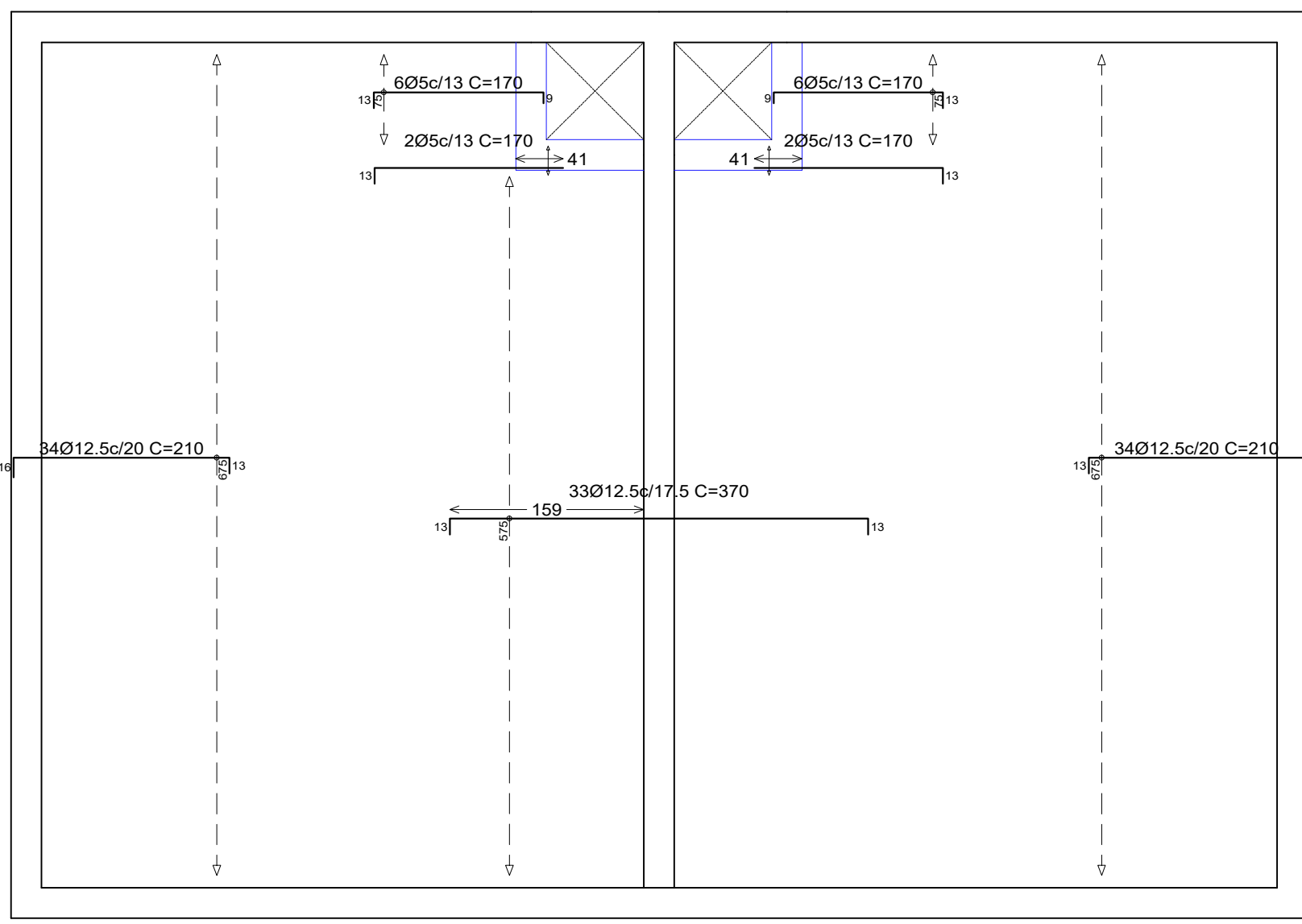
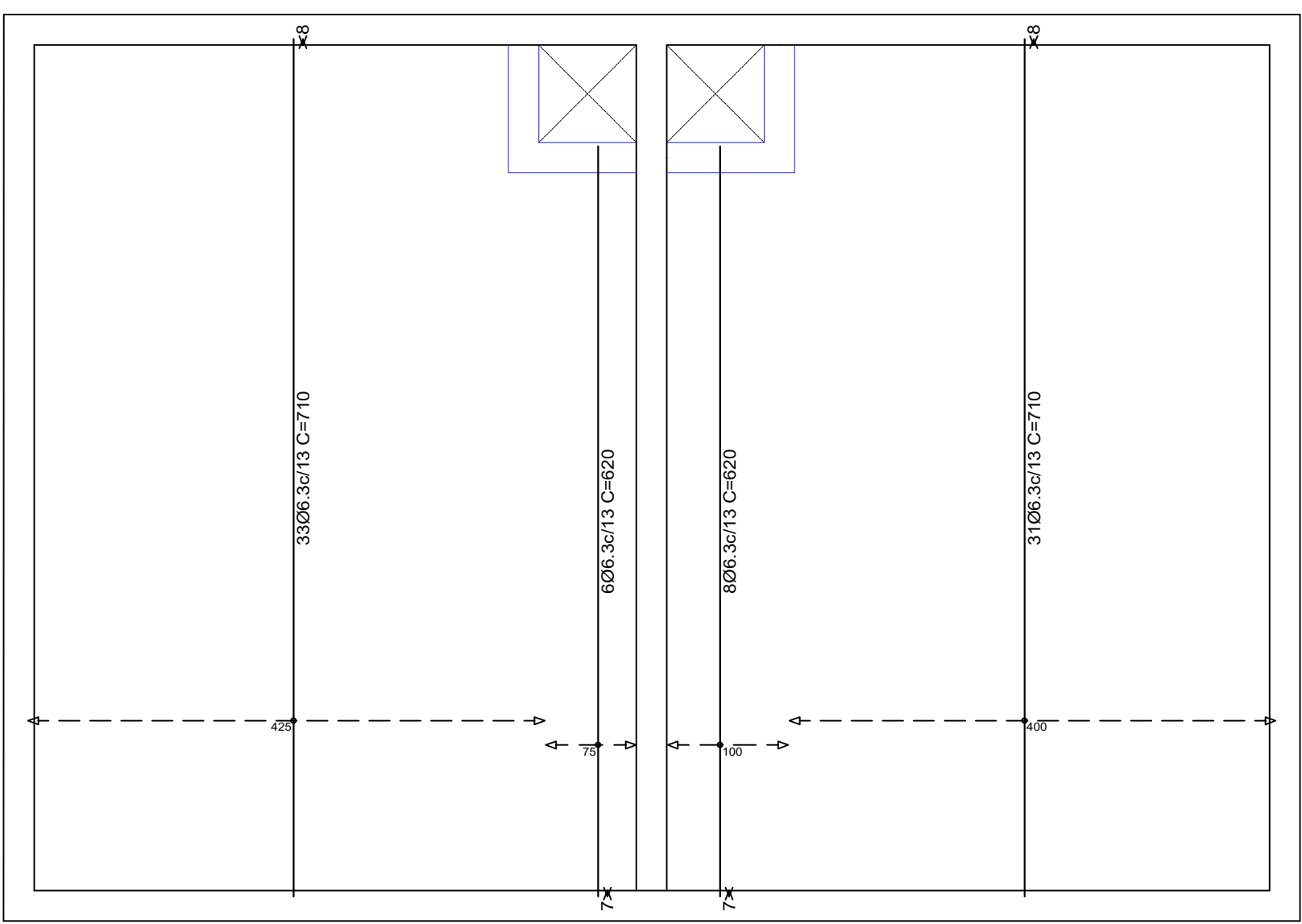


FORMA DA LAJE DE FECHAMENTO  
(Reservatório d' água - INFERIOR)



ARMAÇÃO DA LAJE DE FECHAMENTO  
(Reservatório d' água - INFERIOR)

Elemento	Pos.	Diam.	Q.	Dob. (cm)	Reta (cm)	Dob. (cm)	Comp. (cm)	Total (cm)	CA-50 (kg)	CA-60 (kg)
Armadura longitudinal inferior	1	Ø8	80		510		510	40800	161.1	
Total+10%:									177.2	
Total:									177.2	0.0
Ø8:									177.2	0.0
Elemento	Pos.	Diam.	Q. <td>Dob. (cm) <td>Reta (cm) <td>Dob. (cm) <td>Comp. (cm) <td>Total (cm) <td>CA-50 (kg)</td> <td>CA-60 (kg)</td> </td></td></td></td></td>	Dob. (cm) <td>Reta (cm) <td>Dob. (cm) <td>Comp. (cm) <td>Total (cm) <td>CA-50 (kg)</td> <td>CA-60 (kg)</td> </td></td></td></td>	Reta (cm) <td>Dob. (cm) <td>Comp. (cm) <td>Total (cm) <td>CA-50 (kg)</td> <td>CA-60 (kg)</td> </td></td></td>	Dob. (cm) <td>Comp. (cm) <td>Total (cm) <td>CA-50 (kg)</td> <td>CA-60 (kg)</td> </td></td>	Comp. (cm) <td>Total (cm) <td>CA-50 (kg)</td> <td>CA-60 (kg)</td> </td>	Total (cm) <td>CA-50 (kg)</td> <td>CA-60 (kg)</td>	CA-50 (kg)	CA-60 (kg)
Armadura transversal inferior	1	Ø6.3	78		710		710	55380	135.6	
Total+10%:									149.2	
Total:									149.2	0.0
Ø6.3:									149.2	0.0
Elemento	Pos.	Diam.	Q. <td>Dob. (cm) <td>Reta (cm) <td>Dob. (cm) <td>Comp. (cm) <td>Total (cm) <td>CA-50 (kg)</td> <td>CA-60 (kg)</td> </td></td></td></td></td>	Dob. (cm) <td>Reta (cm) <td>Dob. (cm) <td>Comp. (cm) <td>Total (cm) <td>CA-50 (kg)</td> <td>CA-60 (kg)</td> </td></td></td></td>	Reta (cm) <td>Dob. (cm) <td>Comp. (cm) <td>Total (cm) <td>CA-50 (kg)</td> <td>CA-60 (kg)</td> </td></td></td>	Dob. (cm) <td>Comp. (cm) <td>Total (cm) <td>CA-50 (kg)</td> <td>CA-60 (kg)</td> </td></td>	Comp. (cm) <td>Total (cm) <td>CA-50 (kg)</td> <td>CA-60 (kg)</td> </td>	Total (cm) <td>CA-50 (kg)</td> <td>CA-60 (kg)</td>	CA-50 (kg)	CA-60 (kg)
Armadura longitudinal superior	1	Ø10	54	11	176	13	200	10800	66.6	
2	Ø12.5	38	13	344	13	370	14060	135.4		
3	Ø10	54	13	176			10800	66.6		
Total+10%:									295.5	
Total:									295.5	0.0
Ø10:									146.5	0.0
Ø12.5:									149.0	0.0
Total:									295.5	0.0
Elemento	Pos.	Diam.	Q. <td>Dob. (cm) <td>Reta (cm) <td>Dob. (cm) <td>Comp. (cm) <td>Total (cm) <td>CA-50 (kg)</td> <td>CA-60 (kg)</td> </td></td></td></td></td>	Dob. (cm) <td>Reta (cm) <td>Dob. (cm) <td>Comp. (cm) <td>Total (cm) <td>CA-50 (kg)</td> <td>CA-60 (kg)</td> </td></td></td></td>	Reta (cm) <td>Dob. (cm) <td>Comp. (cm) <td>Total (cm) <td>CA-50 (kg)</td> <td>CA-60 (kg)</td> </td></td></td>	Dob. (cm) <td>Comp. (cm) <td>Total (cm) <td>CA-50 (kg)</td> <td>CA-60 (kg)</td> </td></td>	Comp. (cm) <td>Total (cm) <td>CA-50 (kg)</td> <td>CA-60 (kg)</td> </td>	Total (cm) <td>CA-50 (kg)</td> <td>CA-60 (kg)</td>	CA-50 (kg)	CA-60 (kg)
Armadura transversal superior	1	Ø8	92	9	278	13	300	27600	109.0	
2	Ø8	92	13	278	9	300	27600	109.0		
Total+10%:									239.8	
Total:									239.8	0.0
Ø8:									239.8	0.0
Elemento	Pos.	Diam.	Q. <td>Dob. (cm) <td>Reta (cm) <td>Dob. (cm) <td>Comp. (cm) <td>Total (cm) <td>CA-50 (kg)</td> <td>CA-60 (kg)</td> </td></td></td></td></td>	Dob. (cm) <td>Reta (cm) <td>Dob. (cm) <td>Comp. (cm) <td>Total (cm) <td>CA-50 (kg)</td> <td>CA-60 (kg)</td> </td></td></td></td>	Reta (cm) <td>Dob. (cm) <td>Comp. (cm) <td>Total (cm) <td>CA-50 (kg)</td> <td>CA-60 (kg)</td> </td></td></td>	Dob. (cm) <td>Comp. (cm) <td>Total (cm) <td>CA-50 (kg)</td> <td>CA-60 (kg)</td> </td></td>	Comp. (cm) <td>Total (cm) <td>CA-50 (kg)</td> <td>CA-60 (kg)</td> </td>	Total (cm) <td>CA-50 (kg)</td> <td>CA-60 (kg)</td>	CA-50 (kg)	CA-60 (kg)
Armadura transversal superior	1	Ø10	56	11	276	13	300	16800	103.5	
2	Ø5	12	13	178	9	200	2400	2400		
3	Ø10	25	13	286	11	310	7750	47.8		
4	Ø10	25	13	276	11	300	7500	46.2		
5	Ø5	4	13	187		200	800	800		
Total+10%:									217.3	5.6
Total:									217.3	5.6
Ø5:									0.0	5.6
Ø10:									217.3	0.0
Total:									217.3	5.6
Elemento	Pos.	Diam.	Q. <td>Dob. (cm) <td>Reta (cm) <td>Dob. (cm) <td>Comp. (cm) <td>Total (cm) <td>CA-50 (kg)</td> <td>CA-60 (kg)</td> </td></td></td></td></td>	Dob. (cm) <td>Reta (cm) <td>Dob. (cm) <td>Comp. (cm) <td>Total (cm) <td>CA-50 (kg)</td> <td>CA-60 (kg)</td> </td></td></td></td>	Reta (cm) <td>Dob. (cm) <td>Comp. (cm) <td>Total (cm) <td>CA-50 (kg)</td> <td>CA-60 (kg)</td> </td></td></td>	Dob. (cm) <td>Comp. (cm) <td>Total (cm) <td>CA-50 (kg)</td> <td>CA-60 (kg)</td> </td></td>	Comp. (cm) <td>Total (cm) <td>CA-50 (kg)</td> <td>CA-60 (kg)</td> </td>	Total (cm) <td>CA-50 (kg)</td> <td>CA-60 (kg)</td>	CA-50 (kg)	CA-60 (kg)
Armadura longitudinal inferior	1	Ø8	68		510		510	34680	136.9	
2	Ø8	10		420		420	4200	16.6		
Total+10%:									168.9	
Total:									168.9	0.0
Ø8:									168.9	0.0
Elemento	Pos.	Diam.	Q. <td>Dob. (cm) <td>Reta (cm) <td>Dob. (cm) <td>Comp. (cm) <td>Total (cm) <td>CA-50 (kg)</td> <td>CA-60 (kg)</td> </td></td></td></td></td>	Dob. (cm) <td>Reta (cm) <td>Dob. (cm) <td>Comp. (cm) <td>Total (cm) <td>CA-50 (kg)</td> <td>CA-60 (kg)</td> </td></td></td></td>	Reta (cm) <td>Dob. (cm) <td>Comp. (cm) <td>Total (cm) <td>CA-50 (kg)</td> <td>CA-60 (kg)</td> </td></td></td>	Dob. (cm) <td>Comp. (cm) <td>Total (cm) <td>CA-50 (kg)</td> <td>CA-60 (kg)</td> </td></td>	Comp. (cm) <td>Total (cm) <td>CA-50 (kg)</td> <td>CA-60 (kg)</td> </td>	Total (cm) <td>CA-50 (kg)</td> <td>CA-60 (kg)</td>	CA-50 (kg)	CA-60 (kg)
Armadura transversal inferior	1	Ø6.3	14		620		620	8680	21.3	
2	Ø6.3	64		710		710	45440	111.3		
Total+10%:									145.9	
Total:									145.9	0.0
Ø6.3:									145.9	0.0
Elemento	Pos.	Diam.	Q. <td>Dob. (cm) <td>Reta (cm) <td>Dob. (cm) <td>Comp. (cm) <td>Total (cm) <td>CA-50 (kg)</td> <td>CA-60 (kg)</td> </td></td></td></td></td>	Dob. (cm) <td>Reta (cm) <td>Dob. (cm) <td>Comp. (cm) <td>Total (cm) <td>CA-50 (kg)</td> <td>CA-60 (kg)</td> </td></td></td></td>	Reta (cm) <td>Dob. (cm) <td>Comp. (cm) <td>Total (cm) <td>CA-50 (kg)</td> <td>CA-60 (kg)</td> </td></td></td>	Dob. (cm) <td>Comp. (cm) <td>Total (cm) <td>CA-50 (kg)</td> <td>CA-60 (kg)</td> </td></td>	Comp. (cm) <td>Total (cm) <td>CA-50 (kg)</td> <td>CA-60 (kg)</td> </td>	Total (cm) <td>CA-50 (kg)</td> <td>CA-60 (kg)</td>	CA-50 (kg)	CA-60 (kg)
Armadura longitudinal superior	1	Ø12.5	34	16	181	13	210	7140	68.8	
2	Ø12.5	33	13	344	13	370	12210	117.6		
3	Ø12.5	34	13	181	16	210	7140	68.8		
4	Ø5	6	13	148	9	170	1020	1020		
5	Ø5	6	9	148	13	170	1020	1020		
6	Ø5	4	13	157		170	680	680		
Total+10%:									280.7	4.7
Total:									280.7	4.7
Ø5:									0.0	4.7
Ø12.5:									280.7	0.0
Total:									280.7	4.7

DESCRIÇÃO:  
Projeto da estrutura mista (concreto armado e metálica) para construção de uma escola municipal com 25 salas de aula, localizada na Rua Luiz Pedro da Silva - loteamento Colorado, no município de Toritama - PE.

CLEYTON DA SILVA ENGENHARIA - EIRELI  
CNPJ: 27.928.441/0001-04  
CREA 598860 - PE

Cleyton da Silva  
Engenheiro Civil  
CREA 12814477 D/PE

Secretaria de Educação, Ciência e Tecnologia  
C.N.P.J. 31.287.647/0001-70

NATUREZA:  
Projeto estrutural

PROPRIETÁRIO:  
Secretaria de Educação, Ciência e Tecnologia  
C.N.P.J. 31.287.647/0001-70

DESENHOS:  
Projeto estrutural (RESERVATÓRIO D' ÁGUA - INFERIOR)



ÁREAS GERAIS:  
Área do terreno = 9.611,47 m<sup>2</sup>  
Área de solo natural = 1.389,09m<sup>2</sup> ----- 14,45%  
Área de solo permeável = 1.389,09m<sup>2</sup> ----- 14,45%  
Área de solo impermeável = 8.222,38m<sup>2</sup> ----- 85,55%  
Área construída = 6.791,63m<sup>2</sup> ----- 70,66%

ESCALA: 1/100, 1/50 e 1/20  
PRANCHA: 32/55  
DATA: Abril de 2024