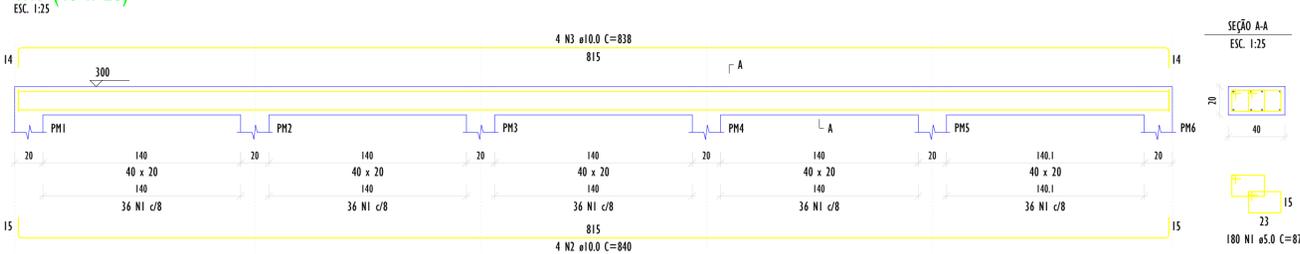
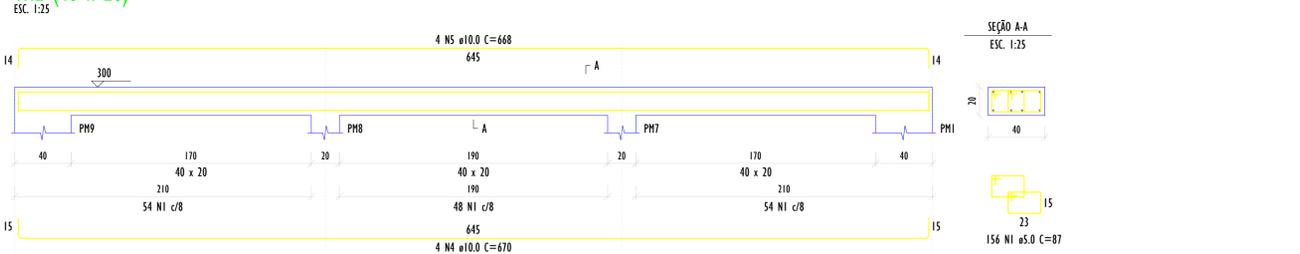


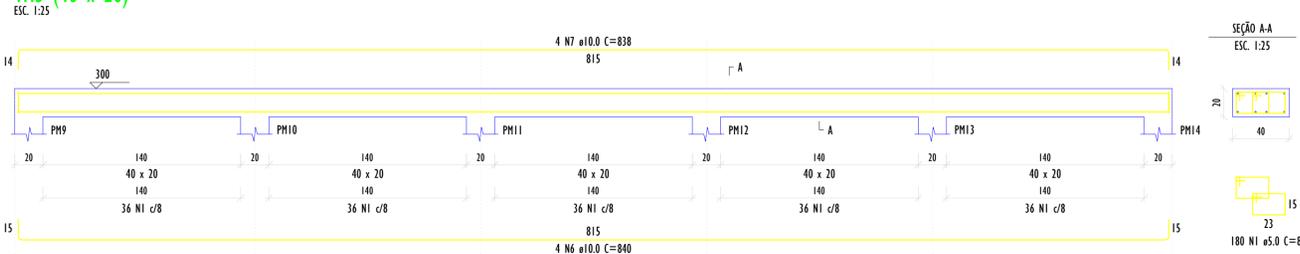
**VM1 (40 x 20)**



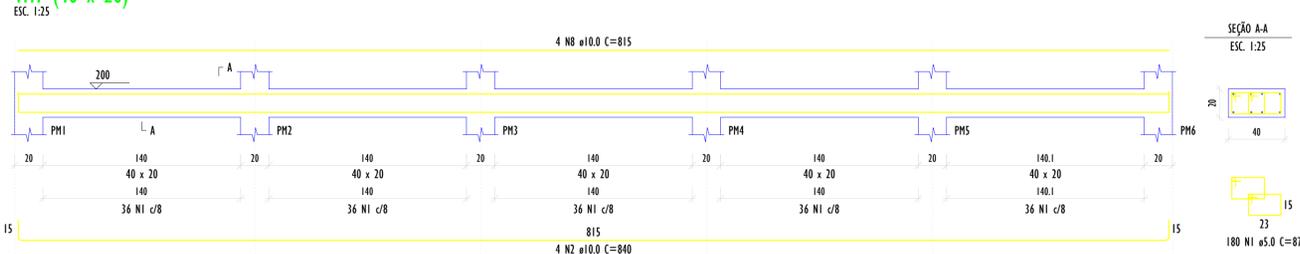
**VM2 (40 x 20)**



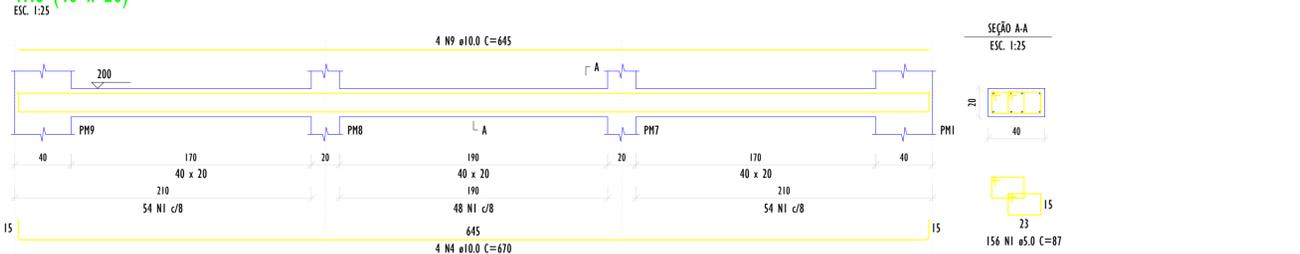
**VM3 (40 x 20)**



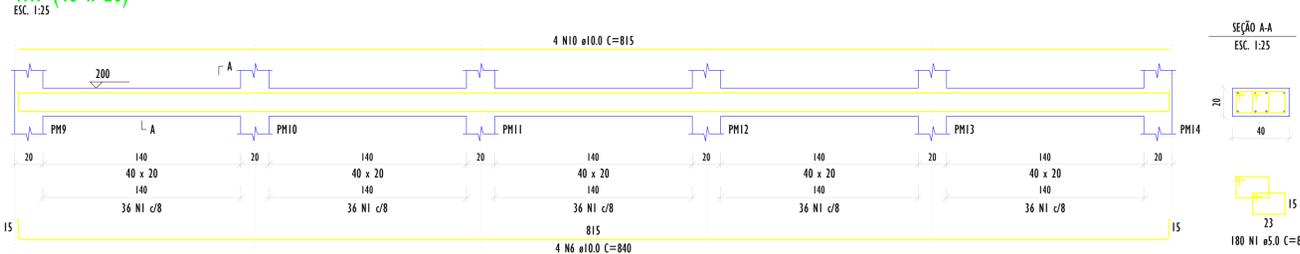
**VM7 (40 x 20)**



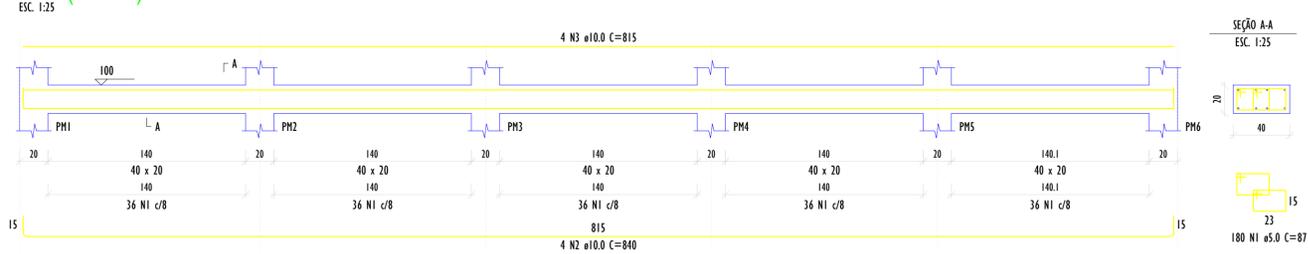
**VM8 (40 x 20)**



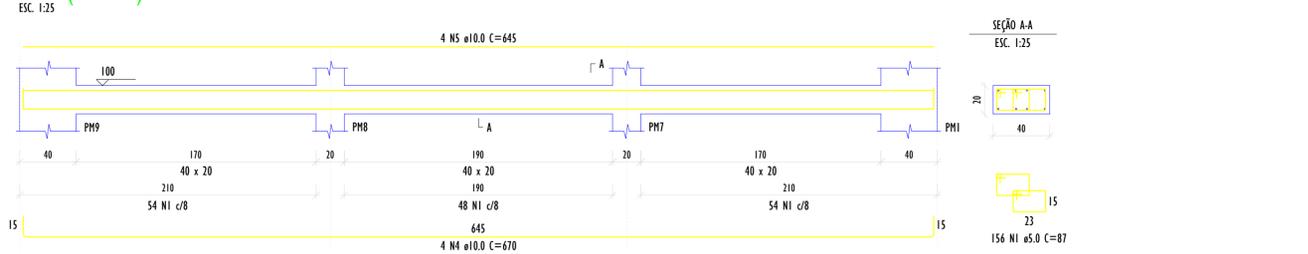
**VM9 (40 x 20)**



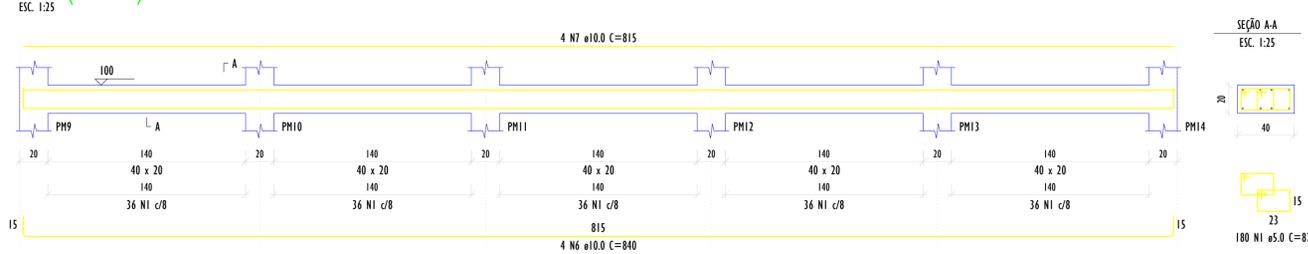
**VM13 (40 x 20)**



**VM14 (40 x 20)**



**VM15 (40 x 20)**



RELAÇÃO DO AÇO

VM13	VM14	VM15																																																
<table border="1"> <thead> <tr> <th>AÇO</th> <th>N</th> <th>DIAM (mm)</th> <th>QUANT</th> <th>C.UNIT (cm)</th> <th>C.TOTAL (cm)</th> </tr> </thead> <tbody> <tr><td>CA60</td><td>1</td><td>5.0</td><td>516</td><td>87</td><td>44892</td></tr> <tr><td>CASO</td><td>2</td><td>10.0</td><td>4</td><td>840</td><td>3360</td></tr> <tr><td></td><td>3</td><td>10.0</td><td>4</td><td>815</td><td>3260</td></tr> <tr><td></td><td>4</td><td>10.0</td><td>4</td><td>870</td><td>3480</td></tr> <tr><td></td><td>5</td><td>10.0</td><td>4</td><td>645</td><td>2580</td></tr> <tr><td></td><td>6</td><td>10.0</td><td>4</td><td>840</td><td>3360</td></tr> <tr><td></td><td>7</td><td>10.0</td><td>4</td><td>815</td><td>3260</td></tr> </tbody> </table>	AÇO	N	DIAM (mm)	QUANT	C.UNIT (cm)	C.TOTAL (cm)	CA60	1	5.0	516	87	44892	CASO	2	10.0	4	840	3360		3	10.0	4	815	3260		4	10.0	4	870	3480		5	10.0	4	645	2580		6	10.0	4	840	3360		7	10.0	4	815	3260		
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RESUMO DO AÇO

AÇO	DIAM (mm)	C.TOTAL (m)	QUANT + 0% (Barras)	PESO + 0% (kg)
CASO	10.0	185	16	114.1
CA60	5.0	448.9	38	69.2
PESO TOTAL (kg)				183.3
CASO		114.1		69.2
CA60		69.2		114.1

Volume de concreto (C-30) = 1.59 m³  
 Área de forma = 15.92 m²

RELAÇÃO DO AÇO

VM1	VM2	VM3																																																																		
VM7	VM8	VM9																																																																		
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RESUMO DO AÇO

AÇO	DIAM (mm)	C.TOTAL (m)	QUANT + 0% (Barras)	PESO + 0% (kg)
CASO	10.0	372.8	32	229.8
CA60	5.0	897.8	75	138.4
PESO TOTAL (kg)				368.2
CASO		229.8		138.4
CA60		138.4		229.8

Volume de concreto (C-30) = 3.18 m³  
 Área de forma = 31.84 m²

**ProSen** Projetos & Serviços de Engenharia Ltda.

**Prefeitura Municipal Santa Cruz do Escalvado**  
 ESTADO DE MINAS GERAIS  
 Administração 2025-2028

<b>OBJETO</b> REFORMA E AMPLIAÇÃO DO CENTRO COMUNITÁRIO NA COMUNIDADE DE CHACRINHA	<b>NO OPERAÇÃO</b>
<b>RESPONSÁVEL TÉCNICO PELO PROJETO</b> Eng. Civil WILSON DIAS DA FONSECA JR.	<b>DATA</b> JAN / 26
<b>PREFEITO MUNICIPAL</b> GILMAR DE PAULA LIMA	<b>ÁREA</b> 61.924 / D
<b>CONTEÚDO</b> DETALHES ESTRUTURAIS	<b>CPF</b> 697.293.526-15
<b>LOCALIZAÇÃO</b> Zona Rural de Santa Cruz do Escalvado (MG)	<b>ESCALA</b> Indicadas
<b>PRELIMINAR</b> RECURSOS RENOVA	<b>TÓRREX</b> 08/10