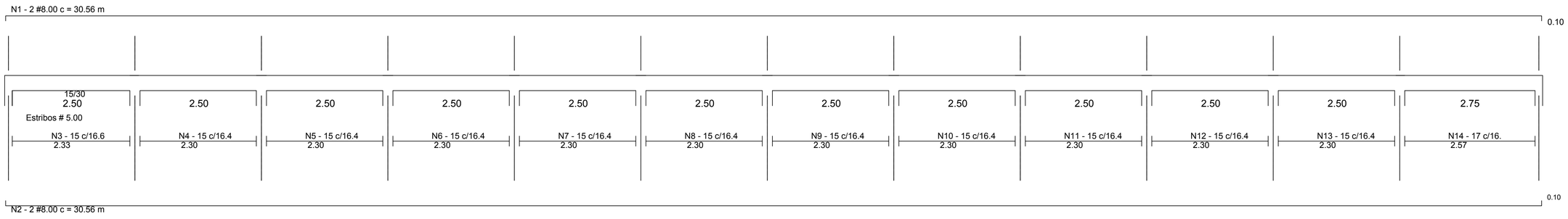
C3 - 15/30 - Compr.Tot. Viga = 30.40 m



Quadro resumo de aço

Posição	Bitola (mm)	Quant.	Compr. (m)	Compr. Tot (m)	Peso Tot (kg)
N - 1	8.00	2	30.56	61.12	24.14
N - 2	8.00	2	30.56	61.12	24.14
N - 3	5.00	15	0.91	13.65	2.10
N - 4	5.00	15	0.91	13.65	2.10
N - 5	5.00	15	0.91	13.65	2.10
N - 6	5.00	15	0.91	13.65	2.10
N - 7	5.00	15	0.91	13.65	2.10
N - 8	5.00	15	0.91	13.65	2.10
N - 9	5.00	15	0.91	13.65	2.10
N - 10	5.00	15	0.91	13.65	2.10
N - 11	5.00	15	0.91	13.65	2.10
N - 12	5.00	15	0.91	13.65	2.10
N - 13	5.00	15	0.91	13.65	2.10
N - 14	5.00	17	0.91	15.47	2.38

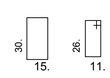
Consumo total por bitola

Bitola	Peso Tot (kg)
5.00	25.51
8.00	48.28

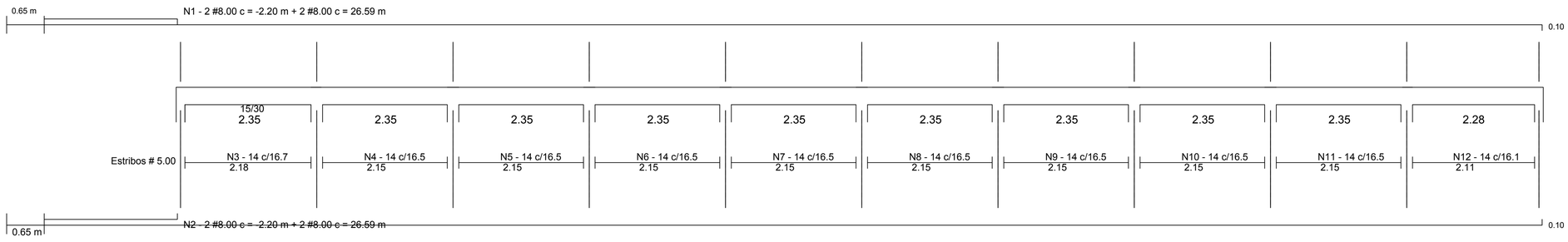
Arame recosido (18) = 1.48 kg

Vol. Concreto = 1367 litros
(Peso aço)/(Vol. concreto) = 54 kg/m3

fck = 20 MPa
fyk = 500 MPa
cobrimento = 2.00 cm



C1 - 15/30 - Compr.Tot. Viga = 23.58 m



Quadro resumo de aço

Posição	Bitola (mm)	Quant.	Compr. (m)	Compr. Tot (m)	Peso Tot (kg)
N - 1	8.00	2	24.39	48.78	19.27
N - 2	8.00	2	24.39	48.78	19.27
N - 3	5.00	14	0.91	12.74	1.96
N - 4	5.00	14	0.91	12.74	1.96
N - 5	5.00	14	0.91	12.74	1.96
N - 6	5.00	14	0.91	12.74	1.96
N - 7	5.00	14	0.91	12.74	1.96
N - 8	5.00	14	0.91	12.74	1.96
N - 9	5.00	14	0.91	12.74	1.96
N - 10	5.00	14	0.91	12.74	1.96
N - 11	5.00	14	0.91	12.74	1.96
N - 12	5.00	14	0.91	12.74	1.96

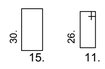
Consumo total por bitola

Bitola	Peso Tot (kg)
5.00	19.62
8.00	38.53

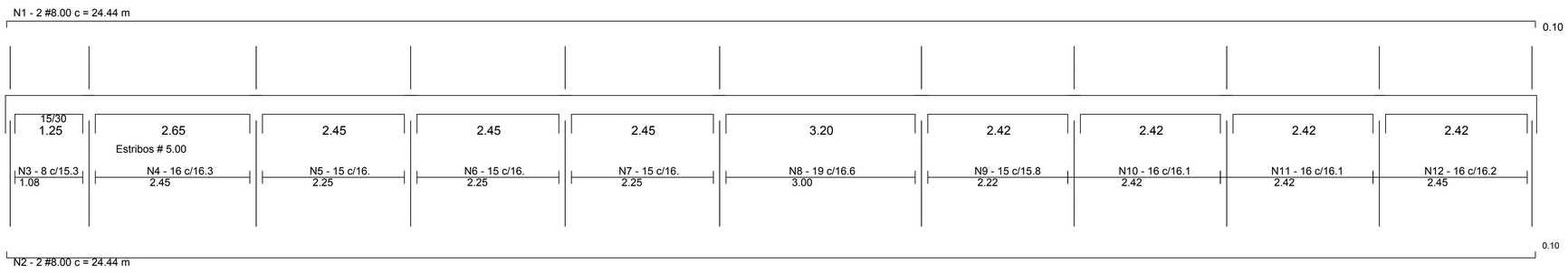
Arame recosido (18) = 1.16 kg

Vol. Concreto = 1061 litros
(Peso aço)/(Vol. concreto) = 55 kg/m3

fck = 20 MPa
fyk = 500 MPa
cobrimento = 2.00 cm



C2 - 15/30 - Compr.Tot. Viga = 24.28 m



Quadro resumo de aço

Posição	Bitola (mm)	Quant.	Compr. (m)	Compr. Tot (m)	Peso Tot (kg)
N - 1	8.00	2	24.44	48.88	19.31
N - 2	8.00	2	24.44	48.88	19.31
N - 3	5.00	8	0.91	7.28	1.12
N - 4	5.00	16	0.91	14.56	2.24
N - 5	5.00	15	0.91	13.65	2.10
N - 6	5.00	15	0.91	13.65	2.10
N - 7	5.00	15	0.91	13.65	2.10
N - 8	5.00	19	0.91	17.29	2.66
N - 9	5.00	15	0.91	13.65	2.10
N - 10	5.00	16	0.91	14.56	2.24
N - 11	5.00	16	0.91	14.56	2.24
N - 12	5.00	16	0.91	14.56	2.24

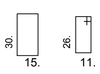
Consumo total por bitola

Bitola	Peso Tot (kg)
5.00	21.16
8.00	38.62

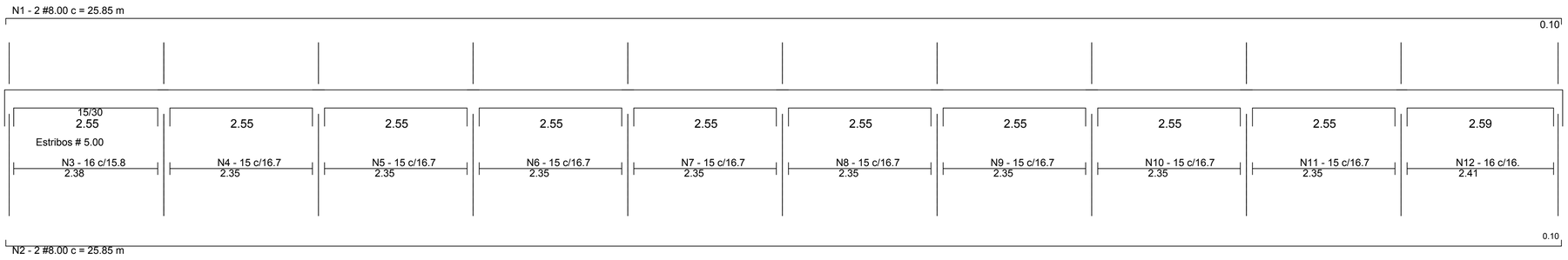
Arame recosido (18) = 1.20 kg

Vol. Concreto = 1092 litros
(Peso aço)/(Vol. concreto) = 55 kg/m3

fck = 20 MPa
fyk = 500 MPa
cobrimento = 2.00 cm



C5 - 15/30 - Compr.Tot. Viga = 25.69 m



Quadro resumo de aço

Posição	Bitola (mm)	Quant.	Compr. (m)	Compr. Tot (m)	Peso Tot (kg)
N - 1	8.00	2	25.85	51.70	20.42
N - 2	8.00	2	25.85	51.70	20.42
N - 3	5.00	16	0.91	14.56	2.24
N - 4	5.00	15	0.91	13.65	2.10
N - 5	5.00	15	0.91	13.65	2.10
N - 6	5.00	15	0.91	13.65	2.10
N - 7	5.00	15	0.91	13.65	2.10
N - 8	5.00	15	0.91	13.65	2.10
N - 9	5.00	15	0.91	13.65	2.10
N - 10	5.00	15	0.91	13.65	2.10
N - 11	5.00	15	0.91	13.65	2.10
N - 12	5.00	16	0.91	14.56	2.24

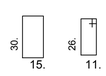
Consumo total por bitola

Bitola	Peso Tot (kg)
5.00	21.30
8.00	40.84

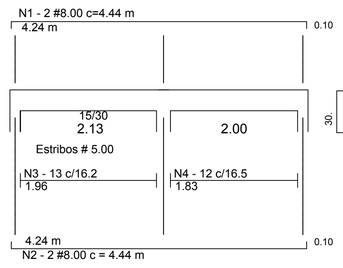
Arame recosido (18) = 1.24 kg

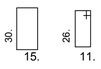
Vol. Concreto = 1156 litros
(Peso aço)/(Vol. concreto) = 54 kg/m3

fck = 20 MPa
fyk = 500 MPa
cobrimento = 2.00 cm



C6 - 15/30 - Compr.Tot. Viga = 4.28 m





Consumo total por bitola

Bitola	Peso Tot (kg)
5.00	3.50
8.00	7.02

Arame recosido (18) = 0.21 kg

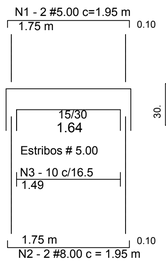
Vol. Concreto = 192 litros
(Peso aço)/(Vol. concreto) = 55 kg/m3

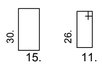
fck = 20 MPa
fyk = 500 MPa
cobrimento = 2.00 cm

Quadro resumo de aço

Posição	Bitola (mm)	Quant.	Compr. (m)	Compr. Tot (m)	Peso Tot (kg)
N - 1	8.00	2	4.44	8.88	3.51
N - 2	8.00	2	4.44	8.88	3.51
N - 3	5.00	13	0.91	11.83	1.82
N - 4	5.00	12	0.91	10.92	1.68

C4 - 15/30 - Compr.Tot. Viga = 1.79 m





Consumo total por bitola

Bitola	Peso Tot (kg)
5.00	2.00
8.00	1.54

Arame recosido (18) = 0.07 kg

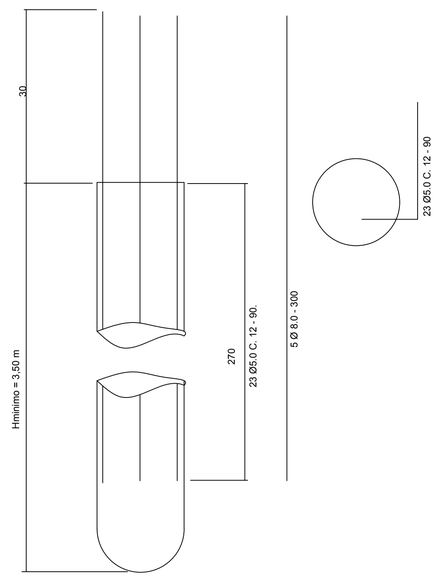
Vol. Concreto = 80 litros
(Peso aço)/(Vol. concreto) = 44 kg/m3

fck = 20 MPa
fyk = 500 MPa
cobrimento = 2.00 cm

Quadro resumo de aço

Posição	Bitola (mm)	Quant.	Compr. (m)	Compr. Tot (m)	Peso Tot (kg)
N - 1	5.00	2	1.95	3.90	0.60
N - 2	8.00	2	1.95	3.90	1.54
N - 3	5.00	10	0.91	9.10	1.40

ARMAÇÃO DAS ESTACAS - Fck > 13,5 Mpa (43X)



PILARES (15X15) - 43X

ESCOLA MUNICIPAL ANTÔNIO RODRIGUES CAROLINO

LOCAL: CARMO DO PARANAÍBA - MG

ENDEREÇO: RUA A, S/N – COMUNIDADE RURAL DE SÃO BENTO

PROPRIETÁRIO: MUNICÍPIO DE CARMO DO PARANAÍBA

AUTOR DO PROJETO: FERNANDO FERREIRA ROCHA

RESP. TÉCNICO:

ASS. PROPRIETÁRIO

ASS.RT/AUTOR PROJETO — CREA: 77.437/D

VIGILÂNCIA SANITÁRIA

CREA

DRLFO

FOLHA	PROJETO ESTRUTURAL-MURO				AREA m^2
04/5	ARMAÇÃO DAS ESTACAS,CINTAS E PILARES				
	DATA MAIO/2020	VISTO	ESC. INDICADA	CAD PAULO MOREIRA	