

[illegible]

Materialersatz:  
Ungebundenes Korngemisch 0/63  
ME = 50 MN/m<sup>2</sup>

The diagram illustrates a water supply well with the following components and dimensions:

- Top Components:** Schieber, Rückschlagventil, Wasserzähler, and Deckel.
- Well Structure:**
  - Bohrkote 644.00 (top of borehole)
  - Abdichtungsmaterial nach Vorschlag Unternehmer, z. B. Ton (sealing material)
  - Bohrloch ø 900 (borehole diameter)
  - Abstandhalter (spacers)
  - Filterkies 4/8 mm (filter gravel)
  - Drainagerohr DN 600 ca. alle 4 m zentriert, Stahlrohr Lochdurchmesser max. 2 mm (drainage pipe, centered every 4m, steel pipe, max hole diameter 2mm)
  - Unterwasserpumpe (submersible pump)
  - Schlamm sack (sludge bag)
  - Stahldeckel (steel cover)
- Water Levels and Filtration:**
  - OK Filterbrunnen (top of OK filter well)
  - HW<sub>g</sub> 642.50 (groundwater level)
  - HW<sub>w</sub> 642.00 (well water level)
  - Abgesenker Grundwasserspiegel 635.50 (lowered groundwater level)
  - UK Filterbrunnen 631.50 (bottom of UK filter well)
  - UK Filterbrunnen 630.00 (bottom of UK filter well)
- Dimensions:**
  - Vorhof L = 3.40 (forebay length)
  - Filterrohr L = 9.50 (filter pipe length)
  - Vorhof L = 1.50 (forebay length)

The longitudinal profile shows the road elevation (m) on the y-axis (640 to 670) and distance on the x-axis. Key features include a 'Beton' section, a 'Tunnel-Achse' (tunnel axis), and a 'SPS-Achse' (SPS axis). A cross-section of the tunnel is shown below the profile, and a table of data is provided on the right.

Station	Height (m)	Width (m)	Area (m²)	Volume (m³)
1	645.0	10.0	10.0	10.0
2	646.0	10.0	10.0	20.0
3	647.0	10.0	10.0	30.0
4	648.0	10.0	10.0	40.0
5	649.0	10.0	10.0	50.0
6	650.0	10.0	10.0	60.0
7	651.0	10.0	10.0	70.0
8	652.0	10.0	10.0	80.0
9	653.0	10.0	10.0	90.0
10	654.0	10.0	10.0	100.0
11	655.0	10.0	10.0	110.0
12	656.0	10.0	10.0	120.0
13	657.0	10.0	10.0	130.0
14	658.0	10.0	10.0	140.0
15	659.0	10.0	10.0	150.0
16	660.0	10.0	10.0	160.0
17	661.0	10.0	10.0	170.0
18	662.0	10.0	10.0	180.0
19	663.0	10.0	10.0	190.0
20	664.0	10.0	10.0	200.0
21	665.0	10.0	10.0	210.0
22	666.0	10.0	10.0	220.0
23	667.0	10.0	10.0	230.0
24	668.0	10.0	10.0	240.0
25	669.0	10.0	10.0	250.0
26	670.0	10.0	10.0	260.0

Horizont 638 m ü. M.	
Station	
Terrainhöhen	
Projekthöhen	
Bauzustand	

[illegible]

Station	669.52	669.53	669.54	669.55	669.56	669.57	669.58	669.59	669.60	669.61	669.62	669.63	669.64	669.65	669.66	669.67	669.68	669.69	669.70	669.71	669.72	669.73	669.74	669.75	669.76	669.77	669.78	669.79	669.80	669.81	669.82	669.83	669.84	669.85	669.86	669.87	669.88	669.89	669.90	669.91	669.92	669.93	669.94	669.95	669.96	669.97	669.98	669.99	670.00	670.01	670.02	670.03	670.04	670.05	670.06	670.07	670.08	670.09	670.10	670.11	670.12	670.13	670.14	670.15	670.16	670.17	670.18	670.19	670.20	670.21	670.22	670.23	670.24	670.25	670.26	670.27	670.28	670.29	670.30	670.31	670.32	670.33	670.34	670.35	670.36	670.37	670.38	670.39	670.40	670.41	670.42	670.43	670.44	670.45	670.46	670.47	670.48	670.49	670.50	670.51	670.52	670.53	670.54	670.55	670.56	670.57	670.58	670.59	670.60	670.61	670.62	670.63	670.64	670.65	670.66	670.67	670.68	670.69	670.70	670.71	670.72	670.73	670.74	670.75	670.76	670.77	670.78	670.79	670.80	670.81	670.82	670.83	670.84	670.85	670.86	670.87	670.88	670.89	670.90	670.91	670.92	670.93	670.94	670.95	670.96	670.97	670.98	670.99	671.00	671.01	671.02	671.03	671.04	671.05	671.06	671.07	671.08	671.09	671.10	671.11	671.12	671.13	671.14	671.15	671.16	671.17	671.18	671.19	671.20	671.21	671.22	671.23	671.24	671.25	671.26	671.27	671.28	671.29	671.30	671.31	671.32	671.33	671.34	671.35	671.36	671.37	671.38	671.39	671.40	671.41	671.42	671.43	671.44	671.45	671.46	671.47	671.48	671.49	671.50	671.51	671.52	671.53	671.54	671.55	671.56	671.57	671.58	671.59	671.60	671.61	671.62	671.63	671.64	671.65	671.66	671.67	671.68	671.69	671.70	671.71	671.72	671.73	671.74	671.75	671.76	671.77	671.78	671.79	671.80	671.81	671.82	671.83	671.84	671.85	671.86	671.87	671.88	671.89	671.90	671.91	671.92	671.93	671.94	671.95	671.96	671.97	671.98	671.99	672.00	672.01	672.02	672.03	672.04	672.05	672.06	672.07	672.08	672.09	672.10	672.11	672.12	672.13	672.14	672.15	672.16	672.17	672.18	672.19	672.20	672.21	672.22	672.23	672.24	672.25	672.26	672.27	672.28	672.29	672.30	672.31	672.32	672.33	672.34	672.35	672.36	672.37	672.38	672.39	672.40	672.41	672.42	672.43	672.44	672.45	672.46	672.47	672.48	672.49	672.50	672.51	672.52	672.53	672.54	672.55	672.56	672.57	672.58	672.59	672.60	672.61	672.62	672.63	672.64	672.65	672.66	672.67	672.68	672.69	672.70	672.71	672.72	672.73	672.74	672.75	672.76	672.77	672.78	672.79	672.80	672.81	672.82	672.83	672.84	672.85	672.86	672.87	672.88	672.89	672.90	672.91	672.92	672.93	672.94	672.95	672.96	672.97	672.98	672.99	673.00	673.01	673.02	673.03	673.04	673.05	673.06	673.07	673.08	673.09	673.10	673.11	673.12	673.13	673.14	673.15	673.16	673.17	673.18	673.19	673.20	673.21	673.22	673.23	673.24	673.25	673.26	673.27	673.28	673.29	673.30	673.31	673.32	673.33	673.34	673.35	673.36	673.37	673.38	673.39	673.40	673.41	673.42	673.43	673.44	673.45	673.46	673.47	673.48	673.49	673.50	673.51	673.52	673.53	673.54	673.55	673.56	673.57	673.58	673.59	673.60	673.61	673.62	673.63	673.64	673.65	673.66	673.67	673.68	673.69	673.70	673.71	673.72	673.73	673.74	673.75	673.76	673.77	673.78	673.79	673.80	673.81	673.82	673.83	673.84	673.85	673.86	673.87	673.88	673.89	673.90	673.91	673.92	673.93	673.94	673.95	673.96	673.97	673.98	673.99	674.00	674.01	674.02	674.03	674.04	674.05	674.06	674.07	674.08	674.09	674.10	674.11	674.12	674.13	674.14	674.15	674.16	674.17	674.18	674.19	674.20	674.21	674.22	674.23	674.24	674.25	674.26	674.27	674.28	674.29	674.30	674.31	674.32	674.33	674.34	674.35	674.36	674.37	674.38	674.39	674.40	674.41	674.42	674.43	674.44	674.45	674.46	674.47	674.48	674.49	674.50	674.51	674.52	674.53	674.54	674.55	674.56	674.57	674.58	674.59	674.60	674.61	674.62	674.63	674.64	674.65	674.66	674.67	674.68	674.69	674.70	674.71	674.72	674.73	674.74	674.75	674.76	674.77	674.78	674.79	674.80	674.81	674.82	674.83	674.84	674.85	674.86	674.87	674.88	674.89	674.90	674.91	674.92	674.93	674.94	674.95	674.96	674.97	674.98	674.99	675.00	675.01	675.02	675.03	675.04	675.05	675.06	675.07	675.08	675.09	675.10	675.11	675.12	675.13	675.14	675.15	675.16	675.17	675.18	675.19	675.20	675.21	675.22	675.23	675.24	675.25	675.26	675.27	675.28	675.29	675.30	675.31	675.32	675.33	675.34	675.35	675.36	675.37	675.38	675.39	675.40	675.41	675.42	675.43	675.44	675.45	675.46	675.47	675.48	675.49	675.50	675.51	675.52	675.53	675.54	675.55	675.56	675.57	675.58	675.59	675.60	675.61	675.62	675.63	675.64	675.65	675.66	675.67	675.68	675.69	675.70	675.71	675.72	675.73	675.74	675.75	675.76	675.77	675.78	675.79	675.80	675.81	675.82	675.83	675.84	675.85	675.86	675.87	675.88	675.89	675.90	675.91	675.92	675.93	675.94	675.95	675.96	675.97	675.98	675.99	676.00	676.01	676.02	676.03	676.04	676.05	676.06	676.07	676.08	676.09	676.10	676.11	676.12	676.13	676.14	676.15	676.16	676.17	676.18	676.19	676.20	676.21	676.22	676.23	676.24	676.25	676.26	676.27	676.28	676.29	676.30	676.31	676.32	676.33	676.34	676.35	676.36	676.37	676.38	676.39	676.40	676.41	676.42	676.43	676.44	676.45	676.46	676.47	676.48	676.49	676.50	676.51	676.52	676.53	676.54	676.55	676.56	676.57	676.58	676.59	676.60	676.61	676.62	676.63	676.64	676.65	676.66	676.67	676.68	676.69	676.70	676.71	676.72	676.73	676.74	676.75	676.76	676.77	676.78	676.79	676.80	676.81	676.82	676.83	676.84	676.85	676.86	676.87	676.88	676.89	676.90	676.91	676.92	676.93	676.94	676.95	676.96	676.97	676.98	676.99	677.00	677.01	677.02	677.03	677.04	677.05	677.06	677.07	677.08	677.09	677.10	677.11	677.12	677.13	677.14	677.15	677.16	677.17	677.18	677.19	677.20	677.21	677.22	677.23	677.24	677.25	677.26	677.27	677.28	677.29	677.30	677.31	677.32	677.33	677.34	677.35	677.36	677.37	677.38	677.39	677.40	677.41	677.42	677.43	677.44	677.45	677.46	677.47	677.48	677.49	677.50	677.51	677.52	677.53	677.54	677.55	677.56	677.57	677.58	677.59	677.60	677.61	677.62	677.63	677.64	677.65	677.66	677.67	677.68	677.69	677.70	677.71	677.72	677.73	677.74	677.75	677.76	677.77	677.78	677.79	677.80	677.81	677.82	677.83	677.84	677.85	677.86	677.87	677.88	677.89	677.90	677.91	677.92	677.93	677.94	677.95	677.96	677.97	677.98	677.99	678.00	678.01	678.02	678.03	678.04	678.05	678.06	678.07	678.08	678.09	678.10	678.11	678.12	678.13	678.14	678.15	678.16	678.17	678.18	678.19	678.20	678.21	678.22	678.23	678.24	678.25	678.26	678.27	678.28	678.29	678.30	678.31	678.32	678.33	678.34	678.35	678.36	678.37	678.38	678.39	678.40	678.41	678.42	678.43	678.44	678.45	678.46	678.47	678.48	678.49	678.50	678.51	678.52	678.53	678.54	678.55	678.56	678.57	678.58	678.59	678.60	678.61	678.62	678.63	678.64	678.65	678.66	678.67	678.68	678.69	678.70	678.71	678.72	678.73	678.74	678.75	678.76	678.77	678.78	678.79	678.80	678.81	678.82	678.83	678.84	678.85	678.86	678.87	678.88	678.89	678.90	678.91	678.92	678.93	678.94	678.95	678.96	678.97	678.98	678.99	679.00	679.01	679.02	679.03	679.04	679.05	679.06	679.07	679.08	679.09	679.10	679.11	679.12	679.13	679.14	679.15	679.16	679.17	679.18	679.19	679.20	679.21	679.22	679.23	679.24	679.25	679.26	679.27	679.28	679.29	679.30	679.31	679.32	679.33	679.34	679.35	679.36	679.37	679.38	679.39	679.40	679.41	679.42	679.43	679.44	679.45	679.46	679.47	679.48	679.49	679.50	679.51	679.52	679.53	679.54	679.55	679.56	679.57	679.58	679.59	679.60	679.61	679.62	679.63	679.64	679.65	679.66	679.67	679.68	679.69	679.70	679.71	679.72	679.73	679.74	679.75	679.76	679.77	679.78	679.79	679.80	679.81	679.82	679.83	679.84	679.85	679.86	679.87	679.88	679.89	679.90	679.91	679.92	679.93	679.94	679.95	679.96	679.97	679.98	679.99	680.00	680.01	680.02	680.03	680.04	680.05	680.06	680.07	680.08	680.09	680.10	680.11	680.12	680.13	680.14	680.15	680.16	680.17	680.18	680.19	680.20	680.21	680.22	680.23	680.24	680.25	680.26	680.27	680.28	680.29	680.30	680.31	680.32	680.33	680.34	680.35	680.36	680.37	680.38	680.39	680.40	680.41	680.42	680.43	680.44	680.45	680.46	680.47	680.48	680.49	680.50	680.51	680.52	680.53	680.54	680.55	680.56	680.57	680.58	680.59	680.60	680.61	680.62	680.63	680.64	680.65	680.66	680.67	680.68	680.69	680.70	680.71	680.72	680.73	680.74	680.75	680.76
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### Schnitt C-C 1:200

670 m

665 m

660 m

655 m

650 m

645 m

640 m

15.00 m

644.00

641.07 Gründungsebene Tagbau (Bestand)

Tunnel A2/B9

651.00 alte Kantonsstrasse

15 cm Spritzbeton

Netz K 335

Mörtelanker S

ø 28 mm, L = 10 m

best. Voreinschnitt (Spritzbeton mit M)

[illegible]

Station										ME – 50 MN/m <sup>2</sup>									
Terrainhöhen										ME – 50 MN/m <sup>2</sup>									
Projekthöhen										ME – 50 MN/m <sup>2</sup>									
Bauzustand										ME – 50 MN/m <sup>2</sup>									