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Technical drawing of a sewerage network layout. The drawing shows a main horizontal sewer line with several vertical connections and manholes. Key features include:

- Manholes:** P72, P65, P47, and P45 are marked along the main line. There are also manholes labeled A, B, C, and D at various points.
- Pipe Segments:** Various pipe diameters and lengths are specified, such as 2x1 Ø 8, 2x1 Ø 6.3, 2x1 Ø 5, 2x1 Ø 4, 2x1 Ø 3, 2x1 Ø 2.5, 2x1 Ø 2, 2x1 Ø 1.5, 2x1 Ø 1, 2x1 Ø 0.8, 2x1 Ø 0.6, 2x1 Ø 0.5, 2x1 Ø 0.4, 2x1 Ø 0.3, 2x1 Ø 0.2, 2x1 Ø 0.1, 2x1 Ø 0.05, 2x1 Ø 0.025, 2x1 Ø 0.01, 2x1 Ø 0.005, 2x1 Ø 0.0025, 2x1 Ø 0.001, 2x1 Ø 0.0005, 2x1 Ø 0.00025, 2x1 Ø 0.0001, 2x1 Ø 0.00005, 2x1 Ø 0.000025, 2x1 Ø 0.00001, 2x1 Ø 0.000005, 2x1 Ø 0.0000025, 2x1 Ø 0.000001, 2x1 Ø 0.0000005, 2x1 Ø 0.00000025, 2x1 Ø 0.0000001, 2x1 Ø 0.00000005, 2x1 Ø 0.000000025, 2x1 Ø 0.00000001, 2x1 Ø 0.000000005, 2x1 Ø 0.0000000025, 2x1 Ø 0.000000001, 2x1 Ø 0.0000000005, 2x1 Ø 0.00000000025, 2x1 Ø 0.0000000001, 2x1 Ø 0.00000000005, 2x1 Ø 0.000000000025, 2x1 Ø 0.00000000001, 2x1 Ø 0.000000000005, 2x1 Ø 0.0000000000025, 2x1 Ø 0.000000000001, 2x1 Ø 0.0000000000005, 2x1 Ø 0.00000000000025, 2x1 Ø 0.0000000000001, 2x1 Ø 0.00000000000005, 2x1 Ø 0.000000000000025, 2x1 Ø 0.00000000000001, 2x1 Ø 0.000000000000005, 2x1 Ø 0.0000000000000025, 2x1 Ø 0.000000000000001, 2x1 Ø 0.0000000000000005, 2x1 Ø 0.00000000000000025, 2x1 Ø 0.0000000000000001, 2x1 Ø 0.00000000000000005, 2x1 Ø 0.000000000000000025, 2x1 Ø 0.00000000000000001, 2x1 Ø 0.000000000000000005, 2x1 Ø 0.0000000000000000025, 2x1 Ø 0.000000000000000001, 2x1 Ø 0.0000000000000000005, 2x1 Ø 0.00000000000000000025, 2x1 Ø 0.0000000000000000001, 2x1 Ø 0.00000000000000000005, 2x1 Ø 0.000000000000000000025, 2x1 Ø 0.00000000000000000001, 2x1 Ø 0.000000000000000000005, 2x1 Ø 0.0000000000000000000025, 2x1 Ø 0.000000000000000000001, 2x1 Ø 0.0000000000000000000005, 2x1 Ø 0.00000000000000000000025, 2x1 Ø 0.0000000000000000000001, 2x1 Ø 0.00000000000000000000005, 2x1 Ø 0.000000000000000000000025, 2x1 Ø 0.00000000000000000000001, 2x1 Ø 0.000000000000000000000005, 2x1 Ø 0.0000000000000000000000025, 2x1 Ø 0.000000000000000000000001, 2x1 Ø 0.0000000000000000000000005, 2x1 Ø 0.00000000000000000000000025, 2x1 Ø 0.0000000000000000000000001, 2x1 Ø 0.00000000000000000000000005, 2x1 Ø 0.000000000000000000000000025, 2x1 Ø 0.00000000000000000000000001, 2x1 Ø 0.000000000000000000000000005, 2x1 Ø 0.0000000000000000000000000025, 2x1 Ø 0.000000000000000000000000001, 2x1 Ø 0.0000000000000000000000000005, 2x1 Ø 0.00000000000000000000000000025, 2x1 Ø 0.0000000000000000000000000001, 2x1 Ø 0.00000000000000000000000000005, 2x1 Ø 0.000000000000000000000000000025, 2x1 Ø 0.00000000000000000000000000001, 2x1 Ø 0.000000000000000000000000000005, 2x1 Ø 0.0000000000000000000000000000025, 2x1 Ø 0.000000000000000000000000000001, 2x1 Ø 0.0000000000000000000000000000005, 2x1 Ø 0.00000000000000000000000000000025, 2x1 Ø 0.0000000000000000000000000000001, 2x1 Ø 0.00000000000000000000000000000005, 2x1 Ø 0.000000000000000000000000000000025, 2x1 Ø 0.00000000000000000000000000000001, 2x1 Ø 0.000000000000000000000000000000005, 2x1 Ø 0.0000000000000000000000000000000025, 2x1 Ø 0.000000000000000000000000000000001, 2x1 Ø 0.0000000000000000000000000000000005, 2x1 Ø 0.00000000000000000000000000000000025, 2x1 Ø 0.0000000000000000000000000000000001, 2x1 Ø 0.00000000000000000000000000000000005, 2x1 Ø 0.000000000000000000000000000000000025, 2x1 Ø 0.00000000000000000000000000000000001, 2x1 Ø 0.000000000000000000000000000000000005, 2x1 Ø 0.0000000000000000000000000000000000025, 2x1 Ø 0.000000000000000000000000000000000001, 2x1 Ø 0.0000000000000000000000000000000000005, 2x1 Ø 0.00000000000000000000000000000000000025, 2x1 Ø 0.0000000000000000000000000000000000001, 2x1 Ø 0.00000000000000000000000000000000000005, 2x1 Ø 0.000000000000000000000000000000000000025, 2x1 Ø 0.00000000000000000000000000000000000001, 2x1 Ø 0.000000000000000000000000000000000000005, 2x1 Ø 0.0000000000000000000000000000000000000025, 2x1 Ø 0.000000000000000000000000000000000000001, 2x1 Ø 0.0000000000000000000000000000000000000005, 2x1 Ø 0.00000000000000000000000000000000000000025, 2x1 Ø 0.0000000000000000000000000000000000000001, 2x1 Ø 0.005, 2x1 Ø 0.0025, 2x1 Ø 0.001, 2x1 Ø 0.0005, 2x1 Ø 0.00025, 2x1 Ø 0.0

Technical drawing of the longitudinal section of the 'COSTELA' bridge, showing the main structure, piers, and abutments. The drawing includes dimensions for spans, piers, and abutments, as well as cross-sections of the bridge deck and piers.

Main Structure Dimensions:

- Span 1: 113.3m
- Span 2: 118.3m
- Span 3: 118.3m

Piers and Abutments:

- Pier P71: 3.0 Ø 10
- Pier P64: 4.0 Ø 12.5
- Pier P46: 2.0 Ø 12.5
- Pier P38: 3.0 Ø 12.5

Bridge Deck Cross-Section (Costela):

- Width: 2x3 Ø 6.3
- Height: 4.25m

Bridge Deck Cross-Section (Pier):

- Width: 2x3 Ø 6.3
- Height: 4.29m

Bridge Deck Cross-Section (Abutment):

- Width: 2x3 Ø 6.3
- Height: 4.33m

Bridge Deck Cross-Section (Main Structure):

- Width: 2x3 Ø 6.3
- Height: 4.25m

Technical drawing of a reinforced concrete slab (L.01) showing a plan view and a cross-section.

Plan View Details:

- Top edge: 333, 2 N1 Ø8 C=663, 373, 2 N2 Ø10 C=403, 14/40, 14/40.
- Bottom edge: 961, 2 N3 Ø8 C=1021.
- Left side: P30, 2 Ø8, 2 Ø10, 2 Ø8, 2 Ø10.
- Right side: P5, 2 Ø8, 2 Ø10.
- Internal dimensions: 22 Ø5, 22 Ø5.
- Section markers: A-A.

Cross-Section Details:

- Slab thickness: 35.
- Reinforcement: 2 Ø8, 2 Ø10.
- Label: 44 N4 Ø5 C=103.

Technical drawing of a roof plan. The drawing includes the following elements:

- Top Section:**
 - Annotation: 957.
 - Structural element: 2 N1 Ø 10 C=1017.
 - Dimension: 94.
 - Structural element: 2 N2 Ø 8 C=205 (2 Ø 2aCAM).
- Left Section:**
 - Annotation: 30.
 - Structural element: N4 C20 22 Ø 5.
 - Dimension: 2 Ø 10.
 - Structural element: 2 Ø 10 x 2 Ø 8.
 - Dimension: 2 Ø 10.
 - Structural element: 2 Ø 8.
 - Annotation: P31.
- Right Section:**
 - Annotation: 14/40.
 - Structural element: N4 C20 22 Ø 5.
 - Dimension: 2 Ø 10.
 - Structural element: 2 Ø 10 x 2 Ø 8.
 - Dimension: 2 Ø 10.
 - Structural element: 2 Ø 8.
 - Annotation: P11.
- Bottom Section:**
 - Annotation: 30.
 - Structural element: 2x2 N5 Ø 5 C=490 (costals).
 - Annotation: 957.
 - Structural element: 2 N3 Ø 8 C=1017.

Technical drawing of a cable tray assembly, showing top and side views with dimensions and labels.

Top View:

- Overall width: 469
- Top section: 2 N1 Ø 16, C=544
- Right side dimension: 14/65
- Central section: N5 C20, 21 Ø 6, 2 Ø 16
- Tray width: 2X1 Ø 8
- Tray length: 2X3 Ø 8.3
- Bottom section: 4 Ø 10

Side View:

- Label: vs-36
- Tray height: 36
- Tray width: 2x1
- Tray length: N4 Ø 8, C=80
- Support dimension: 2x3
- Tray length: N6 Ø 6.3, C=457
- Tray width: 2x1
- Tray length: N3 Ø 10, C=380
- Bottom section: (1 Ø 2nCAM)

Other Labels:

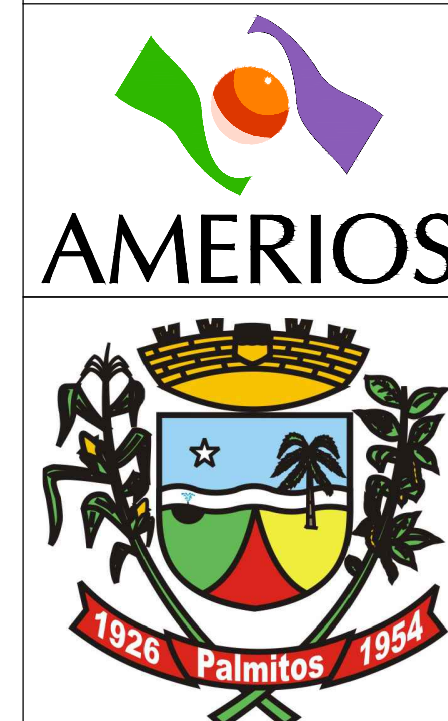
- (costola)
- 448
- 469

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Diagrama de uma barra de aço com as seguintes especificações e dimensões:

- quantidade de barras**: 2 N 1 Ø 10 C=360
- diâmetro da barra em milímetros**: Ø 10
- comprimento da barra em centímetros**: C=360
- posição da barra**: horizontal
- quantidade de barras de armadura de pele em cada face da viga**: 2
- armadura de pele em ambos os lados da viga**: N 4 Ø 5 C=215
- posição da barra**: vertical
- comprimento total da barra em centímetros**: C=215
- diâmetro da barra em milímetros**: Ø 5
- quantidade de estribos**: 16 N 2 Ø 5 C/15 C=100
- diâmetro do estribo em milímetros**: Ø 5
- espacamento dos estribos em centímetros**: C/15
- comprimento total do estribo em centímetros**: C=100
- posição do estribo**: horizontal

Materiais:	Recobrimentos:
- Aço.....: CA50 e CA60	- Vigas.....: 2,5cm
- Concreto Estrutural.....: 30 MPa (300 kgf/cm²)	- Pilares.....: 2,5cm
- Deve ser mantido cura úmida do concreto por 7 dias	- Lajes.....: 2,0cm
- Deve ser mantido o escoramento por no mínimo por 21 dias	- Sapatas.....: 5,0cm
- Só poderão ser executadas paredes após 28 dias da concretagem	
- Deve ser utilizado espaçadores plásticos para garantir o recobrimento dos elementos	
- Todas as cotas em centímetros, exceto cotas de níveis que estão em metros	



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MUNICÍPIO DE PALMITOS / SC

PROJETO ESTRUTURAL
CENTRO DE ATENDIMENTO AO TURISTA

RESPONSÁVEL TÉCNICO:	RAFAEL CASSOL BASSO ENGENHEIRO CIVIL CREA / SC: 112.213-2
ESPECIFICAÇÕES:	DETALHAMENTO: VIGAS SUPERIORES

ASS. RESP. TÉCNIC

PROPRIETÁRIO: MUNICÍPIO DE PALMITOS/SC

ASS. DO PREFEITO

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