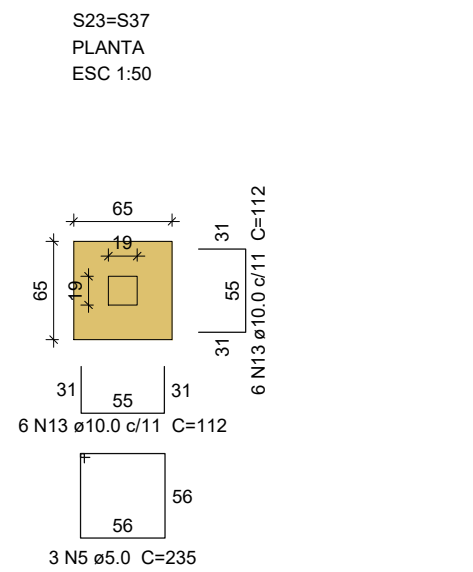
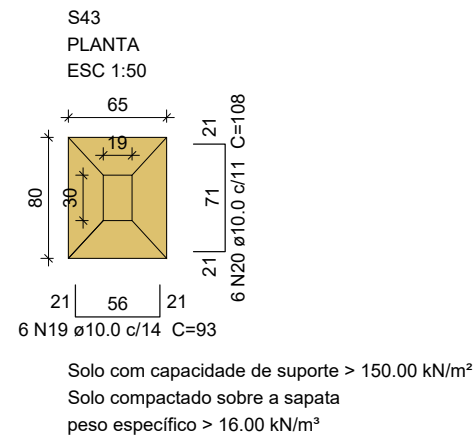


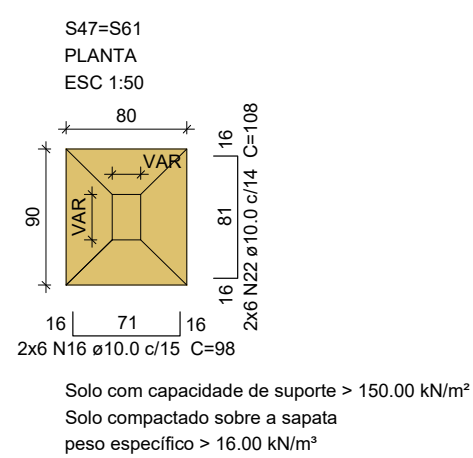
Solo com capacidade de suporte > 150.00 kN/m²  
Solo compactado sobre a sapata  
peso específico > 16.00 kN/m³



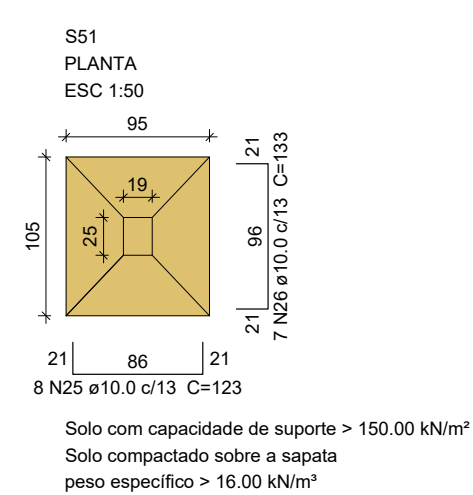
Solo com capacidade de suporte > 150.00 kN/m²  
Solo compactado sobre a sapata  
peso específico > 16.00 kN/m³



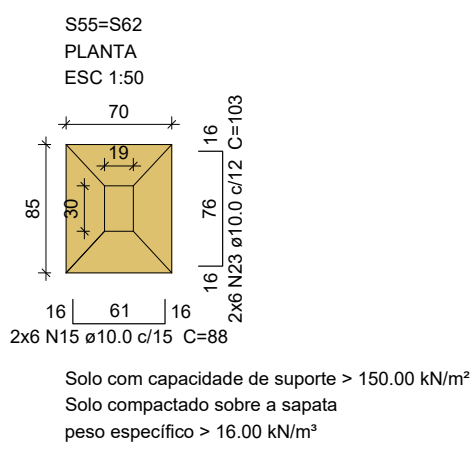
Solo com capacidade de suporte > 150.00 kN/m²  
Solo compactado sobre a sapata  
peso específico > 16.00 kN/m³



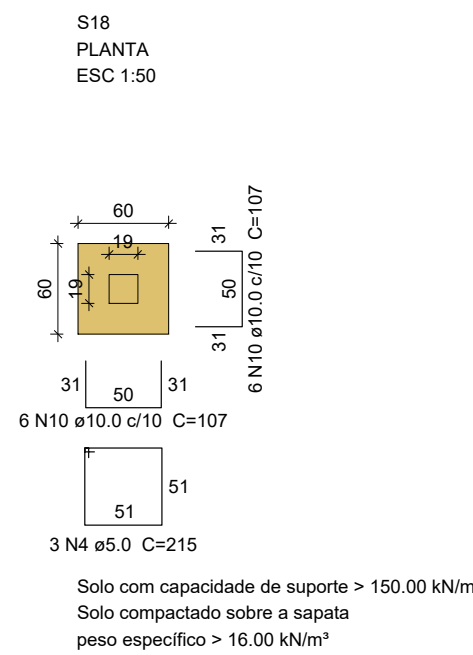
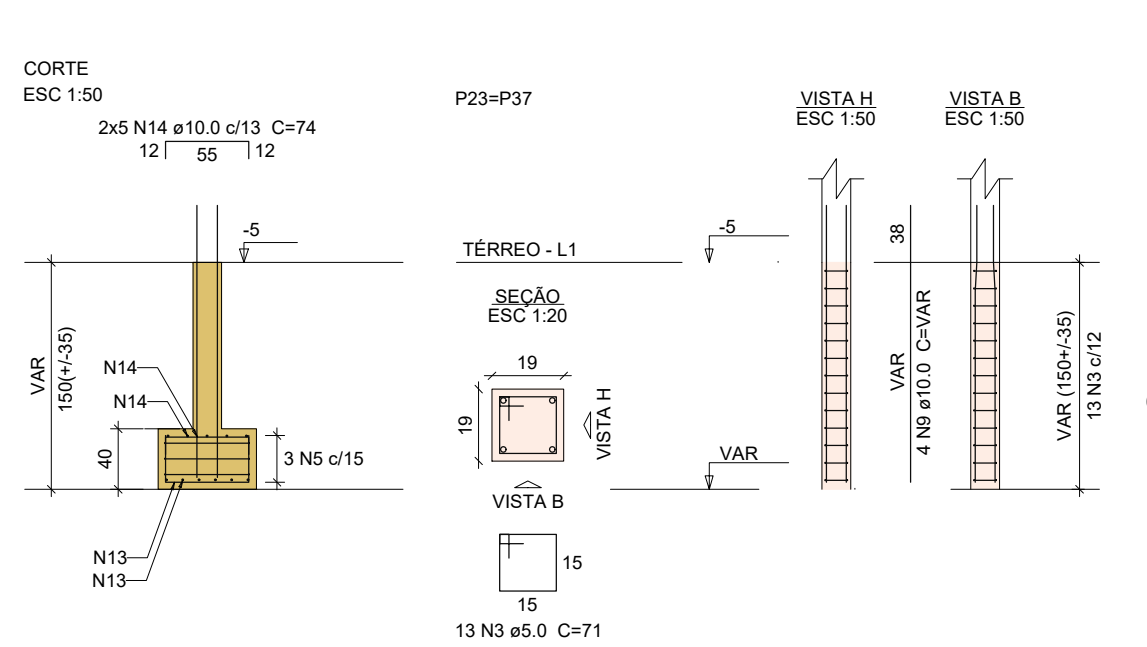
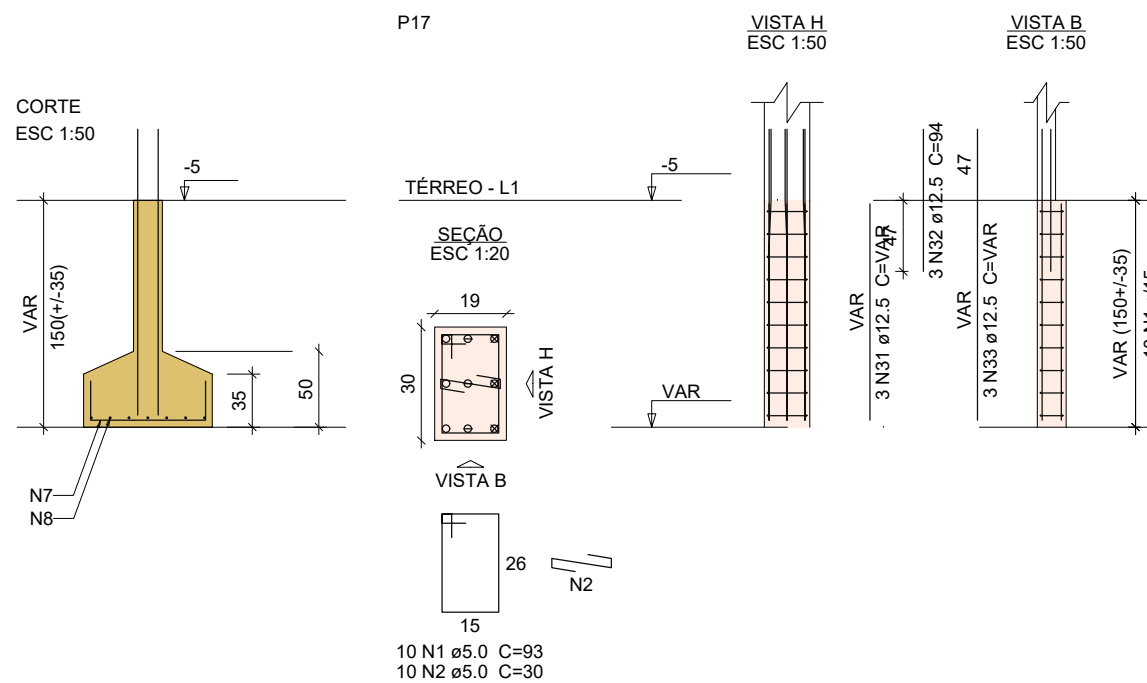
Solo com capacidade de suporte > 150.00 kN/m²  
Solo compactado sobre a sapata  
peso específico > 16.00 kN/m³



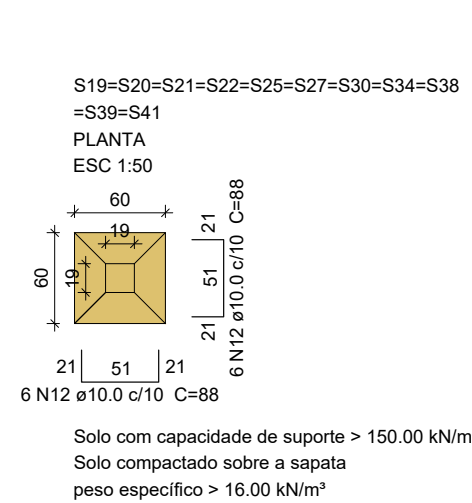
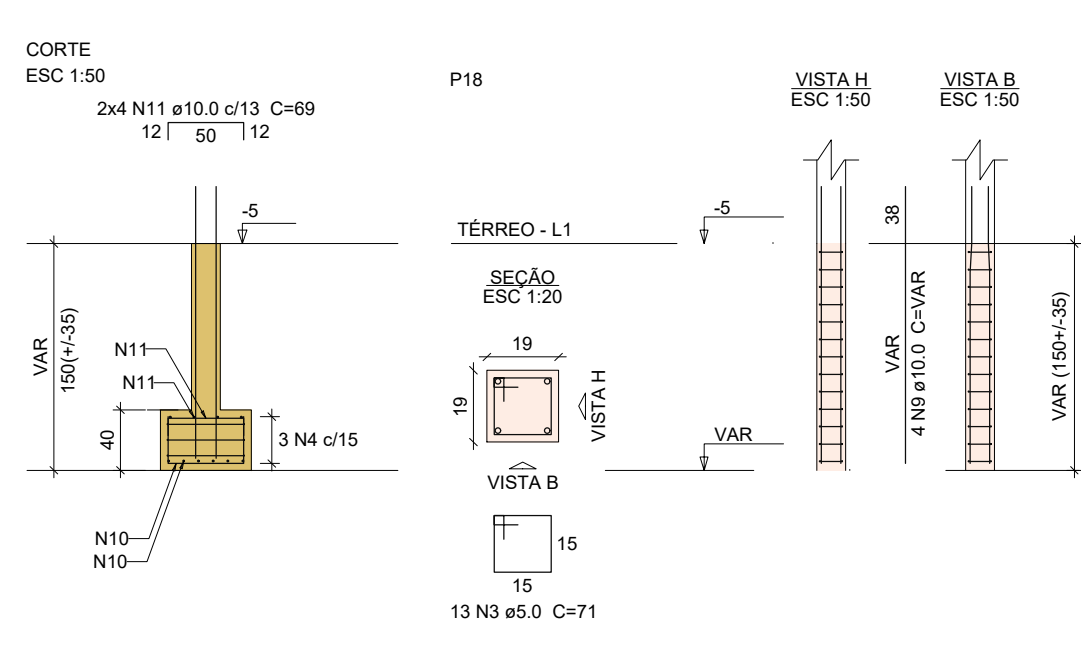
Solo com capacidade de suporte > 150.00 kN/m²  
Solo compactado sobre a sapata  
peso específico > 16.00 kN/m³



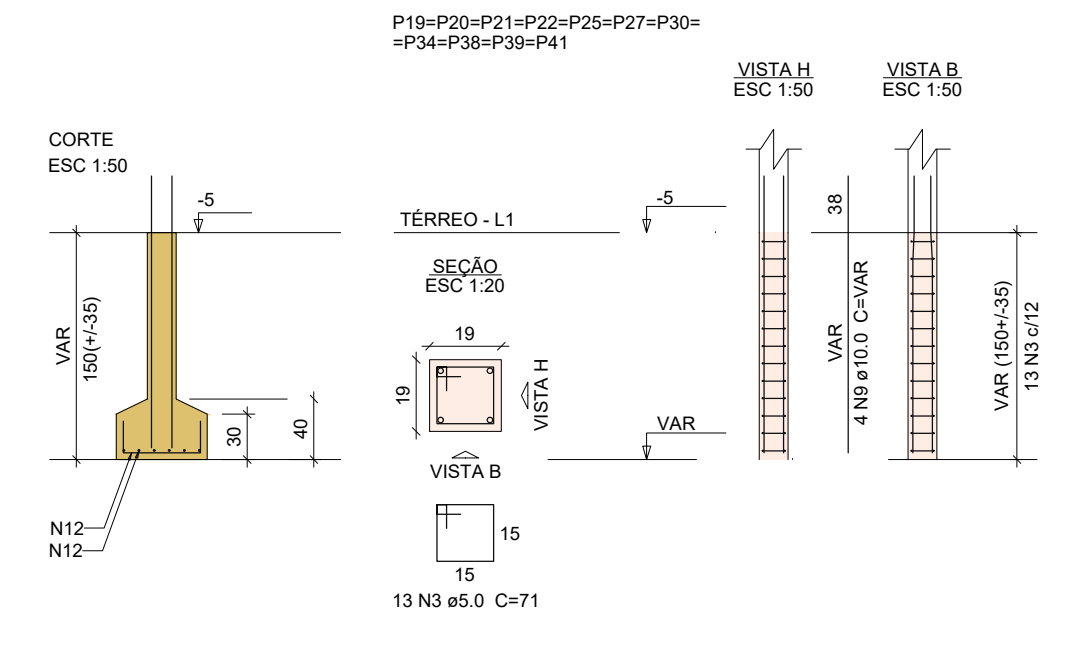
Solo com capacidade de suporte > 150.00 kN/m²  
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Solo compactado sobre a sapata  
peso específico > 16.00 kN/m³



Relação do aço

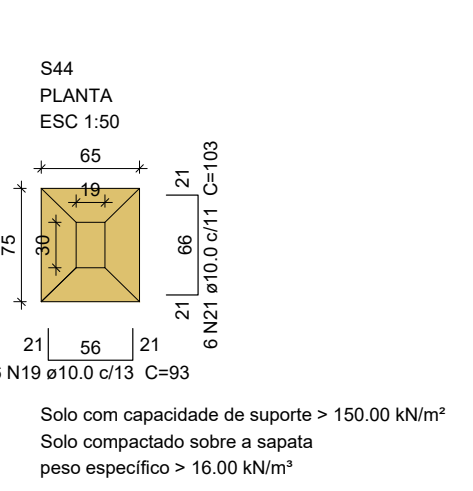
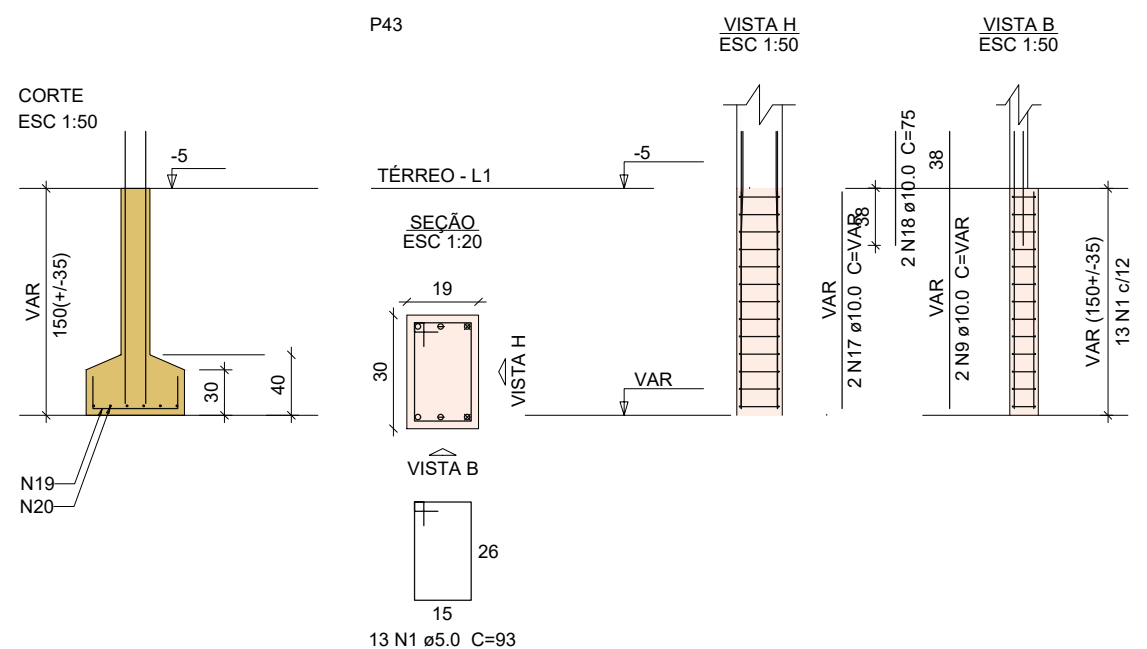
| AÇO  | N  | DIAM (mm) | QUANT | C.UNIT (cm) | C.TOTAL (cm) |
|------|----|-----------|-------|-------------|--------------|
| CA60 | 1  | 5.0       | 101   | 33          | 3393         |
|      | 2  | 5.0       | 10    | 30          | 300          |
|      | 3  | 5.0       | 273   | 71          | 19383        |
|      | 4  | 5.0       | 3     | 215         | 645          |
|      | 5  | 5.0       | 6     | 235         | 1410         |
|      | 6  | 5.0       | 33    | 83          | 2739         |
|      | 7  | 10.0      | 8     | 123         | 984          |
|      | 8  | 10.0      | 7     | 133         | 931          |
|      | 9  | 10.0      | 116   | VAR         | VAR          |
|      | 10 | 10.0      | 12    | 107         | 1284         |
|      | 11 | 10.0      | 8     | 69          | 552          |
|      | 12 | 10.0      | 144   | 88          | 12672        |
|      | 13 | 10.0      | 24    | 112         | 2688         |
|      | 14 | 10.0      | 30    | 74          | 1480         |
|      | 15 | 10.0      | 60    | 88          | 5280         |
|      | 16 | 10.0      | 36    | 98          | 3528         |
|      | 17 | 10.0      | 8     | VAR         | VAR          |
|      | 18 | 10.0      | 8     | 75          | 600          |
|      | 19 | 10.0      | 12    | 93          | 1116         |
|      | 20 | 10.0      | 6     | 108         | 648          |
|      | 21 | 10.0      | 6     | 103         | 618          |
|      | 22 | 10.0      | 12    | 108         | 1296         |
|      | 23 | 10.0      | 18    | 103         | 1854         |
|      | 24 | 10.0      | 6     | 113         | 678          |
|      | 25 | 10.0      | 8     | 123         | 984          |
|      | 26 | 10.0      | 7     | 133         | 931          |
|      | 27 | 10.0      | 7     | 113         | 791          |
|      | 28 | 10.0      | 6     | 123         | 738          |
|      | 29 | 10.0      | 8     | 123         | 984          |
|      | 30 | 10.0      | 8     | 128         | 1024         |
|      | 31 | 12.5      | 3     | VAR         | VAR          |
|      | 32 | 12.5      | 3     | 94          | 282          |
|      | 33 | 12.5      | 13    | VAR         | VAR          |

Resumo do aço

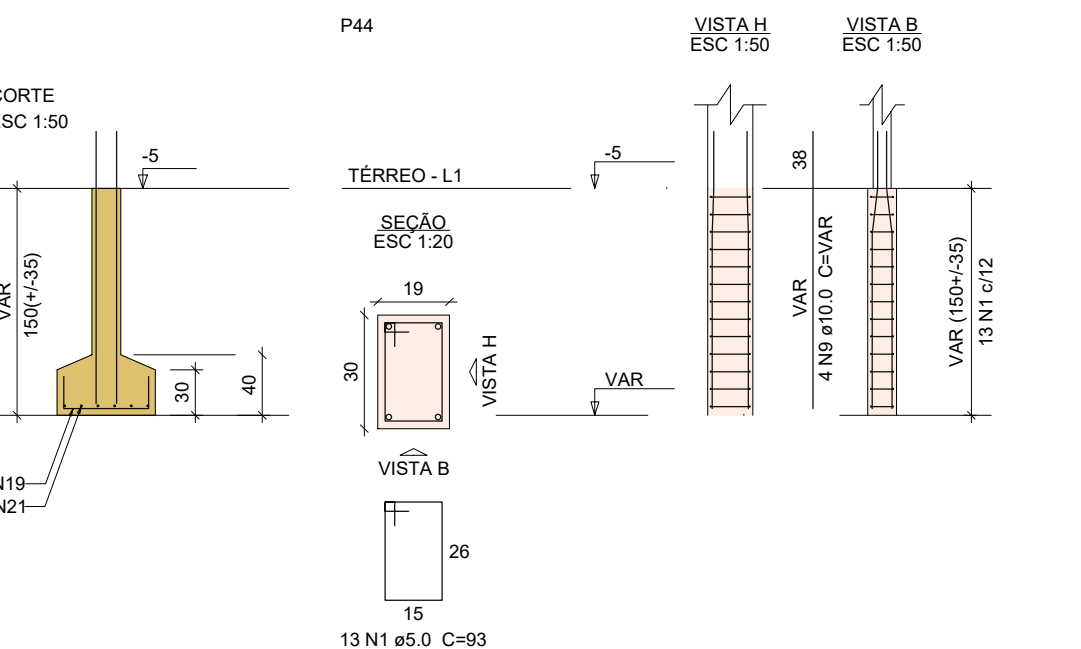
| AÇO  | DIAM (mm) | C.TOTAL (m) | PESO = 10 % (kg) |
|------|-----------|-------------|------------------|
| CA50 | 10.0      | 641.5       | 435.1            |
| CA60 | 12.5      | 32.2        | 34.1             |
| CA60 | 5.0       | 338.7       | 57.4             |

PESO TOTAL (kg)  
CA50 469.2  
CA60 57.4

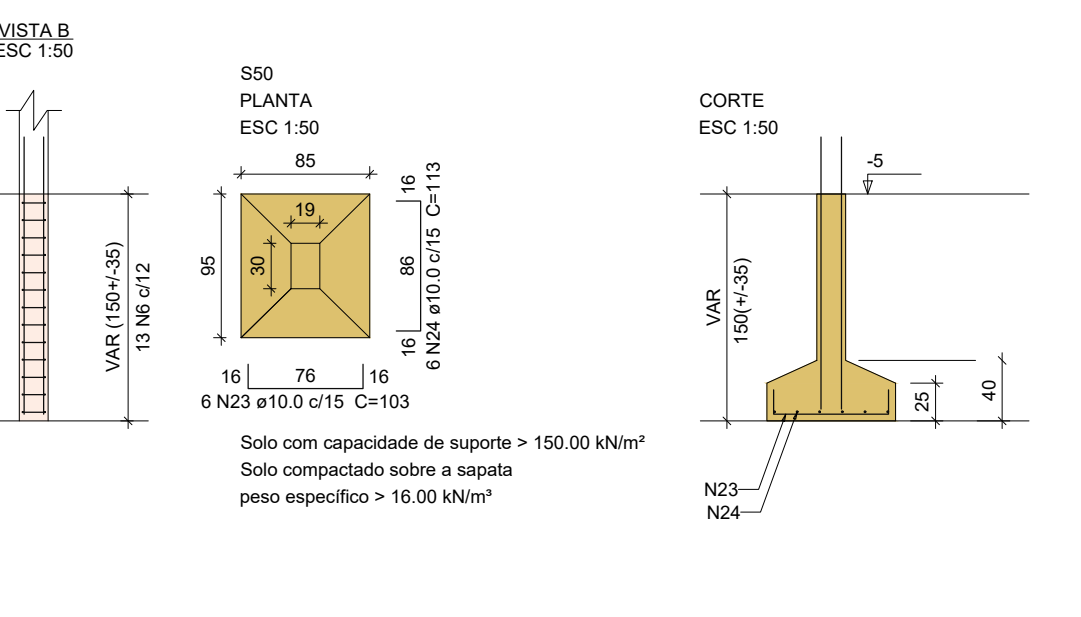
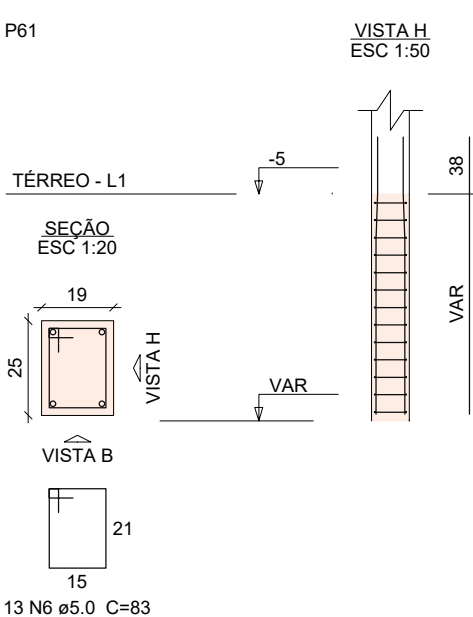
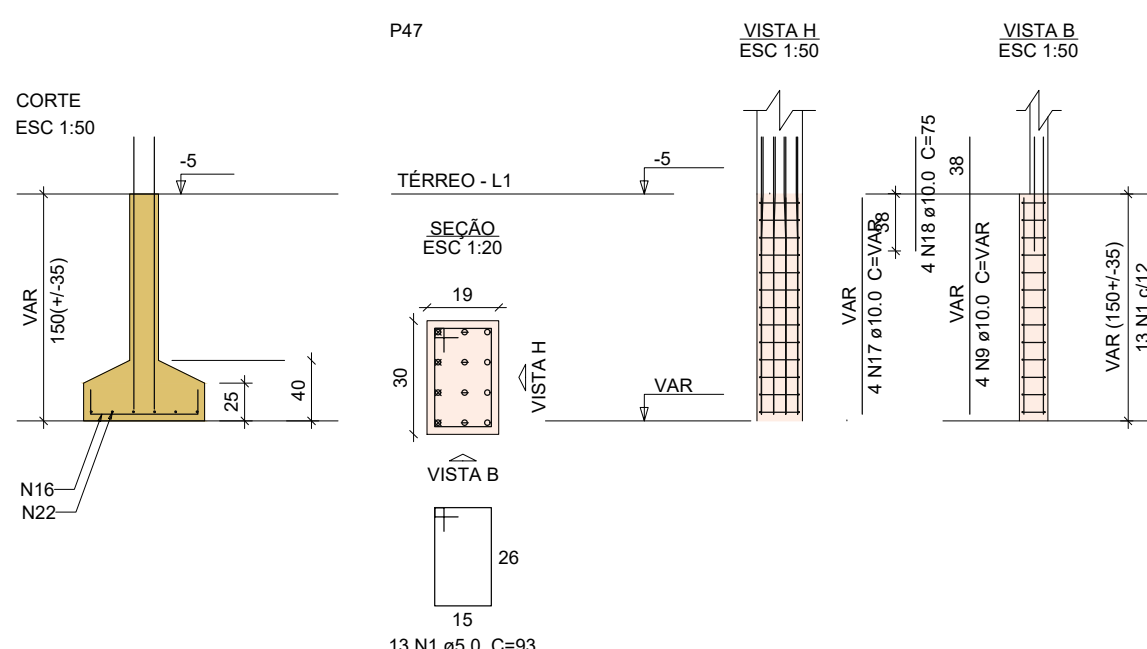
Volume de concreto (C-30) = 7.4 m³  
Área de forma = 55.16 m²



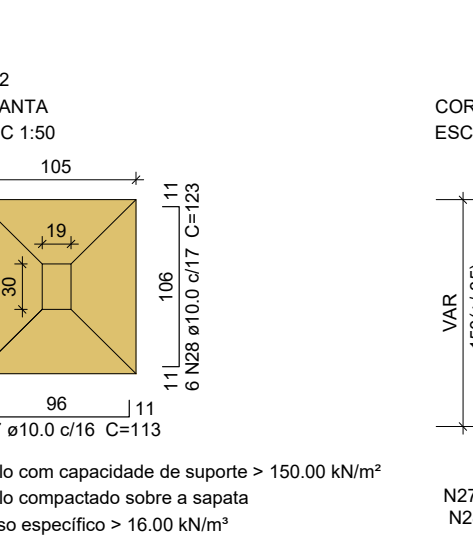
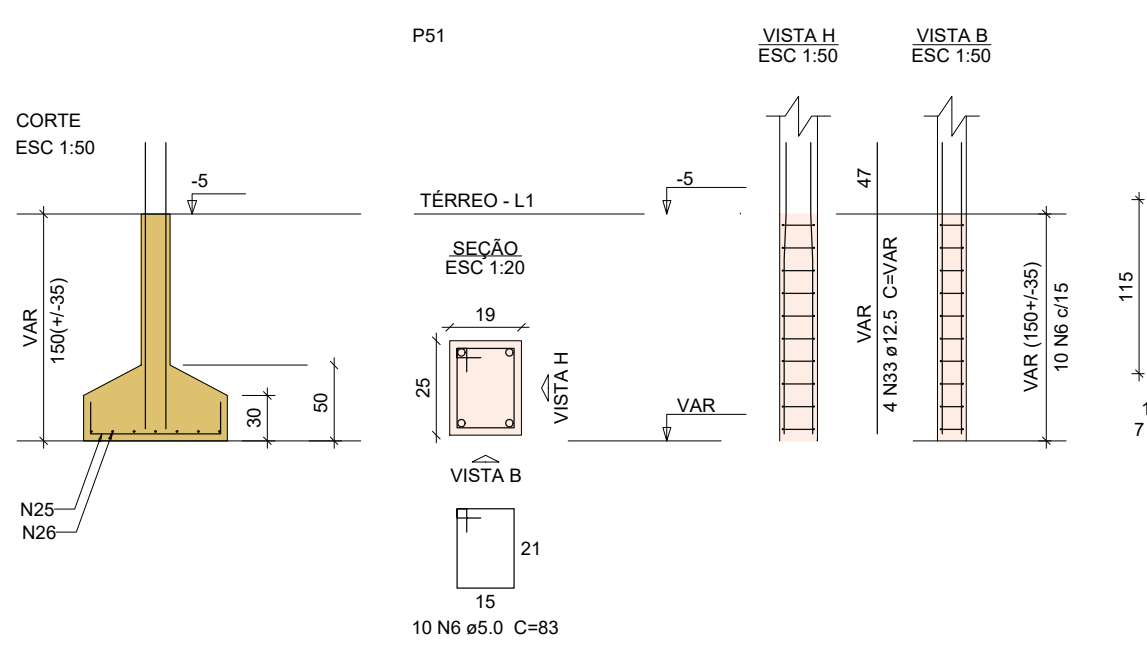
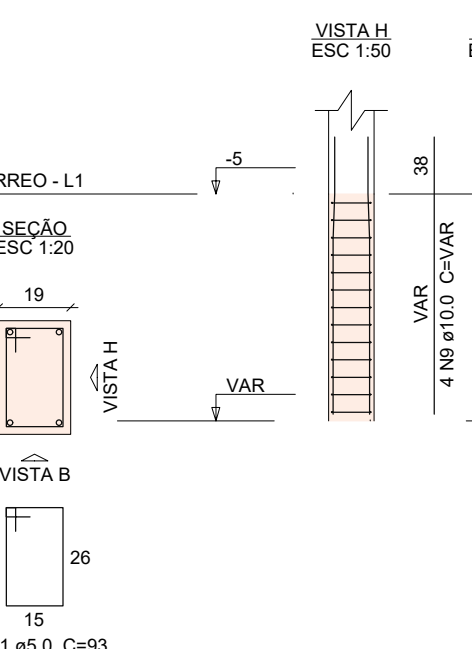
Solo com capacidade de suporte > 150.00 kN/m²  
Solo compactado sobre a sapata  
peso específico > 16.00 kN/m³



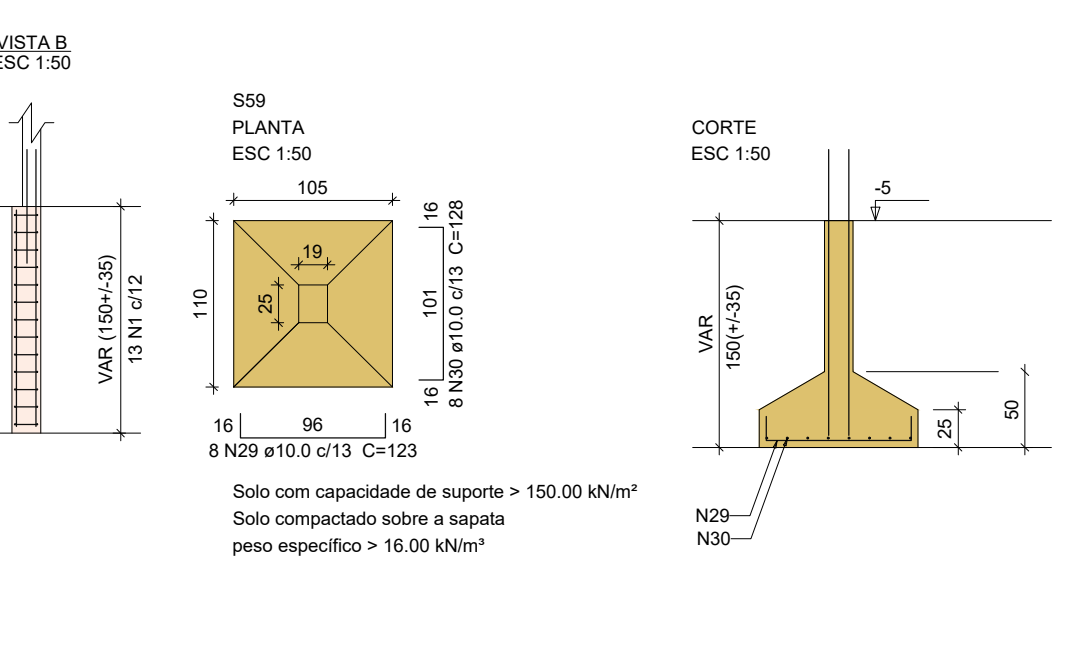
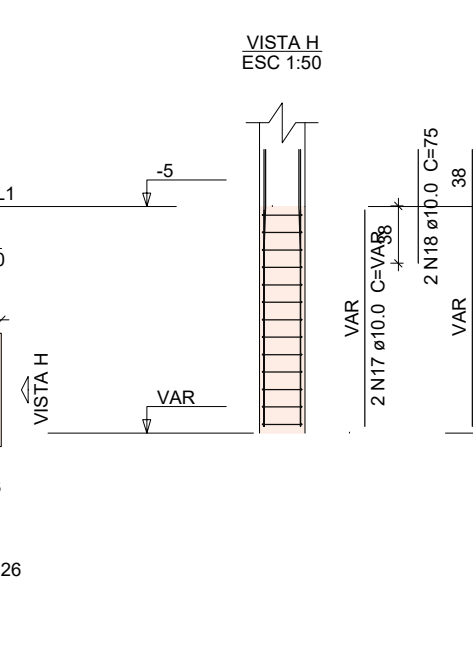
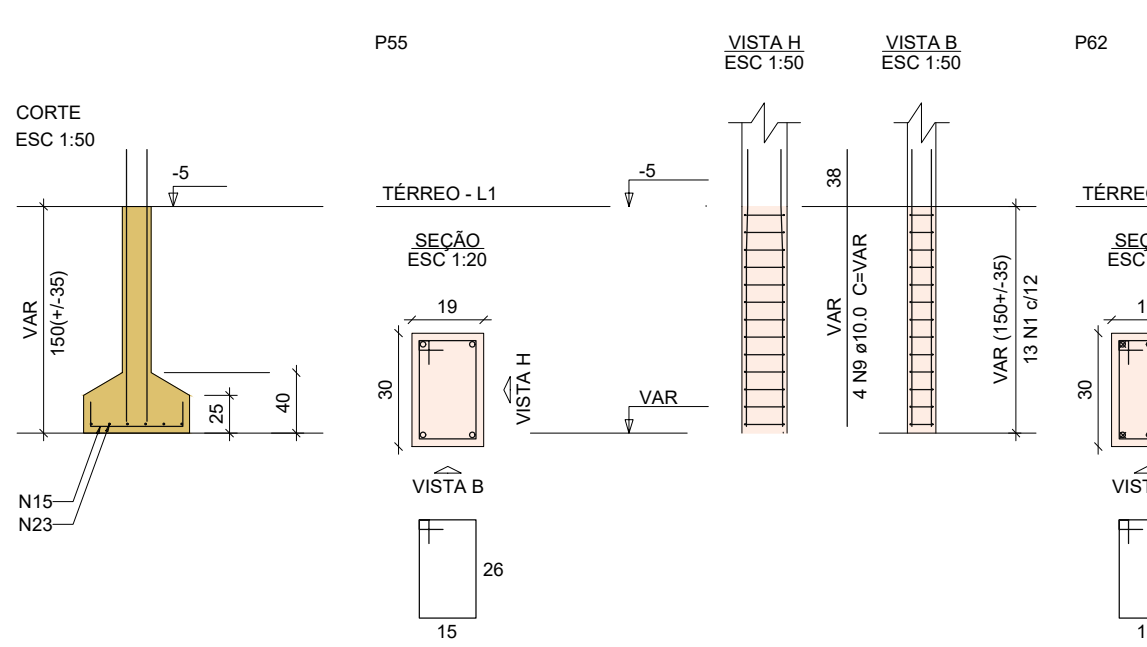
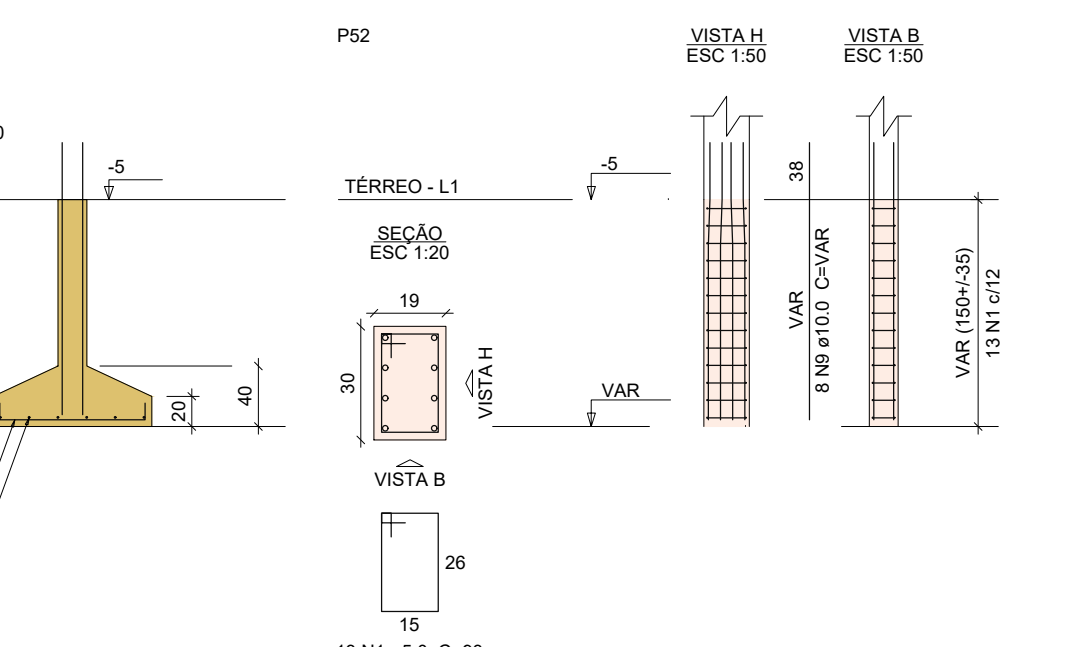
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peso específico > 16.00 kN/m³



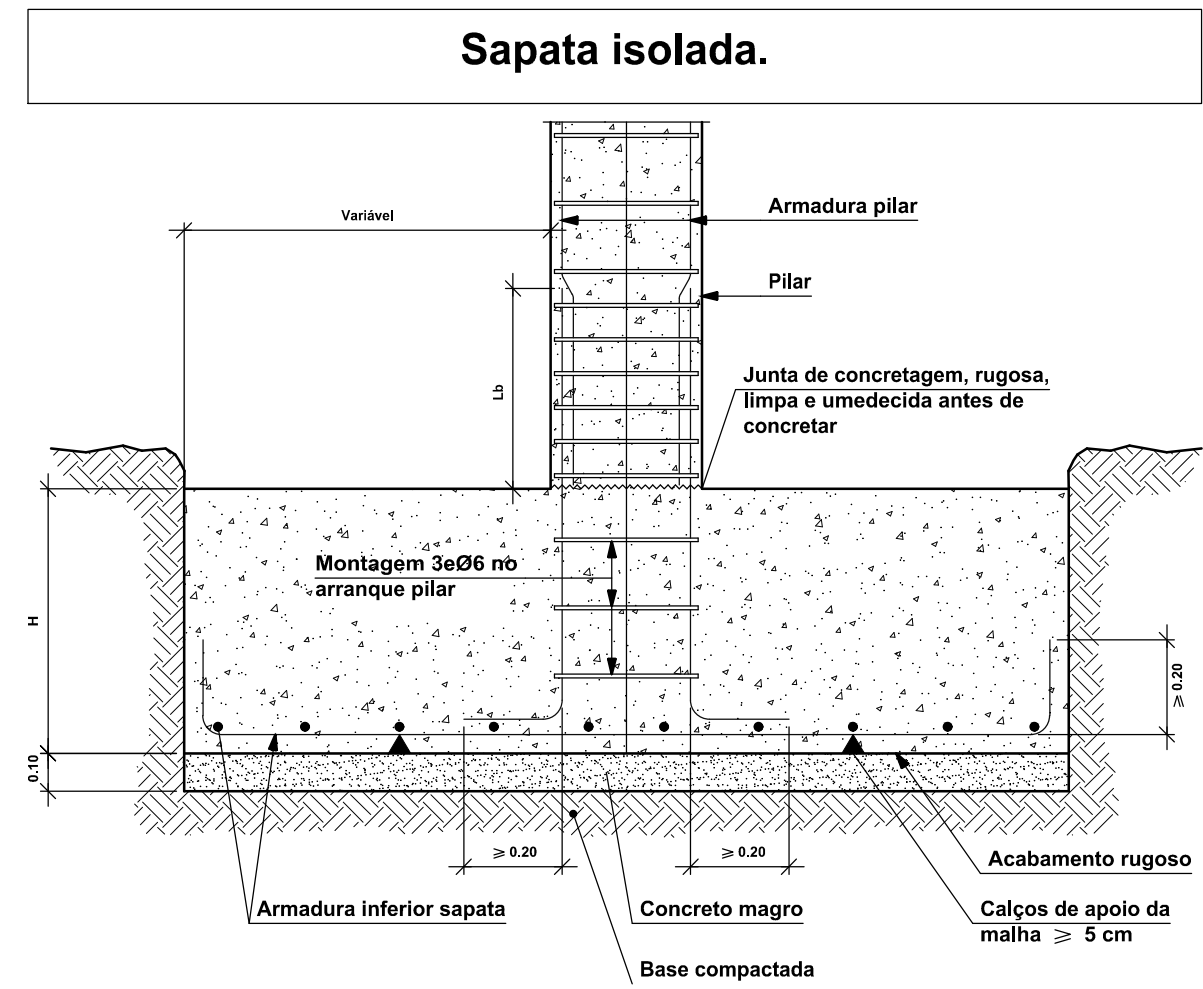
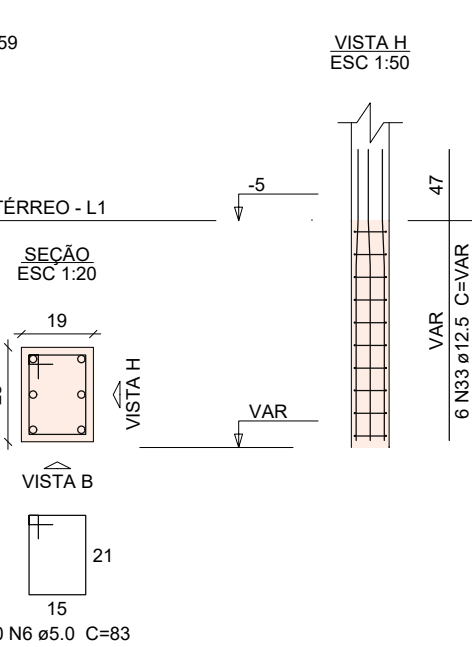
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Solo compactado sobre a sapata  
peso específico > 16.00 kN/m³



ASSINATURAS E APROVAÇÃO

COORDENAÇÃO: *Leonardo Silveira Lima*  
LEONARDO SILVEIRA LIMA  
ENGENHEIRO CIVIL - RNP: 001581087

ELABORAÇÃO: *Leonardo Silveira Lima*  
NOME PROFISSIONAL: LEONARDO SILVEIRA LIMA  
ESPECIALIDADE: RNP: XXXX

APROVAÇÃO: *Leonardo Silveira Lima*  
PROPRIETÁRIO: PREFEITURA MUNICIPAL DE ARACATI  
OBJETO: REFORMA E AMPLIAÇÃO DO CEI ÂNGELA CLOTILDE  
PROJETO: ESTRUTURAL  
IDENTIFICAÇÃO DOS DESENHOS: 01 - Fundações do pavimento Térreo (Nível -5)

TOTAL: 04/11  
REVISÃO: 01  
REDOBRADO: 01