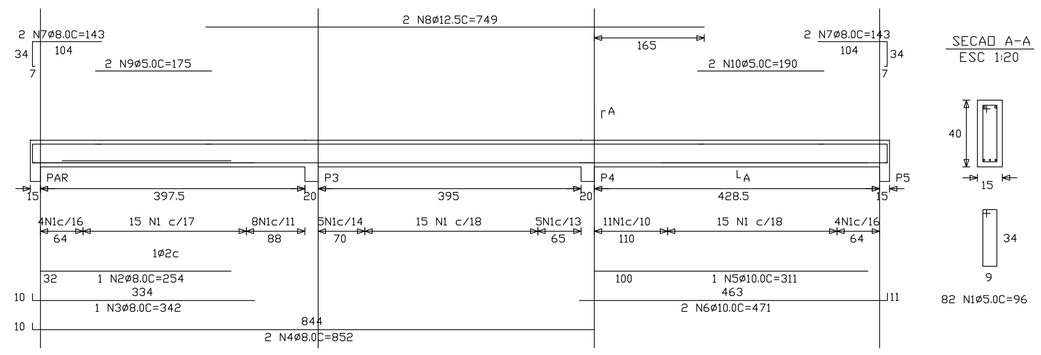
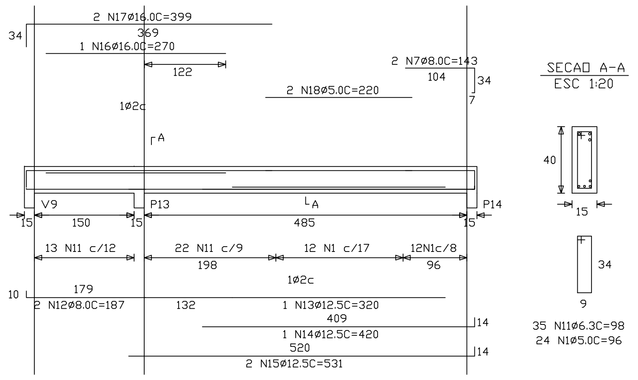
# ARMAÇÃO DAS VIGAS

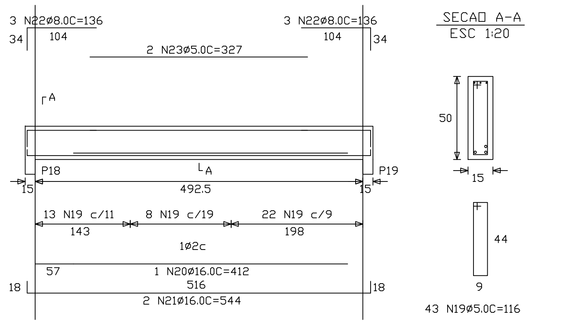
## V1



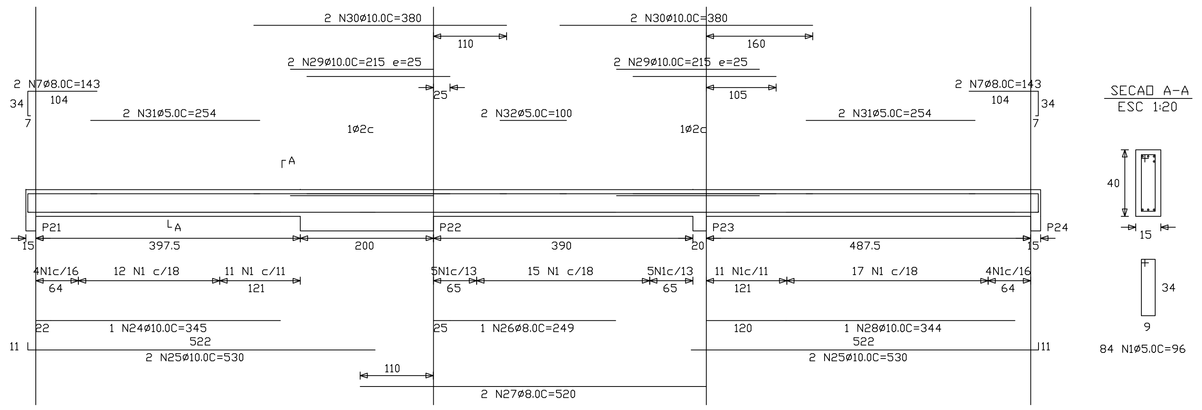

## V2



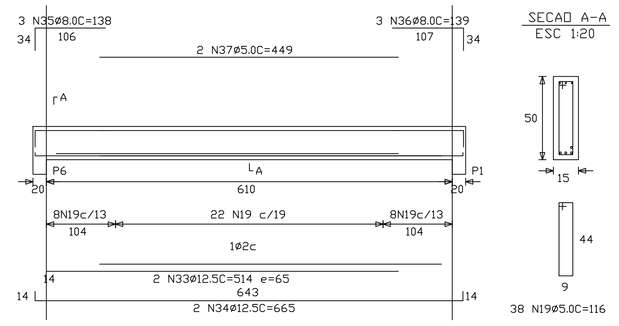

## V3



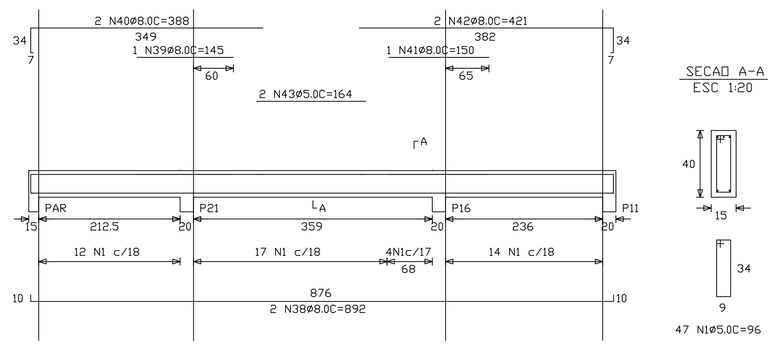

## V4



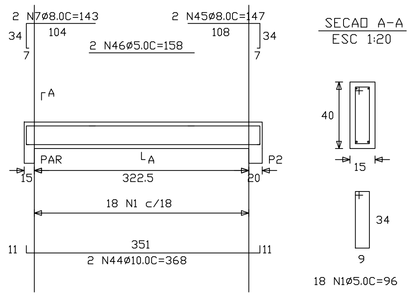

## V5



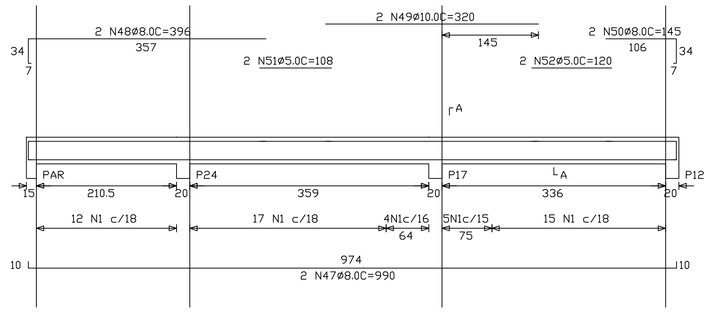

## V6



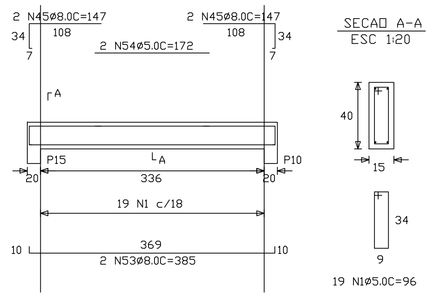

## V7



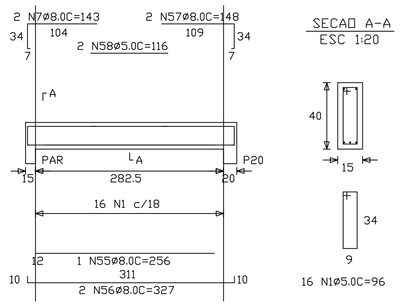

## V8



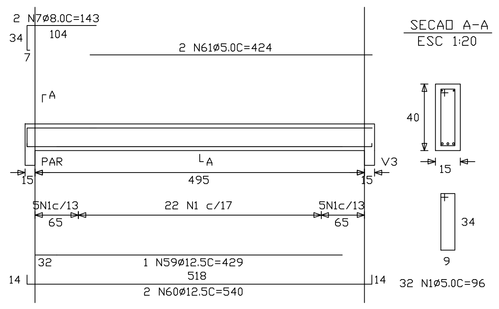

## V9



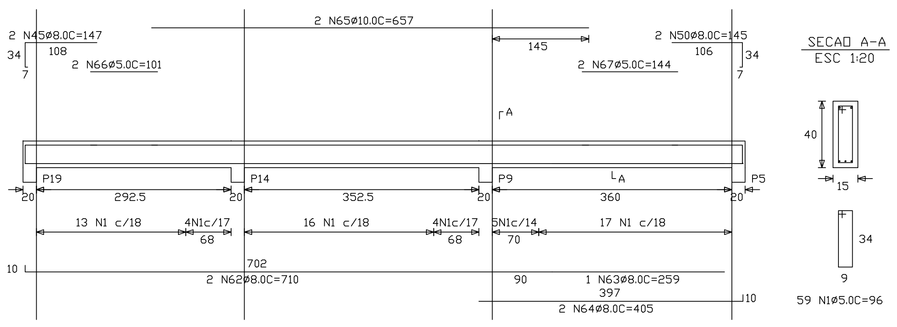

## V10



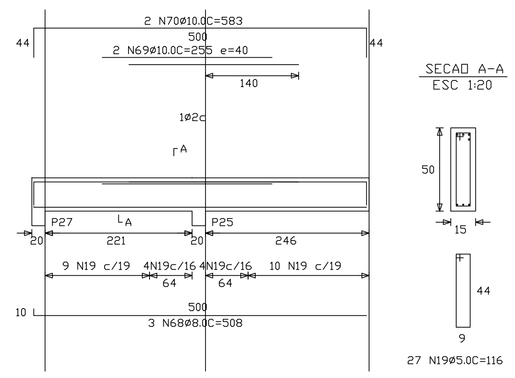

## V11



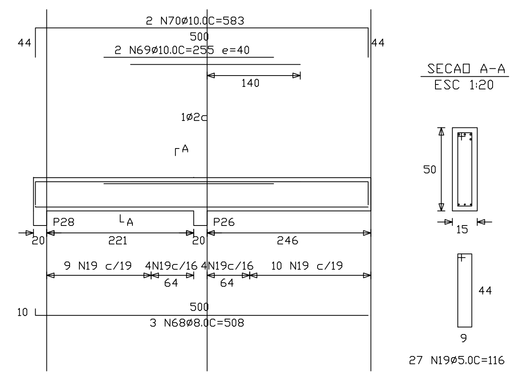

## V12




## V13




## V14




### RELACAO DO ACO

| ACO | N | DIAM. | Q. | UNIT (cm) | C. TOTAL (cm) |
|---|---|---|---|---|---|
| 50 | 2 | 8.0 | 1 | 254 | 254 |
| | 3 | 8.0 | 1 | 342 | 342 |
| | 4 | 8.0 | 2 | 852 | 1704 |
| | 7 | 8.0 | 16 | 143 | 2288 |
| | 12 | 8.0 | 2 | 187 | 374 |
| | 22 | 8.0 | 6 | 136 | 816 |
| | 26 | 8.0 | 1 | 249 | 249 |
| | 27 | 8.0 | 2 | 520 | 1040 |
| | 35 | 8.0 | 3 | 138 | 414 |
| | 36 | 8.0 | 3 | 139 | 417 |
| | 38 | 8.0 | 2 | 892 | 1784 |
| | 39 | 8.0 | 1 | 145 | 145 |
| | 40 | 8.0 | 2 | 388 | 776 |
| | 41 | 8.0 | 1 | 150 | 150 |
| | 42 | 8.0 | 2 | 421 | 842 |
| | 45 | 8.0 | 8 | 147 | 1176 |
| | 47 | 8.0 | 2 | 990 | 1980 |
| | 48 | 8.0 | 2 | 396 | 792 |
| | 50 | 8.0 | 4 | 145 | 580 |
| | 53 | 8.0 | 2 | 385 | 770 |
| | 55 | 8.0 | 1 | 256 | 256 |
| | 56 | 8.0 | 2 | 327 | 654 |
| | 57 | 8.0 | 2 | 148 | 296 |
| | 62 | 8.0 | 2 | 710 | 1420 |
| | 63 | 8.0 | 1 | 259 | 259 |
| | 64 | 8.0 | 2 | 405 | 810 |
| | 68 | 8.0 | 6 | 508 | 3048 |
| | 5 | 10.0 | 1 | 311 | 311 |
| | 6 | 10.0 | 2 | 471 | 942 |
| | 24 | 10.0 | 1 | 345 | 345 |
| | 25 | 10.0 | 4 | 530 | 2120 |
| | 28 | 10.0 | 1 | 344 | 344 |
| | 29 | 10.0 | 4 | 215 | 860 |
| | 30 | 10.0 | 4 | 380 | 1520 |
| | 44 | 10.0 | 2 | 368 | 736 |
| | 49 | 10.0 | 2 | 320 | 640 |
| | 65 | 10.0 | 2 | 657 | 1314 |
| | 69 | 10.0 | 4 | 255 | 1020 |
| | 70 | 10.0 | 4 | 583 | 2332 |
| | 8 | 12.5 | 2 | 749 | 1498 |
| | 13 | 12.5 | 1 | 320 | 320 |
| | 14 | 12.5 | 1 | 420 | 420 |
| | 15 | 12.5 | 2 | 531 | 1062 |
| | 33 | 12.5 | 2 | 514 | 1028 |
| | 34 | 12.5 | 2 | 665 | 1330 |
| | 59 | 12.5 | 1 | 429 | 429 |
| | 60 | 12.5 | 2 | 540 | 1080 |
| | 16 | 16.0 | 1 | 270 | 270 |
| | 17 | 16.0 | 2 | 399 | 798 |
| | 20 | 16.0 | 1 | 412 | 412 |
| | 21 | 16.0 | 2 | 544 | 1088 |
| | 11 | 6.3 | 35 | 98 | 3430 |
| 60 | 1 | 5.0 | 434 | 96 | 41664 |
| | 9 | 5.0 | 2 | 173 | 390 |
| | 10 | 5.0 | 2 | 190 | 380 |
| | 18 | 5.0 | 2 | 220 | 440 |
| | 19 | 5.0 | 135 | 116 | 15660 |
| | 23 | 5.0 | 2 | 327 | 654 |
| | 31 | 5.0 | 4 | 254 | 1016 |
| | 32 | 5.0 | 2 | 100 | 200 |
| | 37 | 5.0 | 2 | 449 | 898 |
| | 43 | 5.0 | 2 | 164 | 328 |
| | 46 | 5.0 | 2 | 138 | 316 |
| | 51 | 5.0 | 2 | 108 | 216 |
| | 52 | 5.0 | 2 | 120 | 240 |
| | 54 | 5.0 | 2 | 172 | 344 |
| | 58 | 5.0 | 2 | 116 | 232 |
| | 61 | 5.0 | 2 | 424 | 848 |
| | 66 | 5.0 | 2 | 101 | 202 |
| | 67 | 5.0 | 2 | 144 | 288 |

### RESUMO DO ACO

| ACO | DIAM. | C. TOTAL (m) | PESO+10% (kgf) |
|---|---|---|---|
| CA50 | 8.0 | 236.3 | 102 |
| | 10.0 | 124.8 | 86 |
| | 12.5 | 71.6 | 77 |
| | 16.0 | 25.6 | 44 |
| | 6.3 | 34.3 | 9 |
| CA60 | 5.0 | 642.7 | 111 |

| PESO TOTAL | |
|---|---|
| CA50 | 318 kgf |
| CA60 | 111 kgf |

Vol. concreto total = 6.45 m3
Area de forma total = 101.33 m2

## NOTAS

01 – CONCRETO: Fck= 30MPa.
02 – Ecs= 26GPa PARA fc:15MPa.
03 – SLUMP: 6±1 CONVENCIONAL.
8±1 BOMBEÁVEL.
04 – PREVER CURA ÚMIDA PARA 7 DIAS. QUANDO NAO FOR POSSIVEL OU CONVENIENTE, PODERA SER USADA A CURA SECA.
05 – CONSUMO DE CIMENTO MÍNIMO: 350Kg/m3.
06 – RELAÇÃO ÁGUA/CIMENTO ≤ 0,55.
07 – AÇO EM ARMADURA PASSIVA CA50 E CA60.
08 – COBRIMENTO DAS ARMADURAS = 3.0 cm
09 – COTAS EM CENTÍMETROS.
10 – PARA GARANTIR O COBRIMENTO DAS ARMADURAS DEVERÁ SER USADO ESPASSADORES PLÁSTICOS.
11 – TODA A LAJE QUE FICAR EXPOSTA AO TEMPO DEVERÁ SER IMPERMEABILIZADA USANDO MANTA ASFÁLTICA.
12 – O PROJETO E PROCEDIMENTO DO CIMBRAMENTO DA ESTRUTURA É DE RESPONSABILIDADE DA EMPRESA EXECUTORA DA OBRA, DEVENDO A MESMA OBEDECER O TEMPO MINIMO DE ESCORAMENTO DAS PEÇAS ESTRUTURAIS DE CONCRETO ARMADO CONFORME ESPECIFICA A NORMA.
13 – TRASPASSE DA MALHA POP DEVERÁ SER DE 30cm
14 – A LAJE PRÉ-MOLDADA DAVERÁ SER CONCRETADA COM A MALHA DE DISTRIBUIÇÃO.

CREMESE

| REVISÃO | COMENTÁRIOS | |
|---|---|---|
| 00 | EMISSÃO PARA APROVAÇÃO | 31/03/2014 |

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RESP. PROJETO

RESP. EXECUÇÃO
CREMESE
PROPRIETÁRIO


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(79) 8802-0043 (79) 3211-6545


PROJETO–ESTRUTURAL

| OBRA | LOCAL | | FOLHA |
|---|---|---|---|
| CREMESE | ARACAJU/SE | | 04/04 |
| ASSUNTO: ARMAÇÃO/DAS/VIGAS | | JOB N° JOB | |
| DESENHO: ARMM | ESCALA(S): INDICADAS | DATA: 31/03/2014 | |

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