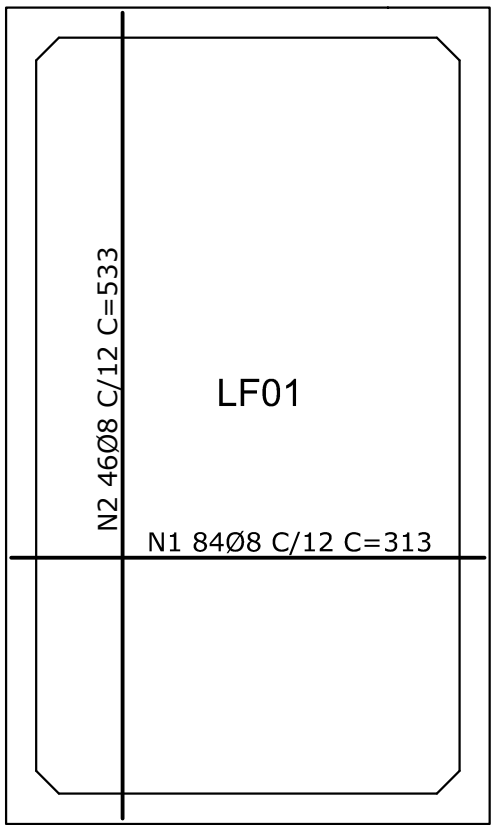
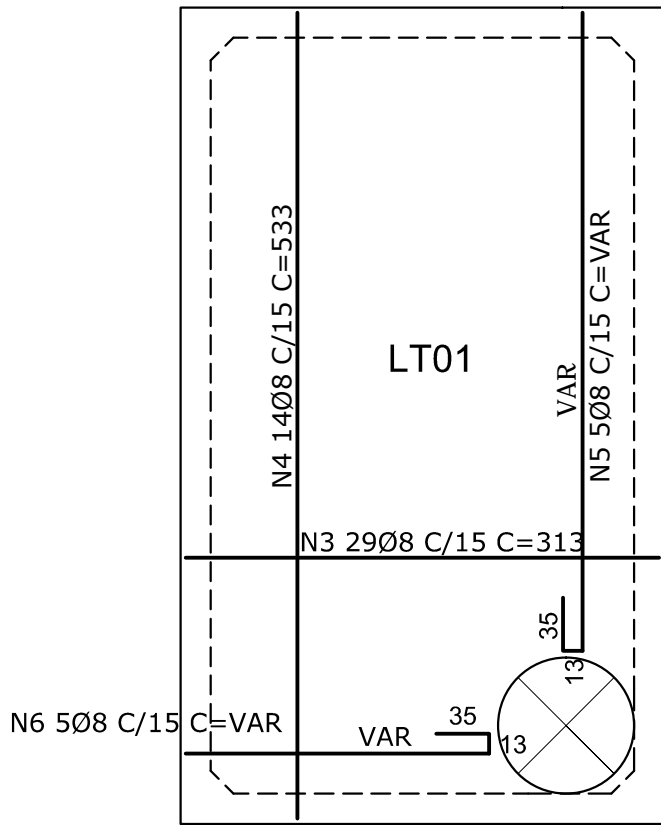


ARMAÇÃO DAS LAJES DA CISTERNA

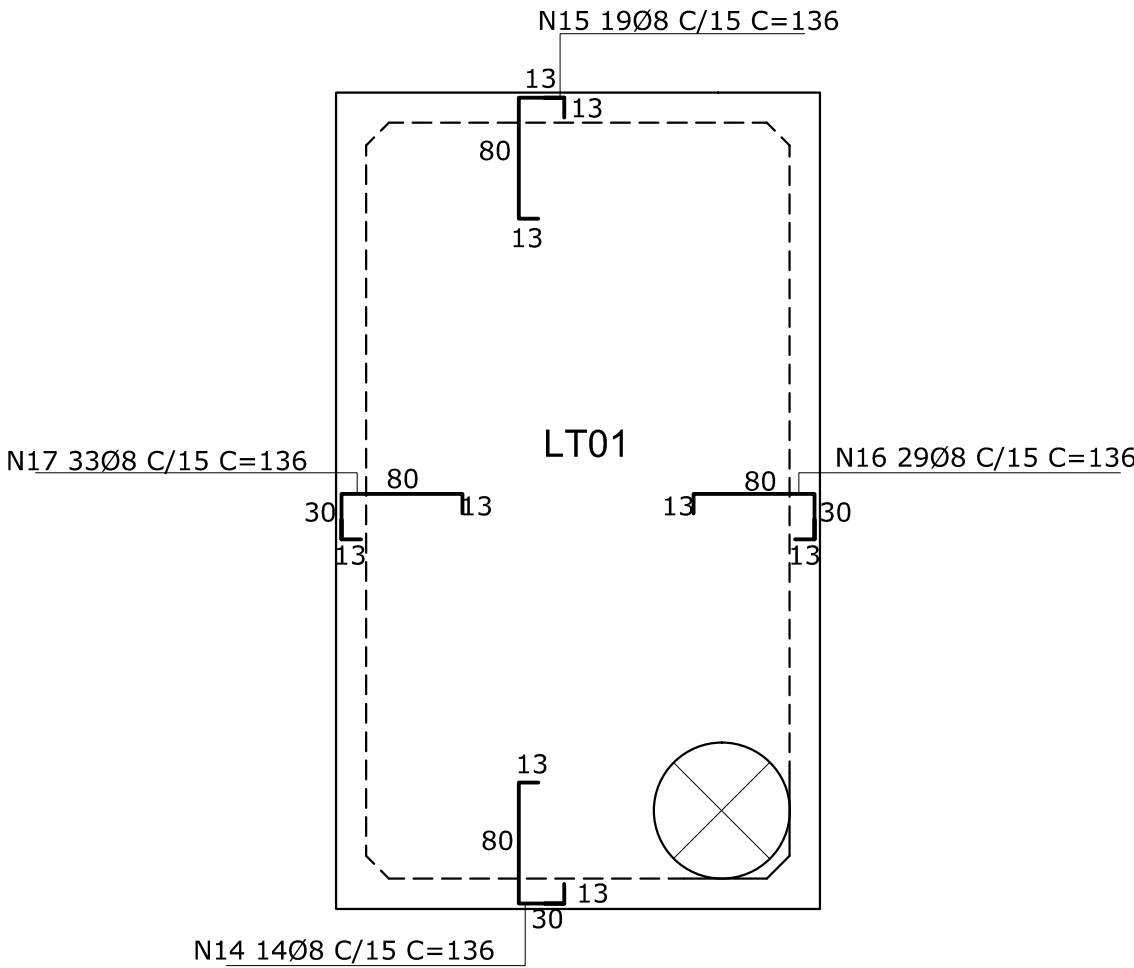
POSITIVA/NEGATIVA (FUNDO)



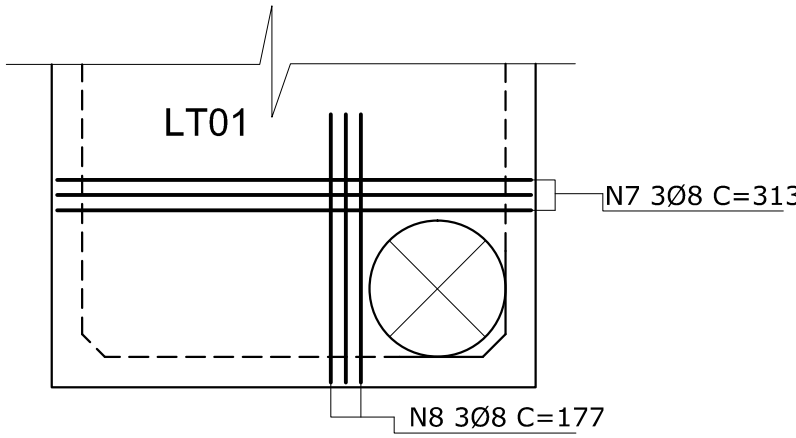
POSITIVA (TAMPA)



NEGATIVA (TAMPA)



REFORÇO (TAMPA)

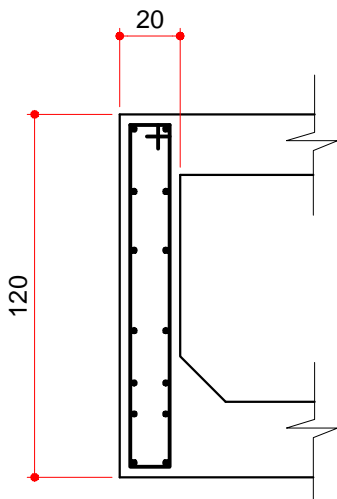
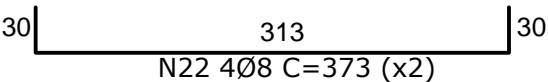
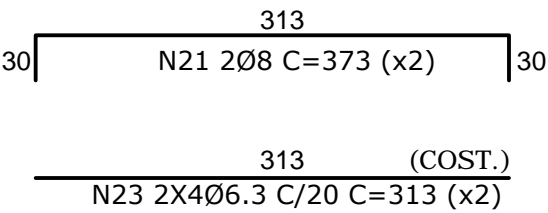
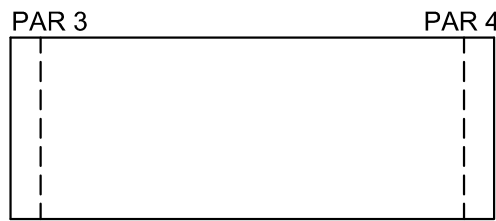


| N  | Ø   | Quant. | C(cm) | T(m)   |
|----|-----|--------|-------|--------|
| 1  | 8   | 84     | 313   | 262.92 |
| 2  | 8   | 46     | 533   | 245.18 |
| 3  | 8   | 29     | 313   | 90.77  |
| 4  | 8   | 14     | 533   | 74.62  |
| 5  | 8   | 5      | VAR   | 26.65  |
| 6  | 8   | 5      | VAR   | 15.65  |
| 7  | 8   | 3      | 313   | 9.39   |
| 8  | 8   | 3      | 177   | 5.31   |
| 9  | 8   | 46     | 264   | 121.44 |
| 10 | 8   | 84     | 264   | 221.76 |
| 11 | 6.3 | 16     | 146   | 23.36  |
| 12 | 6.3 | 16     | 172   | 27.52  |
| 13 | 6.3 | 16     | 93    | 14.88  |
| 14 | 8   | 14     | 136   | 19.04  |
| 15 | 8   | 19     | 136   | 25.84  |
| 16 | 8   | 29     | 136   | 39.44  |
| 17 | 8   | 33     | 136   | 44.88  |
| 18 | 8   | 130    | 146   | 189.8  |
| 19 | 8   | 130    | 172   | 223.6  |
| 20 | 8   | 130    | 93    | 120.9  |
| 21 | 8   | 4      | 373   | 14.92  |
| 22 | 8   | 8      | 373   | 29.84  |
| 23 | 6.3 | 16     | 313   | 50.08  |
| 24 | 8   | 4      | 593   | 23.72  |
| 25 | 8   | 8      | 593   | 47.44  |
| 26 | 6.3 | 16     | 533   | 85.28  |

| QUADRO DE RESUMO |     |          |
|------------------|-----|----------|
| AÇO              | Ø   | Peso(kg) |
| CA50             | 6.3 | 203.13   |
| CA50             | 8.0 | 1871.64  |
| Peso total =     |     | 787.19   |

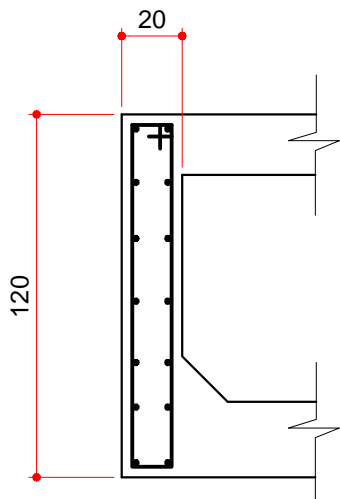
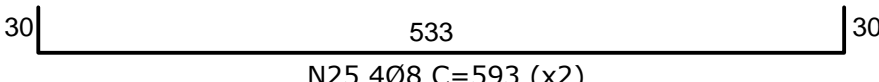
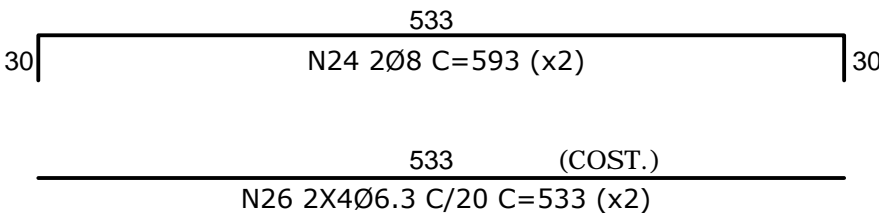
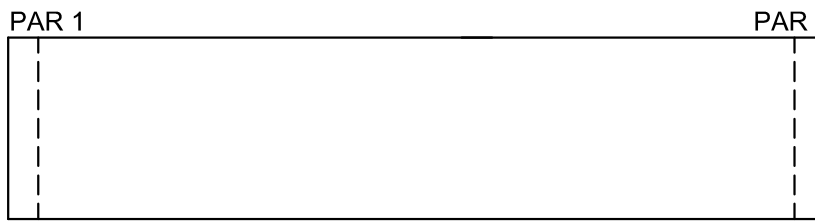
Volume de concreto (C35) = 10.35 m³  
Área de forma = 58.88 m²

PAR 1/PAR 2 20/120 (x2)



N9 2308 C/12 C=264 (x2)

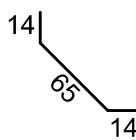
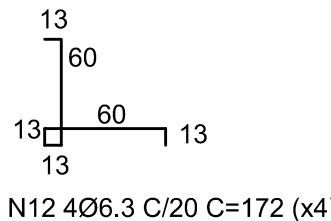
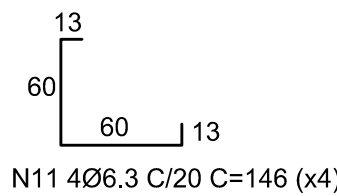
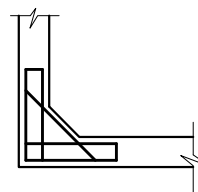
PAR 3/PAR 4 20/120 (x2)



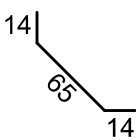
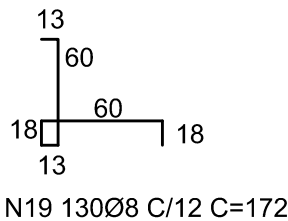
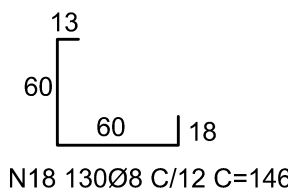
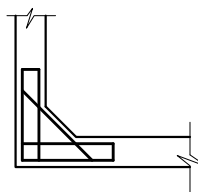
N10 4208 C/12 C=264 (x2)

ARMAÇÃO DAS CANTONEIRAS

LIGAÇÃO PAREDE LATERAL COM PAREDE LATERAL (4X)



LIGAÇÃO PAREDE LATERAL COM LAJE FUNDO



|  |   |  |
|--|---|--|
|  |   |  |
|  |   |  |
| 00   | EMIÇÃO INICIAL  | 13/06/2016   |
| Nº   | REVISÃO   | DATA   |
| <div><div><div>ESTEL</div><div>ESTEL ENGENHARIA</div><div>Rua José Quirino, 147 - São João - CEP 88305-060 - Itajaí-SC<br/>Tel: (047) 3046-2001 Fax: (047) 3046-2004<br/>estel@estelengenharia.com.br - www.estelengenharia.com.br</div></div><div>PROJETO Nº<br/>1280/16</div><div>PROJETO<br/>ESTRUTURAL</div></div> |   |  |
| <div><div><div></div><div>MUNICÍPIO DE PARANAGUÁ</div></div><div>PROJETO<br/>PRÉDIO ADM. DA PREFEITURA DE PARANAGUÁ</div><div>CONTEÚDO<br/>ARMAÇÃO DA CISTERNA</div></div>   |   |  |
| PRANCHA Nº<br>73/75  | RESPONSÁVEL TÉCNICO<br>SÉRGIO LUIZ DO AMARAL LOZOVEY<br>CREA/SC 13708-0 | PROPRIETÁRIO<br>PREFEITURA DE PARANAGUÁ<br>UNIDADE DE GERENCIAMENTO DE PROGRAMAS |
| AUTOR DO PROJETO<br>SÉRGIO LOZOVEY   | CAD<br>ARLINE DEPINÉ  | DATA<br>03/2016  |
| VERIFICAÇÃO<br>RENATO REIS   | ESCALA<br>1:50  | REVISÃO<br>00  |
| ÁREA<br>1.850,00 m²  | ARQUIVO<br>1280-EST-73-R0   | CONTROLE DE PROJETOS<br>PROJETO DEFINITIVO ( X )<br>PROJETO NÃO DEFINITIVO ( )   |