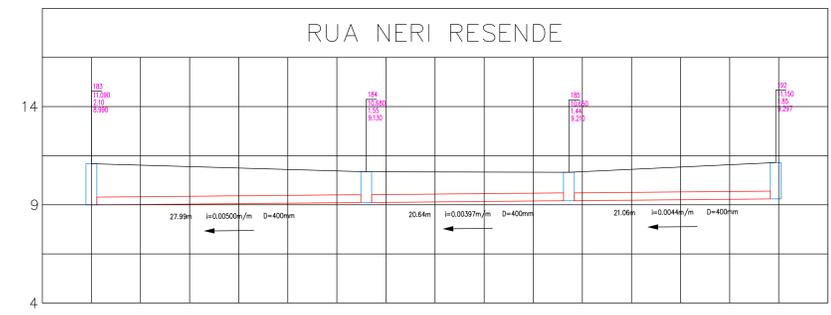




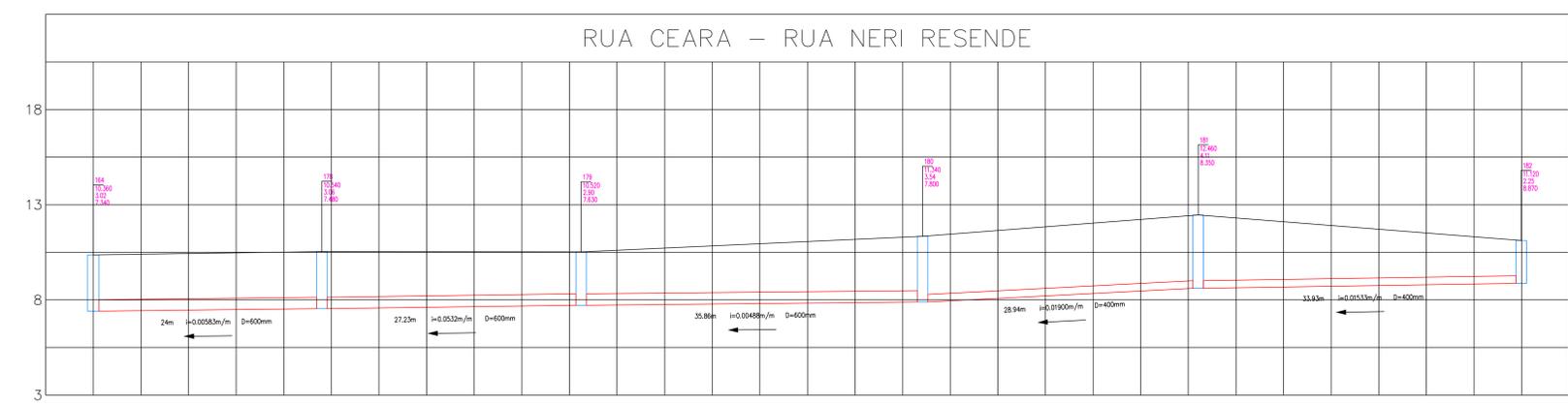




- NOTAS:
- 1- TODAS AS COTAS E DIÂMETROS ESTÃO EM METRO
  - 2- RAMAIS DE RALO EM TUBOS DE CONCRETO ARMADO PA-2 DN400mm E ASSENTADOS COM DECLIVIDADE DE 0,5%
  - 3- AS COTAS FORAM RETIRADAS DO LEVANTAMENTO TOPOGRÁFICO
  - 4- AS REDES EXISTENTES INDICADAS FORAM CADASTRADAS NO CAMPO PELA EQUIPE DE TOPOGRAFIA
  - 5- GALÉRIAS EM TUBOS DE CONCRETO ARMADO PA-1 E PA-2, CONFORME INDICADO.
  - 6- TAMPOES E GRELHAS SERÃO EM CONFORMIDADE COM A NBR 10.160.



Estaca								
Cota do Terreno	11.090	10.944	10.797	10.680	10.663	10.650	10.920	11.150
Cota da Geratriz Inferior do Tubo	8.990	9.033	9.079	9.113	9.166	9.204	9.254	9.297
Profundidade Vala	2.100	1.910	1.718	1.567	1.496	1.446	1.666	1.853
Distância entre PV's	27.99			20.64			21.06	
Diâmetro / Material	400mm / Tubulação de Concreto							
Declividade (m/m)	0.00500			0.00397			0.0044	
Escoramento								
Embasamento								
Método Construtivo								
Rebaixamento do N.A.								
Pavimentação	Asfalto							



Estaca																				
Cota do Terreno	10.360	10.435	10.510	10.540	10.536	10.528	10.520	10.720	10.949	11.178	11.340	11.453	11.840	12.227	12.460	12.303	11.908	11.513	11.120	
Cota da Geratriz Inferior do Tubo	7.410	7.463	7.520	7.540	7.578	7.646	7.715	7.760	7.809	7.858	7.890	7.951	8.210	8.468	8.450	8.450	8.716	8.795	8.870	
Profundidade Vala	2.950	2.972	2.990	3.000	2.958	2.882	2.806	2.960	3.140	3.320	3.450	3.502	3.630	3.758			3.192	2.718	2.250	
Distância entre PV's	24.00				27.23				35.86				28.94				33.93			
Diâmetro / Material	400mm e 600mm / Tubulação de Concreto																			
Declividade (m/m)	0.00583				0.0532				0.00488				0.01900				0.01533			
Escoramento																				
Embasamento																				
Método Construtivo																				
Rebaixamento do N.A.																				
Pavimentação	Asfalto																			

18/02/2025 EMISSÃO INICIAL

REVISÃO DATA DISCRIMINAÇÃO AUTOR

**PMBR**  
PREFEITURA MUNICIPAL DE BELFORD ROXO

OBJETO DA OBRA:  
OBRAS DE DRENAGEM E PAVIMENTAÇÃO EM DIVERSAS RUAS NOS BAIRROS SÃO JOSÉ / SANTA TERESA BELFORD ROXO/RJ

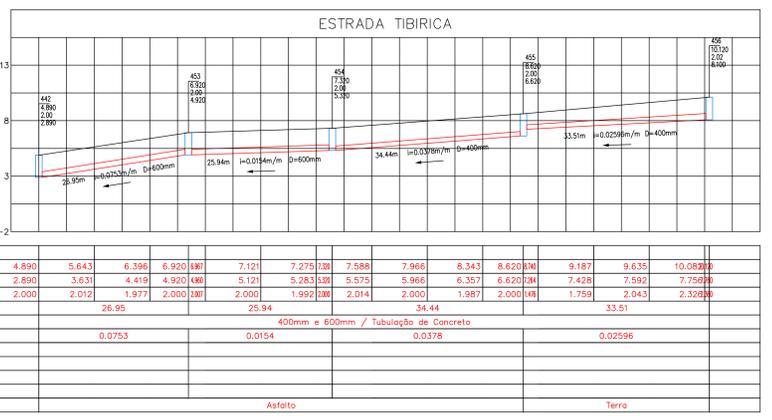
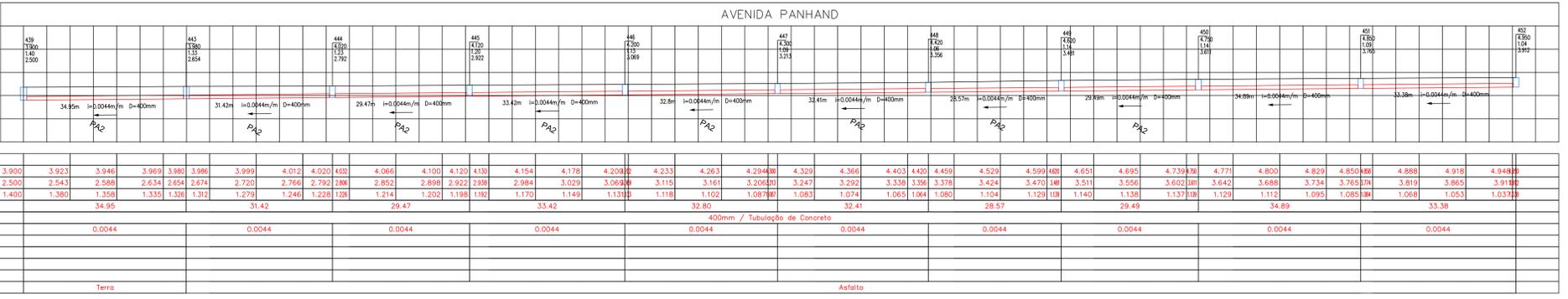
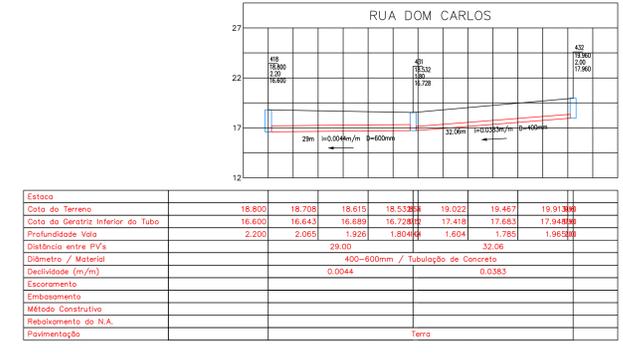
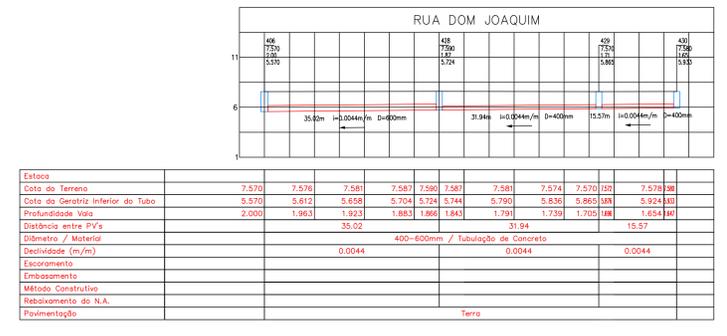
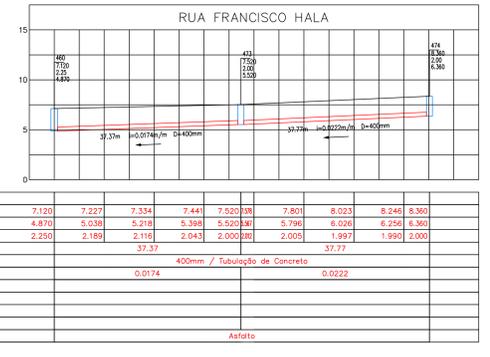
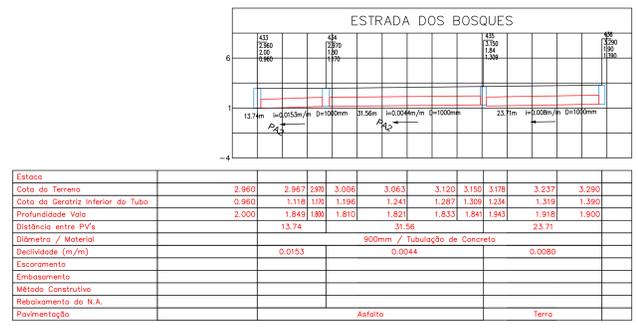
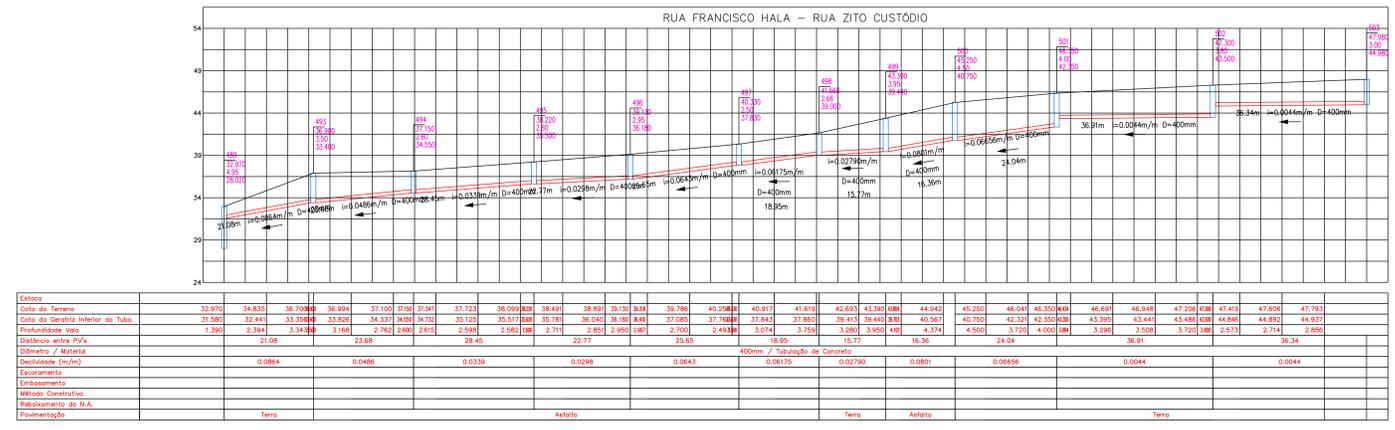
PROJETO BÁSICO DE DRENAGEM PLUVIAL  
PERFIL 11

REVISÃO-01 - SANTA TERESA-DRENAGEM BACIA A E B

01/11 INDICADA 02/2025



- NOTAS:
- 1- TODAS AS COTAS E DIÂMETROS ESTÃO EM METRO.
  - 2- RAMAIS DE FALSO EM TUBOS DE CONCRETO ARMADO PA-2 DN400mm E ASSENTADOS COM DECLIVIDADE DE 0,5%.
  - 3- AS COTAS FORAM RETIRADAS DO LEVANTAMENTO TOPOGRÁFICO.
  - 4- AS REDES EXISTENTES INDICADAS FORAM CADASTRADAS NO CAMPO PELA EQUIPE DE TOPOGRAFIA.
  - 5- GALÉRIAS EM TUBOS DE CONCRETO ARMADO PA-1 E PA-2, CONFORME INDICADO.
  - 6- TAMPOES E GRELHAS SERÃO EM CONFORMIDADE COM A NBR 10.160.



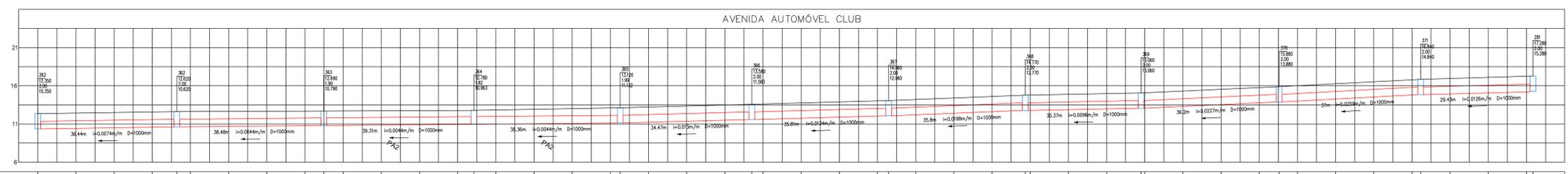








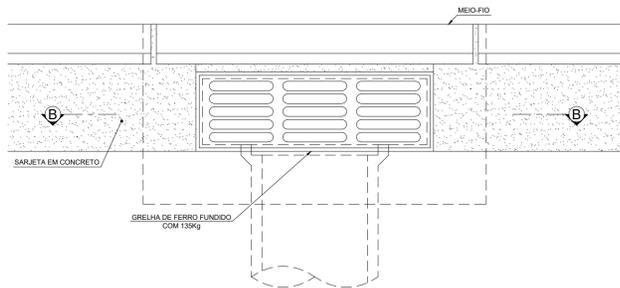
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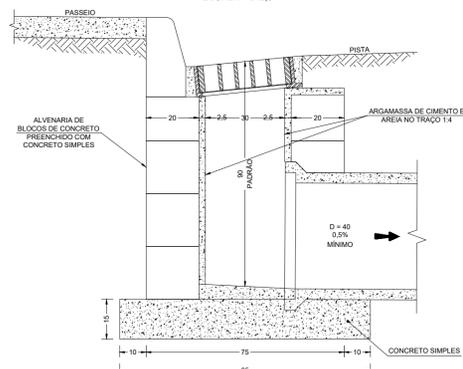
Estaca	12.350	12.424	12.498	12.572	12.620	12.688	12.762	12.836	12.910	12.984	13.058	13.132	13.206	13.280	13.354	13.428	13.502	13.576	13.650	13.724	13.798	13.872	13.946	14.020	14.094	14.168	14.242	14.316	14.390	14.464	14.538	14.612	14.686	14.760	14.834	14.908	14.982	15.056	15.130	15.204	15.278	15.352	15.426	15.500	15.574	15.648	15.722	15.796	15.870	15.944	16.018	16.092	16.166	16.240	16.314	16.388	16.462	16.536	16.610	16.684	16.758	16.832	16.906	16.980	17.054	17.128	17.202	17.276	17.350	17.424	17.498	17.572	17.646	17.720	17.794	17.868	17.942	18.016	18.090	18.164	18.238	18.312	18.386	18.460	18.534	18.608	18.682	18.756	18.830	18.904	18.978	19.052	19.126	19.200	19.274	19.348	19.422	19.496	19.570	19.644	19.718	19.792	19.866	19.940	20.014	20.088	20.162	20.236	20.310	20.384	20.458	20.532	20.606	20.680	20.754	20.828	20.902	20.976	21.050	21.124	21.198	21.272	21.346	21.420	21.494	21.568	21.642	21.716	21.790	21.864	21.938	22.012	22.086	22.160	22.234	22.308	22.382	22.456	22.530	22.604	22.678	22.752	22.826	22.900	22.974	23.048	23.122	23.196	23.270	23.344	23.418	23.492	23.566	23.640	23.714	23.788	23.862	23.936	24.010	24.084	24.158	24.232	24.306	24.380	24.454	24.528	24.602	24.676	24.750	24.824	24.898	24.972	25.046	25.120	25.194	25.268	25.342	25.416	25.490	25.564	25.638	25.712	25.786	25.860	25.934	26.008	26.082	26.156	26.230	26.304	26.378	26.452	26.526	26.600	26.674	26.748	26.822	26.896	26.970	27.044	27.118	27.192	27.266	27.340	27.414	27.488	27.562	27.636	27.710	27.784	27.858	27.932	28.006	28.080	28.154	28.228	28.302	28.376	28.450	28.524	28.598	28.672	28.746	28.820	28.894	28.968	29.042	29.116	29.190	29.264	29.338	29.412	29.486	29.560	29.634	29.708	29.782	29.856	29.930	30.004	30.078	30.152	30.226	30.300	30.374	30.448	30.522	30.596	30.670	30.744	30.818	30.892	30.966	31.040	31.114	31.188	31.262	31.336	31.410	31.484	31.558	31.632	31.706	31.780	31.854	31.928	32.002	32.076	32.150	32.224	32.298	32.372	32.446	32.520	32.594	32.668	32.742	32.816	32.890	32.964	33.038	33.112	33.186	33.260	33.334	33.408	33.482	33.556	33.630	33.704	33.778	33.852	33.926	34.000	34.074	34.148	34.222	34.296	34.370	34.444	34.518	34.592	34.666	34.740	34.814	34.888	34.962	35.036	35.110	35.184	35.258	35.332	35.406	35.480	35.554	35.628	35.702	35.776	35.850	35.924	36.000	36.074	36.148	36.222	36.296	36.370	36.444	36.518	36.592	36.666	36.740	36.814	36.888	36.962	37.036	37.110	37.184	37.258	37.332	37.406	37.480	37.554	37.628	37.702	37.776	37.850	37.924	38.000	38.074	38.148	38.222	38.296	38.370	38.444	38.518	38.592	38.666	38.740	38.814	38.888	38.962	39.036	39.110	39.184	39.258	39.332	39.406	39.480	39.554	39.628	39.702	39.776	39.850	39.924	40.000	40.074	40.148	40.222	40.296	40.370	40.444	40.518	40.592	40.666	40.740	40.814	40.888	40.962	41.036	41.110	41.184	41.258	41.332	41.406	41.480	41.554	41.628	41.702	41.776	41.850	41.924	42.000	42.074	42.148	42.222	42.296	42.370	42.444	42.518	42.592	42.666	42.740	42.814	42.888	42.962	43.036	43.110	43.184	43.258	43.332	43.406	43.480	43.554	43.628	43.702	43.776	43.850	43.924	44.000	44.074	44.148	44.222	44.296	44.370	44.444	44.518	44.592	44.666	44.740	44.814	44.888	44.962	45.036	45.110	45.184	45.258	45.332	45.406	45.480	45.554	45.628	45.702	45.776	45.850	45.924	46.000	46.074	46.148	46.222	46.296	46.370	46.444	46.518	46.592	46.666	46.740	46.814	46.888	46.962	47.036	47.110	47.184	47.258	47.332	47.406	47.480	47.554	47.628	47.702	47.776	47.850	47.924	48.000	48.074	48.148	48.222	48.296	48.370	48.444	48.518	48.592	48.666	48.740	48.814	48.888	48.962	49.036	49.110	49.184	49.258	49.332	49.406	49.480	49.554	49.628	49.702	49.776	49.850	49.924	50.000	50.074	50.148	50.222	50.296	50.370	50.444	50.518	50.592	50.666	50.740	50.814	50.888	50.962	51.036	51.110	51.184	51.258	51.332	51.406	51.480	51.554	51.628	51.702	51.776	51.850	51.924	52.000	52.074	52.148	52.222	52.296	52.370	52.444	52.518	52.592	52.666	52.740	52.814	52.888	52.962	53.036	53.110	53.184	53.258	53.332	53.406	53.480	53.554	53.628	53.702	53.776	53.850	53.924	54.000	54.074	54.148	54.222	54.296	54.370	54.444	54.518	54.592	54.666	54.740	54.814	54.888	54.962	55.036	55.110	55.184	55.258	55.332	55.406	55.480	55.554	55.628	55.702	55.776	55.850	55.924	56.000	56.074	56.148	56.222	56.296	56.370	56.444	56.518	56.592	56.666	56.740	56.814	56.888	56.962	57.036	57.110	57.184	57.258	57.332	57.406	57.480	57.554	57.628	57.702	57.776	57.850	57.924	58.000	58.074	58.148	58.222	58.296	58.370	58.444	58.518	58.592	58.666	58.740	58.814	58.888	58.962	59.036	59.110	59.184	59.258	59.332	59.406	59.480	59.554	59.628	59.702	59.776	59.850	59.924	60.000	60.074	60.148	60.222	60.296	60.370	60.444	60.518	60.592	60.666	60.740	60.814	60.888	60.962	61.036	61.110	61.184	61.258	61.332	61.406	61.480	61.554	61.628	61.702	61.776	61.850	61.924	62.000	62.074	62.148	62.222	62.296	62.370	62.444	62.518	62.592	62.666	62.740	62.814	62.888	62.962	63.036	63.110	63.184	63.258	63.332	63.406	63.480	63.554	63.628	63.702	63.776	63.850	63.924	64.000	64.074	64.148	64.222	64.296	64.370	64.444	64.518	64.592	64.666	64.740	64.814	64.888	64.962	65.036	65.110	65.184	65.258	65.332	65.406	65.480	65.554	65.628	65.702	65.776	65.850	65.924	66.000	66.074	66.148	66.222	66.296	66.370	66.444	66.518	66.592	66.666	66.740	66.814	66.888	66.962	67.036	67.110	67.184	67.258	67.332	67.406	67.480	67.554	67.628	67.702	67.776	67.850	67.924	68.000	68.074	68.148	68.222	68.296	68.370	68.444	68.518	68.592	68.666	68.740	68.814	68.888	68.962	69.036	69.110	69.184	69.258	69.332	69.406	69.480	69.554	69.628	69.702	69.776	69.850	69.924	70.000	70.074	70.148	70.222	70.296	70.370	70.444	70.518	70.592	70.666	70.740	70.814	70.888	70.962	71.036	71.110	71.184	71.258	71.332	71.406	71.480	71.554	71.628	71.702	71.776	71.850	71.924	72.000	72.074	72.148	72.222	72.296	72.370	72.444	72.518	72.592	72.666	72.740	72.814	72.888	72.962	73.036	73.110	73.184	73.258	73.332	73.406	73.480	73.554	73.628	73.702	73.776	73.850	73.924	74.000	74.074	74.148	74.222	74.296	74.370	74.444	74.518	74.592	74.666	74.740	74.814	74.888	74.962	75.036	75.110	75.184	75.258	75.332	75.406	75.480	75.554	75.628	75.702	75.776	75.850	75.924	76.000	76.074	76.148	76.222	76.296	76.370	76.444	76.518	76.592	76.666	76.740	76.814	76.888	76.962	77.036	77.110	77.184	77.258	77.332	77.406	77.480	77.554	77.628	77.702	77.776	77.850	77.924	78.000	78.074	78.148	78.222	78.296	78.370	78.444	78.518	78.592	78.666	78.740	78.814	78.888	78.962	79.036	79.110	79.184	79.258	79.332	79.406	79.480	79.554	79.628	79.702	79.776	79.850	79.924	80.000	80.074	80.148	80.222	80.296	80.370	80.444	80.518	80.592	80.666	80.740	80.814	80.888	80.962	81.036	81.110	81.184	81.258	81.332	81.406	81.480	81.554	81.628	81.702	81.776	81.850	81.924	82.000	82.074	82.148	82.222	82.296	82.370	82.444	82.518	82.592	82.666	82.740	82.814	82.888	82.962	83.036	83.110	83.184	83.258	83.332	83.406	83.480	83.554	83.628	83.702	83.776	83.850	83.924	84.000	84.074	84.148	84.222	84.296	84.370	84.444	84.518	84.592	84.666	84.740	84.814	84.888	84.962	85.036	85.110	85.184	85.258	85.332	85.406	85.480	85.554	85.628	85.702	85.776	85.850	85.924	86.000	86.074	86.148	86.222	86.296	86.370	86.444	86.518	86.592	86.666	86.740	86.814	86.888	86.962	87.036	87.110	87.184	87.258	87.332	87.406	87.480	87.554	87.628	87.702	87.776	87.850	87.924	88.000	88.074	88.148	88.222	88.296	88.370	88.444	88.518	88.592	88.666	88.740	88.814	88.888	88.962	89.036	89.110	89.184	89.258	89.332	89.406	89.480	89.554	89.628	89.702	89.776	89.850	89.924	90.000	90.074	90.148	90.222	90.296	90.370	90.444	90.518	90.592	90.666	90.740	90.814	90.888	90.962	91.036	91.110	91.184	91.258	91.332	91.406	91.480	91.554	91.628	91.702	91.776	91.850	91.924	92.000	92.074	92.148	92.222	92.296	92.370	92.444	92.518
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**CAIXA DE RALO TIPO 1**

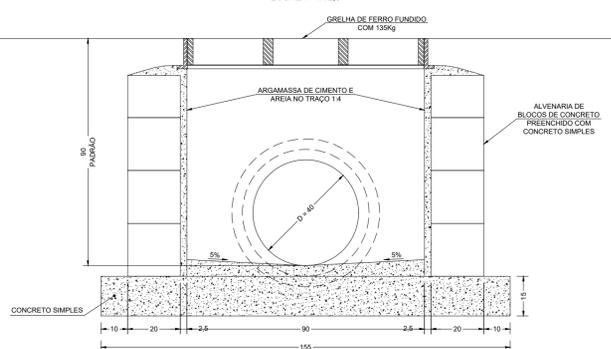
PLANTA  
ESCALA - 1/12,5



CORTE AA  
ESCALA - 1/12,5



CORTE BB  
ESCALA - 1/12,5

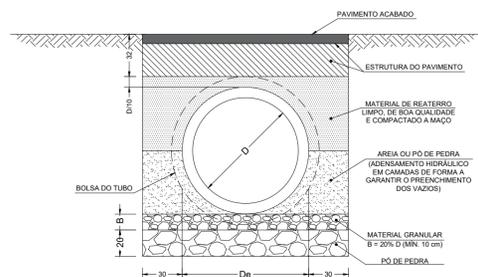


**NOTAS:**

- As grelhas poderão ser do tipo articulada.

**DETALHE DO ASSENTAMENTO DE TUBO DE CONCRETO EM VALA**

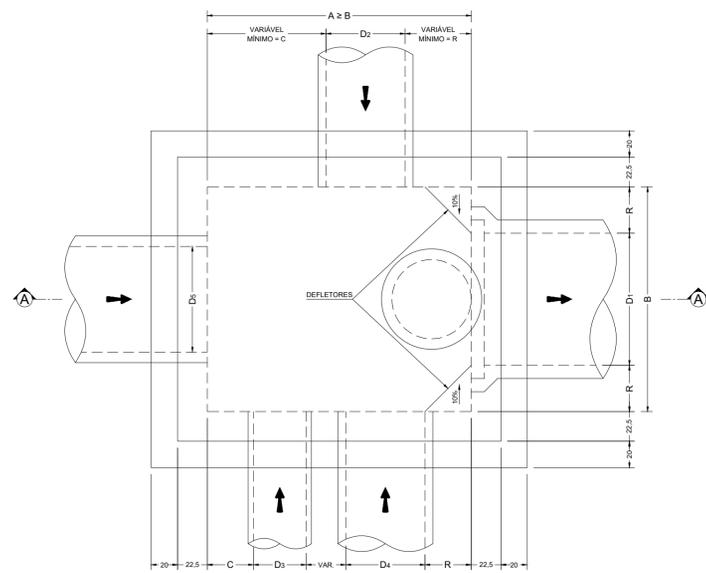
ESCALA - 1/25



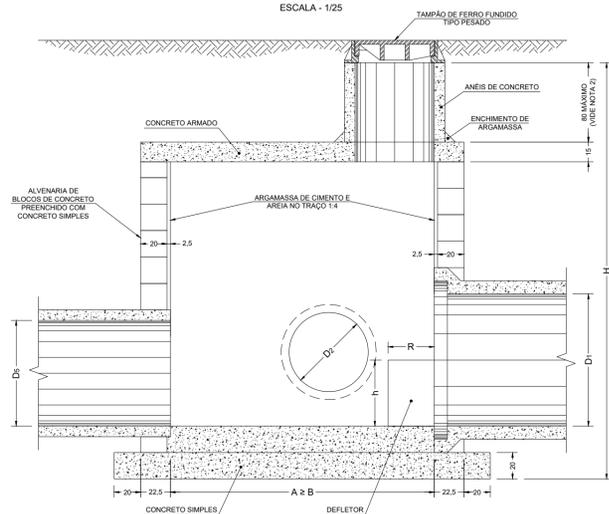
**NOTA:**  
NAS GALERIAS RETANGULARES A CAMADA DE MATERIAL GRANULAR (B) SERÁ DE 10 cm COM 50 cm DE ENROCAMENTO.

**POÇO DE VISITA**

VISTA SUPERIOR  
ESCALA - 1/25



CORTE AA  
ESCALA - 1/25



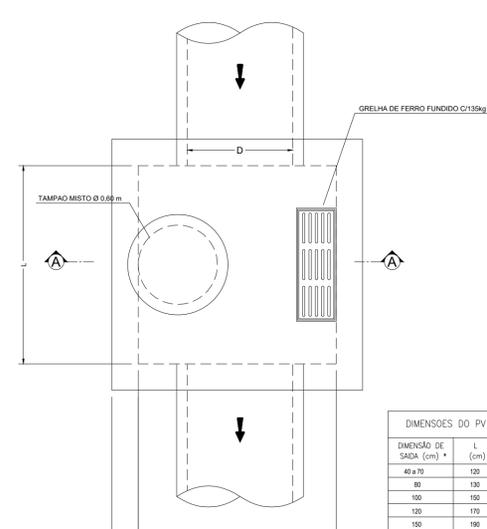
D1 / D3	C	D1	R	D1	h
40	35	40	35	40	20
50	30	50	30	50	25
60	25	60	25	60	30
70	25	70	25	70	35
80	30	80	30	80	40
90	30	90	30	90	45
100	35	100	35	100	50
120	40	120	40	120	60
150	40	150	50	150	60
180	50	180	60	180	80
200	50	200	70	200	80

**NOTAS:**

- COTAS EM CENTÍMETRO;
- QUANDO A ALTURA DO PV (H) FOR INFERIOR A 2,00m, O TAMPÃO DE FERRO FUNDIDO DEVERÁ SER APOIADO DIRETAMENTE NA LAJE SUPERIOR.

**POÇO DE VISITA COM RALO ACOPLADO**

VISTA SUPERIOR  
ESCALA - 1/25

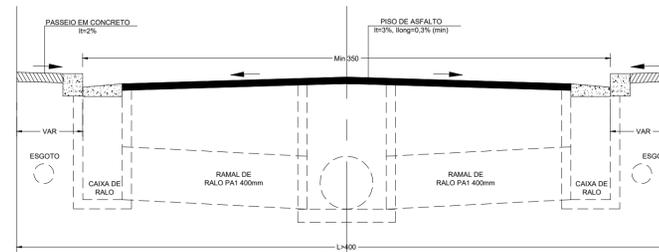
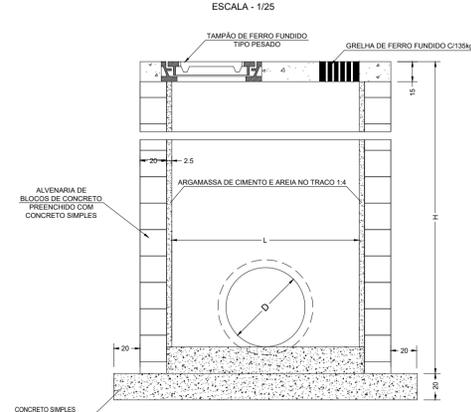


DIMENSÕES DO PV

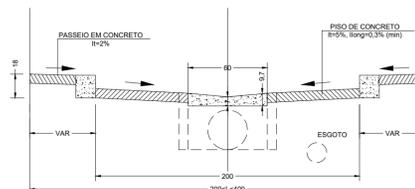
DMENSÃO DE SADA (cm) •	L (cm)
40 a 70	120
80	130
100	150
120	170
150	190

• DIÂMETRO PARA TUBOS E BASE PARA GALERIAS RETANGULARES

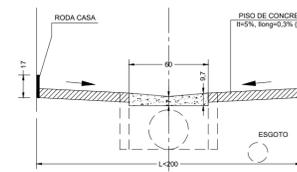
CORTE AA  
ESCALA - 1/25



VIAS L > 4,00m  
ESCALA - 1/25



VIAS 2,00 < L < 4,00m  
ESCALA - 1/25

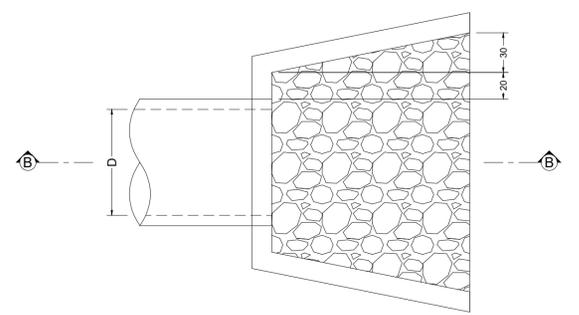


BECO < 2,00m  
ESCALA - 1/25

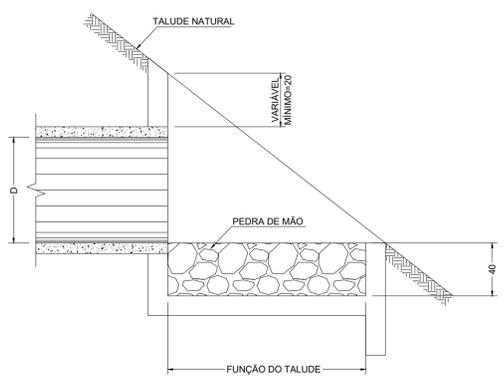
**DETALHE DESÁGUE EM CURSO D'ÁGUA**

ESCALA: 1/25

VISTA SUPERIOR



CORTE AA



**NOTAS:**

- COTAS EM METRO E DIÂMETROS EM MILÍMETRO.
- RAMAIS DE RALO EM MANILHA DE CONCRETO PA1 DN 400mm E ASSENTADOS COM DECLIVIDADE DE 0,5%.
- DEVERÁ SER EXECUTADA LIMPEZA E DESOBSTRUÇÃO DAS GAP'S, PV'S E RALOS EXISTENTES QUE SERÃO APROVEITADOS TOTAL OU PARCIALMENTE. OS MESMOS DEVERÃO TAMBÉM SER INSPECIONADOS QUANTO AO SEU ASPECTO ESTRUTURAL.
- DURANTE A PAVIMENTAÇÃO DAS VIAS INTERNAS, ONDE O ESCOAMENTO É SUPERFICIAL, A DECLIVIDADE ADOTADA SERÁ DE 0,50%, NA DIREÇÃO DOS CORPOS RECEPTORES EXISTENTES OU PROJETADOS.
- MATERIAL DAS GALERIAS E TUBULAÇÕES CONFORME INDICAÇÃO EM PLANTA.

18/02/2025	EMIÇÃO INICIAL	
REVISÃO	DATA	DISCRIMINAÇÃO
		AUTOR
<b>PMBR</b> PREFEITURA MUNICIPAL DE BELFORD ROXO		
OBJETO DA OBRA: OBRAS DE DRENAGEM E PAVIMENTAÇÃO EM DIVERSAS RUAS NOS BAIRROS SÃO JOSÉ / SANTA TERESA BELFORD ROXO/RJ		
ASSINTE: PROJETO BÁSICO DE DRENAGEM PLUVIAL DETALHES	RESPONSÁVEL TÉCNICO: ELVIS WENDER PROFESSOR DE DRENAGEM CÁD. PROF. Nº 331282-5	RESPONSÁVEL FISCAL: [Assinatura]
ASSINTE: DRE DETALHES - PVS DE DRENAGEM	Nº FRENCHA: 38	DATA: 02/2025