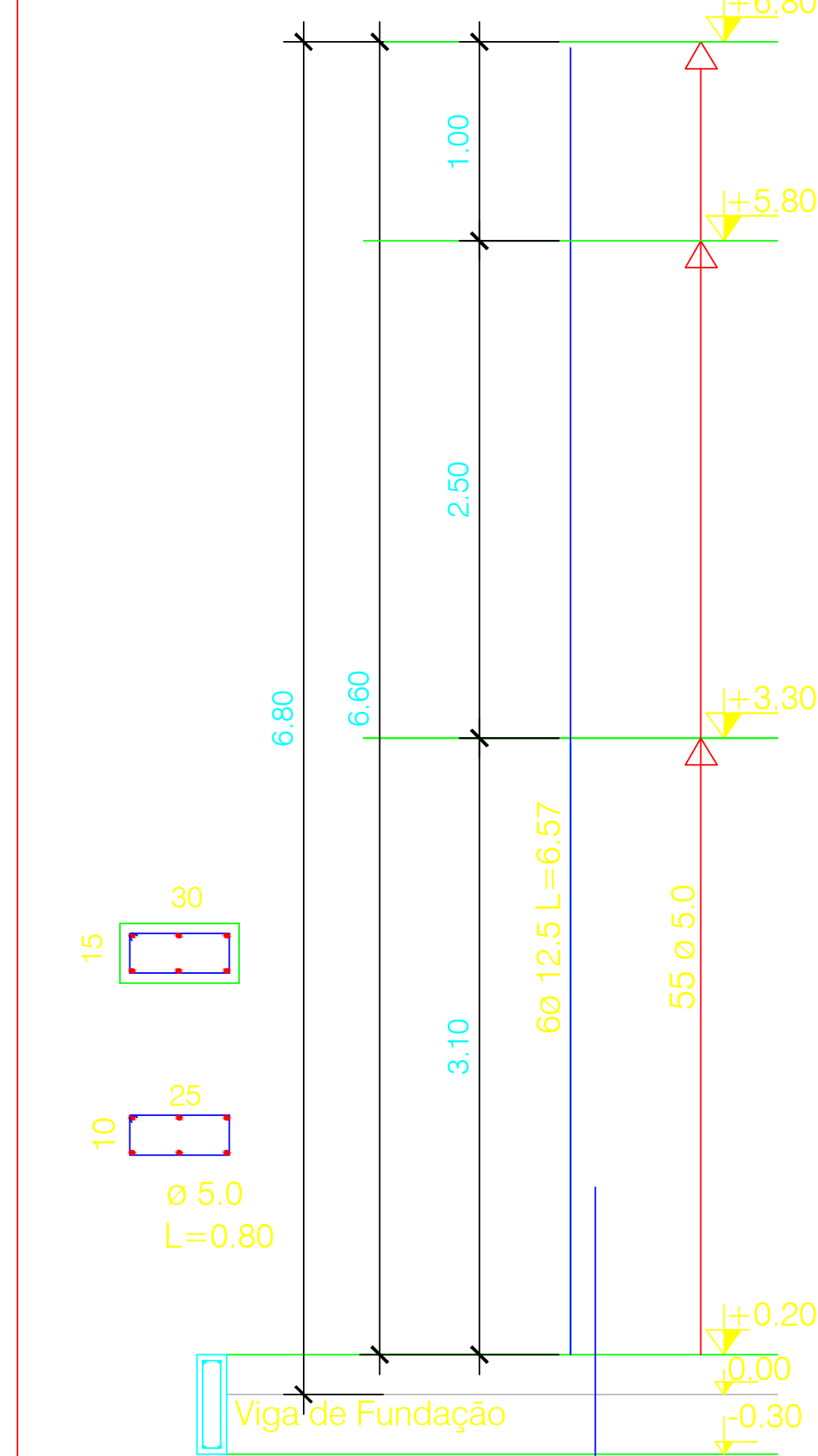
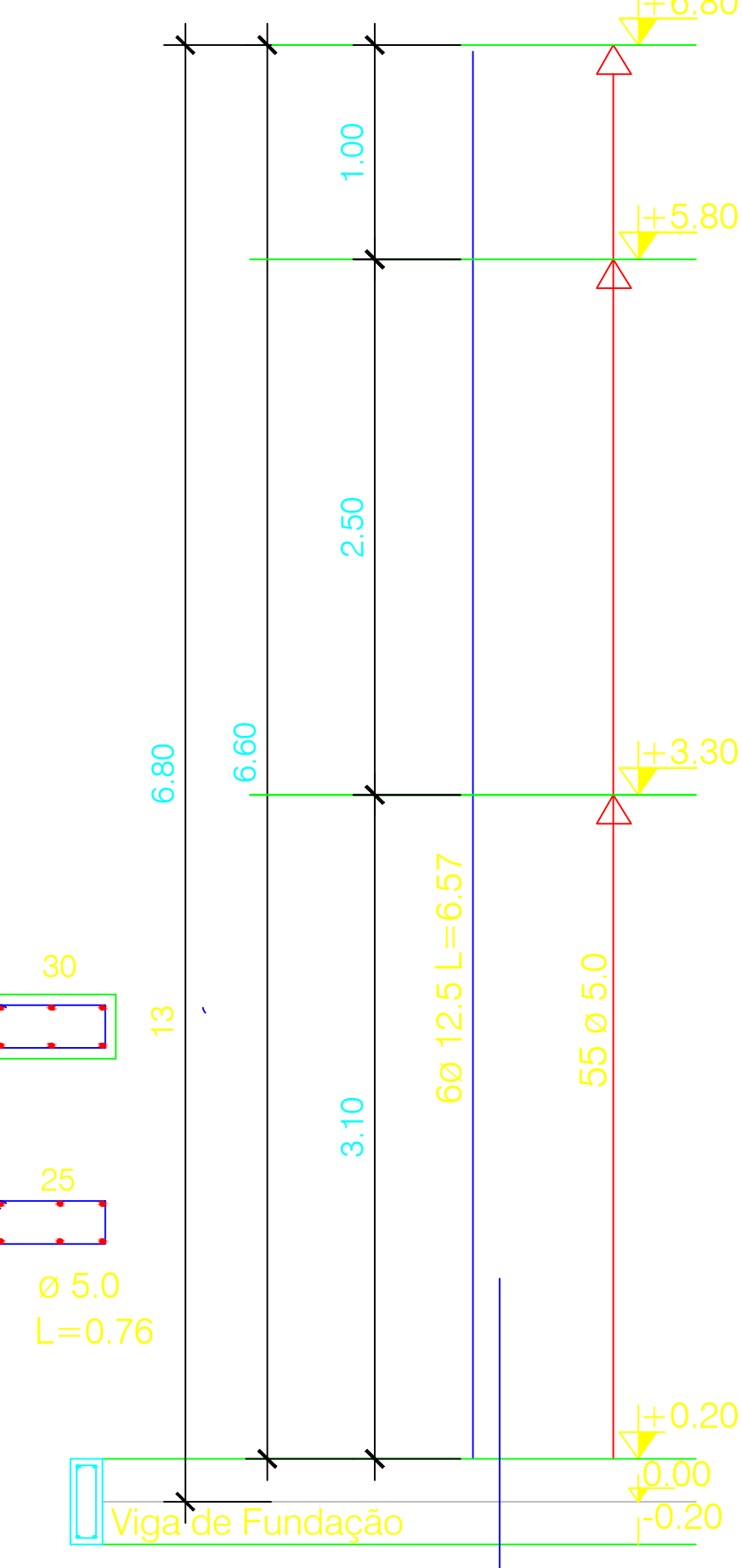


(15x30) - P1, P2, P3, P5



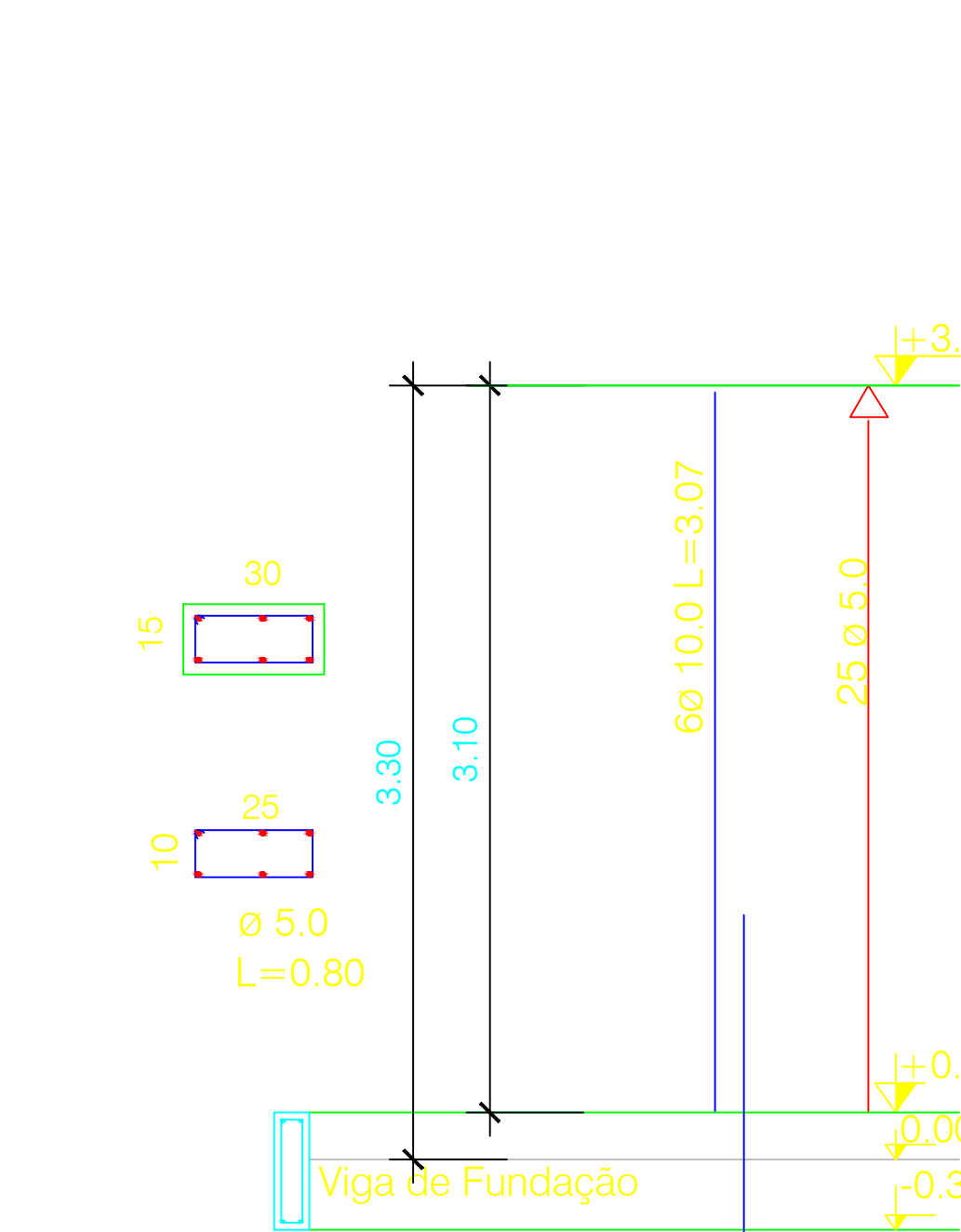
1:30

(13x30) - P6, P7.



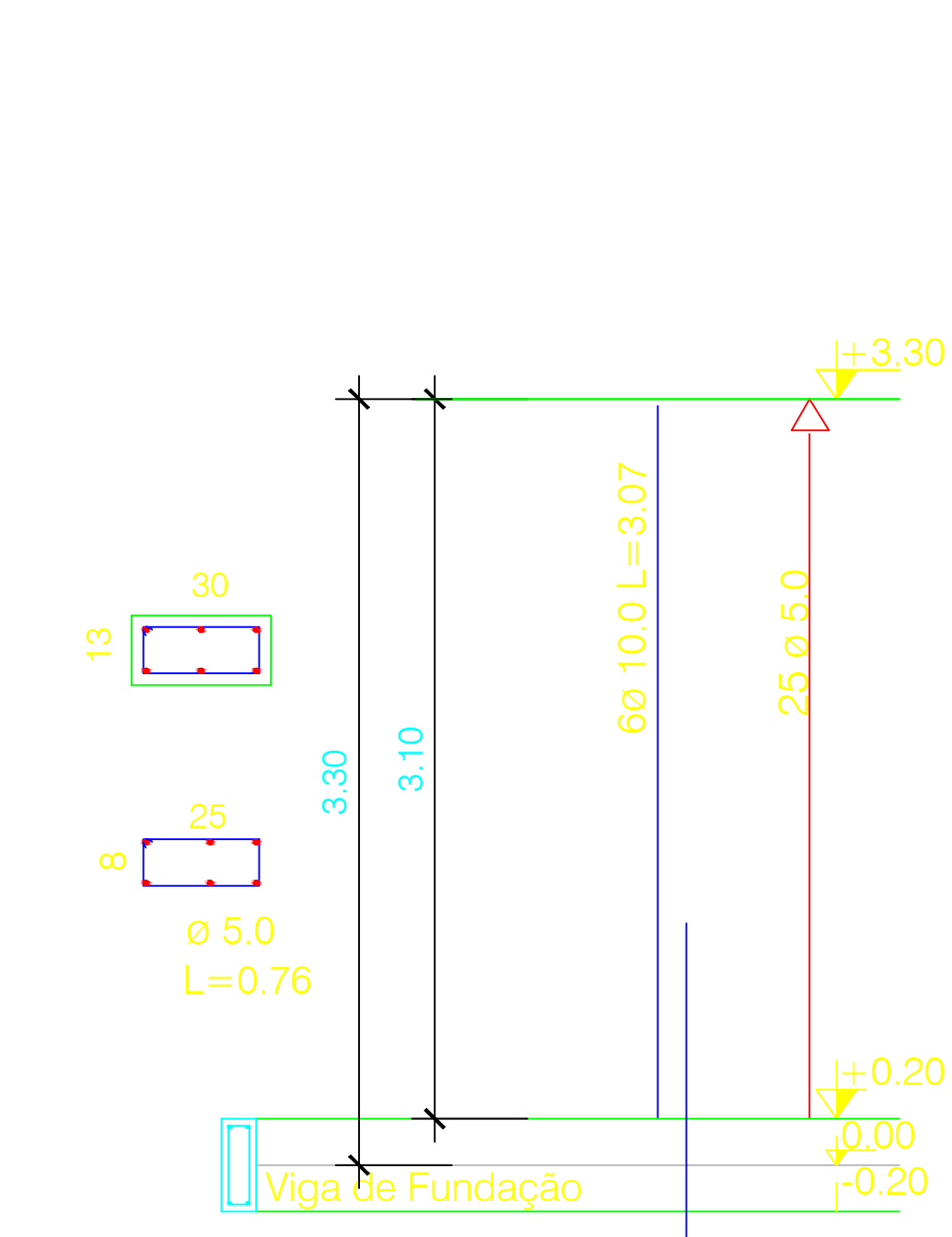
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(15x30) - P4, P8, P14, P15, P16, P17.



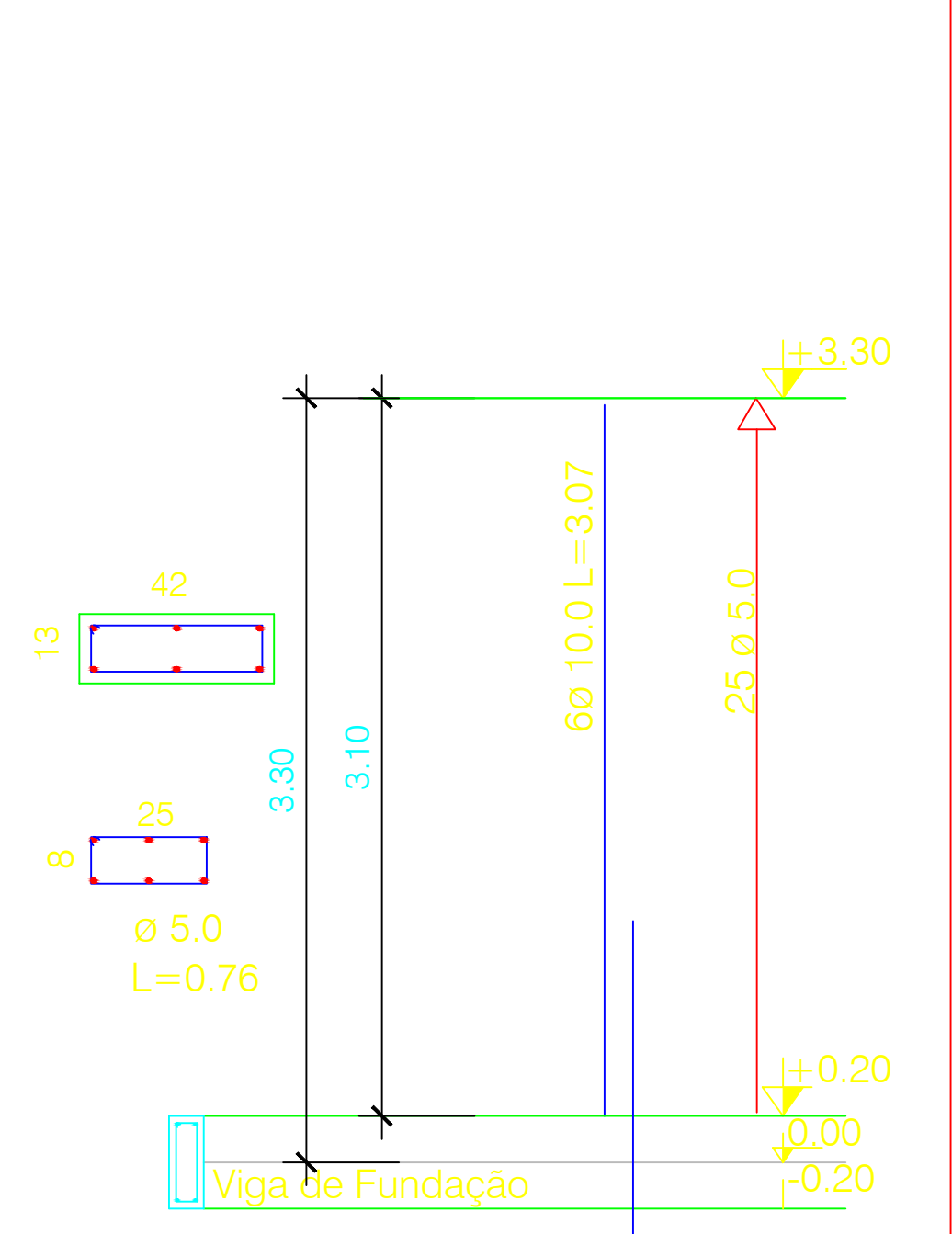
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(13x30) - P9, P10, P11, P13.

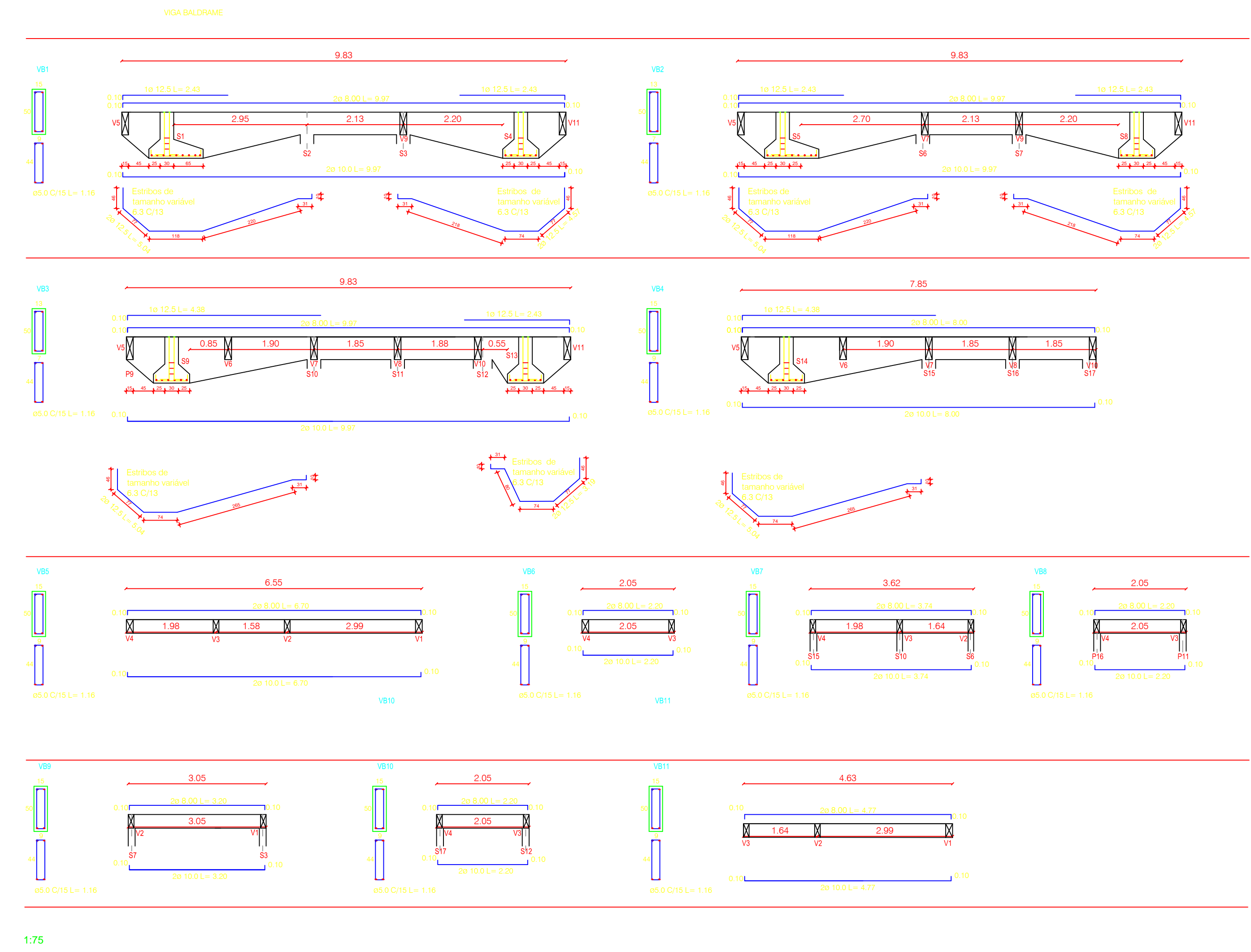


1:30

(13x42) - 12

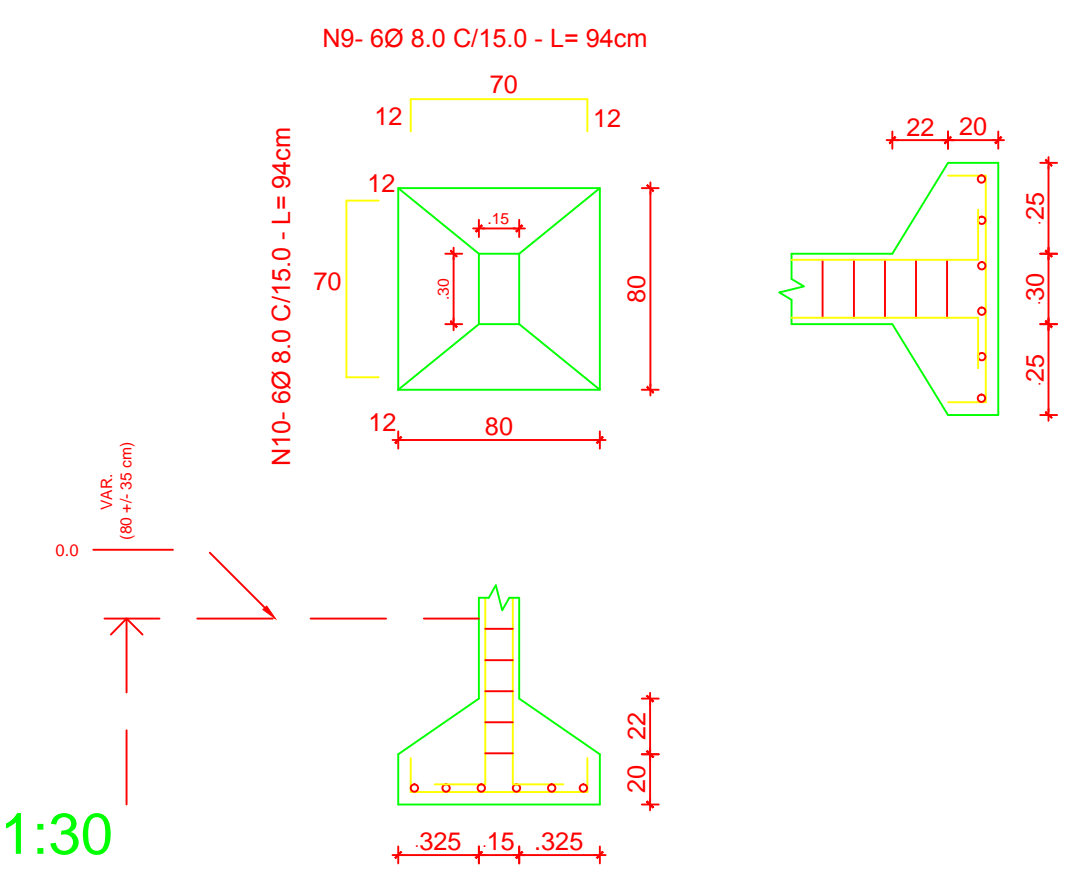


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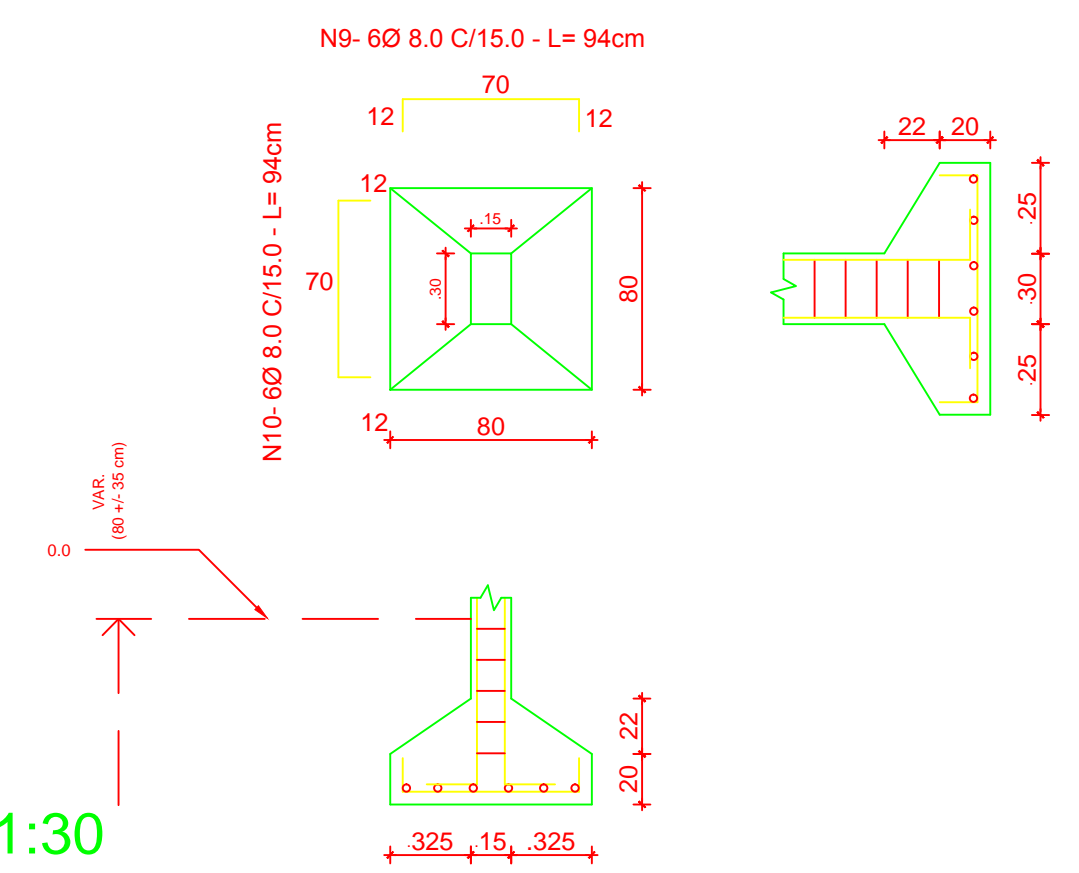
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SAPATA 80 X 80 - PILAR (15 X 30)
S15, S16, S17.



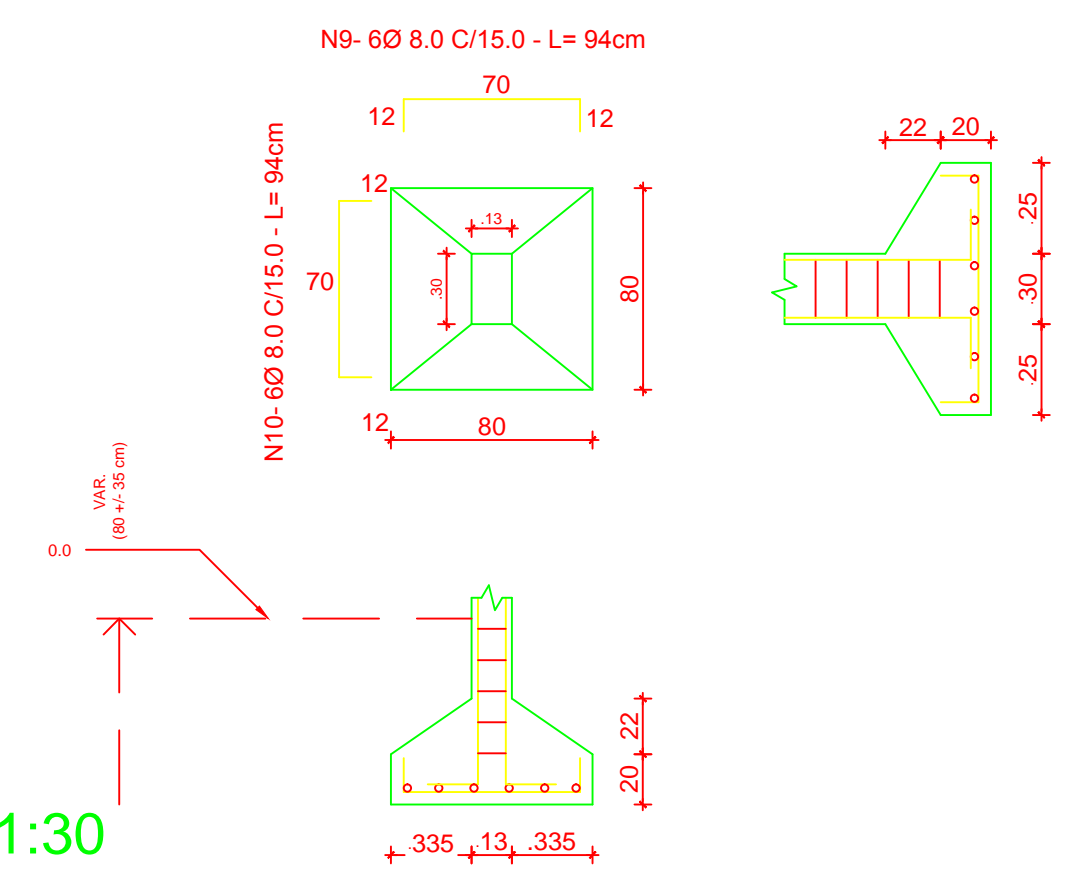
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SAPATA 80 X 80 - PILAR (15 X 30) QUE
MORRE NA VIGA DE BALDRAME
S4, S14.



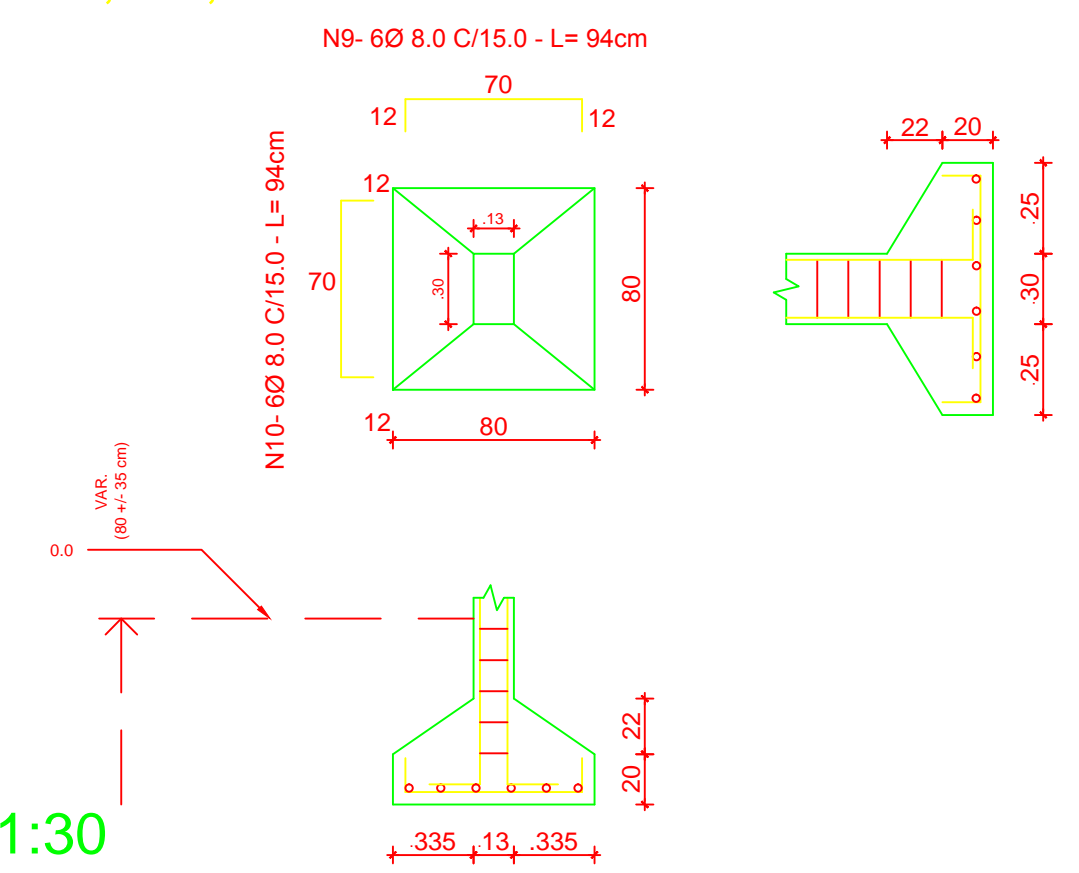
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SAPATA 80 X 80 - PILAR (13 X 30)
S10, S11.



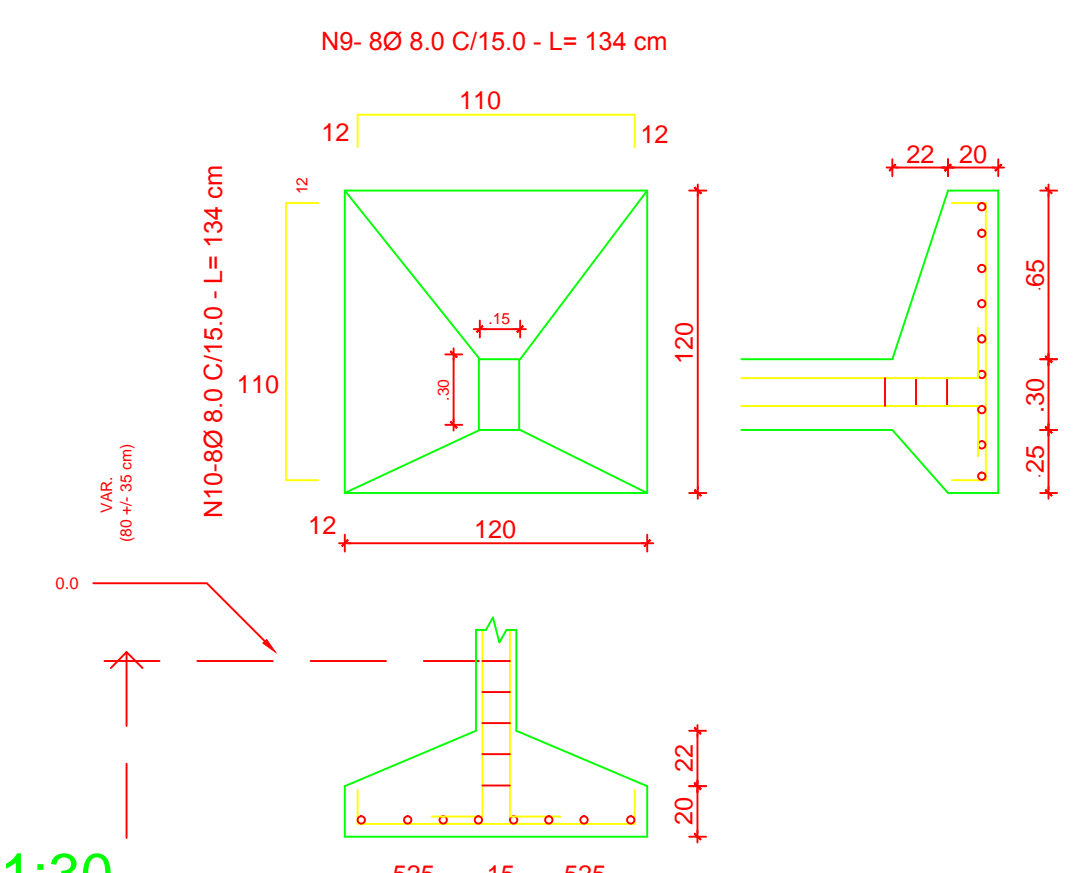
1:30

SAPATA 80 X 80 - PILAR (13 X 30) QUE
MORRE NA VIGA DE BALDRAME
S8, S9, S13.



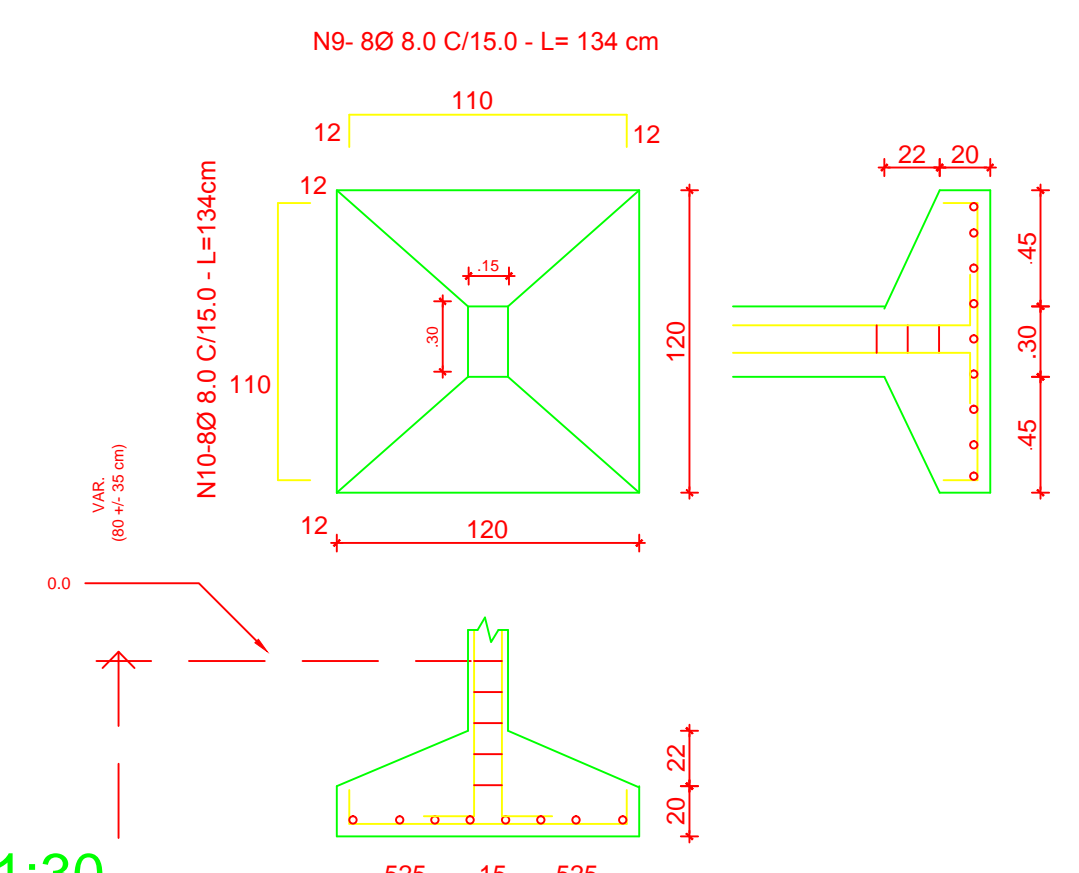
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SAPATA 120 X 120 - PILAR (15 X 30)
S1, S5.



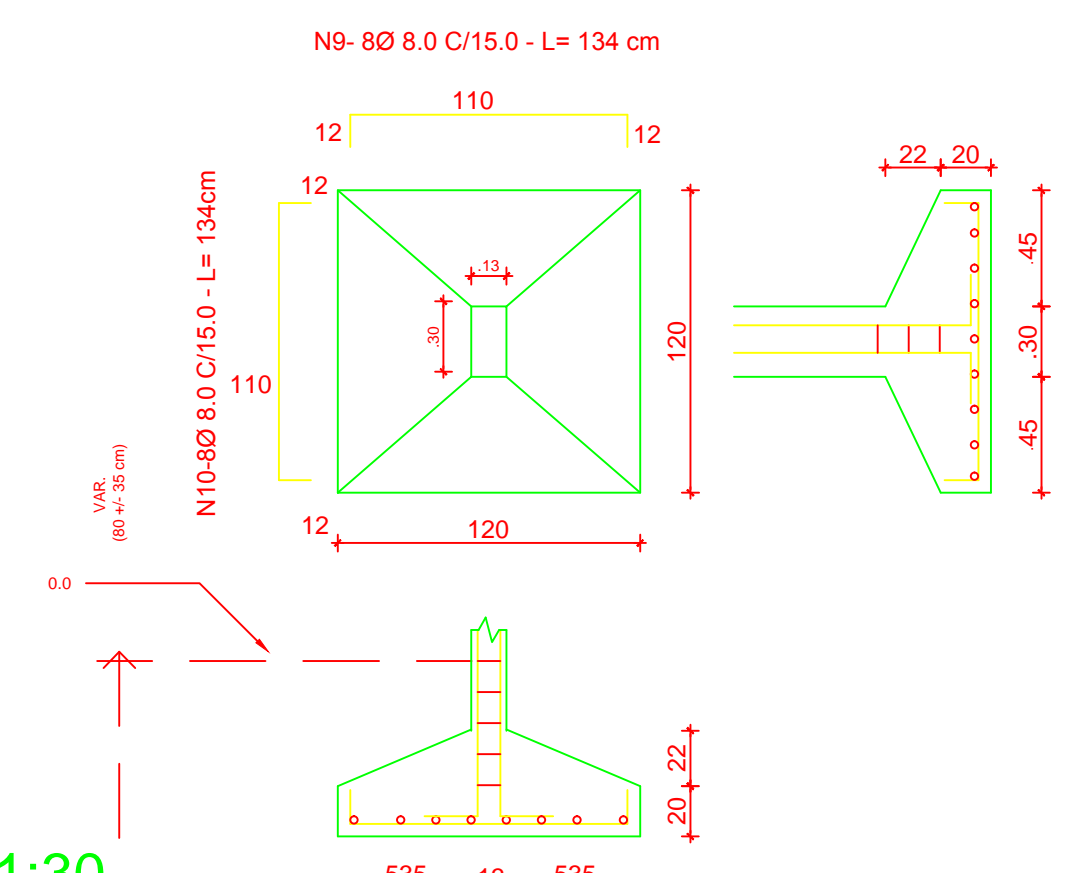
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SAPATA 120 X 120 - PILAR (15 X 30)
S2, S3.



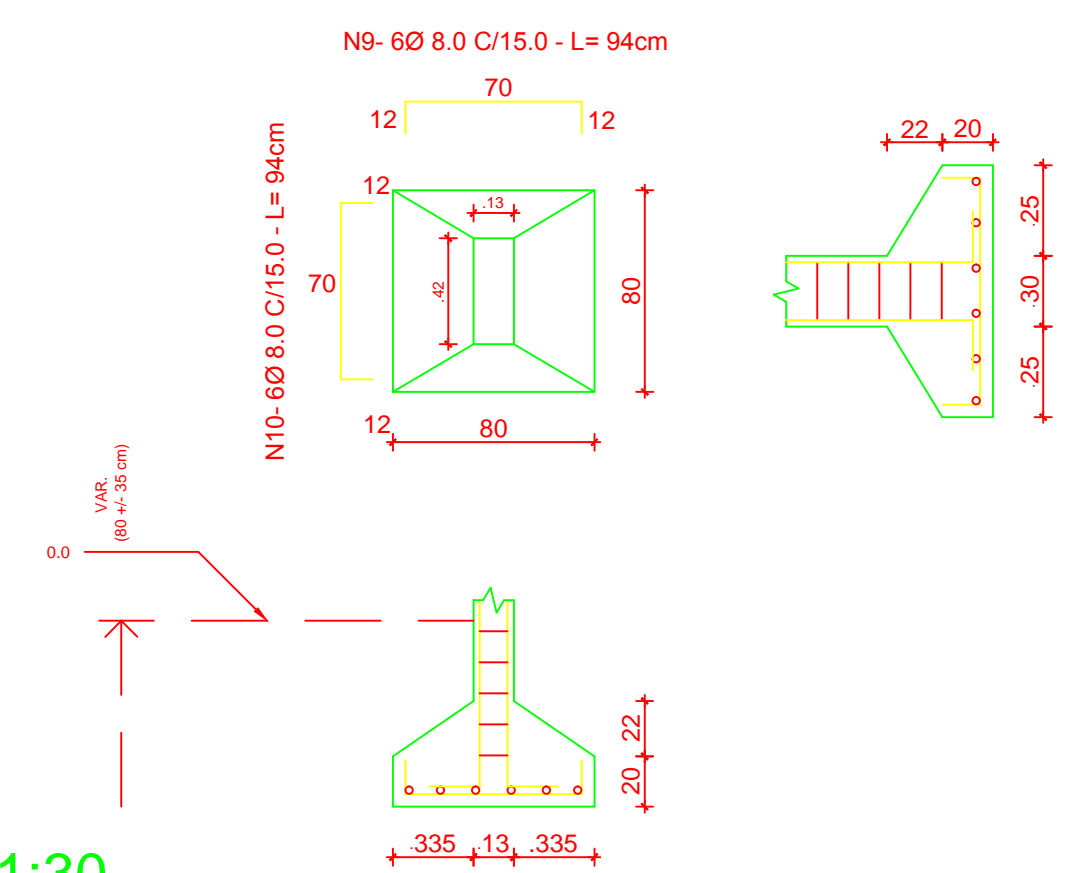
1:30

SAPATA 120 X 120 - PILAR (13 X 30)
S6, S7.



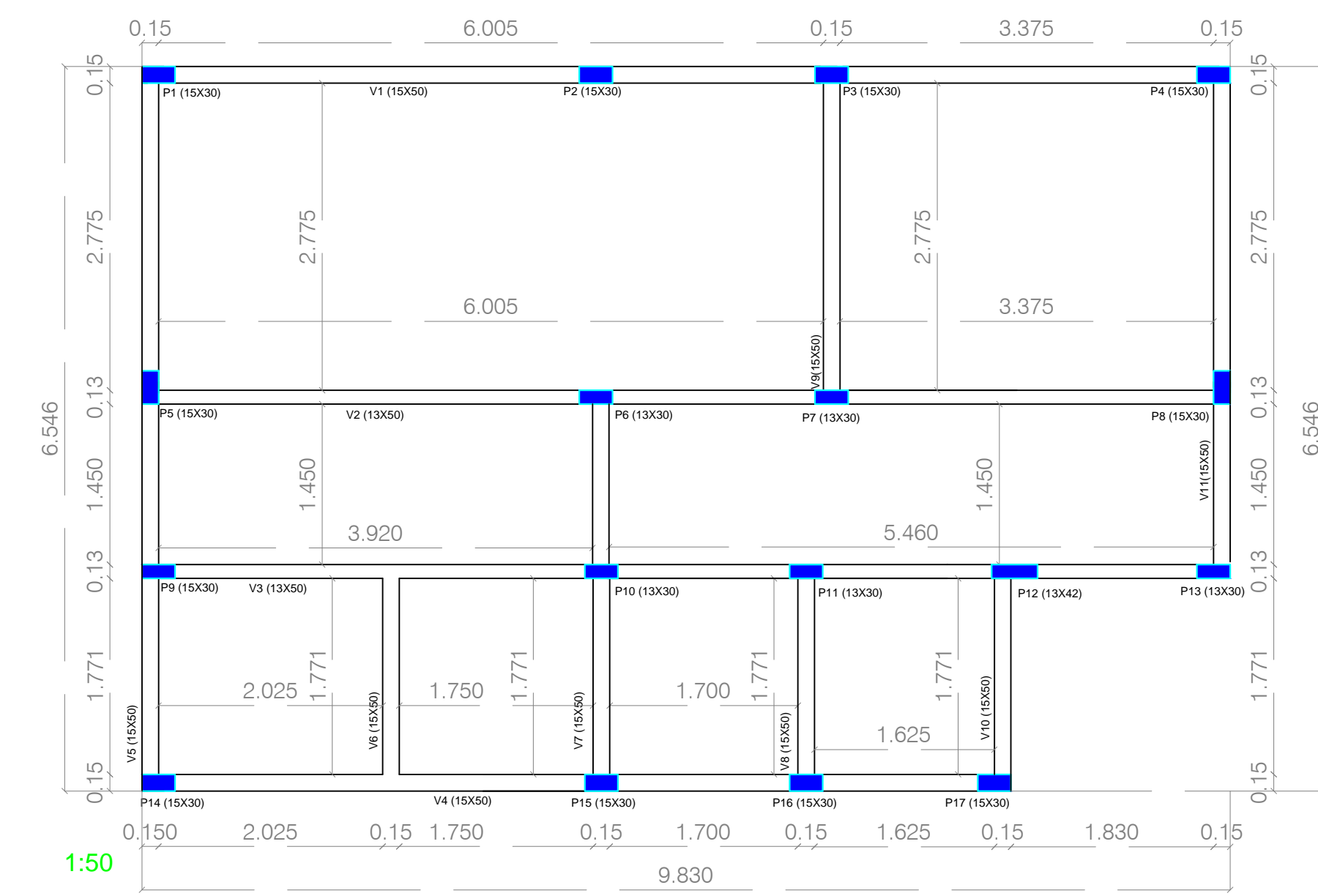
1:30

SAPATA 80 X 80 - PILAR (13 X 42)
S12



1:30

FORMA VIGA BALDRAME



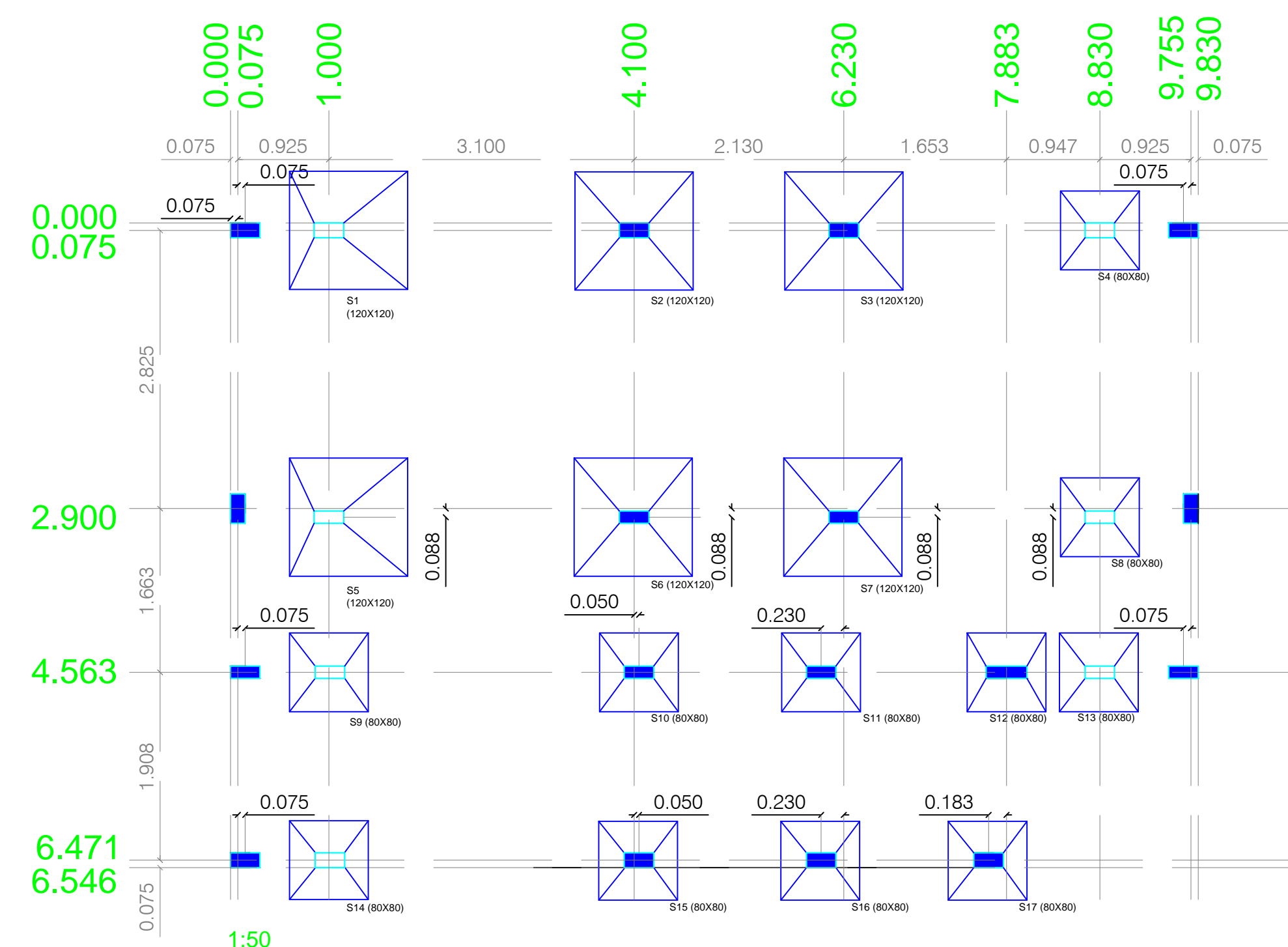
1:50

SAPATAS			
Bitola	Quant.	Peso +10%	Unid.
Concreto	3,33	1,00	m³
Forma	22,55	10,00	m²
Arma	10,88	1,08	kg
Ø 8,0	85,36	85,36	kg

PILARES			
Bitola	Quant.	Peso +10%	Unid.
Concreto	3,10	1,00	m³
Forma	27,75	10,00	m²
Ø 8,0	75,18	81,18	kg
Ø 10,0	25,11	277,11	kg
Ø 12,5	10,65	30,70	kg

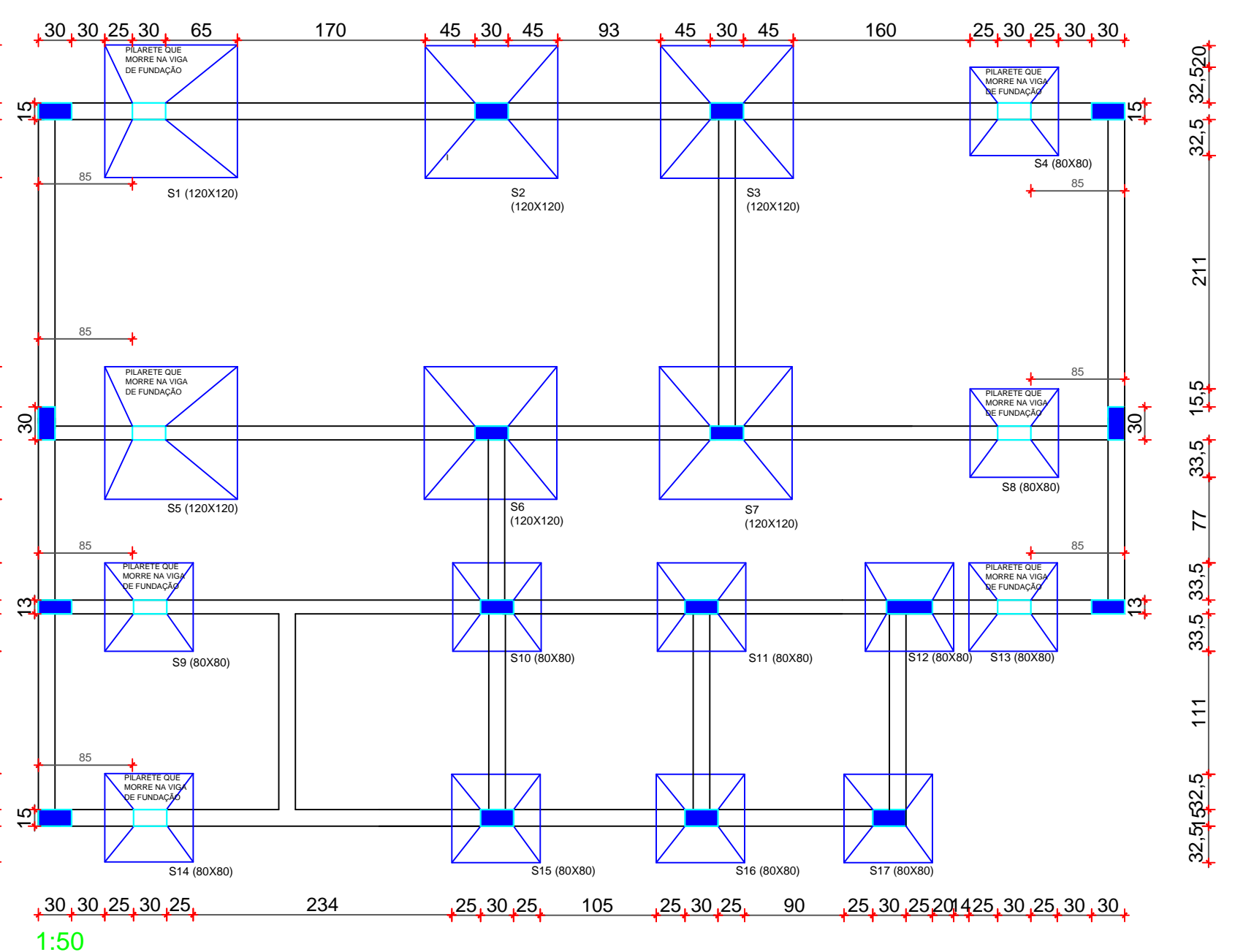
VIGA BALDRAME			
Bitola	Quant.	Peso +10%	Unid.
Concreto	5,81	1,00	m³
Forma	80,88	10,00	m²
Ø 5,0	50,35	55,38	kg
Ø 6,3	78,20	86,03	kg
Ø 8,0	49,81	54,79	kg
Ø 10,0	77,89	81,65	kg
Ø 12,5	60,29	66,32	kg

RÉGUA DE MARCAÇÃO



1:50

SAPATAS



1:50

PREFEITURA MUNICIPAL DO RIO GRANDE
SECRETARIA MUNICIPAL DE COORDENAÇÃO E PLANEJAMENTO



UBS BARRA
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PROJETO ESTRUTURAL
FUNDAÇÕES E PILARES

SMCP
04.2018

OLDAIR ANTONIO COLARES
PROJ. CIVIL - CREA RS 19820

01/02
ESCALA INDICADA

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