

**ANEJO n° 10**  
**MOVIMIENTO DE TIERRAS**

---



## ANEJO DE MOVIMIENTO DE TIERRAS

### ÍNDICE

1	INTRODUCCIÓN.....	2
2	PROCESOS DE CÁLCULO.....	2
3	HIPÓTESIS DE CÁLCULO.....	2
4	RESULTADOS DE LOS CÁLCULOS.....	3
5	CONTENIDO DE LOS LISTADOS.....	5

APÉNDICE 1. GRÁFICOS DE MOVIMIENTO DE TIERRAS

APÉNDICE 2. LISTADOS DE MOVIMIENTO DE TIERRAS

## ANEJO DE MOVIMIENTO DE TIERRAS

### 1 INTRODUCCIÓN

En este anejo se incluyen todos los cálculos necesarios para determinar el movimiento de tierras que se ha de realizar en cada una de las alternativas estudiadas.

El anejo se ha organizado de lo general a lo particular realizando en primer lugar una explicación somera de la sistemática seguida para su determinación, para posteriormente detallar las hipótesis generales que han servido de base para los cálculos. Finalmente se incluye un resumen de los resultados.

Como apéndice al anejo se incluyen los cálculos y diagramas de masas obtenidos para las alternativas.

### 2 PROCESOS DE CÁLCULO

La sistemática seguida para la realización de los trabajos ha consistido, en primer lugar, en obtener de cada uno de los ejes que se ha trazado los listados de volúmenes de desmonte y terraplén generados por cada eje en cada progresiva, deducida la capa de tierra vegetal. Con estos ficheros se han obtenido las diferentes áreas y volúmenes de desmonte y terraplén para cada eje.

Los listados obtenidos se han procesado mediante hoja de cálculo, realizando el estudio de compensación de ejes, empleando el método del diagrama de masas, facilitando como información:

- Compensación longitudinal en el tronco
- Compensación transversal entre perfiles a media ladera.

Para su determinación se han fijado un coeficiente de paso, con lo que finalmente se genera un gráfico acumulado desmonte-terraplén denominado “Diagrama de masas” del que se deduce tanto las necesidades de préstamos y vertederos como las canteras de compensación existentes.

Se ha llevado a cabo un cálculo de la tierra vegetal que se retira, realizando un resumen para cada alternativa, cuyos datos se han integrado en la tabla resumen.

### 3 HIPÓTESIS DE CÁLCULO

Los materiales excavados serán mayoritariamente roca, con una composición tipo todo-uno y/o pedraplén. En estas condiciones el coeficiente de paso tiene un valor de 1,182, considerando un esponjamiento del 18% y un 3 % en pérdidas durante el transporte:

Coeficiente de paso:  $(1,00/0,82) \times 0,97 = 1,182$

## 4 RESULTADOS DE LOS CÁLCULOS

De acuerdo con los cálculos realizados para cada tramo de cada alternativa, se presenta un resumen de los volúmenes de tierras. Aquí se presentan los valores totales de cada tramo, obtenidos acumulando los volúmenes en aquellas secciones que no están ocupadas por estructuras.

ALTERNATIVA 1											Coeficiente de paso = 1,182	
TRAMO	DENOMINACIÓN	DESMONTE TIERRAS (m <sup>3</sup> )	EXCAVACIÓN EN TÚNEL (m <sup>3</sup> )	EXCAVACIÓN SANEOS (m <sup>3</sup> )	RELLENO SANEOS (m <sup>3</sup> )	TERRAPLÉN MECANIZADO (m <sup>3</sup> )	TOTAL TERRAPLÉN + SANEOS (m <sup>3</sup> )	S-EST3 (con tierras de la propia obra) (m <sup>3</sup> )	S-SELEC 2 (préstamo) (m <sup>3</sup> )	TIERRAS PROPIA OBRA DISPONIBLES (m <sup>3</sup> )	TOTAL PRÉSTAMO (-) O EXCEDENTE (+) (m <sup>3</sup> )	TOTAL TIERRAS VERTEDERO (excedente + saneo) (m <sup>3</sup> )
1A	94+957,716 A 102+800	54.490	549.730			51.518	51.518	4.530	1.247	714.188	656.893	656.893
2A	102+800 A 105+530	131.232	60.504			121.752	121.752	6.899		226.631	97.980	97.980
3A	105+530 A 108+062,533	48.290	89.861			81.049	81.049	7.302		163.295	74.944	74.944
4C	109+388,092 A 115+200	76.863		3.396	3.396	329.894	333.290	29.869	854	90.852	-273.161	-269.765
5B	115+189,997 A 118+463,213	70.016				156.854	156.854	9.731	754	82.759	-84.580	-84.580
6C	118+500 A 123+472,674	67.868				43.412	43.412	17.755		80.220	19.053	19.053
7C	123+300 A 126+795,488	58.753	27.413			24.465	24.465	4.959		101.848	72.424	72.424
8A	126+800 A 135+349,198	111.314				49.230	49.230	20.047		131.573	62.296	62.296
<b>TOTALES:</b>		618.825	727.508	3.396	3.396	858.174	861.570	101.092	2.855	1.591.367	625.850	629.246

ALTERNATIVA 2											Coeficiente de paso = 1,182	
TRAMO	DENOMINACIÓN	DESMONTE TIERRAS (m <sup>3</sup> )	EXCAVACIÓN EN TÚNEL (m <sup>3</sup> )	EXCAVACIÓN SANEOS (m <sup>3</sup> )	RELLENO SANEOS (m <sup>3</sup> )	TERRAPLÉN MECANIZADO (m <sup>3</sup> )	TOTAL TERRAPLÉN + SANEOS (m <sup>3</sup> )	S-EST3 (con tierras de la propia obra) (m <sup>3</sup> )	S-SELEC 2 (préstamo) (m <sup>3</sup> )	TIERRAS PROPIA OBRA DISPONIBLES (m <sup>3</sup> )	TOTAL PRÉSTAMO (-) O EXCEDENTE (+) (m <sup>3</sup> )	TOTAL TIERRAS VERTEDERO (excedente + saneo) (m <sup>3</sup> )
1B	95+203,54 A 103+935,081	172.873	334.813			152.048	152.048	10.528	3.491	600.085	434.018	434.018
2B	103+935,081 A 107+090	71.754	62.291			10.020	10.020	2.717		158.441	145.704	145.704
3B	107+090 A 109+448,78	102.833	78.315			132.388	132.388	13.554	1.929	214.117	66.246	66.246
4B	109+388,092 A 115+189,997	95.387		3.396	3.396	150.533	153.929	30.378	926	112.747	-72.486	-69.090
5B	115+189,997 A 118+463,213	70.016				156.854	156.854	9.731	754	82.759	-84.580	-84.580
6B	118+463,213 A 123+300	91.028				39.364	39.364	17.981		107.595	50.250	50.250
7B	123+300 A 126+800	110.843	43.525			105.121	105.121	11.488		182.463	65.854	65.854
8A	126+800 A 135+349,198	111.314				49.230	49.230	20.047		131.573	62.296	62.296
<b>TOTALES:</b>		826.048	518.944	3.396	3.396	795.558	798.954	116.424	7.100	1.589.781	667.303	670.699

ALTERNATIVA 3											Coeficiente de paso = 1,182	
TRAMO	DENOMINACIÓN	DESMONTE TIERRAS (m <sup>3</sup> )	EXCAVACIÓN EN TÚNEL (m <sup>3</sup> )	EXCAVACIÓN SANEOS (m <sup>3</sup> )	RELLENO SANEOS (m <sup>3</sup> )	TERRAPLÉN MECANIZADO (m <sup>3</sup> )	TOTAL TERRAPLÉN + SANEOS (m <sup>3</sup> )	S-EST3 (con tierras de la propia obra) (m <sup>3</sup> )	S-SELEC 2 (préstamo) (m <sup>3</sup> )	TIERRAS PROPIA OBRA DISPONIBLES (m <sup>3</sup> )	TOTAL PRÉSTAMO (-) O EXCEDENTE (+) (m <sup>3</sup> )	TOTAL TIERRAS VERTEDERO (excedente + saneo) (m <sup>3</sup> )
1A	94+957,716 A 102+800	54.490	549.730			51.518	51.518	4.530	1.247	714.188	656.893	656.893
2A	102+800 A 105+530	131.232	60.504			121.752	121.752	6.899		226.631	97.980	97.980
3A	105+530 A 108+062,533	48.290	89.861			81.049	81.049	7.302		163.295	74.944	74.944
4C	109+388,092 A 115+200	76.863		3.396	3.396	329.894	333.290	29.869	854	90.852	-273.161	-269.765
5C	115+200 A 118+500	110.517	21.155			118.860	118.860	11.931	3.606	155.636	21.239	21.239
6C	118+500 A 123+472,674	67.868				43.412	43.412	17.755		80.220	19.053	19.053
7B	123+300 A 126+800	110.843	43.525			105.121	105.121	11.488		182.463	65.854	65.854
8A	126+800 A 135+349,198	111.314				49.230	49.230	20.047		131.573	62.296	62.296
<b>TOTALES:</b>		711.416	764.775	3.396	3.396	900.836	904.232	109.821	5.707	1.744.859	725.099	728.495

De los diagramas de masas presentados en el apéndice 1 se obtiene el volumen de tierras a compensar longitudinalmente en cada alternativa. Para ello se han acotado las diferentes canteras de compensación que se relacionan en las siguientes tablas. Así mismo, se indica la distancia de transporte de cada cantera:

ALTERNATIVA 1		
CANTERA DE COMPENSACIÓN	VOLUMEN (m <sup>3</sup> )	DISTANCIA DE TRANSPORTE (m)
1	15.242	720
2	28.803	610
3	10.178	19.280
4	41.026	17.120
5	18.290	16.040
6	59.573	770
7	206.263	13.260
8	167.194	3.630
9	59.807	1.640
10	20.765	430
11	30.320	3.630
12	21.237	1.090
12	14.635	2.790
Distancia media ponderada:		7.050

ALTERNATIVA 2		
CANTERA DE COMPENSACIÓN	VOLUMEN (m <sup>3</sup> )	DISTANCIA DE TRANSPORTE (m)
1	14.549	770
2	22.982	2.300
3	55.914	630
4	26.488	700
5	11.061	350
6	8.230	520
7	8.192	15.670
8	33.499	13.500
9	41.566	6.180
10	55.366	1.040
11	38.878	3.040
12	84.487	1.440
13	19.897	610
14	61.422	1.600
15	14.966	5.100
16	21.522	1.280
17	38.228	3.060
18	12.026	830
19	21.237	1.090
20	14.635	2.790
Distancia media ponderada:		2.750

ALTERNATIVA 3		
CANtera DE COMPENSACIÓN	VOLUMEN (m <sup>3</sup> )	DISTANCIA DE TRANSPORTE (m)
1	15.242	720
2	28.803	610
3	206.263	12.350
4	59.573	770
5	167.194	3.630
6	28.335	560
7	10.019	3.610
8	69.699	920
9	3.480	42.980
10	640	9.730
11	1.180	22.390
12	21.237	1.090
13	14.635	2.790
	Distancia media ponderada:	5.730

Los resultados finales se muestran en la siguiente tabla:

	VOLUMEN VERTEDERO	VOLUMEN PRÉSTAMO	DISTANCIA PROMEDIO
ALTERNATIVA 1	629.246 m <sup>3</sup>	-	7.050 m
ALTERNATIVA 2	670.699 m <sup>3</sup>	-	2.750 m
ALTERNATIVA 3	728.495 m <sup>3</sup>	-	5.730 m

En el Anejo n°5 “Procedencia de materiales” se describen en el Apartado 2.4.3 “Vertederos” se describe la situación y el volumen de tierras que pueden asumir los depósitos controlados, zonas para vertederos y actividades extractivas abandonadas próximos a la traza. Se proponen bastantes zonas de vertedero, entre ellas posibles mejoras de fincas, teniendo en cuenta que las actividades extractivas abandonadas con mayor capacidad se encuentran bastante alejadas y son de difícil acceso. Así mismo, en el Apéndice 1 “Situación de vertederos, canteras, yacimientos granulares y plantas de suministro” del citado Anejo, se incluye su posición.

## 5 CONTENIDO DE LOS LISTADOS

A continuación, se incluye una serie de gráficos en los que figura el diagrama de masas, la compensación transversal y los volúmenes de tierra vegetal.

También se presentan los listados del cálculo del movimiento de tierras. Se presenta un listado por alternativa en el que se recopilan los resultados de la determinación en cada progresiva de: tierra vegetal, el desmonte y terraplén con su correspondiente compensación. Se incluye, también, una serie de gráficos en los que figura el diagrama de masas, la compensación transversal y los volúmenes de tierra vegetal.





**Apéndice 1:**  
**Gráficos de movimiento de tierras**

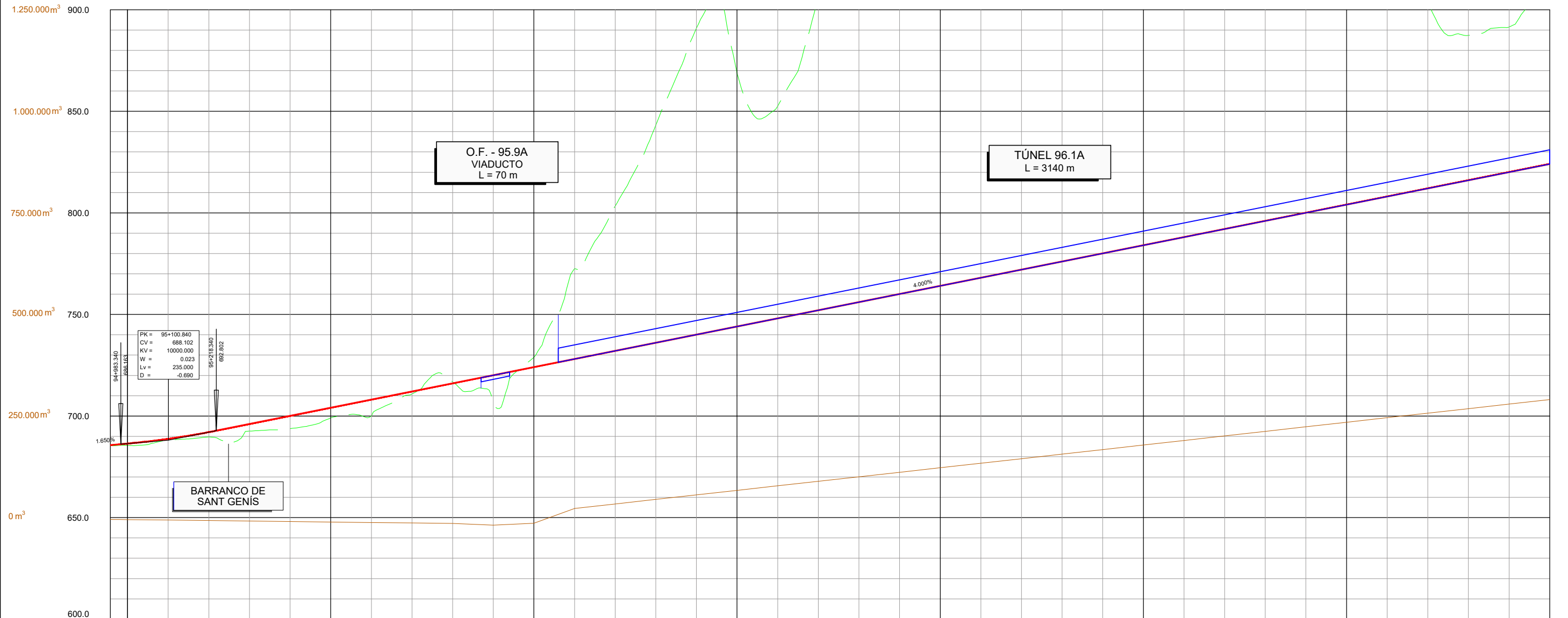


*Alternativa 1*



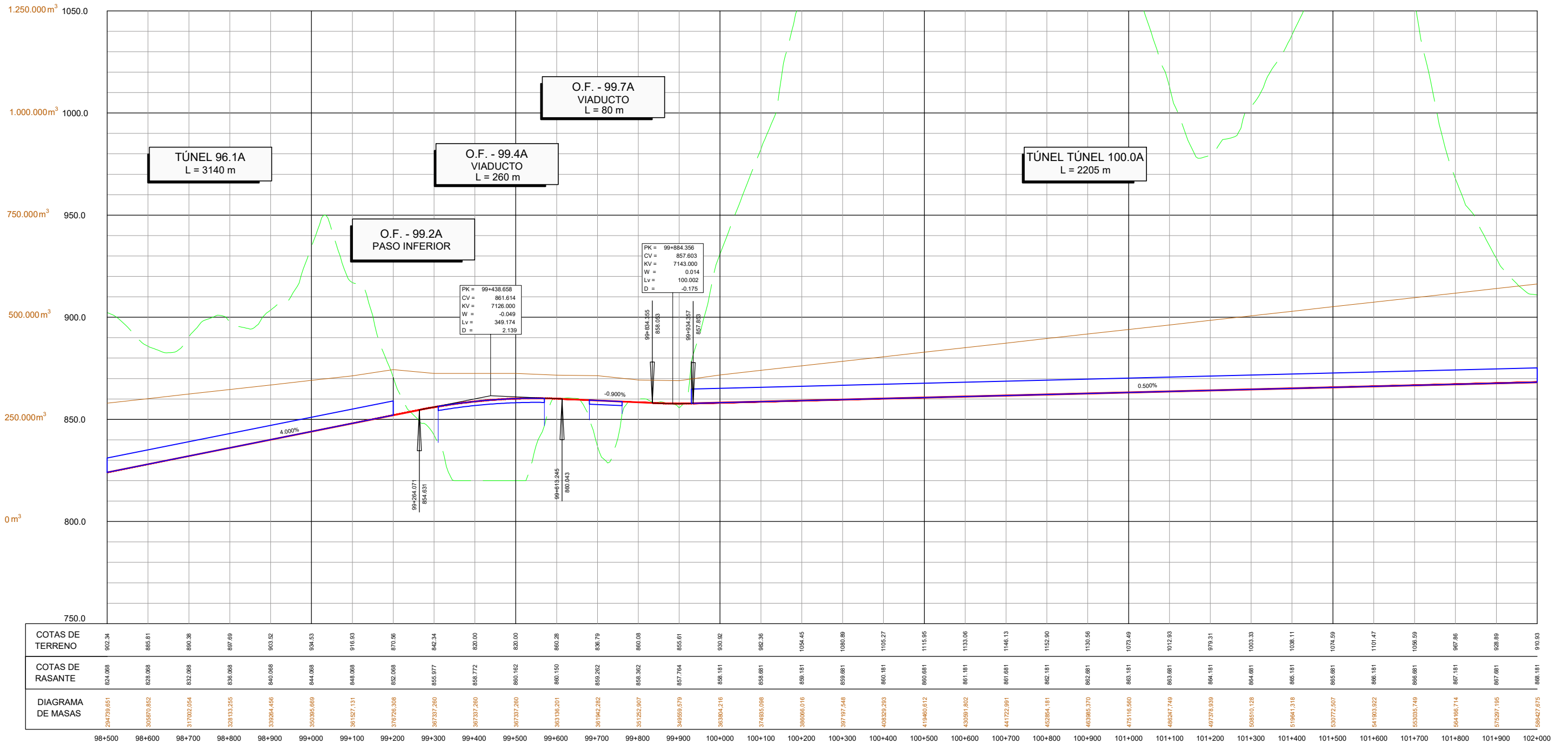
TRAMO 1A

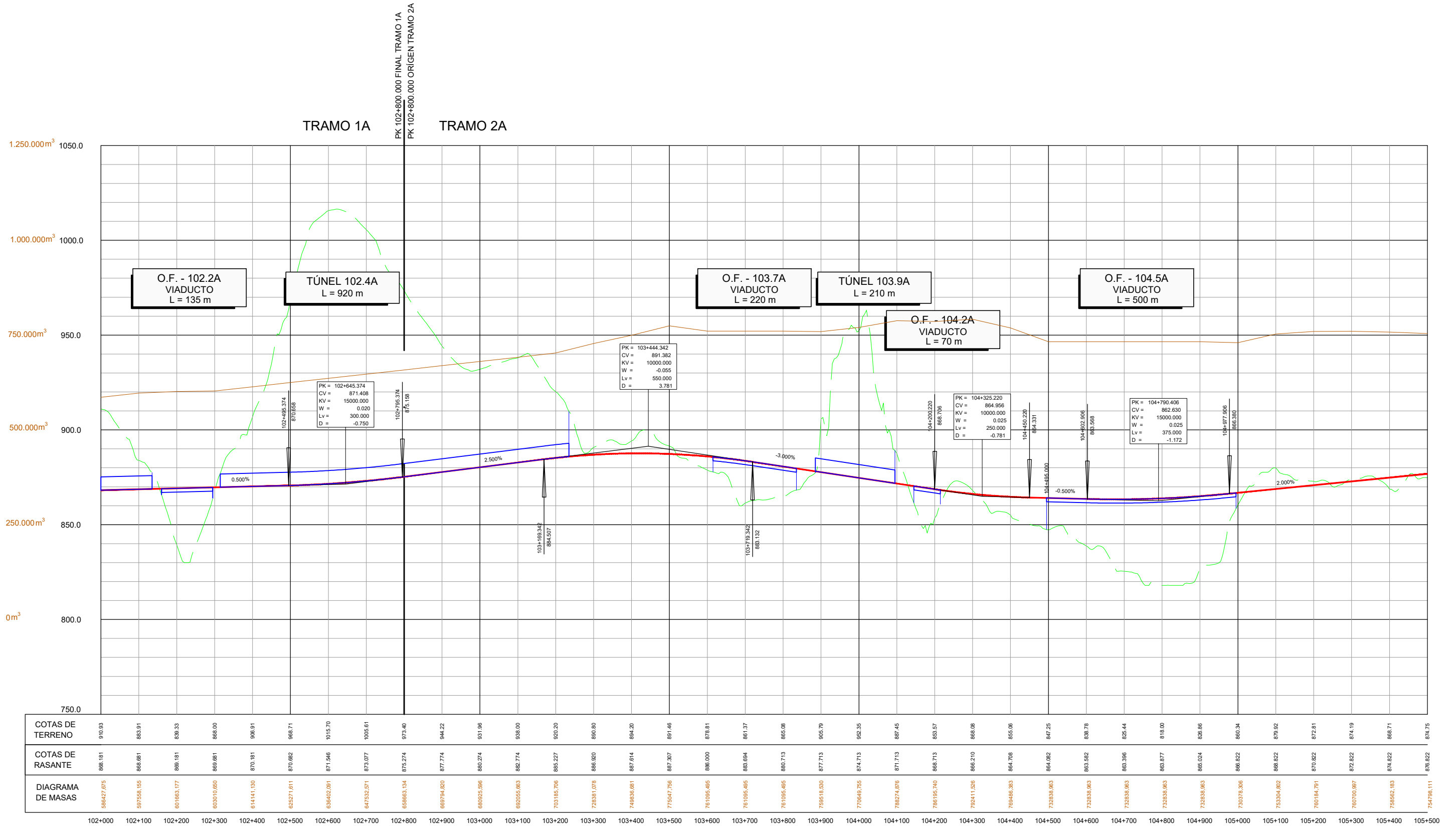
TRAMO 1A



COTAS DE TERRENO	685.60	685.55	686.10	686.77	682.58	693.81	699.11	704.08	708.08	712.08	716.80	724.08	728.85	772.64	803.39	843.14	880.91	888.89	882.54	895.99	972.03	1029.47	939.91	947.97	983.75	986.97	1011.57	1005.17	1099.89	1001.52	977.65	899.13	942.11	941.59	906.32	887.40	891.53	902.34
COTAS DE RASANTE	685.740	686.452	686.768	682.085	686.088	700.088	704.088	708.088	712.088	716.088	720.088	724.088	728.088	732.088	736.088	740.088	744.088	748.088	752.088	756.088	760.088	764.088	768.088	772.088	776.088	780.088	784.088	788.088	792.088	796.088	800.088	804.088	808.088	812.088	816.088	820.088	824.088	
DIAGRAMA DE MASAS	0.000	-684.132	-1651.018	-3007.905	-4184.791	-5321.677	-6731.662	-7886.549	-8946.435	-10202.321	-11434.088	-12601.473	-13761.985	-14893.510	-16025.054	-17156.588	-18288.142	-19419.686	-20551.230	-21682.774	-22814.319	-23945.862	-25077.406	-26208.949	-27340.493	-28472.037	-29603.581	-30735.125	-31866.669	-32998.213	-34129.757	-35261.301	-36392.845	-37524.389	-38655.933	-39787.477	-40919.021	-42050.565

TRAMO 1A



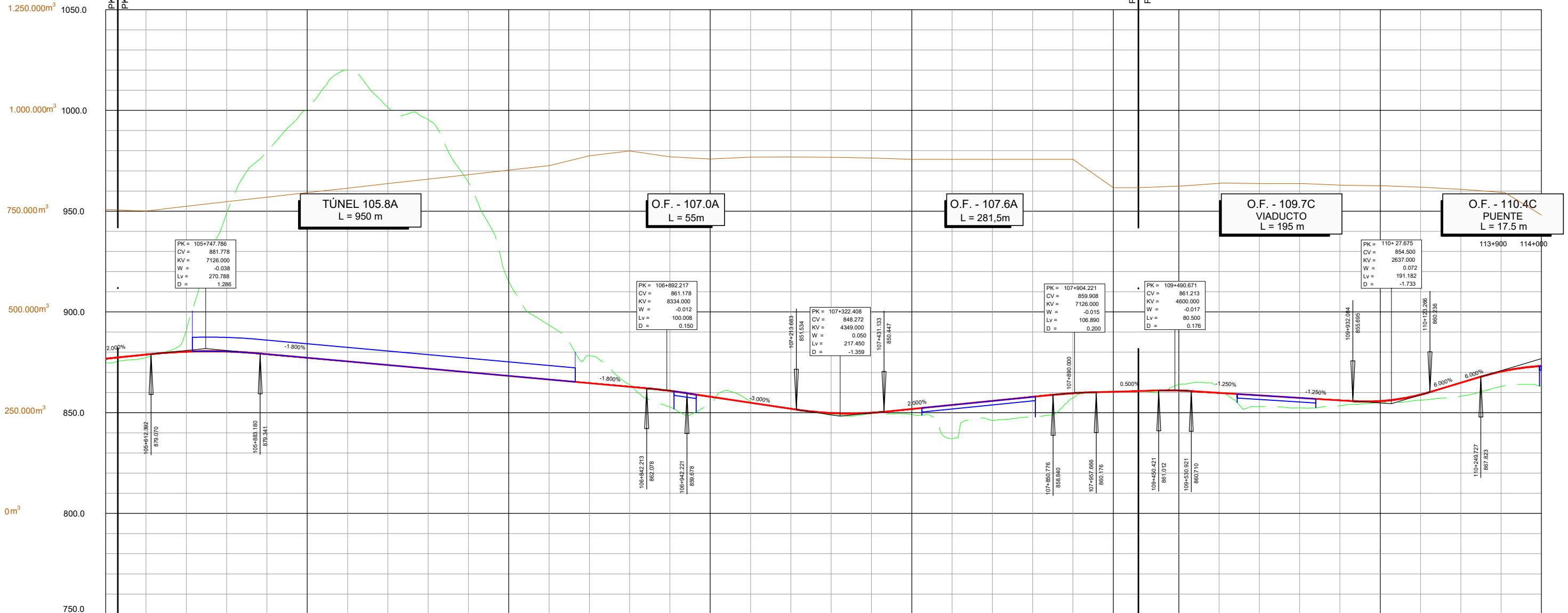


TRAMO 2A

TRAMO 3A

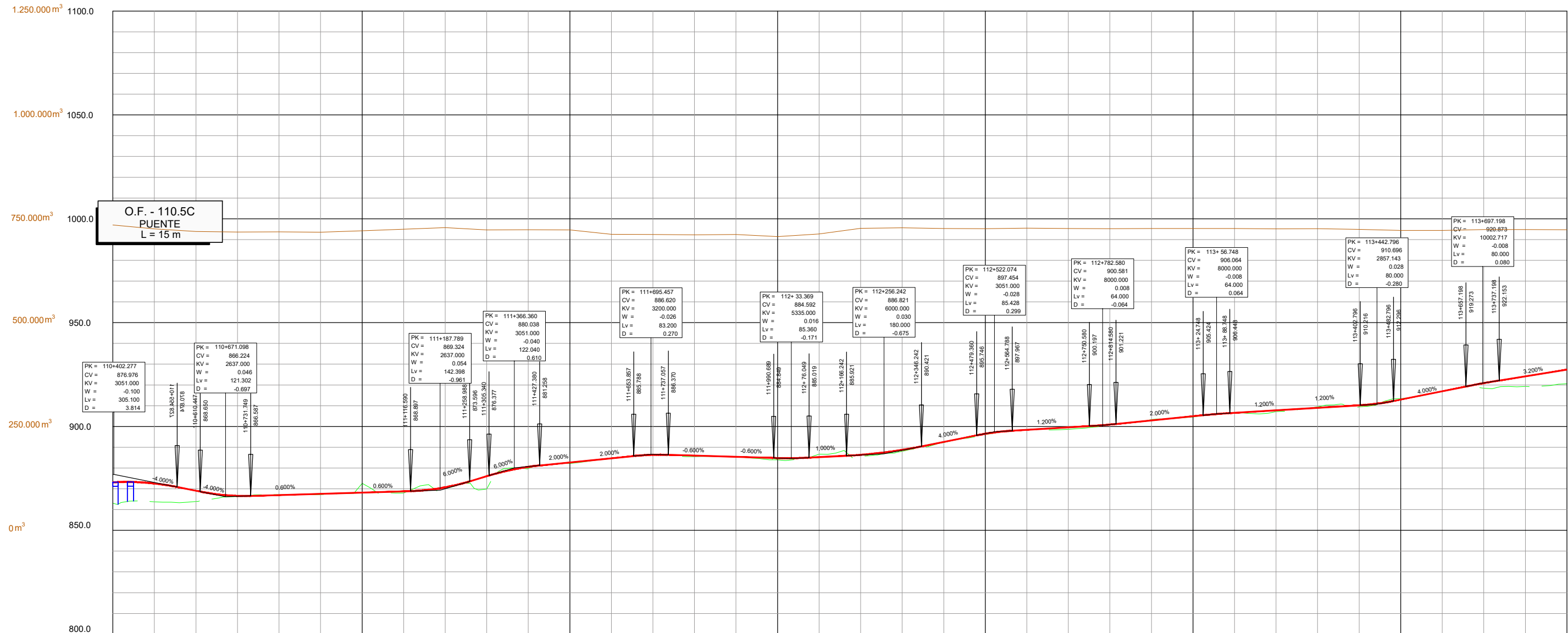
TRAMO 3A

TRAMO 4C TRAMO 2+1

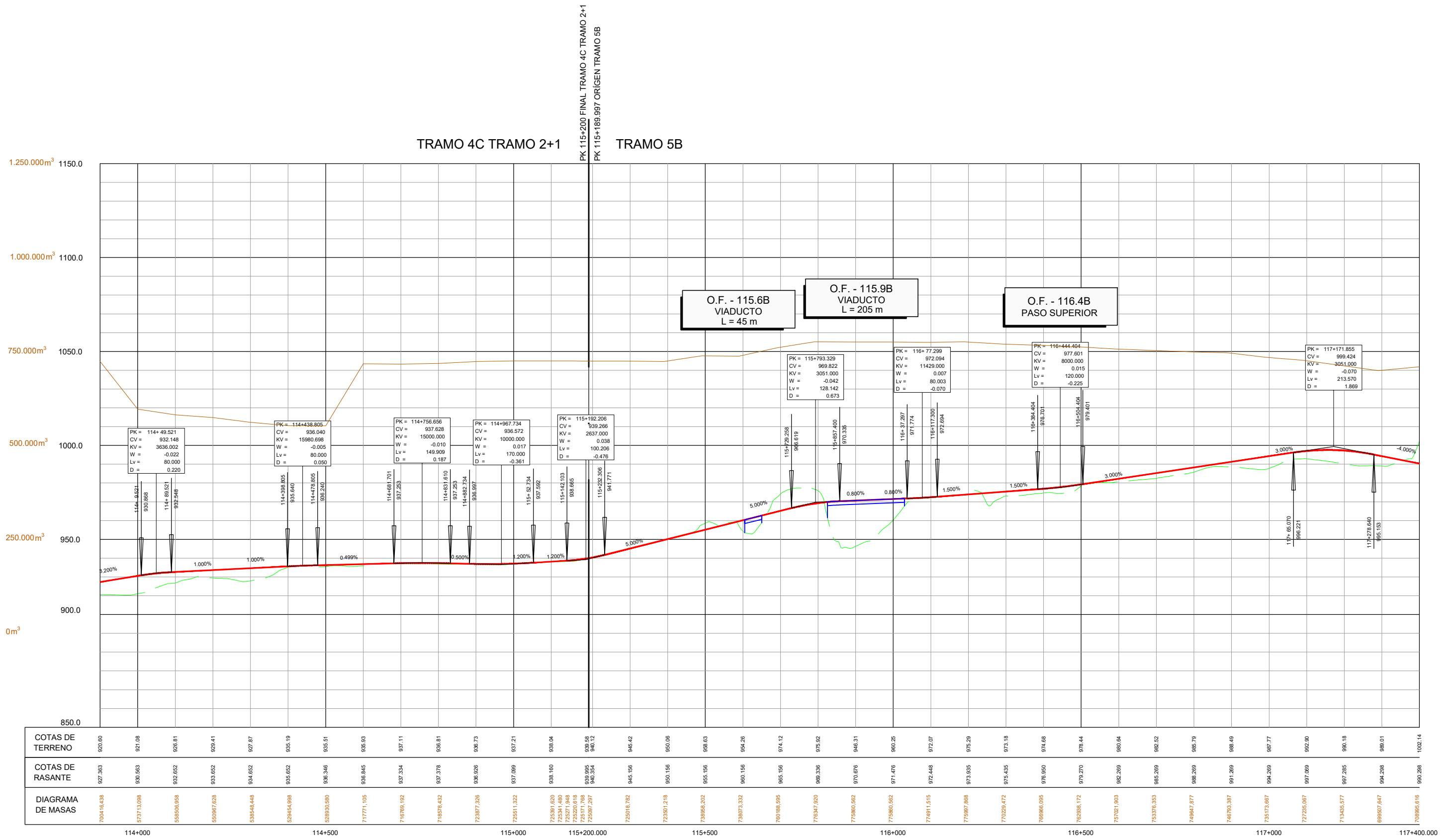


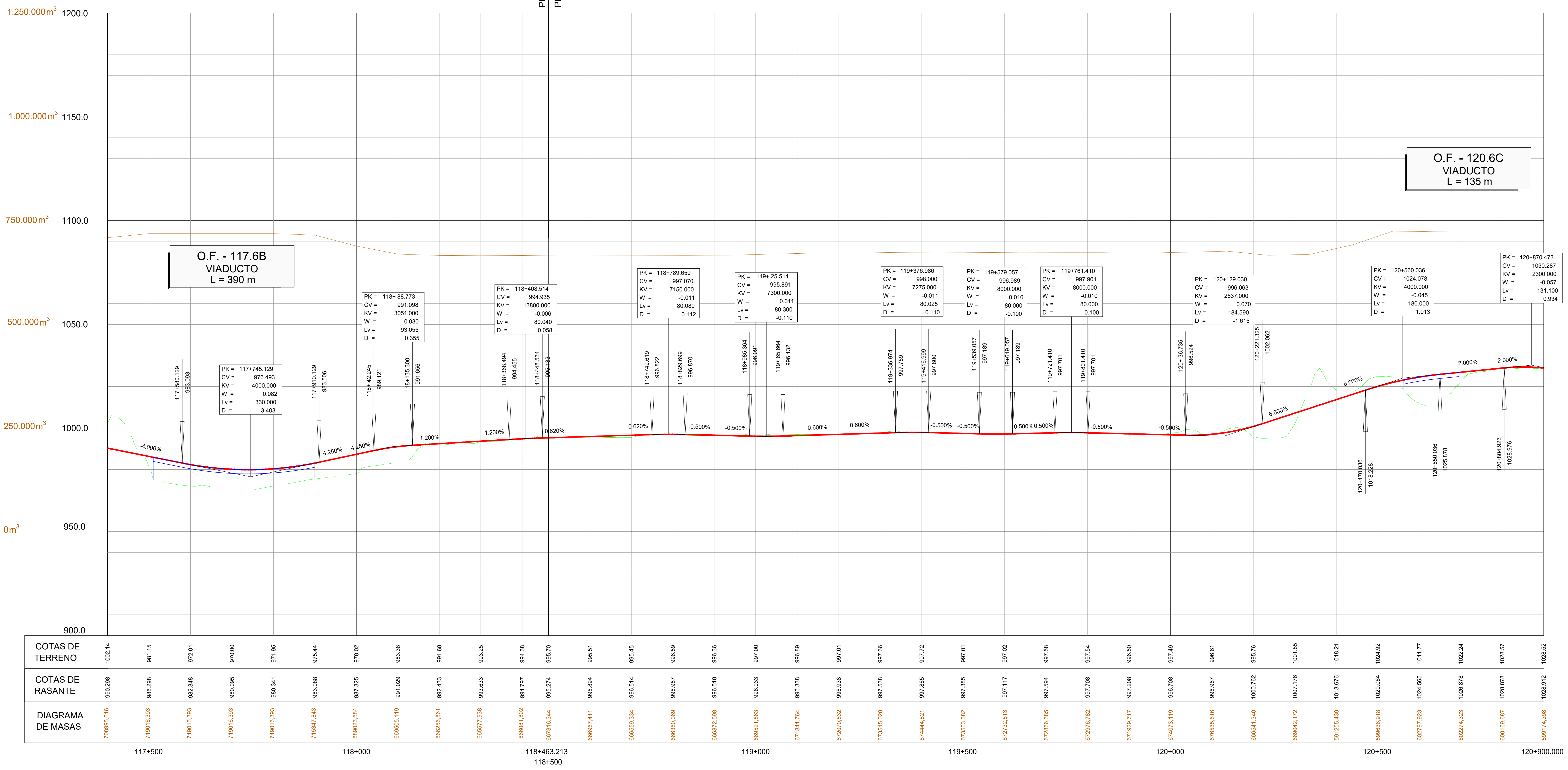
COTAS DE TERRENO	874.75	877.37	880.91	894.15	919.57	1001.20	1019.87	1001.56	995.45	984.50	915.29	893.45	879.21	863.76	852.87	854.20	855.54	862.05	849.82	849.56	849.02	837.23	846.23	847.84	857.36	860.83	860.54	860.52	860.92	862.85	853.00	862.41	853.48	854.95	856.24	858.22	863.01	863.02	
COTAS DE RASANTE	876.822	876.822	880.283	880.352	879.038	877.238	875.438	873.638	871.838	870.038	868.238	866.438	864.638	862.838	860.837	857.944	854.944	851.944	849.801	849.935	849.56	851.824	853.824	855.824	857.824	859.654	860.387	860.700	860.700	860.992	859.846	856.596	857.346	856.096	855.721	856.942	864.840	870.426	873.139
DIAGRAMA DE MASAS	754798.111	759530.173	762768.080	773984.125	785200.135	796416.145	807632.167	818848.165	830016.975	841150.436	852281.061	863412.886	874544.795	885676.216	896807.634	907939.054	919070.475	930201.896	941333.316	952464.736	963596.156	974727.576	985859.000	996990.420	1008121.840	1019253.260	1030384.680	1041516.100	1052647.520	1063778.940	1074910.360	1086041.780	1097173.200	1108304.620	1119436.040	1130567.460	1141698.880	1152830.300	

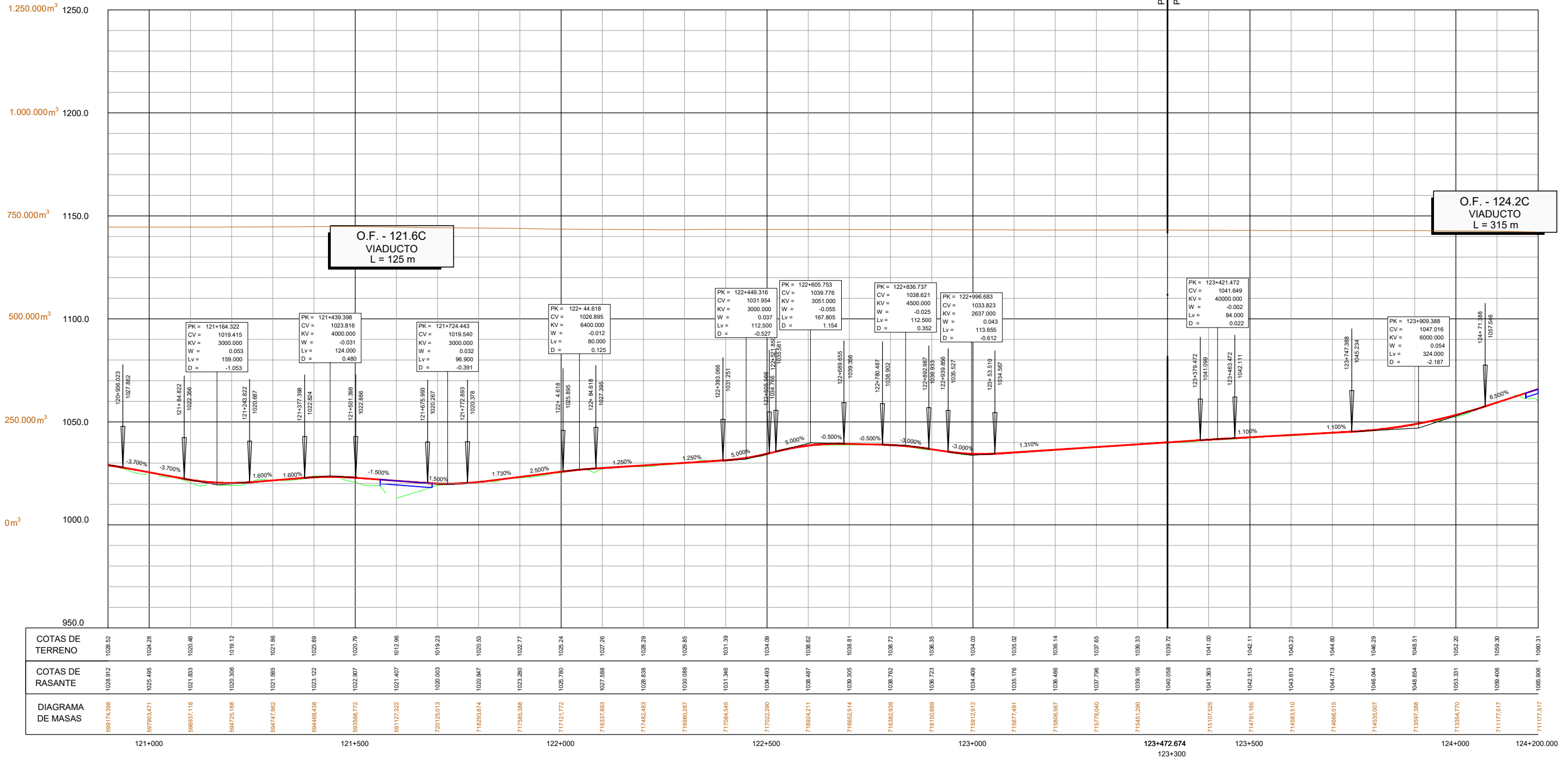


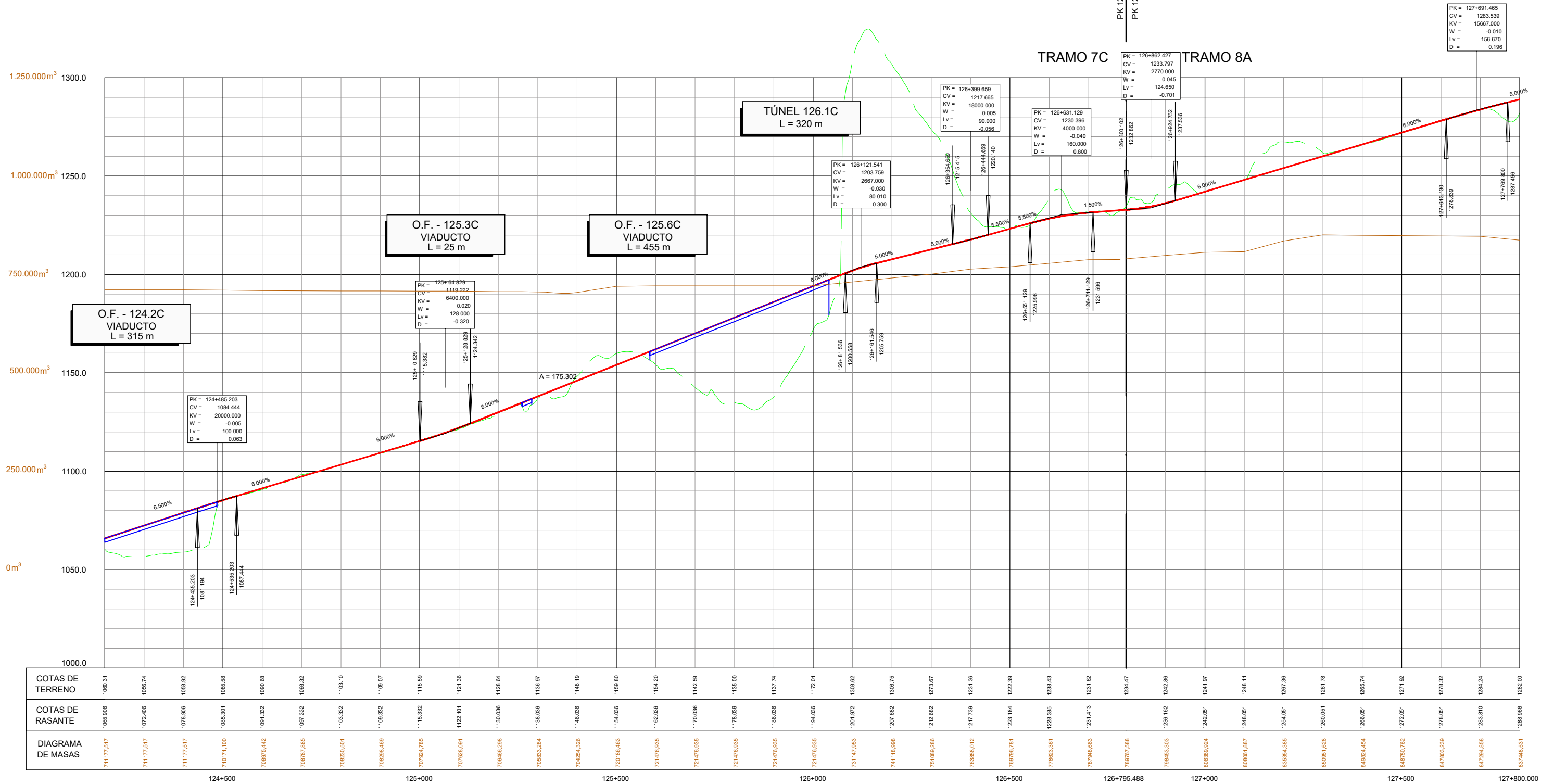


PK	883.02	883.75	883.88	886.29	887.19	887.18	872.63	887.99	870.12	889.93	870.79	882.23	885.01	886.29	885.46	885.74	883.95	886.68	886.59	889.07	882.25	886.14	889.51	888.66	900.65	903.38	904.56	906.47	907.16	909.46	909.43	913.40	917.08	918.46	919.27	920.60
COTAS DE TERRENO	883.02	883.75	883.88	886.29	887.19	887.18	872.63	887.99	870.12	889.93	870.79	882.23	885.01	886.29	885.46	885.74	883.95	886.68	886.59	889.07	882.25	886.14	889.51	888.66	900.65	903.38	904.56	906.47	907.16	909.46	909.43	913.40	917.08	918.46	919.27	920.60
COTAS DE RASANTE	873.139	872.575	880.088	886.588	886.997	887.597	886.197	886.797	870.716	876.056	885.588	882.711	884.711	886.378	885.993	885.303	884.801	885.259	886.354	888.750	882.571	886.502	888.300	888.590	900.942	902.929	904.929	906.583	907.793	908.983	910.183	912.985	916.985	920.883	924.182	927.383
DIAGRAMA DE MASAS	735412.296	726453.516	719888.716	718450.808	718930.780	718028.418	72420.423	723295.813	72090.705	723506.154	724334.174	723746.807	712977.110	712865.914	712049.821	712979.574	70750.448	714163.747	727520.541	728775.184	727137.550	728926.125	727864.278	727148.552	728516.288	727935.033	727057.095	727272.048	726124.289	726851.409	729332.645	722310.314	722276.642	721281.388	714203.688	700416.438









PK =	127+691.465
CV =	1283.539
KV =	15667.000
W =	-0.010
Lv =	156.670
D =	0.196

TRAMO 7C

TRAMO 8A

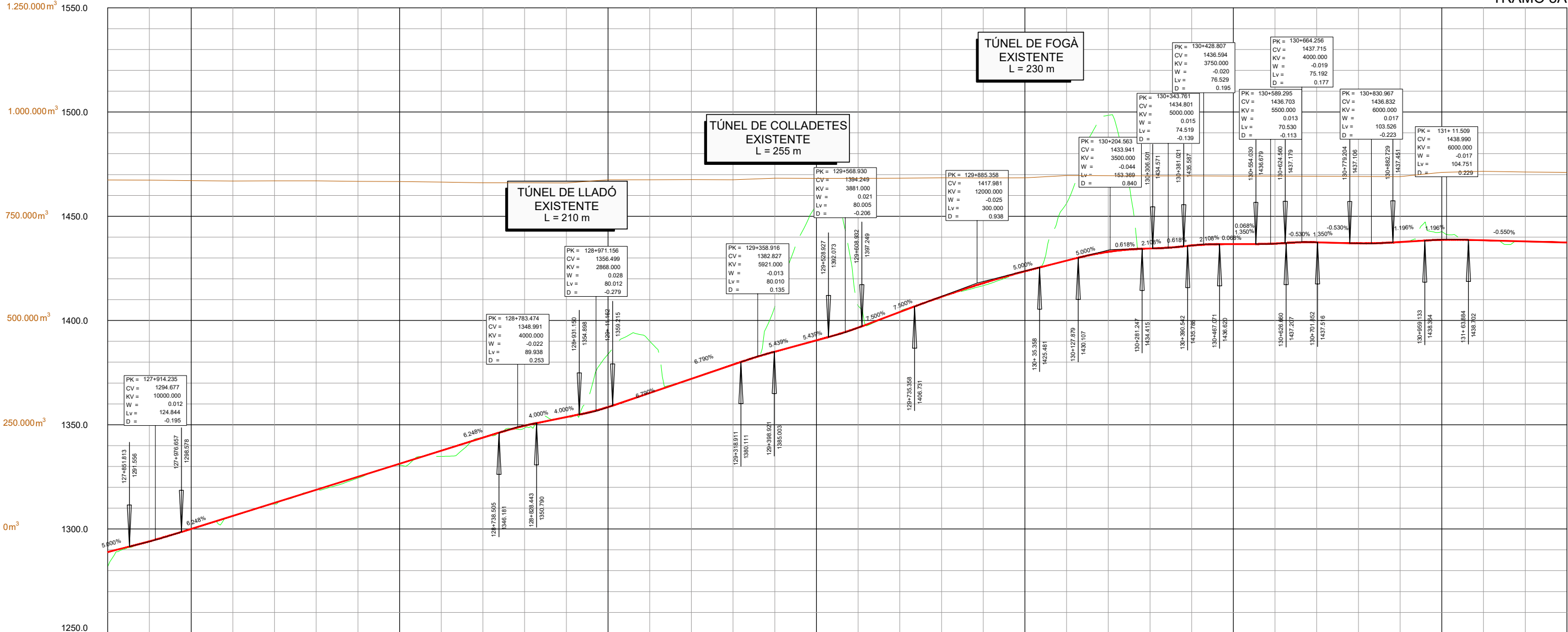
TÚNEL 126.1C  
L = 320 m

O.F. - 125.3C  
VIADUCTO  
L = 25 m

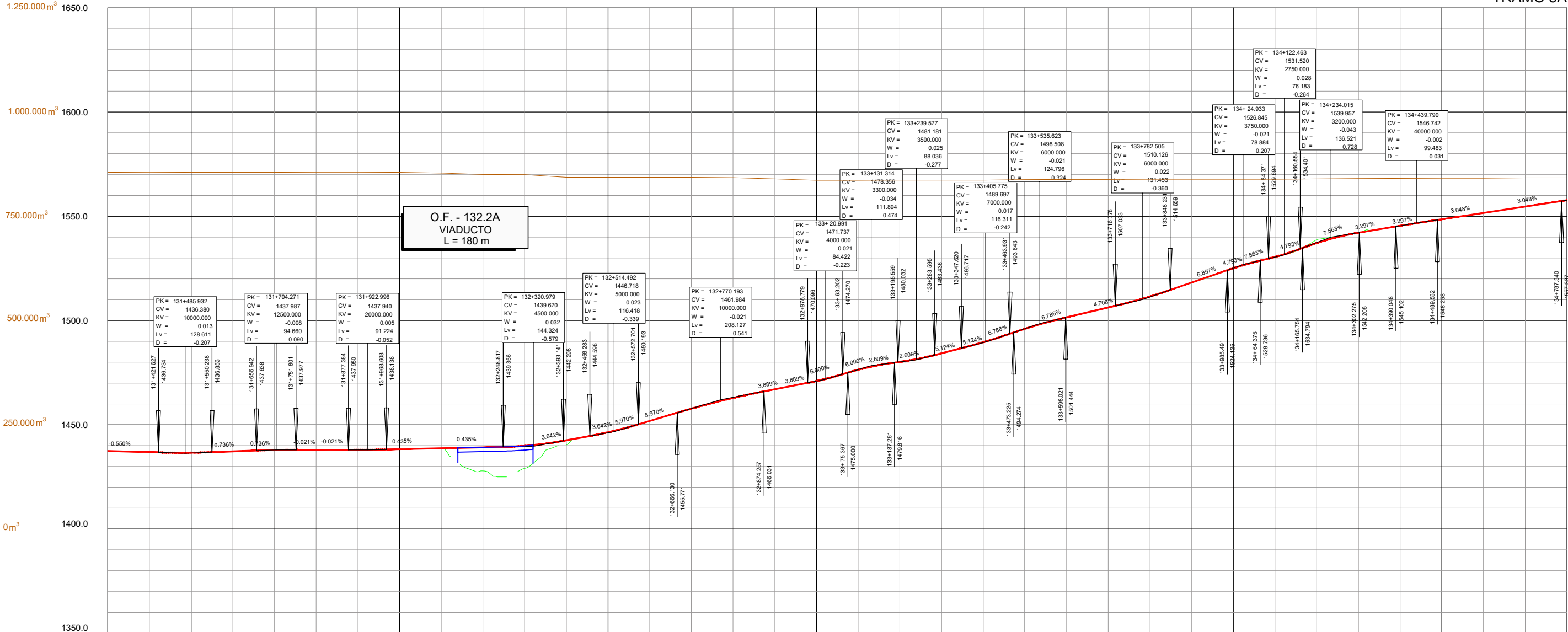
O.F. - 125.6C  
VIADUCTO  
L = 455 m

O.F. - 124.2C  
VIADUCTO  
L = 315 m

COTAS DE TERRENO	1090.31	1095.74	1098.92	1098.58	1096.08	1096.32	1103.10	1109.07	1115.59	1121.36	1128.64	1136.97	1148.19	1159.80	1154.20	1162.08	1170.08	1178.08	1186.08	1194.01	1201.97	1209.62	1217.36	1225.39	1233.43	1241.47	1249.62	1257.78	1265.74	1273.92	1282.00							
COTAS DE RASANTE	1086.906	1072.406	1078.906	1085.301	1091.332	1097.332	1103.332	1109.332	1115.332	1122.101	1130.036	1138.036	1146.036	1154.036	1162.036	1170.036	1178.036	1186.036	1194.036	1201.972	1209.62	1217.39	1225.39	1233.43	1241.413	1249.62	1257.78	1265.74	1273.92	1282.00								
DIAGRAMA DE MASAS	711177.517	711177.517	711177.517	710771.100	708975.442	708787.885	708230.501	708288.469	707924.785	707628.091	706466.298	705833.284	704254.926	720186.463	721476.935	721476.935	721476.935	721476.935	721476.935	721476.935	731147.683	741118.998	751089.298	763886.012	778623.361	797948.683	789767.888	796463.303	800389.824	808061.687	833354.385	850951.628	848824.454	848750.762	847903.239	847294.658	837448.531	
	124+500				125+000						125+500				126+000						126+500				126+795.488		127+000							127+500				127+800.000

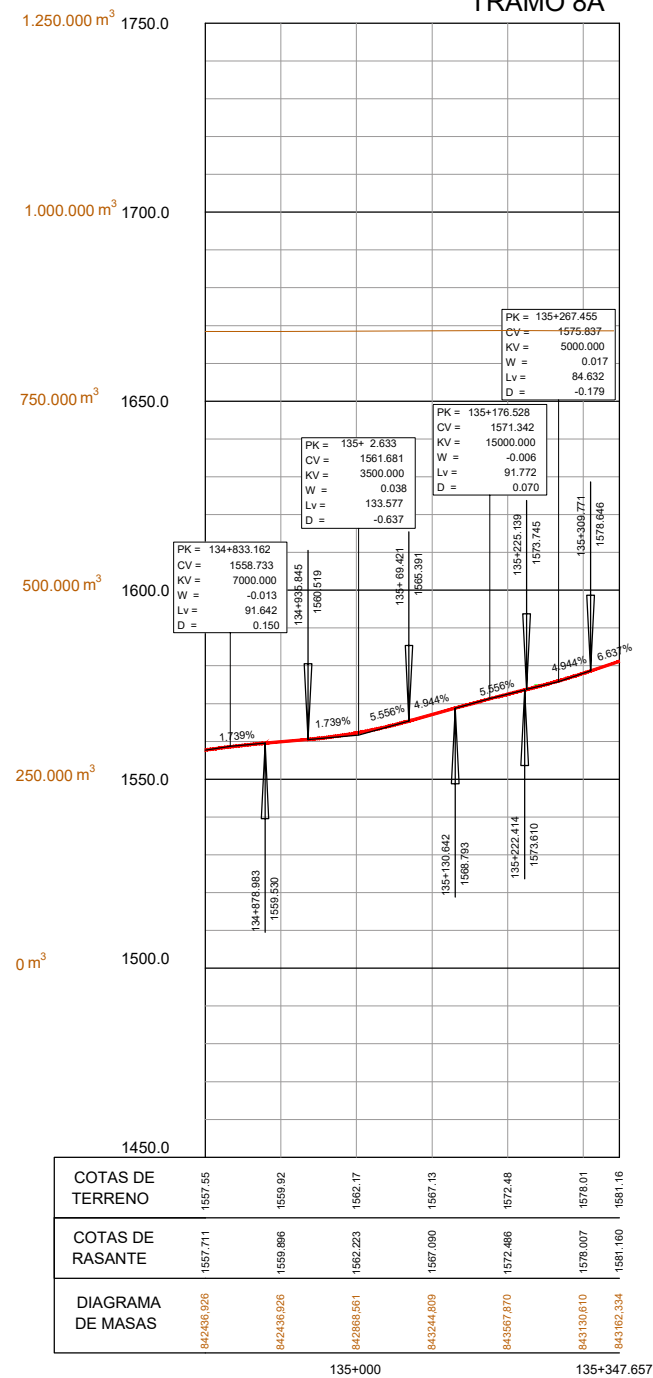


PK	COTAS DE TERRENO	COTAS DE RASANTE	DIAGRAMA DE MASAS
127+000	1282.00	1288.966	866893.035
127+500	1294.02	1294.082	866893.035
128+000	1300.22	1300.036	835021.357
128+500	1306.30	1306.285	835037.716
129+000	1311.98	1312.533	835162.200
129+500	1318.19	1318.782	835154.389
130+000	1324.40	1325.030	834163.101
130+500	1330.68	1331.279	833580.318
131+000	1334.82	1337.527	832509.974
131+500	1344.00	1343.775	830500.779
132+000	1348.46	1349.551	830031.313
132+500	1353.57	1355.662	830067.074
133+000	1363.86	1358.479	837638.171
133+500	1366.11	1365.247	837638.171
134+000	1372.30	1372.037	838033.776
134+500	1378.79	1378.827	838015.160
135+000	1406.70	1385.061	841787.653
135+500	1405.95	1390.900	841391.143
136+000	1407.04	1396.589	841198.983
136+500	1404.54	1404.079	841657.901
137+000	1411.14	1411.405	842355.759
137+500	1416.73	1417.949	842191.386
138+000	1423.88	1423.661	842494.559
138+500	1456.19	1428.713	847949.731
139+000	1468.44	1432.970	847578.881
139+500	1434.53	1434.531	847446.978
140+000	1436.17	1435.975	846965.351
140+500	1436.62	1436.642	846731.276
141+000	1436.90	1436.902	846665.056
141+500	1437.52	1437.525	846288.942
142+000	1437.06	1437.032	846031.506
142+500	1437.67	1437.657	845504.218
143+000	1442.67	1438.713	855537.276
143+500	1438.38	1438.503	855018.339
144+000	1437.76	1437.653	856514.231
144+500	1437.41	1437.403	855746.956



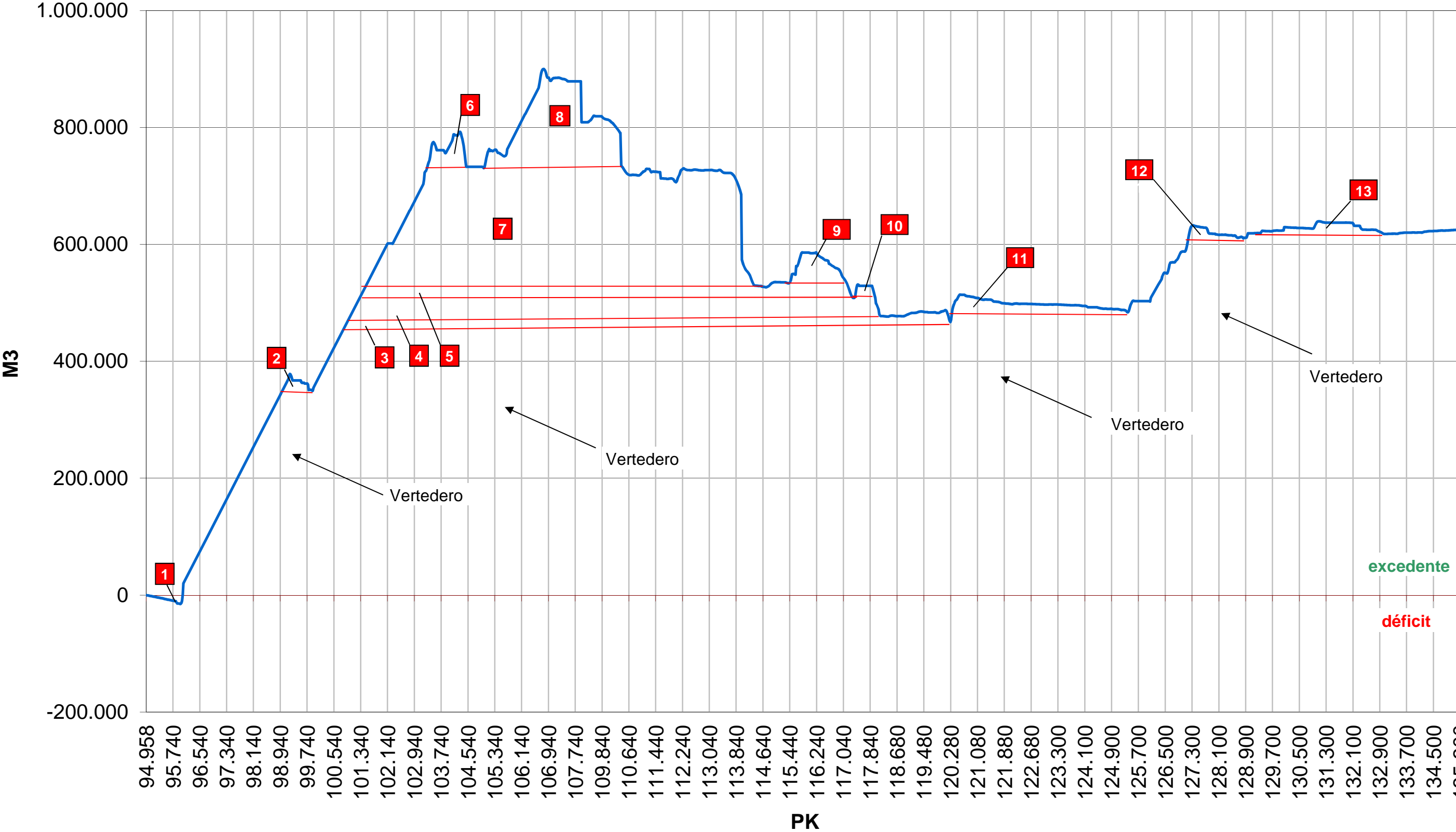
PK	COTAS DE TERRENO	COTAS DE RASANTE	DIAGRAMA DE MASAS
131+421.627	1437.41	1437.403	855817.388
131+436.734	1437.00	1436.853	855817.388
131+550.258	1436.66	1436.610	855774.869
131+550.258	1437.18	1437.219	855739.400
131+656.942	1437.83	1437.881	855743.575
131+656.942	1437.89	1437.966	855826.539
131+704.271	1437.90	1437.958	855974.622
131+922.996	1438.25	1438.275	855762.155
131+922.996	1438.75	1438.709	853867.264
132+246.817	1427.85	1438.144	850533.507
132+246.817	1429.08	1439.870	850208.397
132+320.979	1440.25	1442.548	843911.809
132+320.979	1442.28	1446.381	843989.047
132+514.492	1451.90	1451.823	843986.756
132+514.492	1457.71	1457.736	843748.632
132+770.193	1462.78	1462.867	842882.460
132+770.193	1467.09	1467.032	839623.022
132+978.779	1470.94	1470.977	836722.518
133+209.91	1476.54	1476.388	83685.626
133+209.91	1480.13	1480.151	836907.623
133+313.314	1484.37	1484.277	836845.495
133+313.314	1489.597	1489.597	836784.303
133+535.623	1496.10	1496.031	836845.510
133+535.623	1501.56	1501.537	836907.577
133+535.623	1506.243	1506.243	836843.053
133+848.231	1511.45	1511.526	836887.730
133+848.231	1516.10	1516.229	836734.635
134+24.933	1525.30	1525.098	836878.899
134+24.933	1530.24	1530.488	836878.878
134+234.015	1538.77	1537.201	836890.672
134+234.015	1542.18	1542.132	840009.545
134+439.790	1545.46	1545.429	841324.166
134+439.790	1548.58	1548.577	841507.662
134+439.790	1551.58	1551.626	841742.660
134+439.790	1554.70	1554.674	842200.077
134+439.790	1557.55	1557.711	842206.677

TRAMO 8A

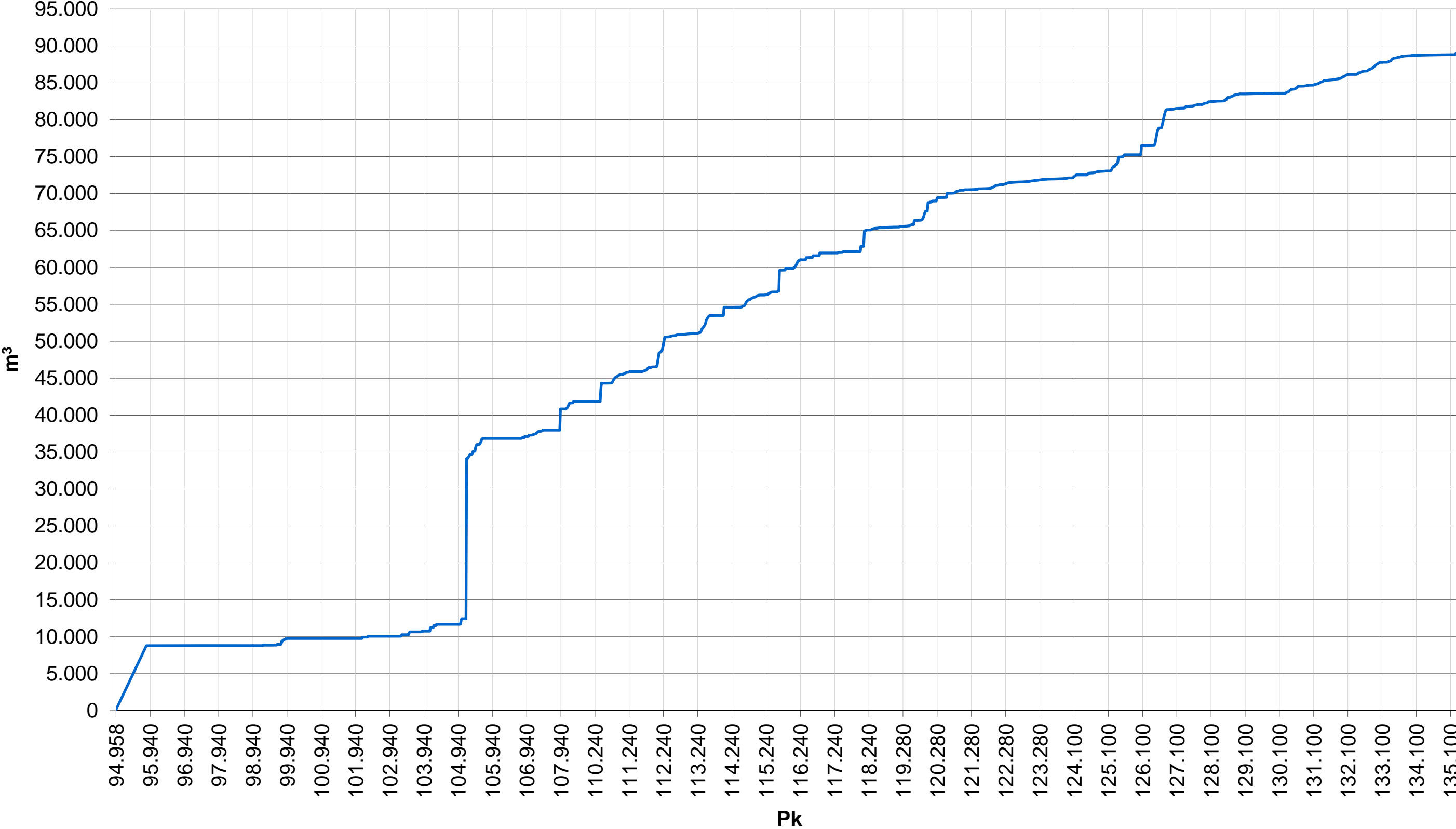




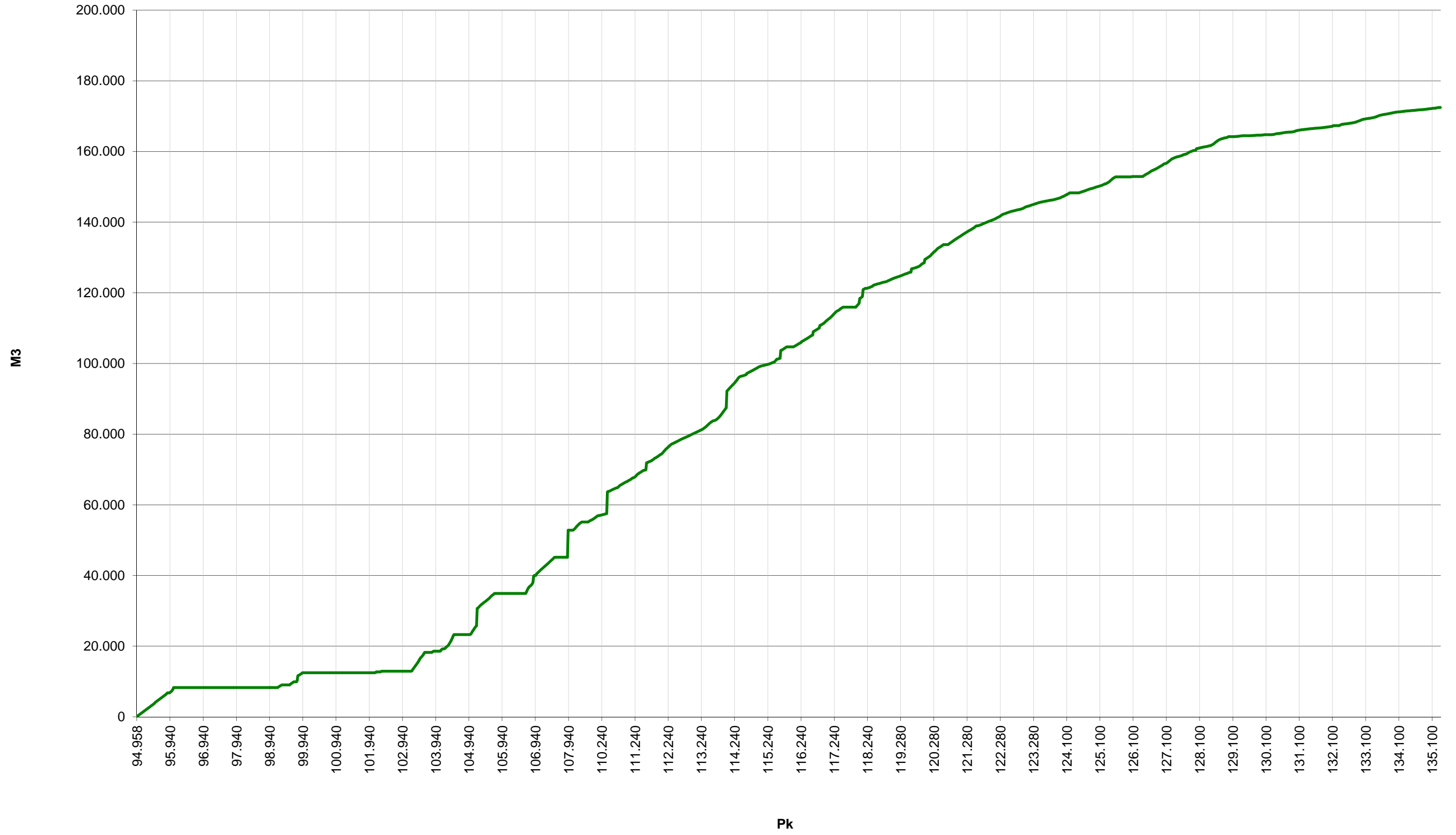
# COMPENSACIÓN LONGITUDINAL. ALTERNATIVA 1



# COMPENSACIÓN TRANSVERSAL. ALTERNATIVA 1



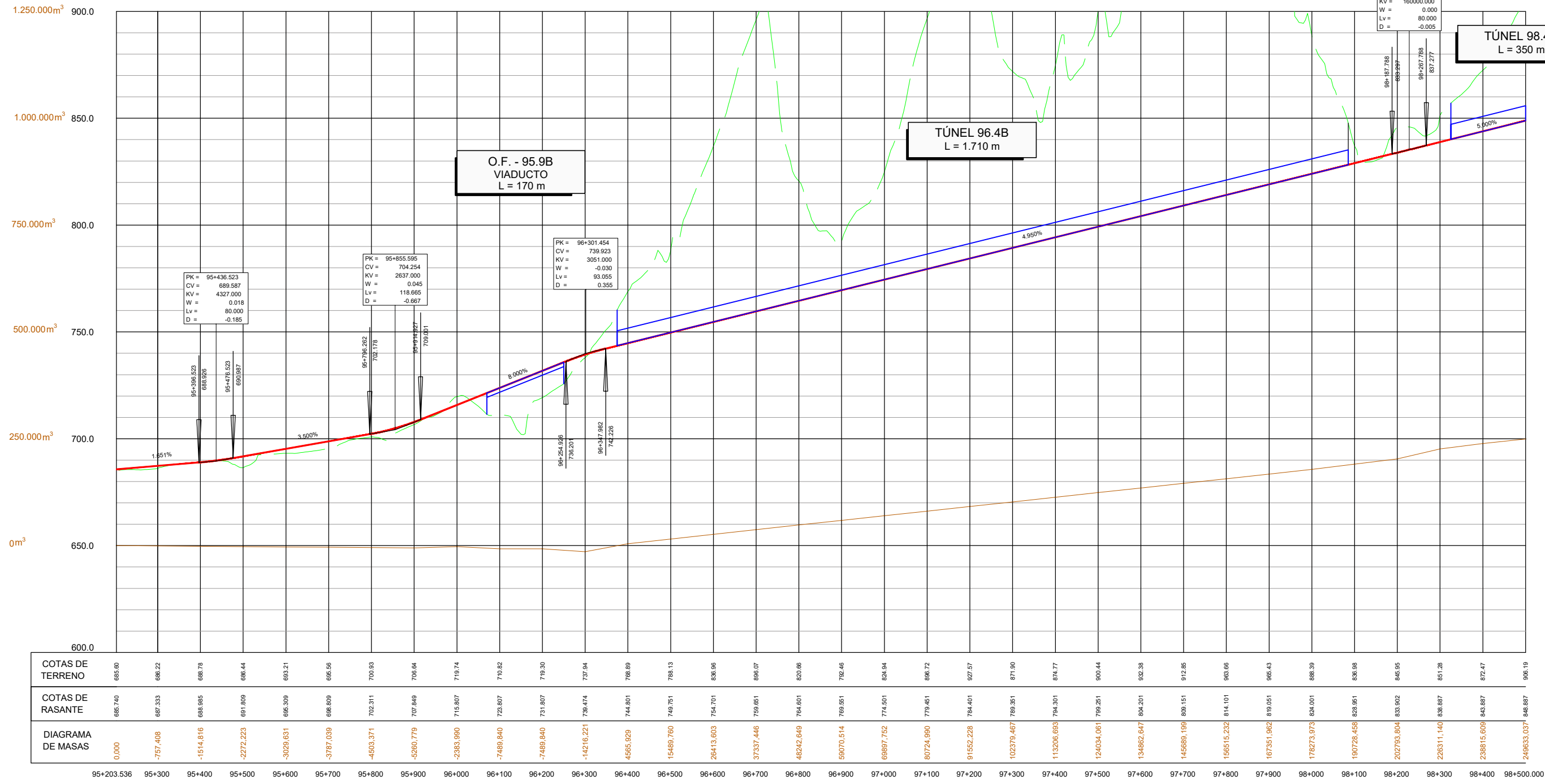
### VOLUMEN DE TIERRA VEGETAL. ALTERNATIVA 1





*Alternativa 2*





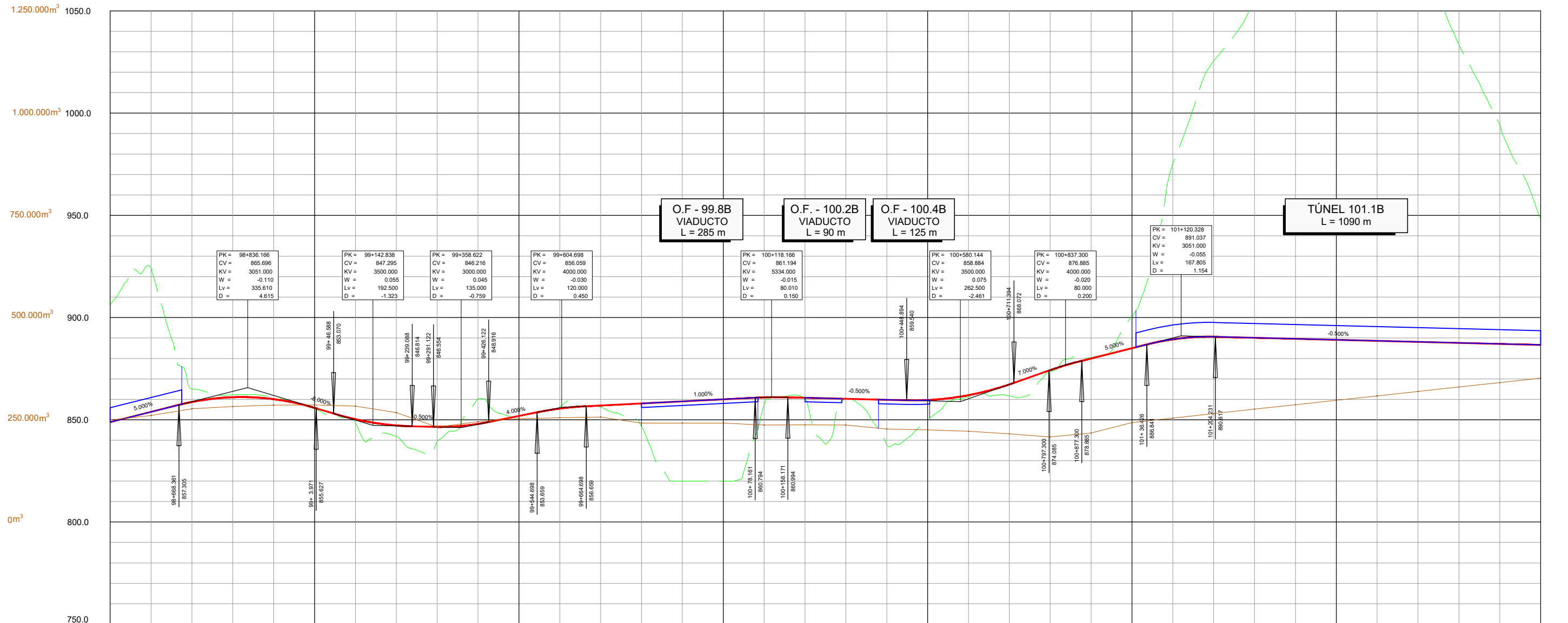
**TRAMO 1B**

PK = 98+227.788  
 KV = 835.277  
 W = 160000.000  
 Lv = 80.000  
 D = -0.005

**TÚNEL 98.4B**  
 L = 350 m

**O.F. - 95.9B**  
**VIADUCTO**  
 L = 170 m

**TÚNEL 96.4B**  
 L = 1.710 m

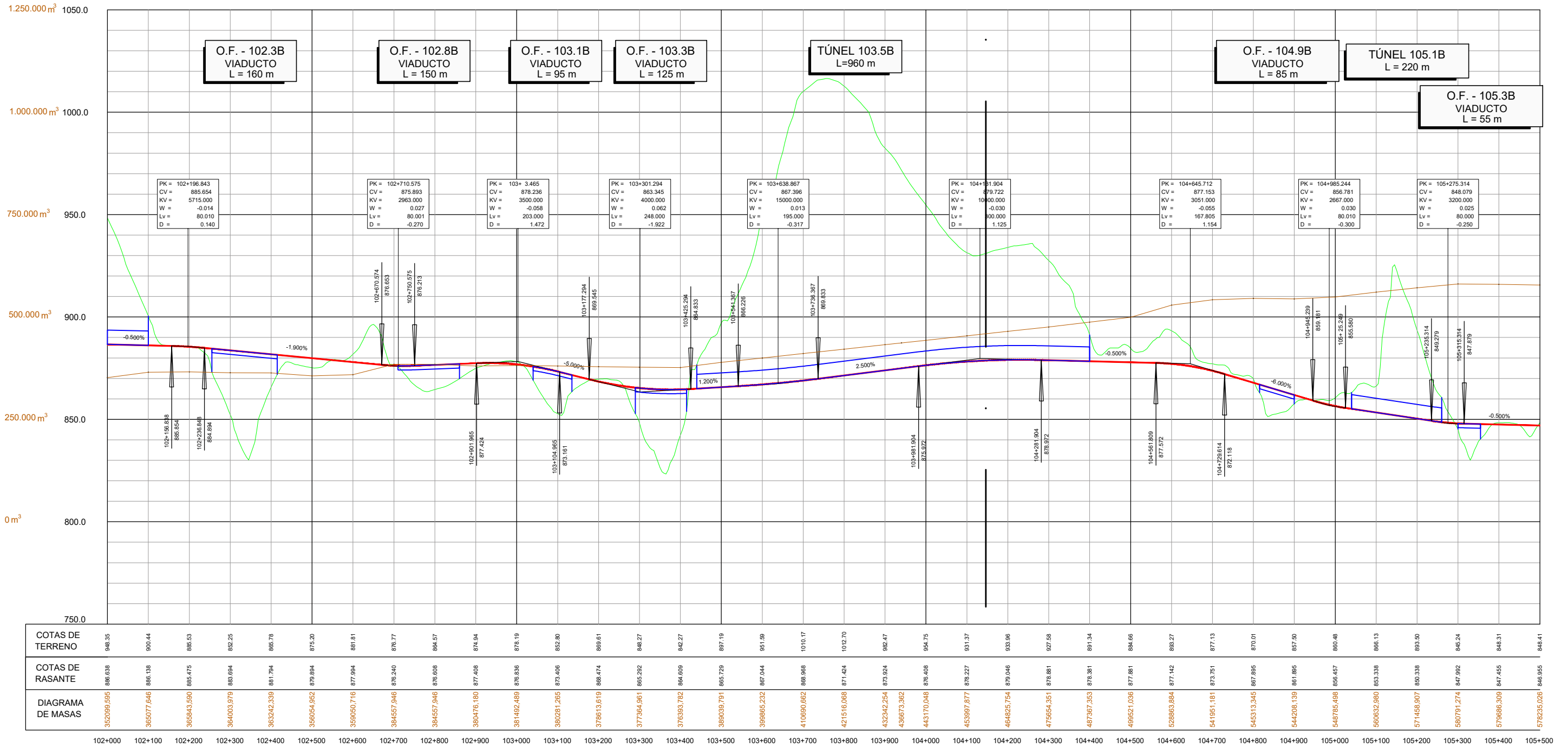


PK	COTAS DE TERRENO	COTAS DE RASANTE	DIAGRAMA DE MASAS
98+500	906.19	848.887	249633.037
98+600	924.30	853.887	260451.244
98+700	865.02	858.723	276876.574
98+800	862.20	861.047	282560.109
98+900	860.99	860.094	288110.465
99+000	855.32	855.863	286254.339
99+100	848.53	859.273	283237.639
99+200	841.99	847.228	267811.269
99+300	839.31	846.523	232026.029
99+400	860.42	847.985	245104.219
99+500	851.94	851.872	252972.161
99+600	858.36	855.469	255035.368
99+700	856.27	857.012	256721.525
99+800	846.79	858.012	241694.965
99+900	820.00	859.012	241694.965
100+000	820.00	860.012	237236.995
100+100	857.50	860.969	237065.720
100+200	860.90	860.785	237824.688
100+300	860.15	860.265	227294.555
100+400	837.74	859.785	225294.435
100+500	850.05	859.656	222115.032
100+600	861.27	862.047	215596.162
100+700	861.67	867.293	208075.570
100+800	875.66	874.273	217873.062
100+900	880.49	880.020	243359.508
101+000	900.63	885.020	254281.294
101+100	975.28	889.358	265167.195
101+200	1025.60	890.635	275985.722
101+300	1054.60	890.138	286803.149
101+400	1058.77	898.638	297620.577
101+500	1056.41	898.138	306439.742
101+600	1077.25	898.638	319334.378
101+700	1070.33	898.138	330256.117
101+800	1038.48	897.638	341177.856
101+900	994.64	897.138	352099.595
102+000	946.35	896.638	



TRAMO 1B TRAMO 2B

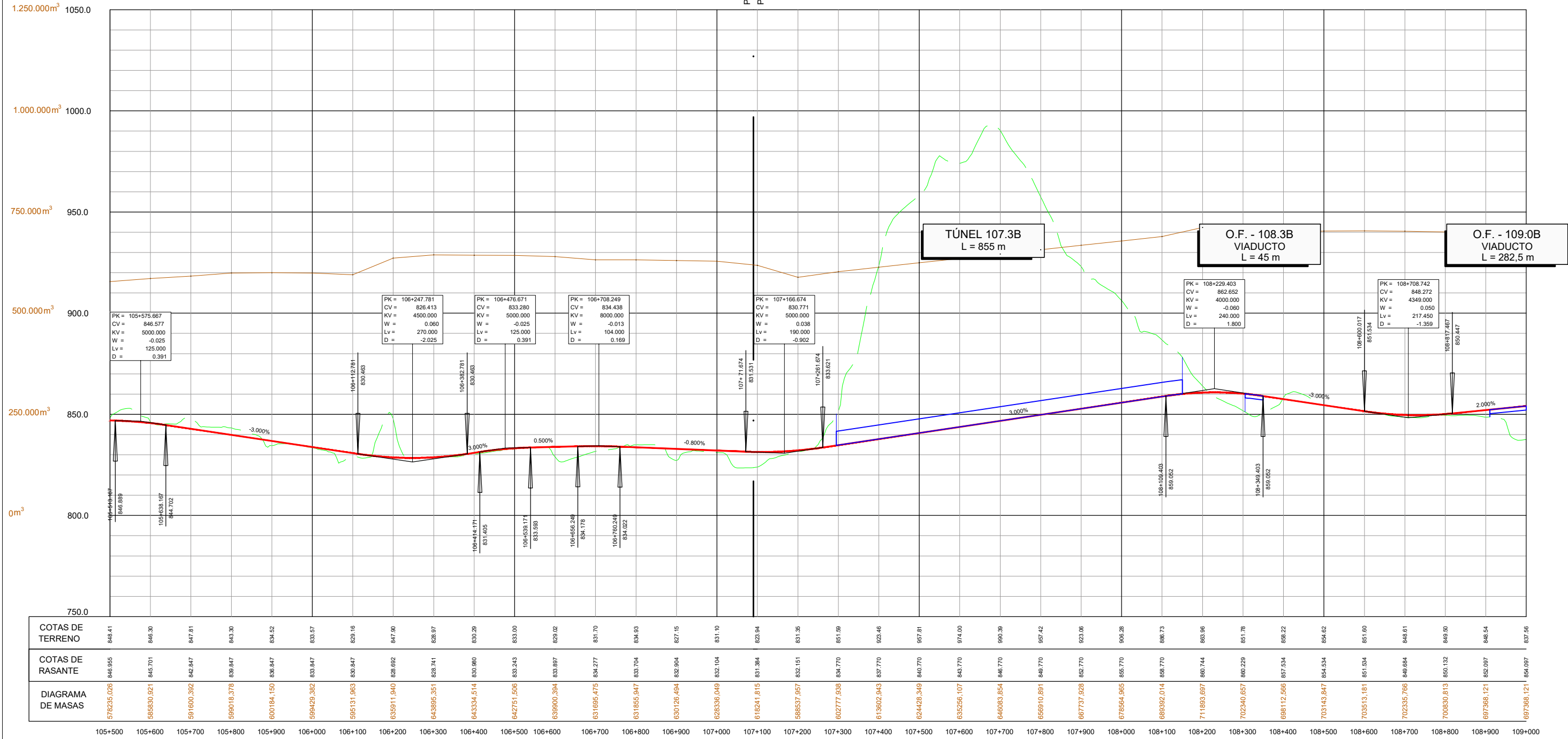
PK 103+935.081 FINAL TRAMO 1B  
PK 103+935.081 ORIGEN TRAMO 2B



TRAMO 2B

PK 107+090.000 FINAL TRAMO 2B  
PK 107+090.000 ORIGEN TRAMO 3B

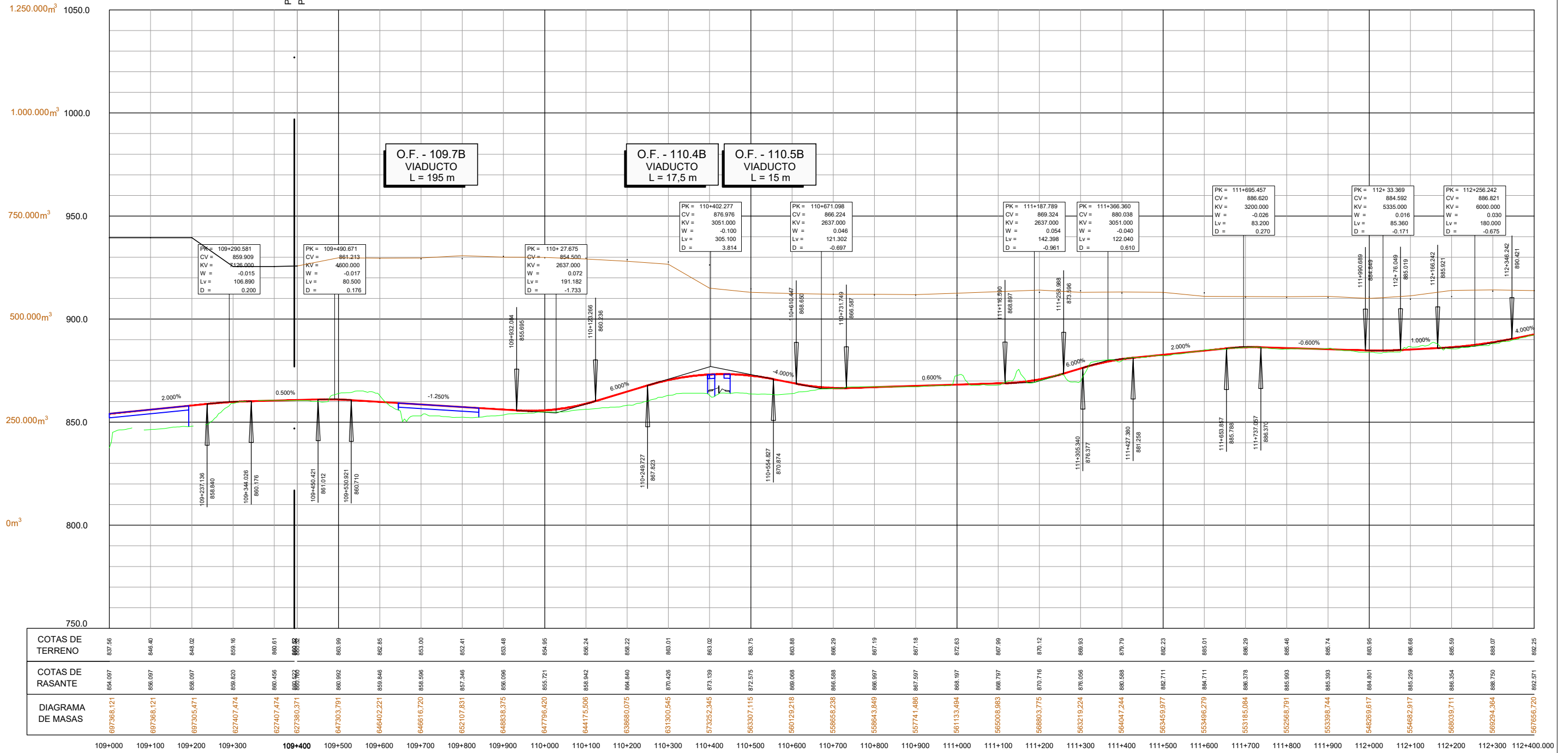
TRAMO 3B



TRAMO 3B

TRAMO 4B TRAMO 2+1

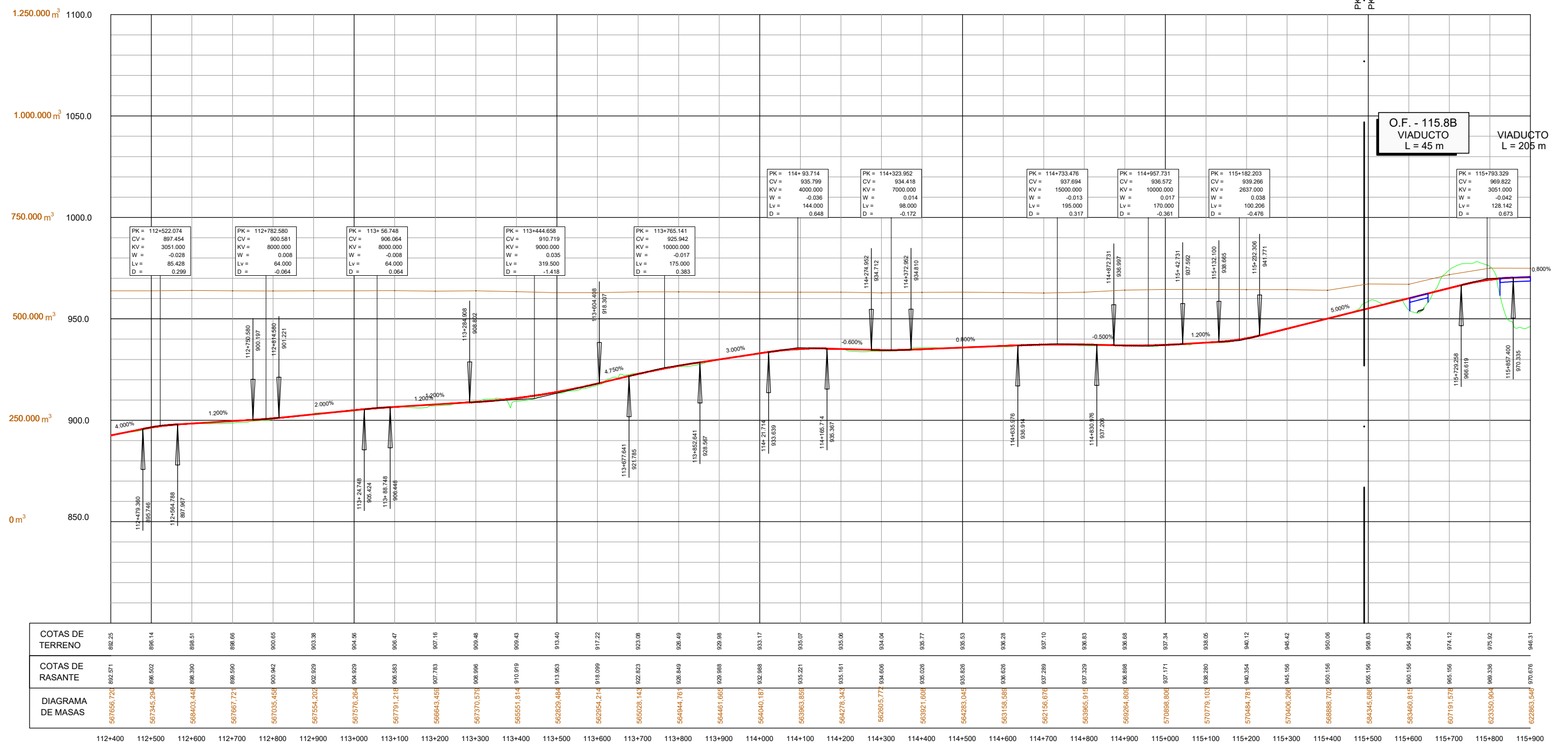
PK 109+448.779 FINAL TRAMO 3B  
PK 109+388.092 ORIGEN TRAMO 4B TRAMO 2+1



TRAMO 4B TRAMO 2+1

PK 115+490.000 FINAL TRAMO 4B TRAMO 2+1  
PK 115+490.000 ORIGEN TRAMO 5B

TRAMO 5B



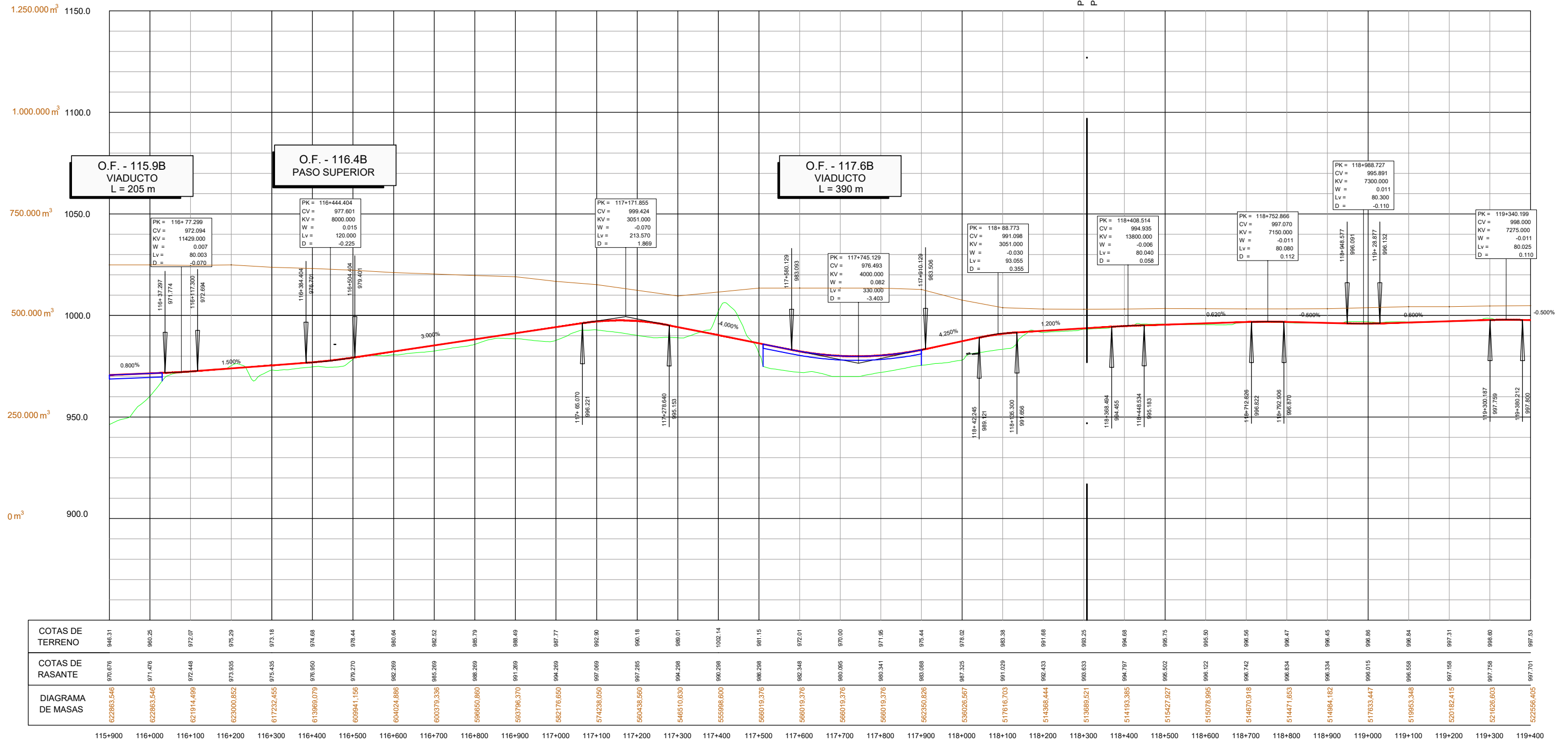
O.F. - 115.8B  
VIADUCTO  
L = 45 m

VIADUCTO  
L = 205 m

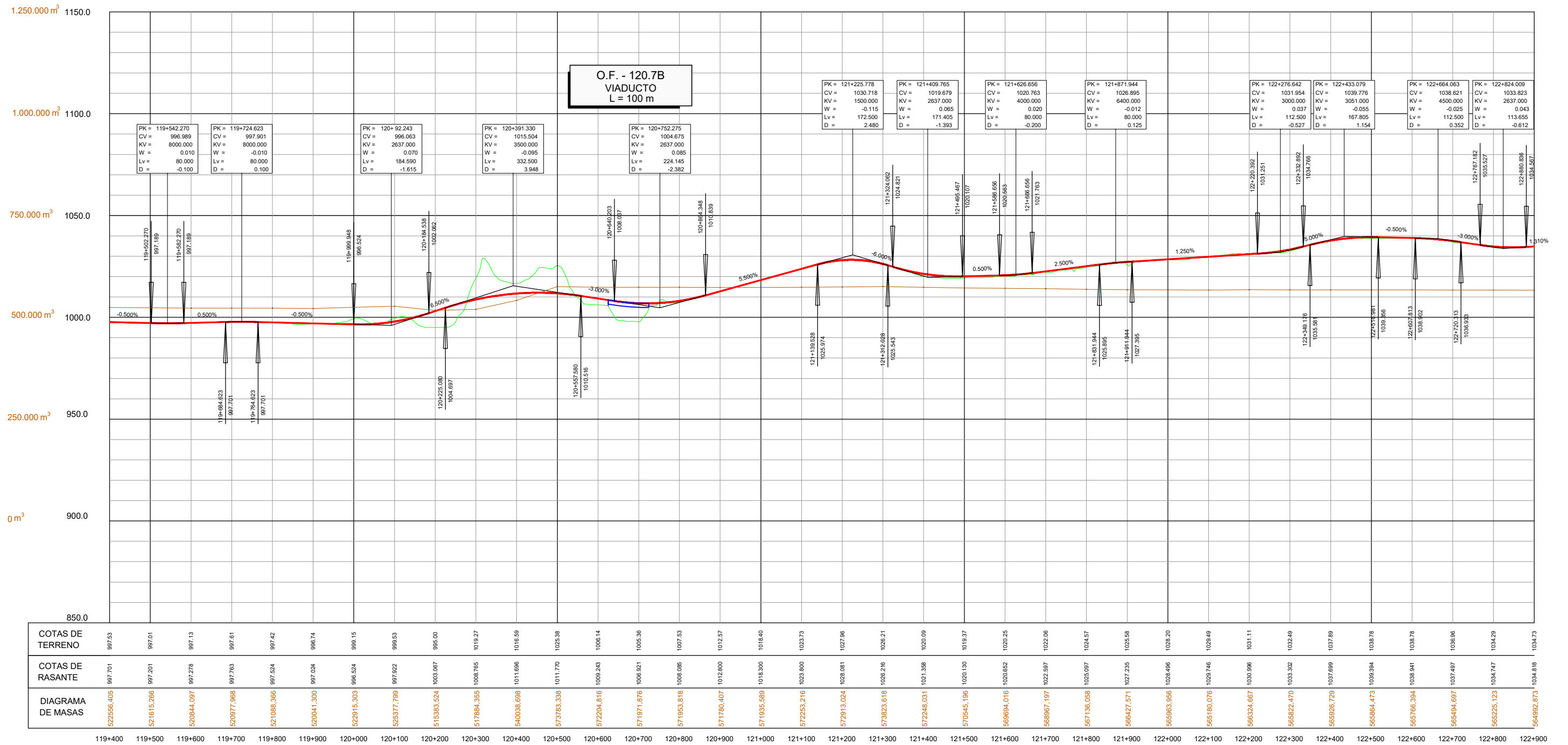
TRAMO 5B

PK 118+307.627 FINAL TRAMO 5B  
PK 118+307.627 ORIGEN TRAMO 6B

TRAMO 6B

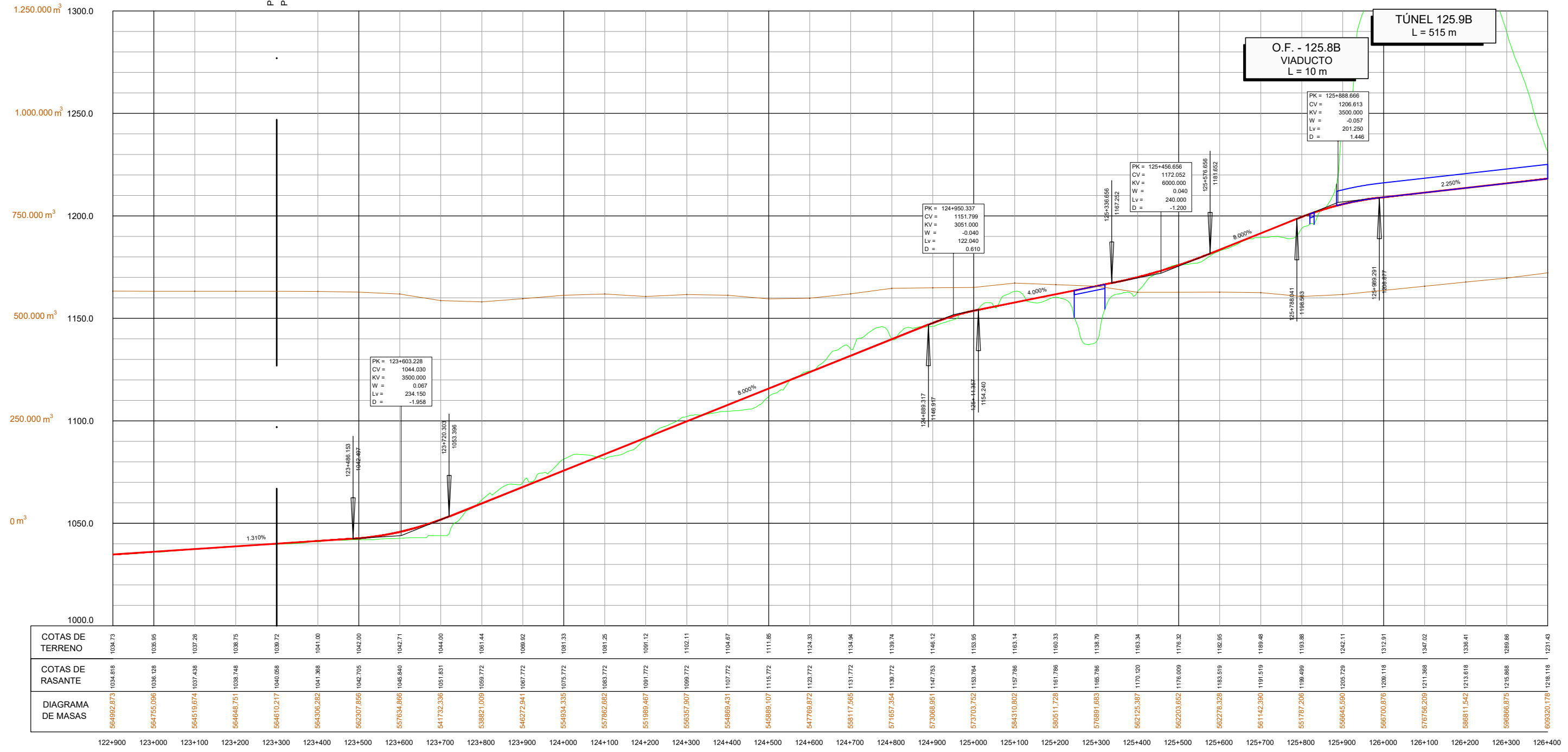


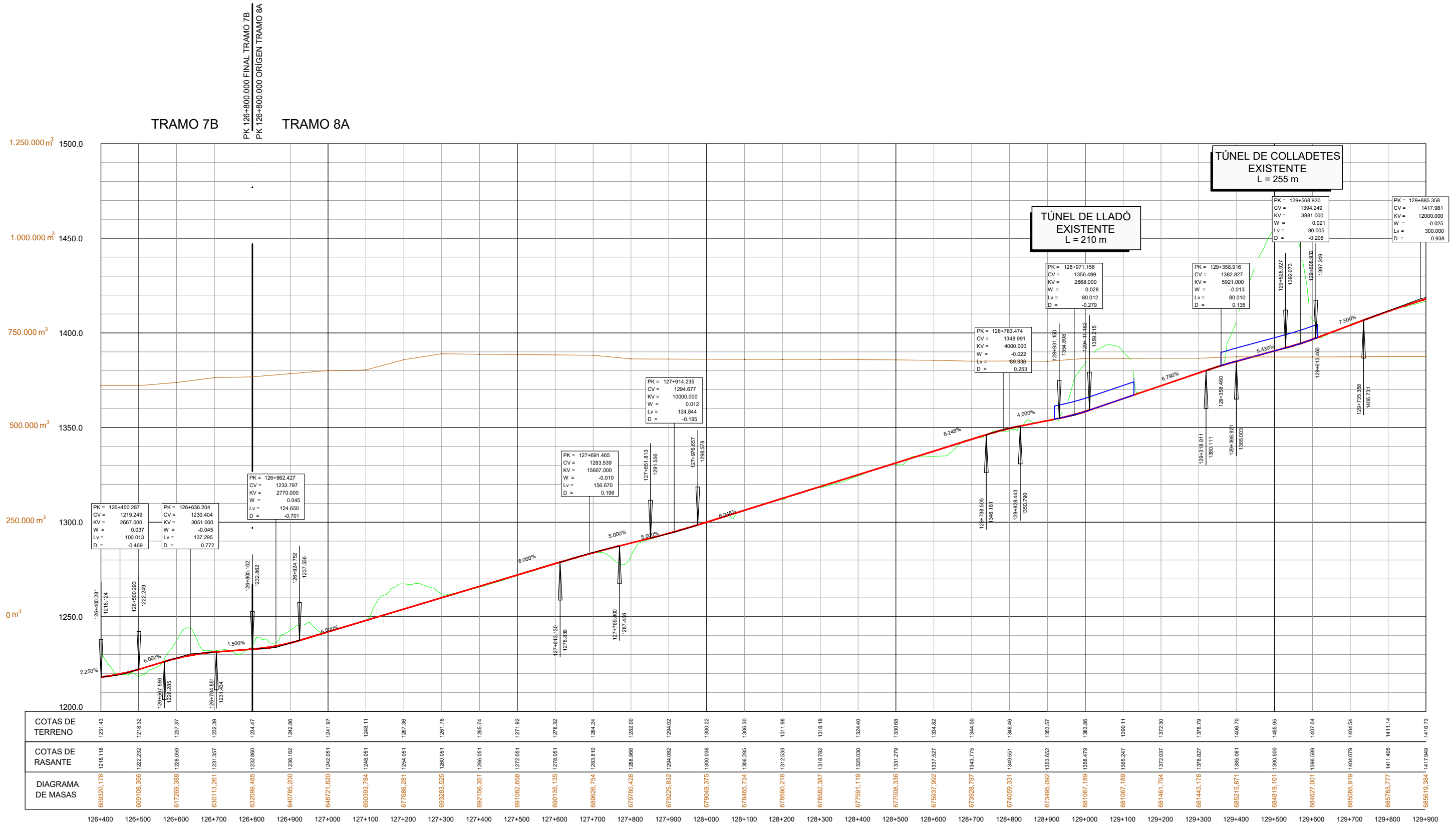
TRAMO 6B



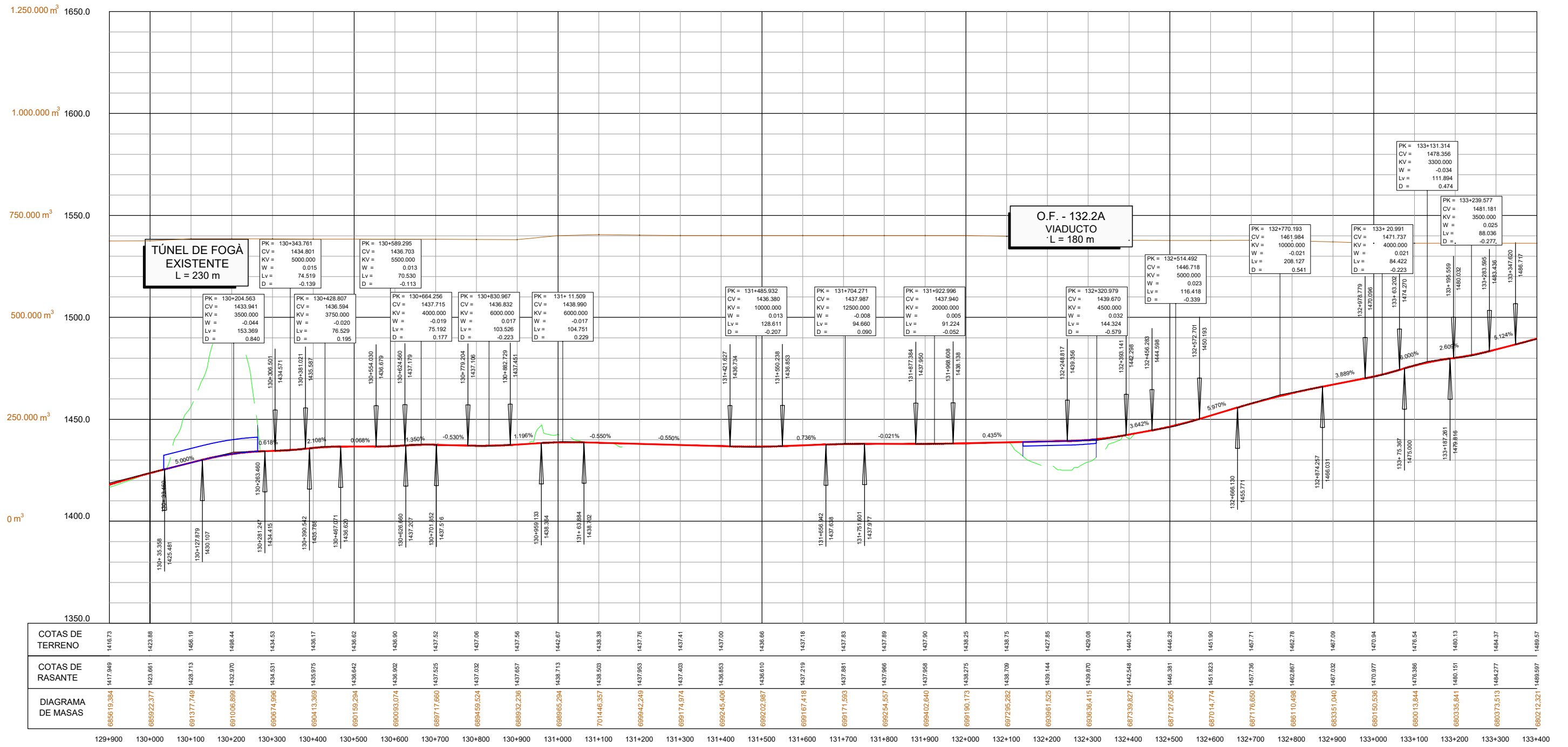
TRAMO 6B TRAMO 7B

PK 123+300.000 FINAL TRAMO 6B  
PK 123+300.000 ORIGEN TRAMO 7B

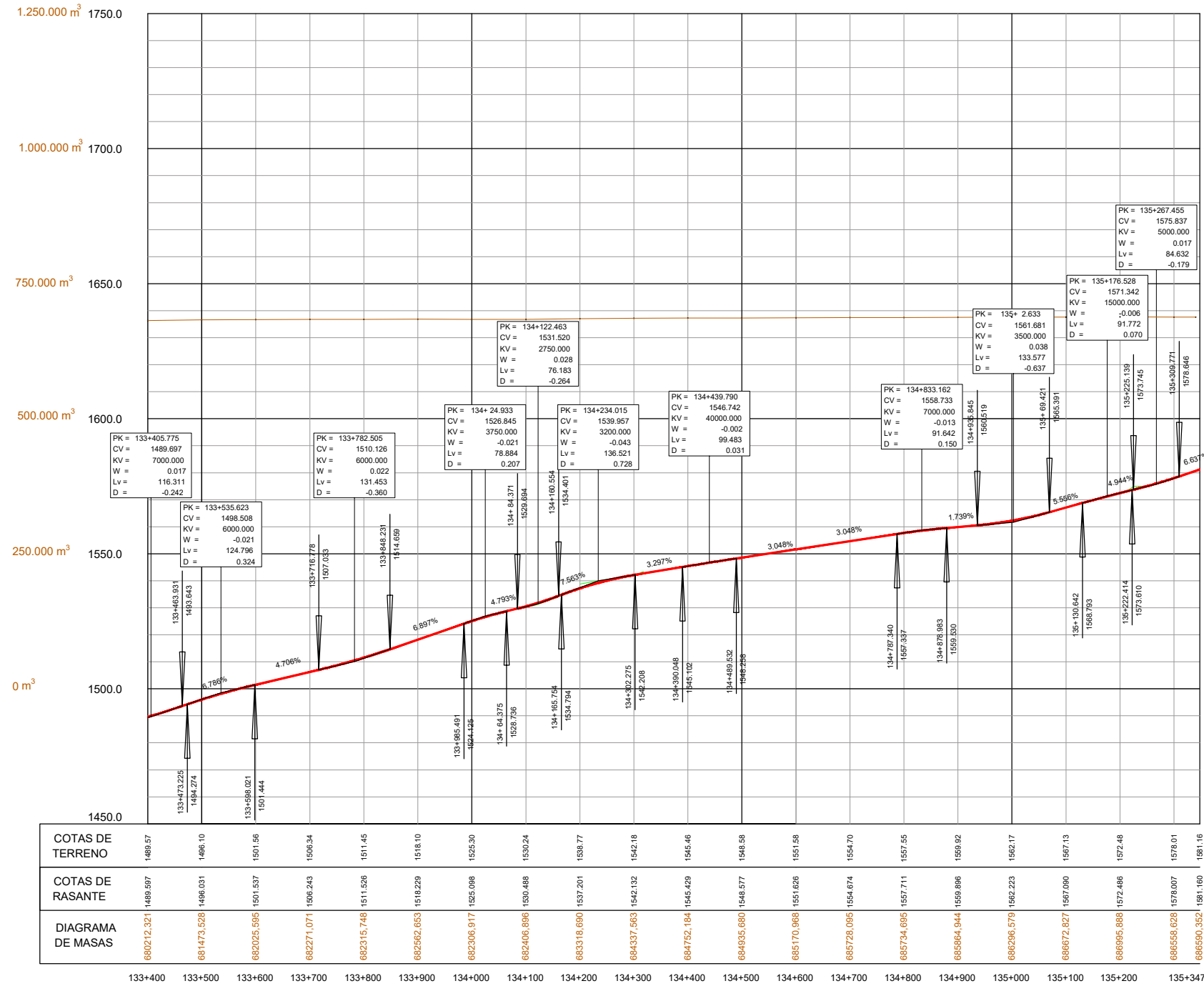




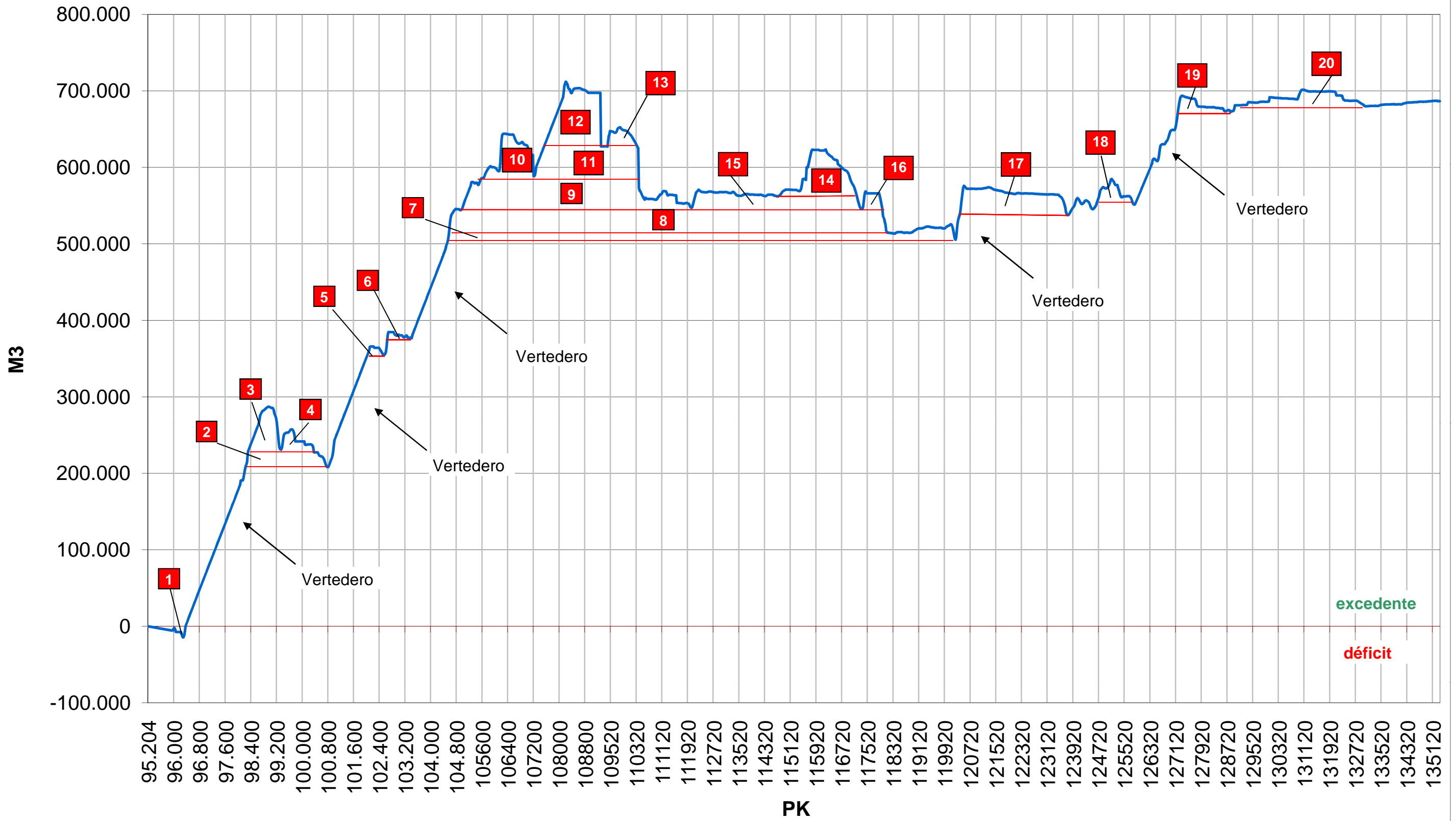




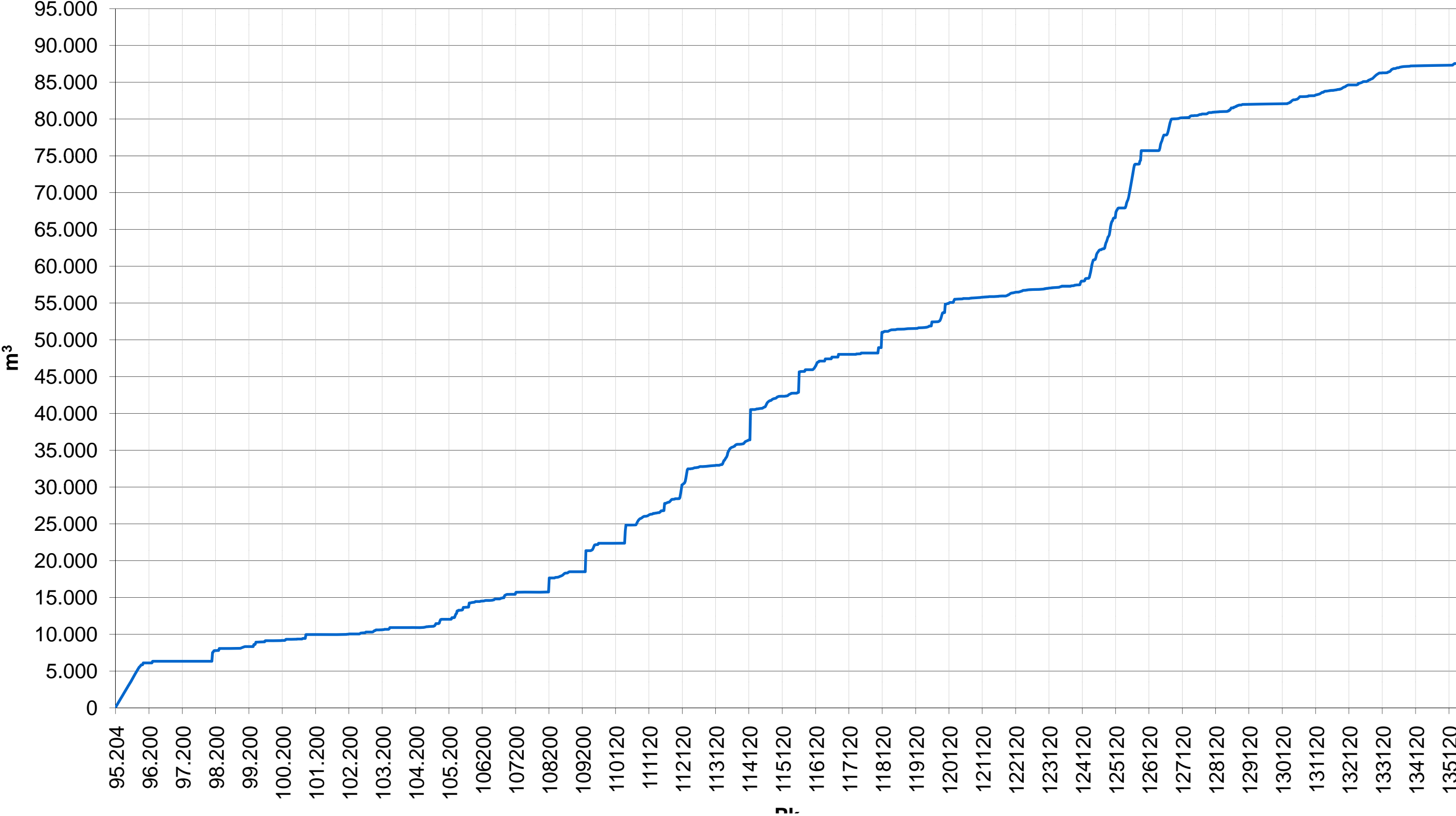
TRAMO 8A



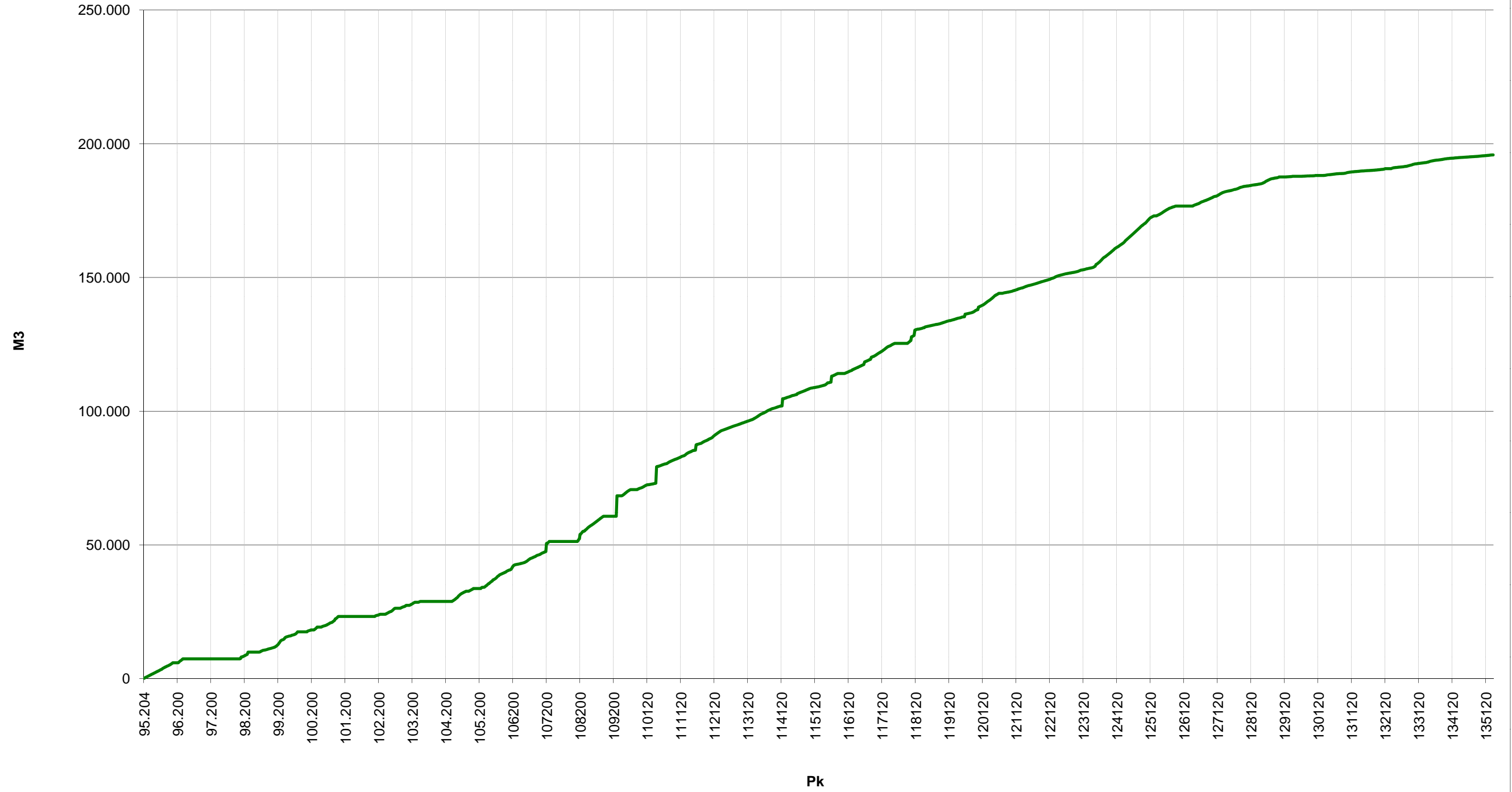
# COMPENSACIÓN LONGITUDINAL. ALTERNATIVA 2



### COMPENSACIÓN TRANSVERSAL. ALTERNATIVA 2



### VOLUMEN DE TIERRA VEGETAL. ALTERNATIVA 2





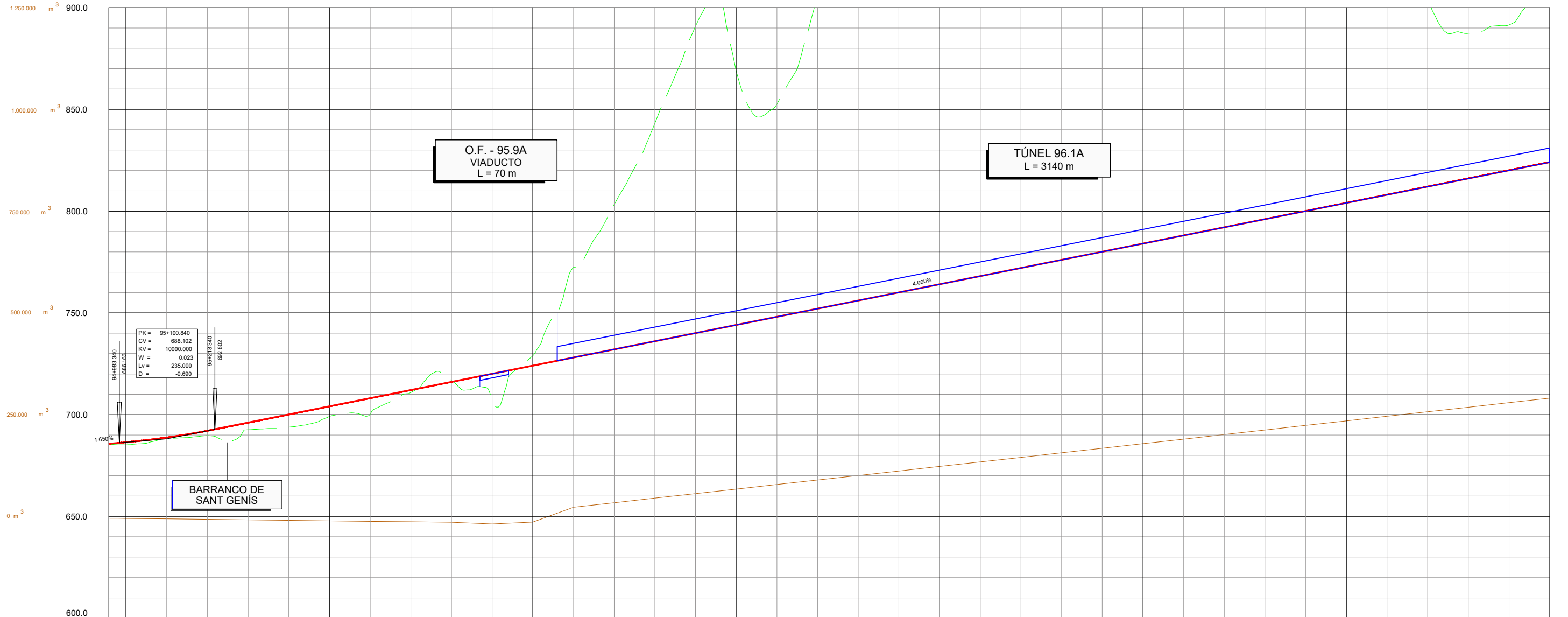
*Alternativa 3*





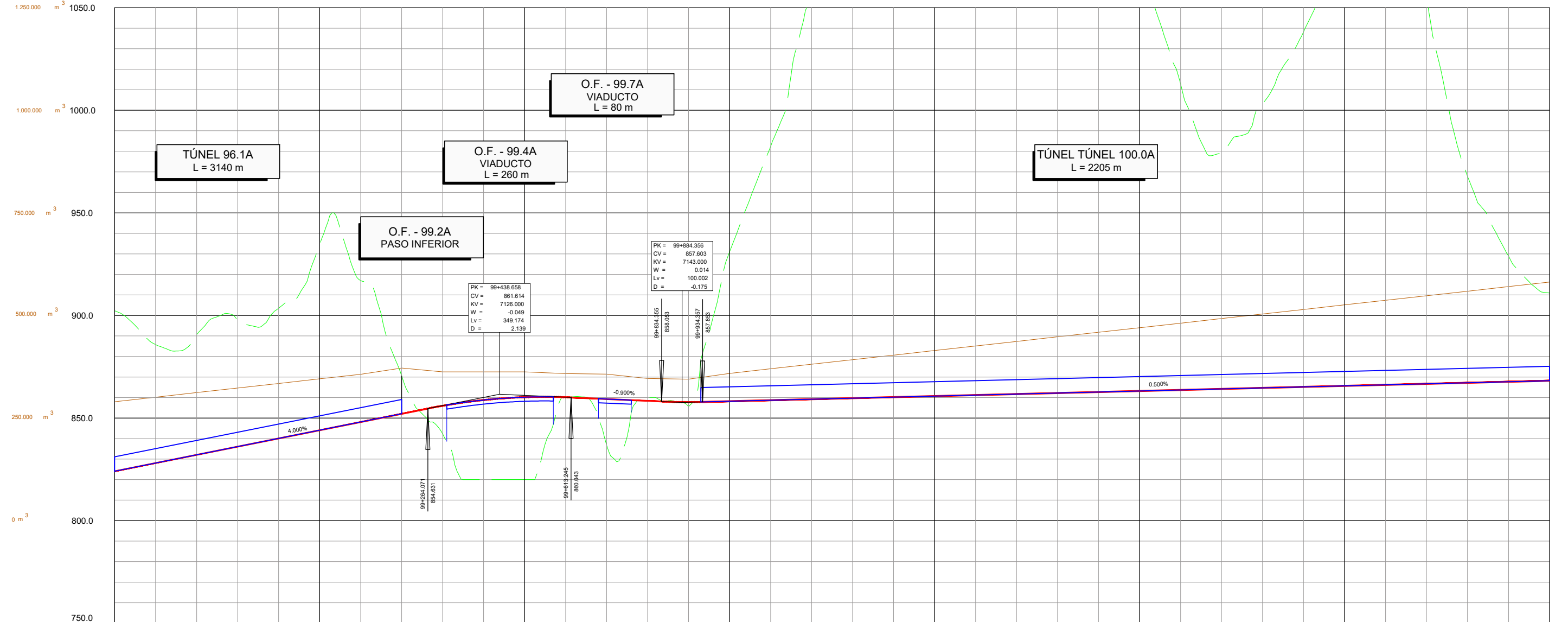
TRAMO 1A

TRAMO 1A



COTAS DE TERRENO	685.60	685.55	686.10	686.77	686.58	693.81	699.11	704.08	708.08	712.08	716.08	720.08	724.08	728.85	772.64	803.39	843.14	880.91	888.89	882.54	895.98	972.03	1029.47	939.91	947.97	983.75	986.97	1011.57	1005.17	1099.89	1001.52	977.65	899.13	942.11	941.59	906.32	887.40	891.53	902.34	
COTAS DE RASANTE	685.740	686.452	686.768	686.085	686.088	700.088	704.088	708.088	712.088	716.088	720.088	724.088	728.088	728.088	732.088	736.088	740.088	744.088	748.088	752.088	756.088	760.088	764.088	768.088	772.088	776.088	780.088	784.088	788.088	792.088	796.088	800.088	804.088	808.088	812.088	816.088	820.088	824.088		
DIAGRAMA DE MASAS	0,000	-684,132	-1651,018	-3007,905	-4184,791	-5321,677	-6731,662	-7886,549	-8946,435	-10202,321	-11434,088	-12661,473	-13785,195	-14798,510	-15700,004	-16595,588	-17379,142	-18155,688	-18929,230	-19695,774	-20459,319	-21214,868	-21965,418	-22705,968	-23436,518	-24161,068	-24882,618	-25595,168	-26292,718	-26979,268	-27658,818	-28334,368	-29009,918	-29689,468	-30367,018	-31044,568	-31724,118	-32407,668	-33096,218	-33789,768
	95+000	95+100	95+200	95+300	95+400	95+500	95+600	95+700	95+800	95+900	96+000	96+100	96+200	96+300	96+400	96+500	96+600	96+700	96+800	96+900	97+000	97+100	97+200	97+300	97+400	97+500	97+600	97+700	97+800	97+900	98+000	98+100	98+200	98+300	98+400	98+500				

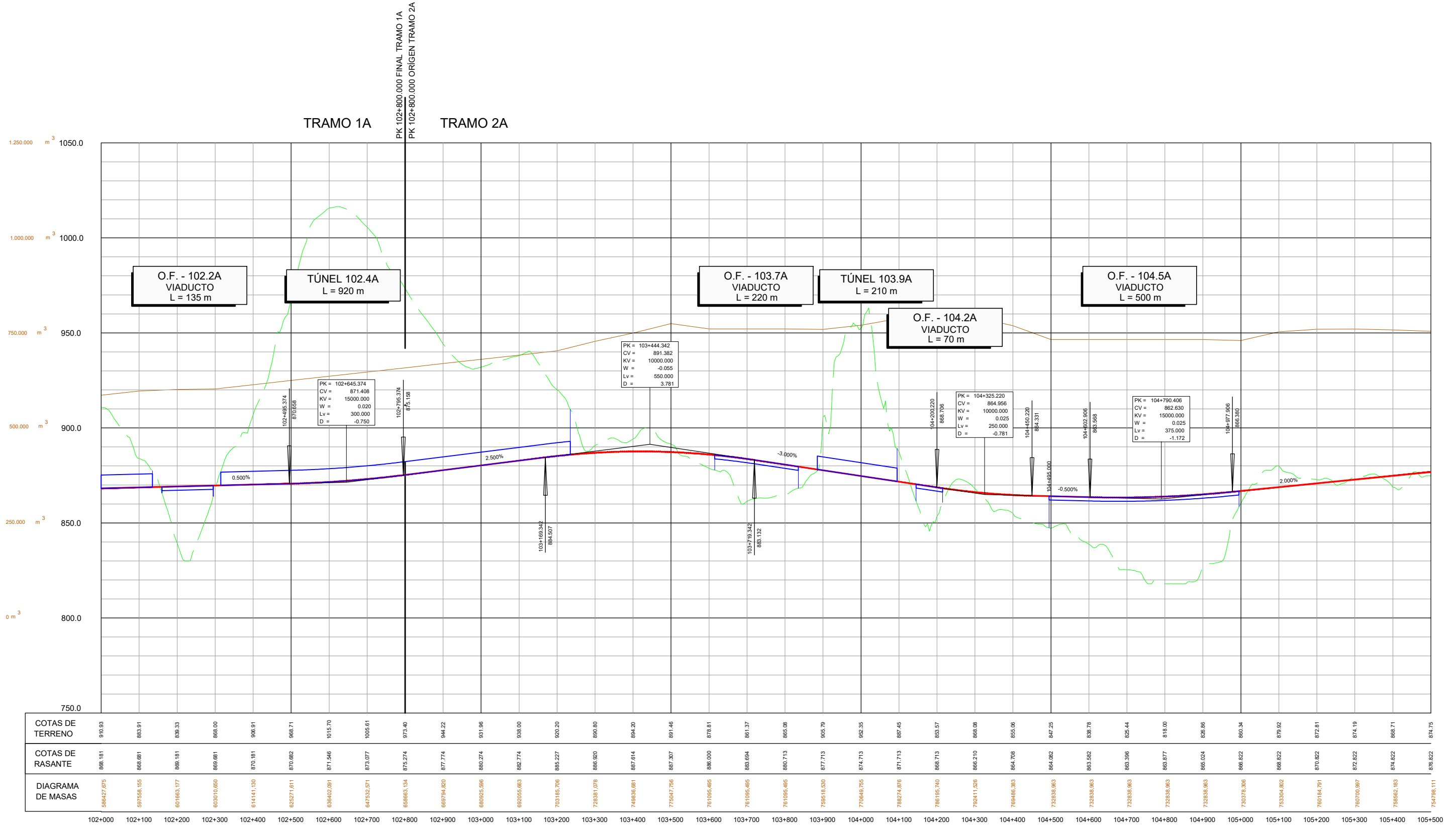
TRAMO 1A



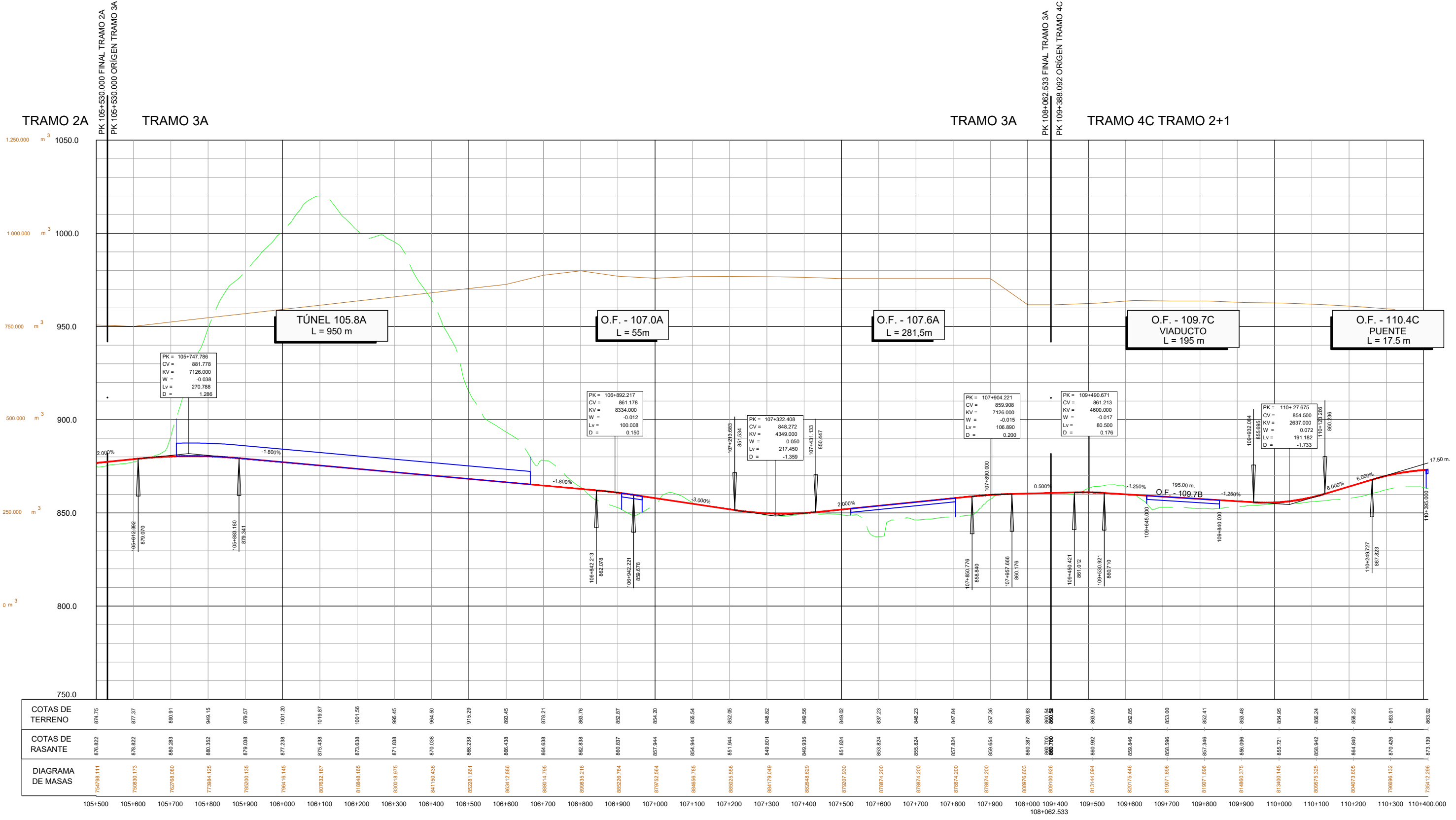
PK = 99+438.658  
CV = 861.614  
KV = 7126.000  
W = -0.049  
Lv = 349.174  
D = 2.139

PK = 99+884.356  
CV = 857.603  
KV = 7143.000  
W = 0.014  
Lv = 100.002  
D = -0.175

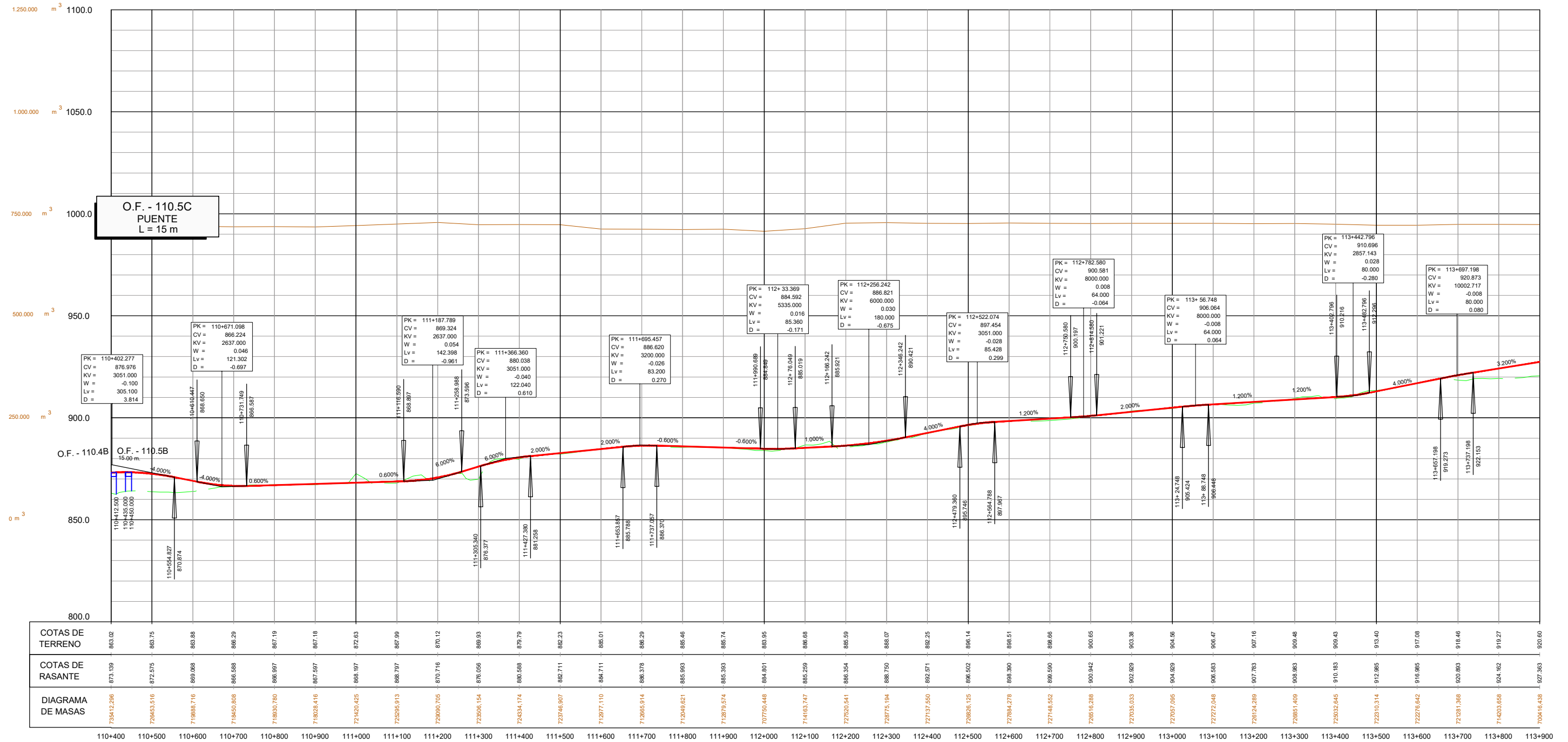
COTAS DE TERRENO	902.34	895.81	890.38	897.69	903.32	904.53	916.93	870.56	842.34	820.00	820.00	890.28	836.79	860.08	855.61	830.92	890.89	1105.27	1115.95	1133.06	1146.13	1152.90	1130.56	1073.49	1012.93	979.31	1003.33	1028.11	1074.59	1101.47	1096.59	967.86	928.89	898.181		
COTAS DE RASANTE	824.088	825.088	832.088	830.088	840.088	844.088	846.088	852.088	855.977	856.772	860.102	860.190	859.202	855.362	857.764	859.181	859.081	860.181	860.681	861.181	861.681	862.181	862.681	862.681	865.181	863.681	864.181	864.681	865.181	865.681	866.181	866.681	867.181	867.681	868.181	
DIAGRAMA DE MASAS	294739.651	305670.652	317002.654	328133.265	339264.456	350395.669	361527.131	372658.309	383787.260	394917.260	397337.260	383136.201	361942.262	351252.007	340959.979	330304.216	327197.548	408320.293	419460.612	430591.802	441722.991	452854.181	463985.370	475116.560	486247.749	497378.939	508510.128	519641.318	530772.507	541903.697	553035.749	564166.714	575297.195	586427.675		
	98+500	98+600	98+700	98+800	98+900	99+000	99+100	99+200	99+300	99+400	99+500	99+600	99+700	99+800	99+900	100+000	100+100	100+200	100+300	100+400	100+500	100+600	100+700	100+800	100+900	101+000	101+100	101+200	101+300	101+400	101+500	101+600	101+700	101+800	101+900	102+000



COTAS DE TERRENO	910.93	893.91	839.33	868.00	900.91	968.71	1015.70	1005.61	973.40	944.22	931.96	938.00	920.20	890.80	894.20	891.46	878.81	881.37	865.08	905.79	952.35	887.45	853.57	888.08	855.06	847.25	838.78	825.44	818.00	826.86	860.34	879.92	872.81	874.19	868.71	874.75
COTAS DE RASANTE	889.181	865.891	860.181	860.891	870.181	870.892	871.586	873.077	875.274	877.774	880.274	882.774	885.227	886.920	887.614	887.307	886.000	883.694	880.713	877.713	874.713	871.713	868.713	866.210	864.708	864.082	863.592	863.396	863.877	865.024	866.822	868.822	870.822	872.822	874.822	876.822
DIAGRAMA DE MASAS	586427.675	597556.155	601883.177	603010.660	614141.130	625271.611	636402.091	647532.571	658663.154	669794.620	680925.596	692055.063	703185.705	728381.078	749636.081	775047.756	761995.495	761995.495	761995.495	759918.030	770649.755	788274.876	786165.740	792411.526	769466.383	732638.983	732638.983	732638.983	732638.983	732638.983	730378.306	753504.802	760184.791	760700.697	758562.183	764768.111

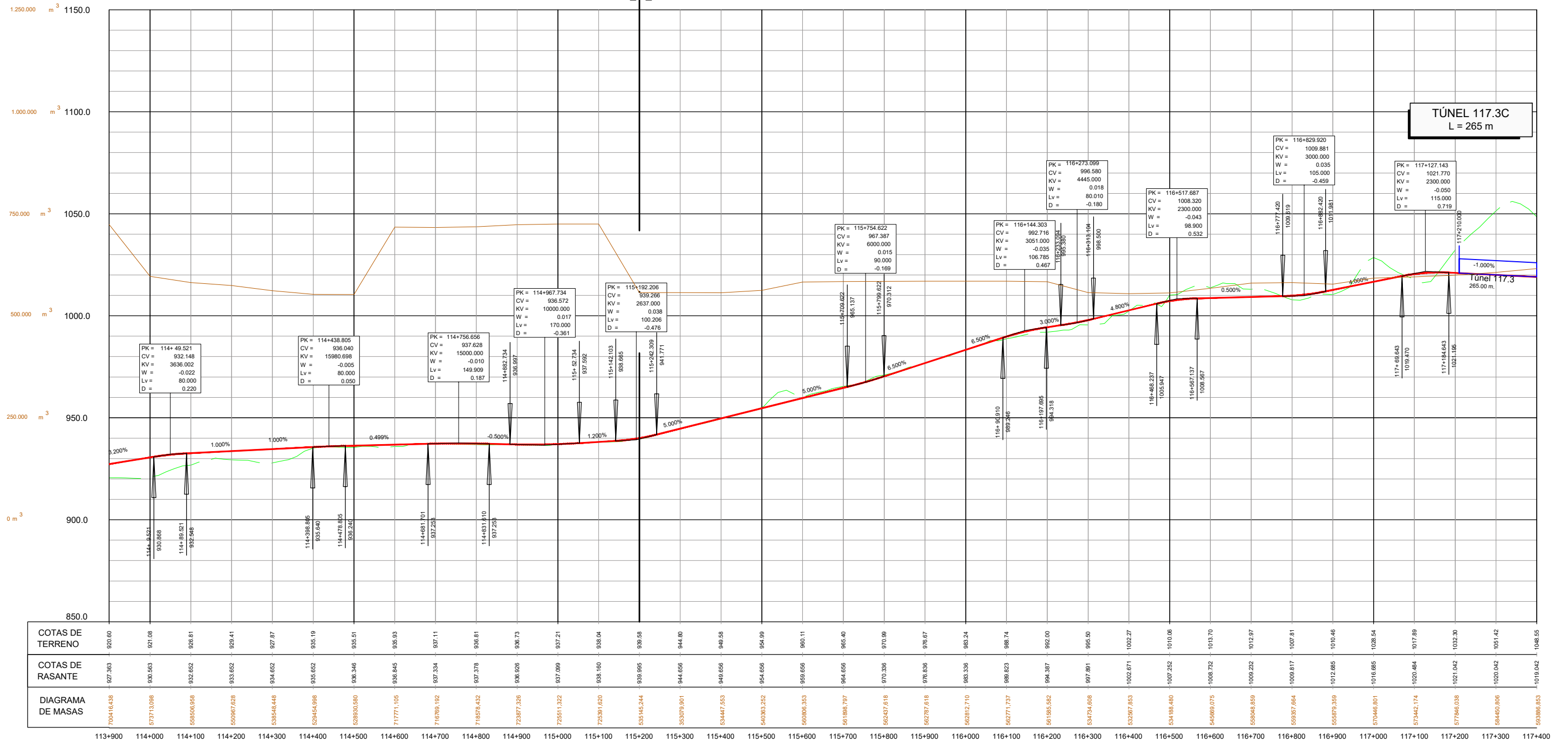


COTAS DE TERRENO	874.75	877.37	880.91	894.15	879.57	1007.20	1019.87	1001.56	995.45	984.50	915.29	893.45	879.21	863.76	852.87	854.20	855.54	862.05	849.82	849.56	849.02	837.23	846.23	847.84	857.36	860.63	860.54	860.700	860.92	863.99	862.85	863.00	852.41	853.48	854.95	856.24	858.22	863.01	863.02	
COTAS DE RASANTE	876.822	876.822	880.283	880.352	879.038	877.238	875.438	873.638	871.838	870.038	868.238	866.438	864.638	862.838	861.037	857.944	854.944	851.944	849.801	849.935	849.56	851.824	853.824	855.824	857.824	859.654	860.387	860.700	860.92	863.99	862.85	863.00	857.346	856.096	855.721	856.942	864.840	870.426	873.139	
DIAGRAMA DE MASAS	754798.111	759530.173	762768.080	773984.125	785200.135	796416.145	807632.167	818848.165	830016.975	841150.436	852281.061	863412.886	874544.705	885676.521	896808.344	907940.164	919071.985	930203.806	941335.627	952467.448	963599.269	974731.090	985862.911	996994.732	1008126.553	1019258.374	1030390.195	1041522.016	1052653.837	1063785.658	1074917.479	1086049.300	1097181.121	1108312.942	1119444.763	1130576.584	1141708.405	1152840.226	1163972.047	1175103.868



TRAMO 4C TRAMO 2+1 TRAMO 5C

PK 115+200 FINAL TRAMO 4C TRAMO 2+1  
PK 115+200 ORIGEN TRAMO 5C

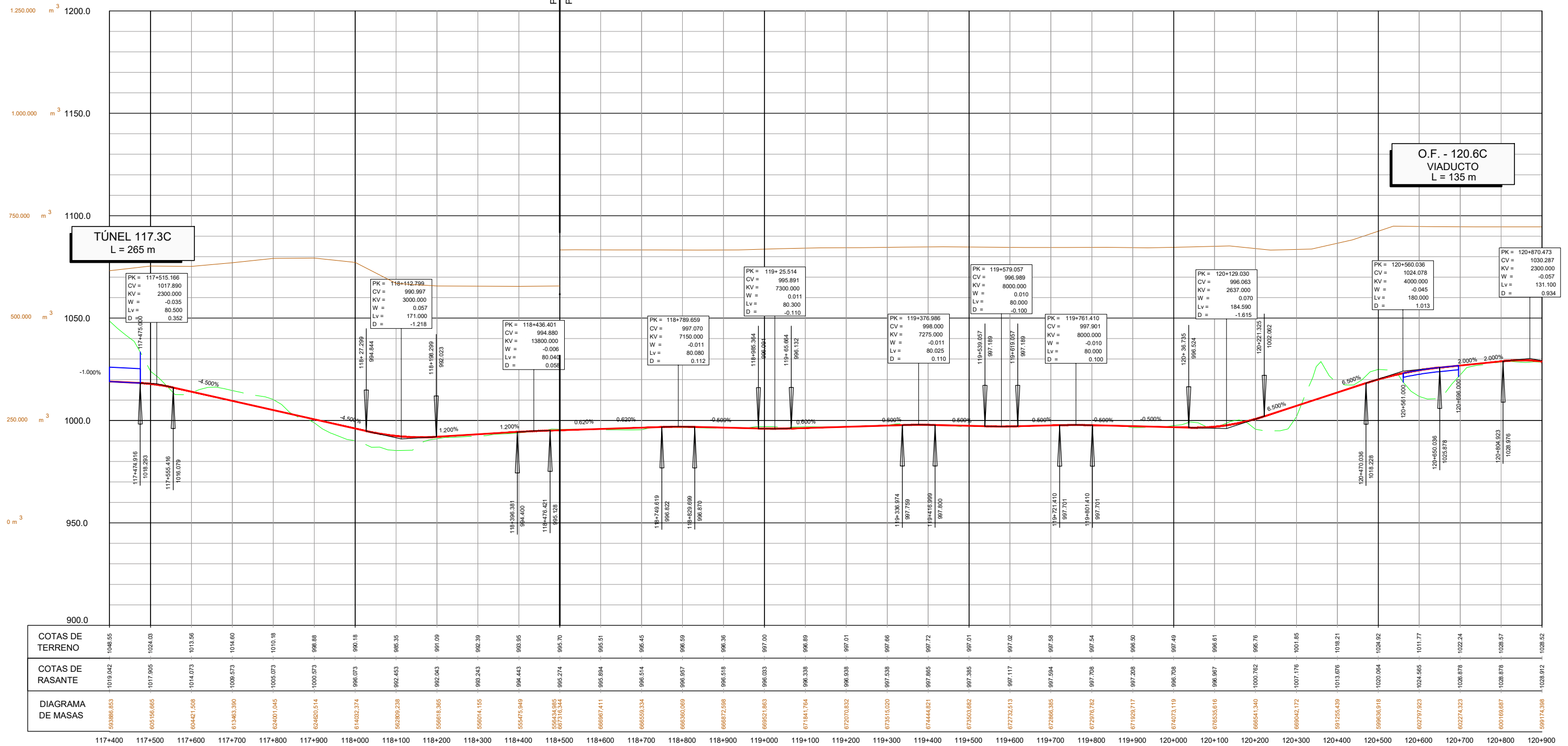


TUNEL 117.3C  
L = 265 m

TRAMO 5C

PK 118+500 FINAL TRAMO 5C  
PK 118+500 ORIGEN TRAMO 6C TRAMO 2+1

TRAMO 6C TRAMO 2+1

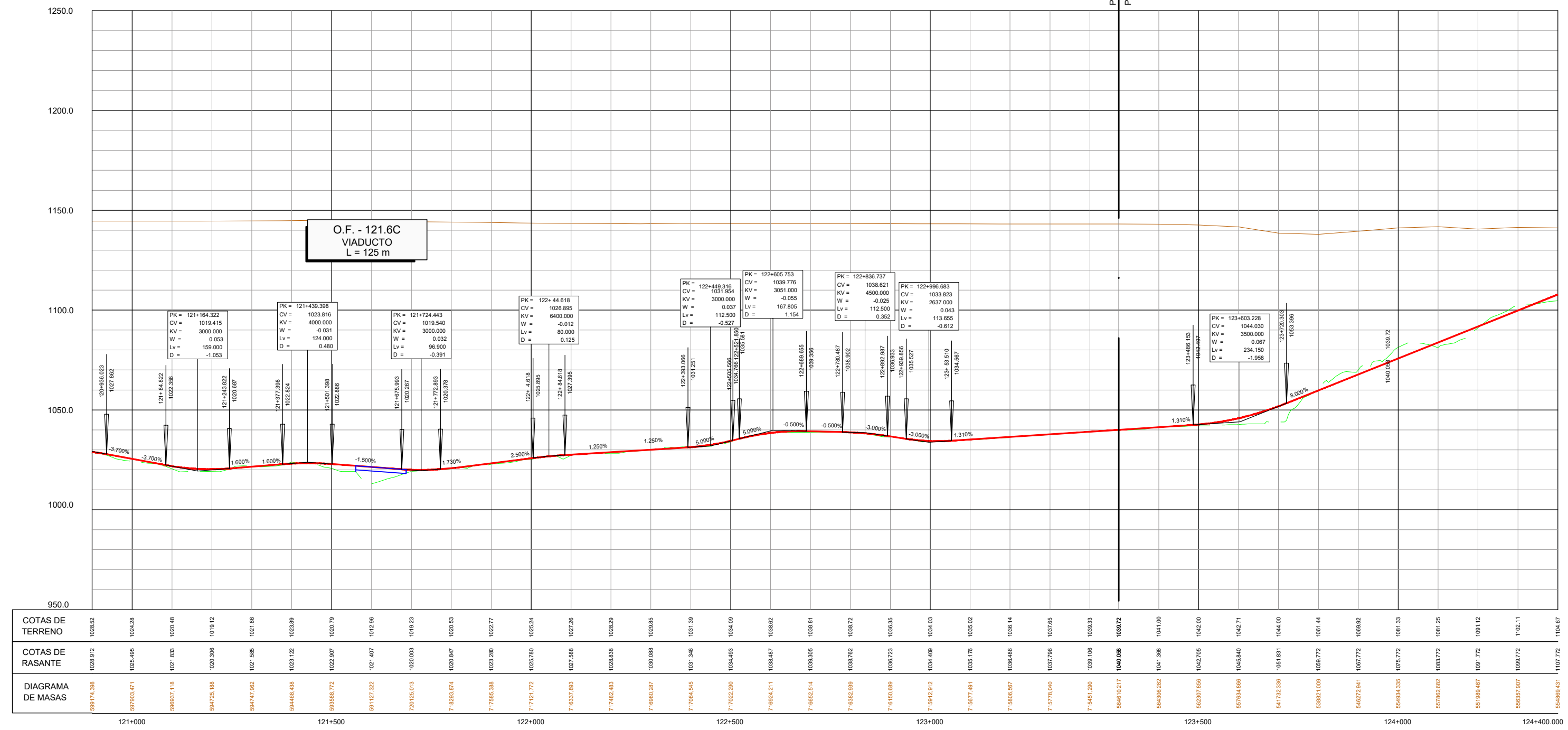


PK	COTAS DE TERRENO	COTAS DE RASANTE	DIAGRAMA DE MASAS
117+400	1048.55	1019.042	593398.633
117+500	1024.03	1017.905	605156.665
117+600	1013.56	1014.073	604421.509
117+700	1014.60	1009.573	613463.390
117+800	1010.18	1006.073	624001.045
117+900	998.88	1000.573	624520.514
118+000	990.18	996.073	614032.374
118+100	985.35	992.453	562369.238
118+200	991.09	992.043	556618.365
118+300	992.39	993.243	556014.155
118+400	990.95	994.443	555475.949
118+500	995.70	995.274	556434.985
118+600	995.51	995.894	667316.344
118+700	995.45	996.514	666559.334
118+800	996.59	996.957	666360.069
118+900	996.36	996.518	666872.598
119+000	997.00	996.033	666521.863
119+100	996.89	996.338	671841.764
119+200	997.01	996.938	672070.832
119+300	997.66	997.538	673515.020
119+400	997.72	997.865	674444.621
119+500	997.01	997.385	673503.682
119+600	997.02	997.117	672732.513
119+700	997.58	997.594	672966.385
119+800	997.54	997.708	672976.782
119+900	996.50	997.208	671920.717
120+000	997.49	996.708	674073.119
120+100	996.61	996.967	676535.616
120+200	996.76	1000.782	666541.340
120+300	1001.85	1007.176	668042.172
120+400	1018.21	1013.676	591255.439
120+500	1024.92	1020.064	599536.918
120+600	1011.77	1024.565	602797.923
120+700	1022.24	1026.878	602274.323
120+800	1028.57	1028.878	600168.687
120+900	1028.52	1028.912	599174.388

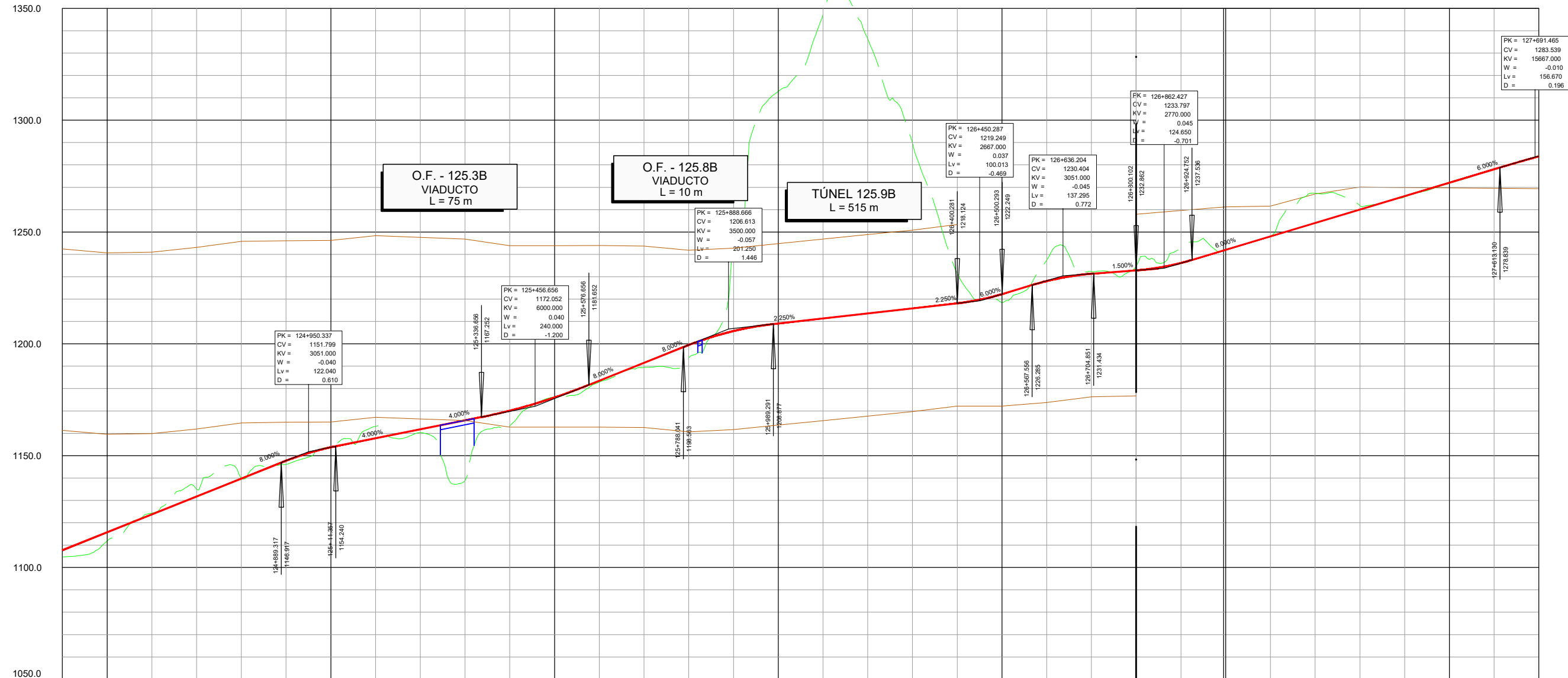
PK 123+472.674 FINAL TRAMO 6C TRAMO 2+1  
PK 123+300.000 ORIGEN TRAMO 7B

TRAMO 6C TRAMO 2+1

TRAMO 7B





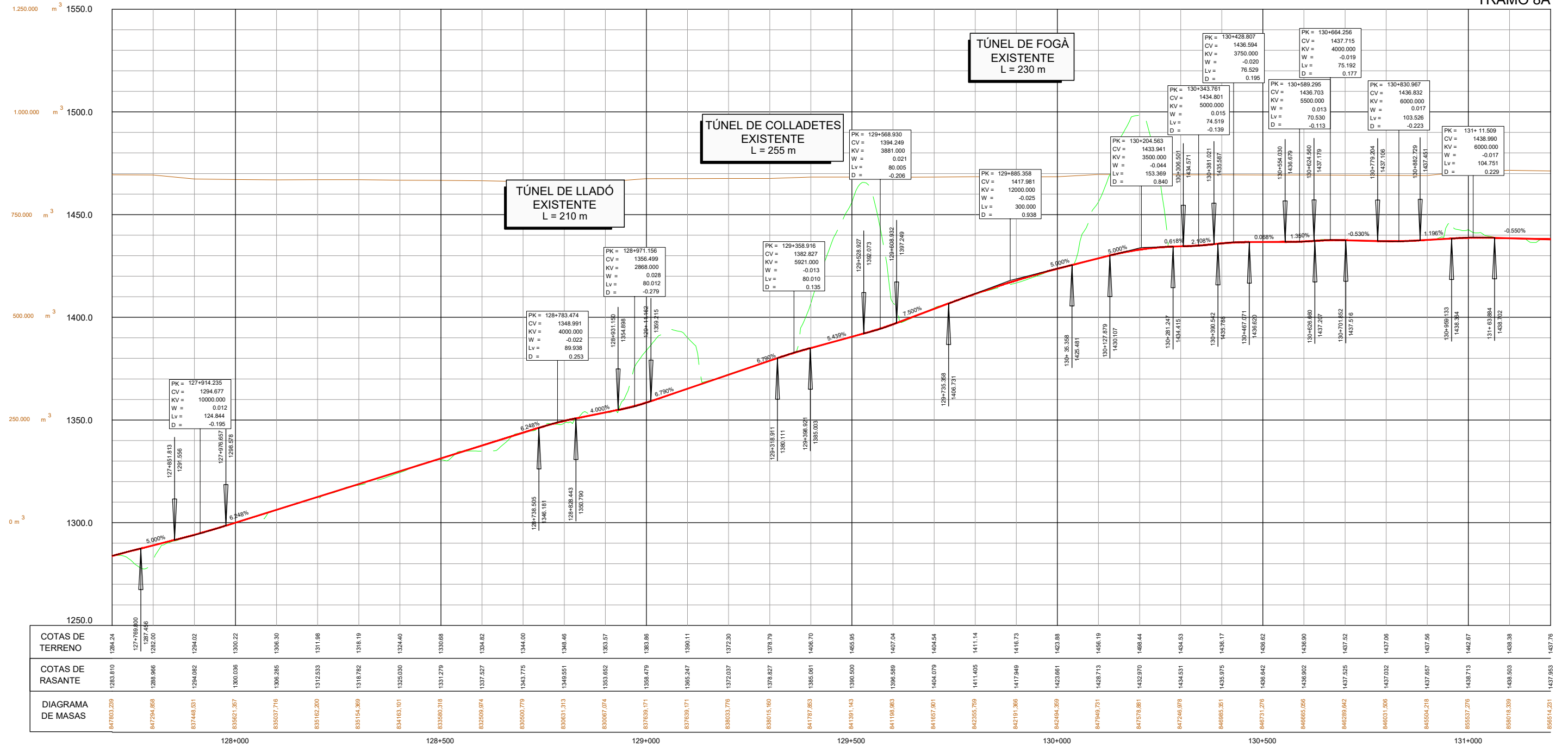


TRAMO 7B TRAMO 8A

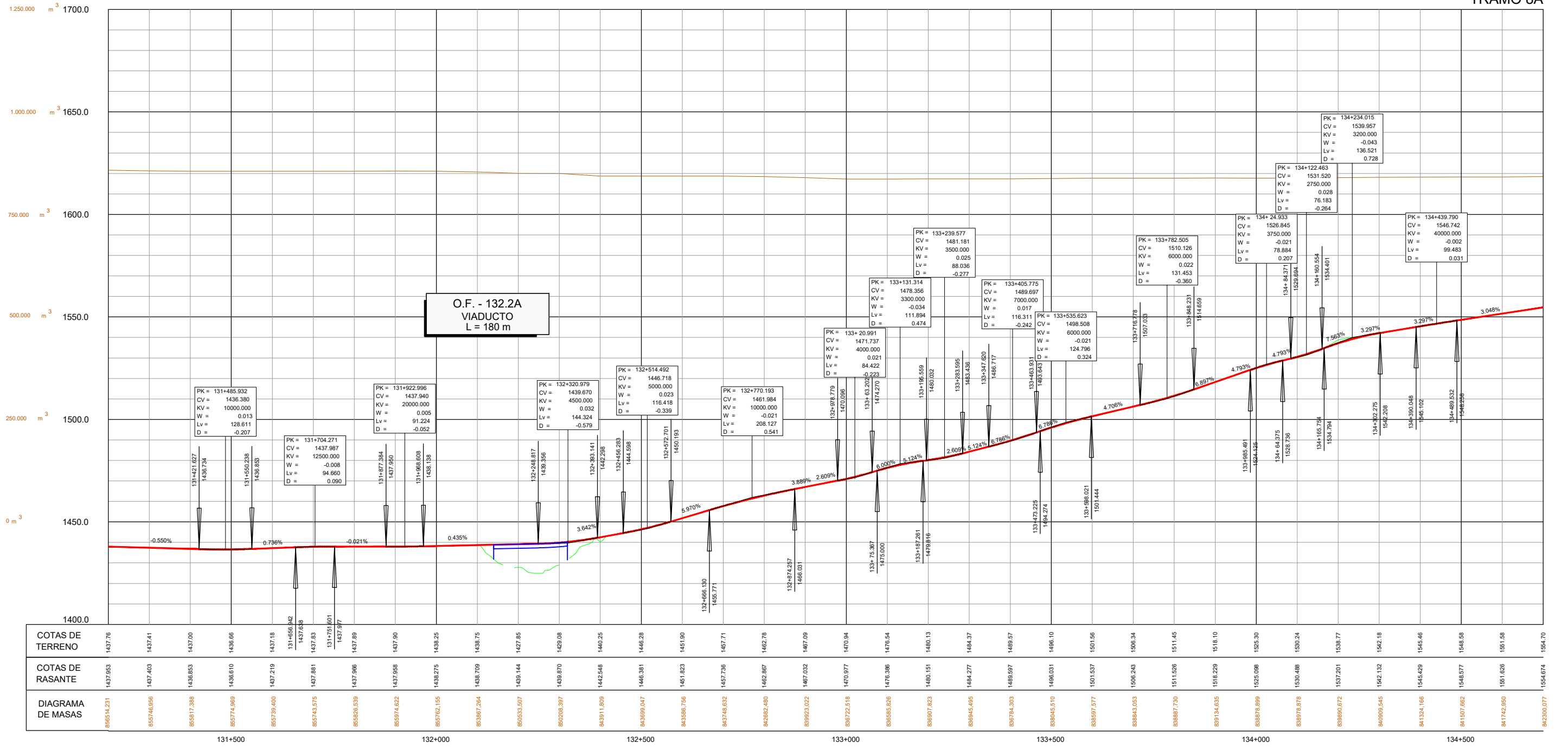
PK 126+800 FINAL TRAMO 7B  
PK 126+800 ORIGEN TRAMO 8A

PK = 127+691.465  
CV = 1283.539  
KV = 15667.000  
W = -0.010  
Lv = 156.670  
D = 0.196

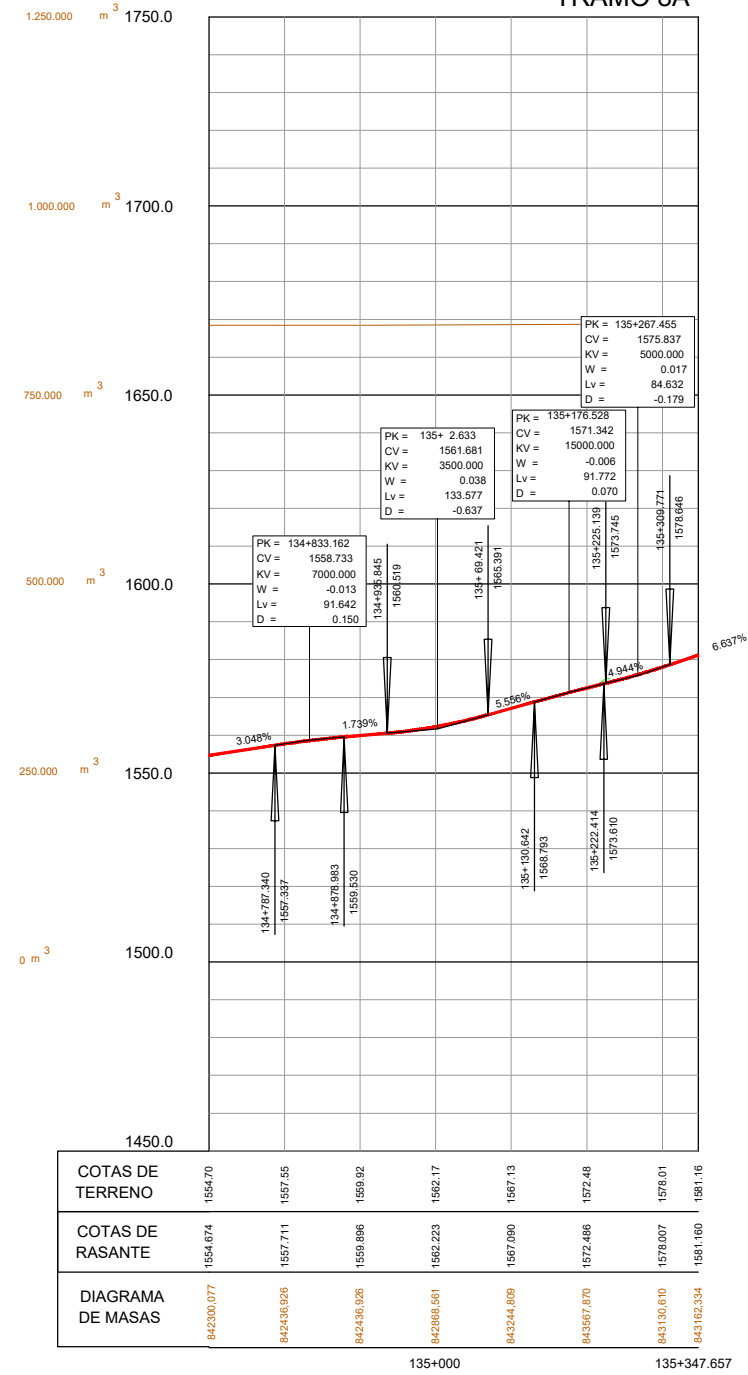
PK	124+500	125+000	125+500	126+000	126+500	126+800.000	127+000	127+500	127+700.000																										
COTAS DE TERRENO	1104.67	1111.86	1124.33	1134.94	1138.74	1146.12	1153.95	1163.14	1166.33	1176.32	1182.95	1189.49	1193.88	1204.11	1212.91	1217.02	1231.43	1231.32	1237.37	1244.7	1242.86	1241.97	1245.11	1247.36	1261.78	1265.74	1271.92	1278.32	1284.24						
COTAS DE RASANTE	1107.772	1115.772	1123.772	1131.772	1138.772	1147.753	1153.764	1157.786	1161.786	1166.786	1170.820	1176.009	1183.519	1191.519	1199.499	1205.729	1208.118	1211.388	1213.618	1215.868	1218.118	1222.232	1228.059	1231.357	1232.39	1232.861	1236.182	1242.851	1246.051	1254.051	1260.051	1266.051	1272.051	1278.051	1283.810
DIAGRAMA DE MASAS	545889.431	548886.107	547789.872	538117.565	571657.354	573068.651	573703.752	584430.802	590511.728	579891.683	562125.387	562203.652	562278.328	561142.390	551787.206	556645.590	566700.876	576756.209	586811.542	596866.875	606930.178	609108.556	617269.388	630113.261	632099.465	798463.303	806386.024	808061.887	833364.385	850961.628	849824.454	848750.762	847903.239	847294.658	



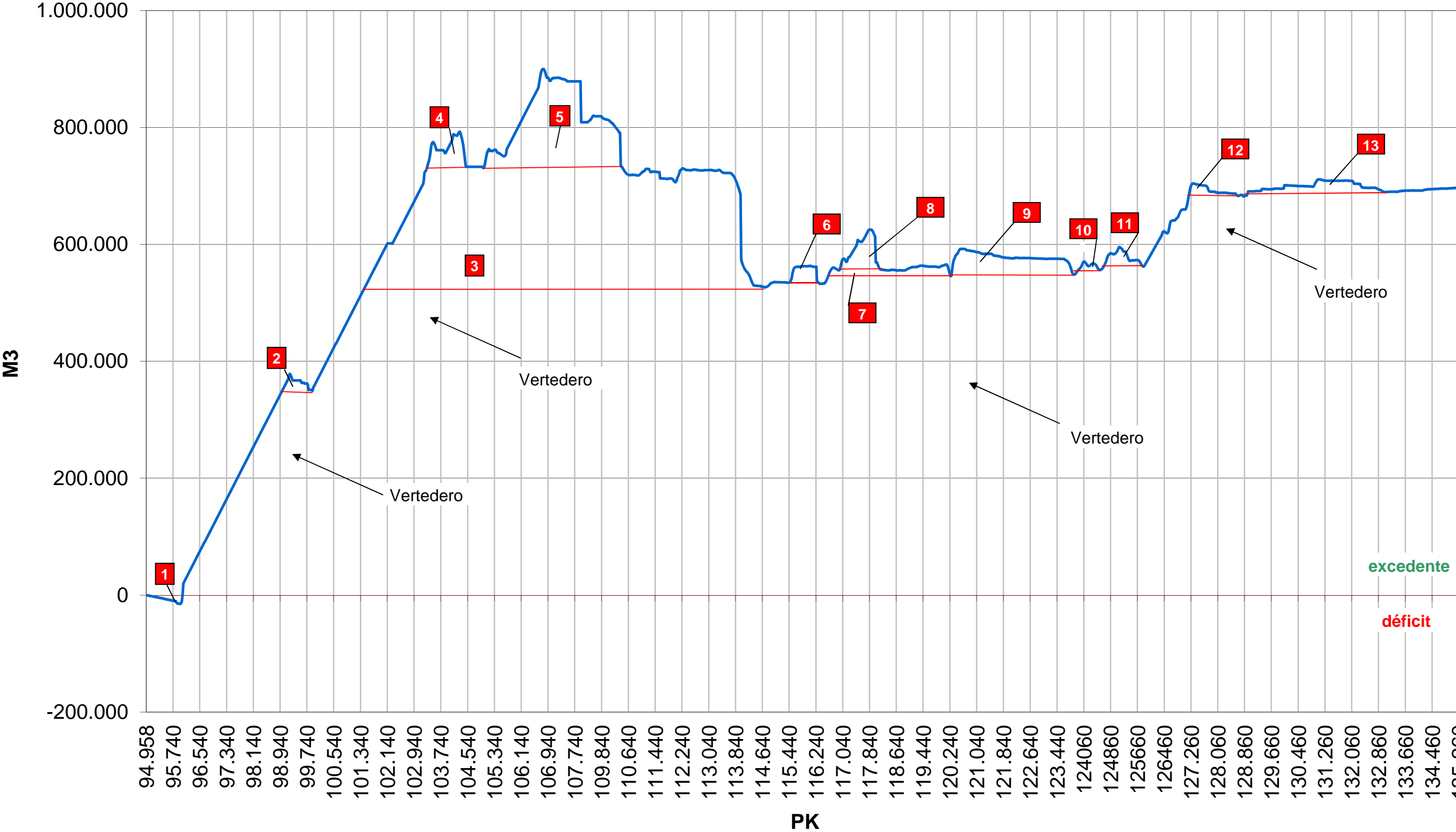
PK	COTAS DE TERRENO	COTAS DE RASANTE	DIAGRAMA DE MASAS
127+769.800	1284.24	1283.810	847803.239
127+769.800	1287.498	1288.966	847254.858
128+000	1294.02	1294.082	837448.031
128+000	1300.22	1300.096	835621.367
128+500	1306.30	1306.285	835037.716
128+500	1311.98	1312.533	835162.200
128+500	1318.19	1318.782	835164.369
128+500	1324.40	1325.030	834163.101
128+500	1330.68	1331.279	833580.318
129+000	1334.82	1337.527	832509.974
129+000	1344.00	1343.775	830500.779
129+000	1346.46	1349.551	830831.313
129+000	1353.57	1353.652	830067.074
129+000	1363.86	1368.479	827839.171
129+000	1380.11	1385.247	837039.171
129+000	1372.20	1372.037	838033.776
129+500	1378.79	1378.827	839015.160
129+500	1406.70	1385.981	841787.853
129+500	1455.95	1390.500	841391.143
129+500	1407.04	1396.589	841198.883
130+000	1404.54	1404.079	841657.801
130+000	1411.14	1411.405	842355.759
130+000	1416.73	1417.949	842191.366
130+000	1423.88	1423.861	842494.359
130+000	1456.19	1428.713	847949.731
130+000	1498.44	1432.970	847578.881
130+000	1434.53	1434.531	847246.878
130+000	1436.17	1435.975	846885.351
130+500	1436.62	1436.642	846731.276
130+500	1438.90	1438.902	846885.056
130+500	1437.52	1437.525	846289.642
131+000	1437.06	1437.032	846031.506
131+000	1437.56	1437.857	845504.216
131+000	1442.67	1438.713	855537.276
131+000	1435.38	1438.503	858018.309
1437.763	1437.853	856514.231	



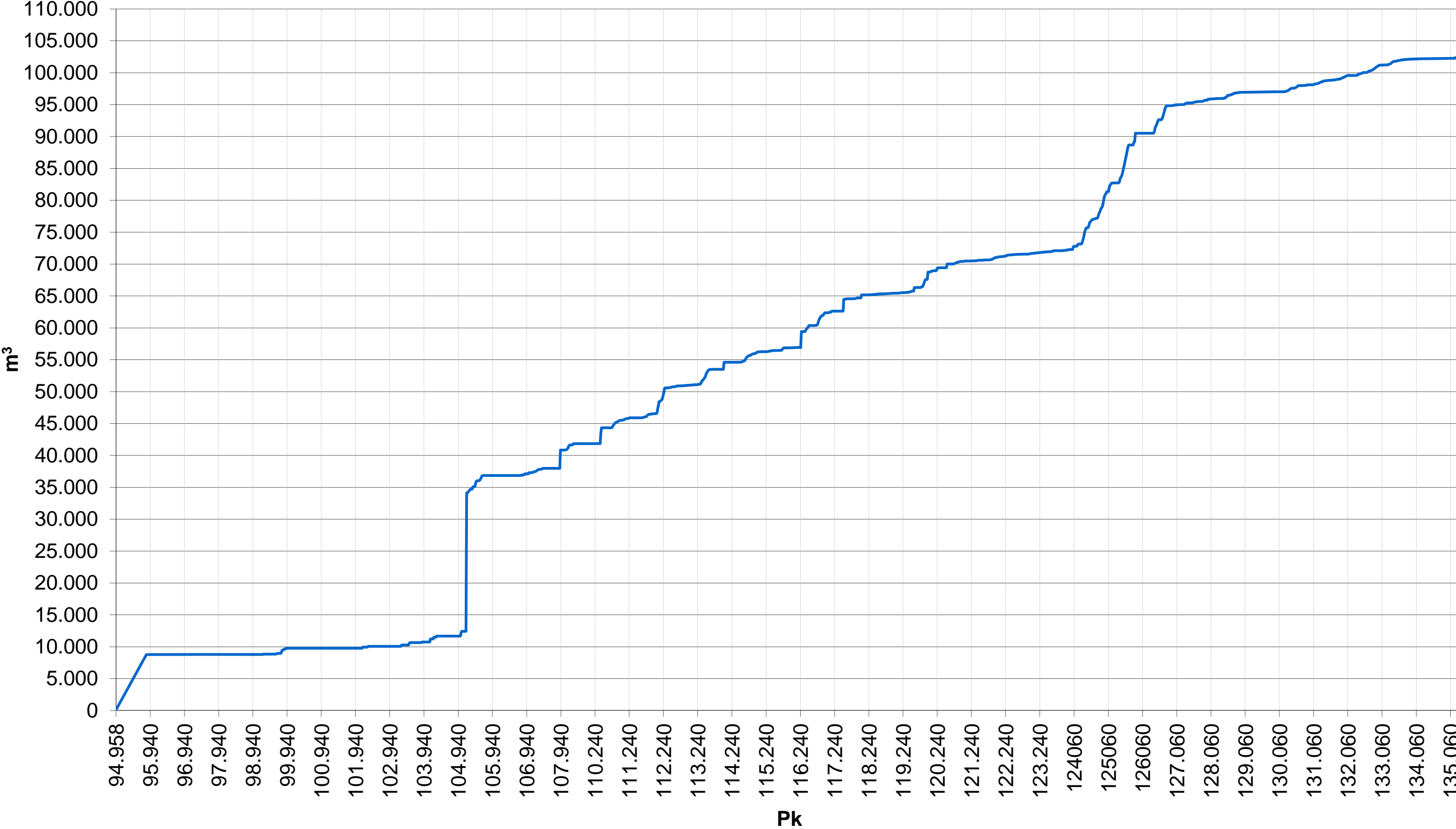
TRAMO 8A



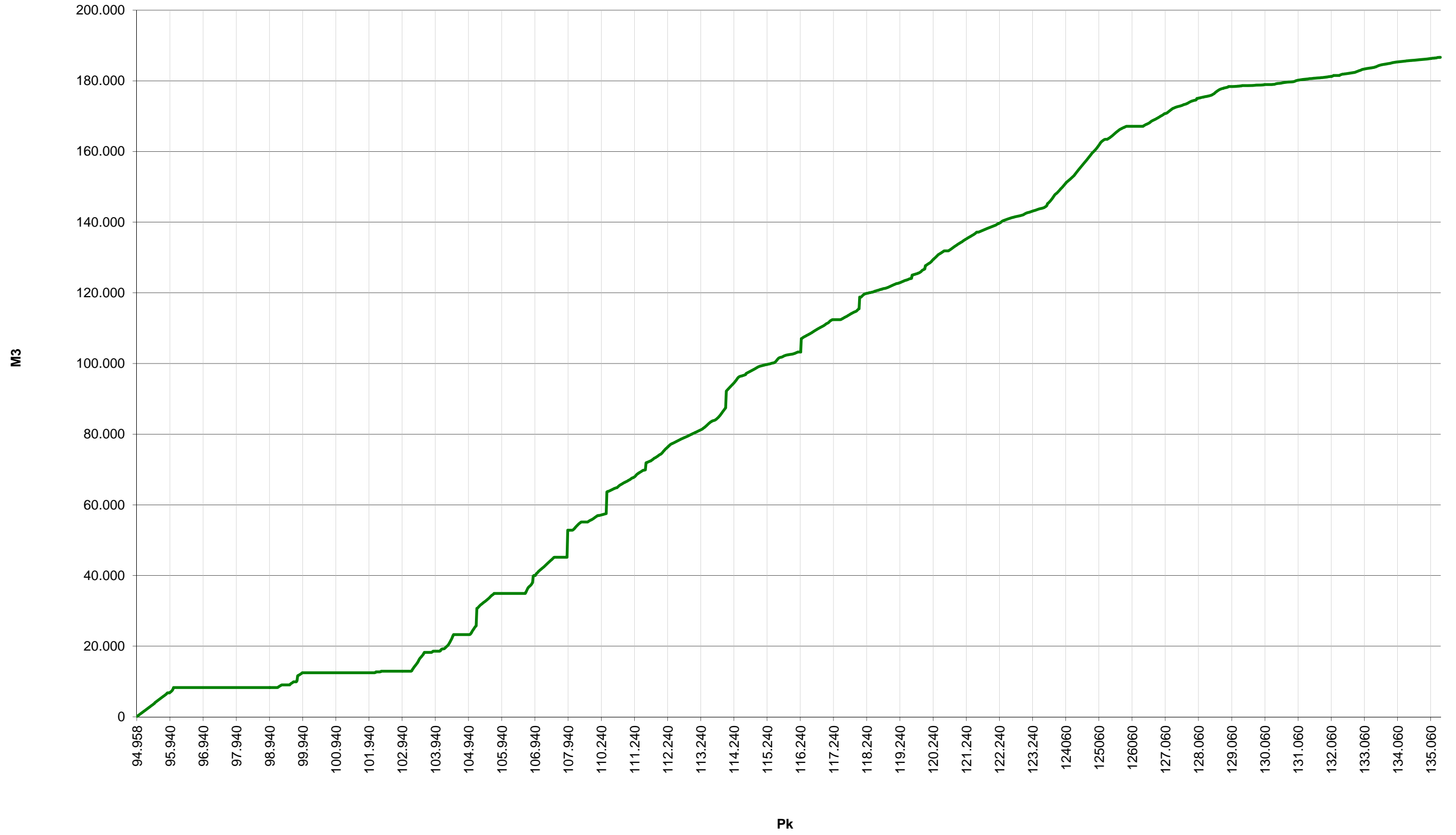
# COMPENSACIÓN LONGITUDINAL. ALTERNATIVA 3



### COMPENSACIÓN TRANSVERSAL. ALTERNATIVA 3



### VOLUMEN DE TIERRA VEGETAL. ALTERNATIVA 3







**Apéndice 2:**  
**Listados de movimiento de tierras**



*Alternativa 1*













Movimiento de tierras. Alternativa 1

Table with 13 columns: TIERRA VEGETAL (m3), P.K. inicial, P.K. final, T.V. acumulada, DESMONTE, TERRAPLEN Y DIAGRAMA DE MASAS (m3) including Terraplén, Desmonte, Excavación túnel, Suelo Seleccionado 2, Suelo Estabilizado 3, Tierra marginal, Relleno Total, Excavación total, Diagrama de masas. Includes a note: 'Coef. Paso = 1,182'.

Movimiento de tierras. Alternativa 1

Table with 13 columns: TIERRA VEGETAL (m3), P.K. inicial, P.K. final, T.V. acumulada, DESMONTE, TERRAPLEN Y DIAGRAMA DE MASAS (m3) including Terraplén, Desmonte, Excavación túnel, Suelo Seleccionado 2, Suelo Estabilizado 3, Tierra marginal, Relleno Total, Excavación total, Diagrama de masas. Includes a note: 'Coef. Paso = 1,182'.

TRAMO -C-

Movimiento de tierras. Alternativa 1

Table with columns: TIERRA VEGETAL (m3) and DESMONTE, TERRAPLEN Y DIAGRAMA DE MASAS (m3). It lists soil movement data across 100+ rows, including initial/final points and accumulated volume.

Movimiento de tierras. Alternativa 1

Table with columns: TIERRA VEGETAL (m3) and DESMONTE, TERRAPLEN Y DIAGRAMA DE MASAS (m3). It lists soil movement data across 100+ rows, including initial/final points and accumulated volume.















**COMPENSACIÓN TRANSVERSAL. Alternativa 1**

P.K. inicial	Terraplén	Desmorte	Compensación Parcial (m³)	Compensación Acumulada (m³)
94.958	349	195	195	195
94.960	349	195	195	390
94.980	349	195	195	585
95.000	349	195	195	780
95.020	349	195	195	975
95.040	349	195	195	1.170
95.060	349	195	195	1.365
95.080	349	195	195	1.560
95.100	349	195	195	1.755
95.120	349	195	195	1.950
95.140	349	195	195	2.145
95.160	349	195	195	2.340
95.180	349	195	195	2.535
95.200	349	195	195	2.730
95.220	349	195	195	2.925
95.240	349	195	195	3.120
95.260	349	195	195	3.315
95.280	349	195	195	3.510
95.300	349	195	195	3.705
95.320	349	195	195	3.900
95.340	349	195	195	4.095
95.360	349	195	195	4.290
95.380	349	195	195	4.485
95.400	349	195	195	4.680
95.420	349	195	195	4.875
95.440	349	195	195	5.070
95.460	349	195	195	5.265
95.480	611	203	203	5.468
95.500	349	195	195	5.663
95.520	349	195	195	5.858
95.540	349	195	195	6.053
95.560	349	195	195	6.248
95.580	349	195	195	6.443
95.600	349	195	195	6.638
95.620	349	195	195	6.833
95.640	349	195	195	7.028
95.660	349	195	195	7.223
95.680	349	195	195	7.418
95.700	349	195	195	7.613
95.720	349	195	195	7.808
95.740	349	195	195	8.003
95.760	349	195	195	8.198
95.780	349	195	195	8.393
95.800	349	195	195	8.588
95.820	349	195	195	8.783
95.840	2.552	0	0	8.783
95.860	1.358	0	0	8.783
95.880	0	0	0	8.783
95.900	0	0	0	8.783
95.920	0	0	0	8.783
95.940	900	2	2	8.785

**COMPENSACIÓN TRANSVERSAL. Alternativa 1**

P.K. inicial	Terraplén	Desmorte	Compensación Parcial (m³)	Compensación Acumulada (m³)
95.960	10	336	10	8.795
95.980	0	1.246	0	8.795
96.000	0	3.198	0	8.795
96.020	0	8.539	0	8.795
96.040	0	16.570	0	8.795
96.060	0	0	0	8.795
96.080	0	0	0	8.795
96.100	0	0	0	8.795
96.120	0	0	0	8.795
96.140	0	0	0	8.795
96.160	0	0	0	8.795
96.180	0	0	0	8.795
96.200	0	0	0	8.795
96.220	0	0	0	8.795
96.240	0	0	0	8.795
96.260	0	0	0	8.795
96.280	0	0	0	8.795
96.300	0	0	0	8.795
96.320	0	0	0	8.795
96.340	0	0	0	8.795
96.360	0	0	0	8.795
96.380	0	0	0	8.795
96.400	0	0	0	8.795
96.420	0	0	0	8.795
96.440	0	0	0	8.795
96.460	0	0	0	8.795
96.480	0	0	0	8.795
96.500	0	0	0	8.795
96.520	0	0	0	8.795
96.540	0	0	0	8.795
96.560	0	0	0	8.795
96.580	0	0	0	8.795
96.600	0	0	0	8.795
96.620	0	0	0	8.795
96.640	0	0	0	8.795
96.660	0	0	0	8.795
96.680	0	0	0	8.795
96.700	0	0	0	8.795
96.720	0	0	0	8.795
96.740	0	0	0	8.795
96.760	0	0	0	8.795
96.780	0	0	0	8.795
96.800	0	0	0	8.795
96.820	0	0	0	8.795
96.840	0	0	0	8.795
96.860	0	0	0	8.795
96.880	0	0	0	8.795
96.900	0	0	0	8.795
96.920	0	0	0	8.795
96.940	0	0	0	8.795
96.960	0	0	0	8.795

**COMPENSACIÓN TRANSVERSAL. Alternativa 1**

P.K. inicial	Terraplén	Desmorte	Compensación Parcial (m³)	Compensación Acumulada (m³)
96.980	0	0	0	8.795
97.000	0	0	0	8.795
97.020	0	0	0	8.795
97.040	0	0	0	8.795
97.060	0	0	0	8.795
97.080	0	0	0	8.795
97.100	0	0	0	8.795
97.120	0	0	0	8.795
97.140	0	0	0	8.795
97.160	0	0	0	8.795
97.180	0	0	0	8.795
97.200	0	0	0	8.795
97.220	0	0	0	8.795
97.240	0	0	0	8.795
97.260	0	0	0	8.795
97.280	0	0	0	8.795
97.300	0	0	0	8.795
97.320	0	0	0	8.795
97.340	0	0	0	8.795
97.360	0	0	0	8.795
97.380	0	0	0	8.795
97.400	0	0	0	8.795
97.420	0	0	0	8.795
97.440	0	0	0	8.795
97.460	0	0	0	8.795
97.480	0	0	0	8.795
97.500	0	0	0	8.795
97.520	0	0	0	8.795
97.540	0	0	0	8.795
97.560	0	0	0	8.795
97.580	0	0	0	8.795
97.600	0	0	0	8.795
97.620	0	0	0	8.795
97.640	0	0	0	8.795
97.660	0	0	0	8.795
97.680	0	0	0	8.795
97.700	0	0	0	8.795
97.720	0	0	0	8.795
97.740	0	0	0	8.795
97.760	0	0	0	8.795
97.780	0	0	0	8.795
97.800	0	0	0	8.795
97.820	0	0	0	8.795
97.840	0	0	0	8.795
97.860	0	0	0	8.795
97.880	0	0	0	8.795
97.900	0	0	0	8.795
97.920	0	0	0	8.795
97.940	0	0	0	8.795
97.960	0	0	0	8.795
97.980	0	0	0	8.795

**COMPENSACIÓN TRANSVERSAL. Alternativa 1**

P.K. inicial	Terraplén	Desmorte	Compensación Parcial (m³)	Compensación Acumulada (m³)
98.000	0	0	0	8.795
98.020	0	0	0	8.795
98.040	0	0	0	8.795
98.060	0	0	0	8.795
98.080	0	0	0	8.795
98.100	0	0	0	8.795
98.120	0	0	0	8.795
98.140	0	0	0	8.795
98.160	0	0	0	8.795
98.180	0	0	0	8.795
98.200	0	0	0	8.795
98.220	0	0	0	8.795
98.240	0	0	0	8.795
98.260	0	0	0	8.795
98.280	0	0	0	8.795
98.300	0	0	0	8.795
98.320	0	0	0	8.795
98.340	0	0	0	8.795
98.360	0	0	0	8.795
98.380	0	0	0	8.795
98.400	0	0	0	8.795
98.420	0	0	0	8.795
98.440	0	0	0	8.795
98.460	0	0	0	8.795
98.480	0	0	0	8.795
98.500	0	0	0	8.795
98.520	0	0	0	8.795
98.540	0	0	0	8.795
98.560	0	0	0	8.795
98.580	0	0	0	8.795
98.600	0	0	0	8.795
98.620	0	0	0	8.795
98.640	0	0	0	8.795
98.660	0	0	0	8.795
98.680	0	0	0	8.795
98.700	0	0	0	8.795
98.720	0	0	0	8.795
98.740	0	0	0	8.795
98.760	0	0	0	8.795
98.780	0	0	0	8.795
98.800	0	0	0	8.795
98.820	0	0	0	8.795
98.840	0	0	0	8.795
98.860	0	0	0	8.795
98.880	0	0	0	8.795
98.900	0	0	0	8.795
98.920	0	0	0	8.795
98.940	0	0	0	8.795
98.960	0	0	0	8.795
98.980	0	0	0	8.795
99.000	0	0	0	8.795

**COMPENSACIÓN TRANSVERSAL. Alternativa 1**

P.K. inicial	Terraplén	Desmonte	Compensación Parcial (m³)	Compensación Acumulada (m³)
99.020	0	0	0	8.795
99.040	0	0	0	8.795
99.060	0	0	0	8.795
99.080	0	0	0	8.795
99.100	0	0	0	8.795
99.120	0	0	0	8.795
99.140	0	0	0	8.795
99.160	0	0	0	8.795
99.180	1	7	1	8.796
99.200	0	5.475	0	8.796
99.220	0	1.556	0	8.796
99.240	675	56	56	8.852
99.260	2.671	0	0	8.852
99.280	4.079	0	0	8.852
99.300	3.354	0	0	8.852
99.320	0	0	0	8.852
99.340	0	0	0	8.852
99.360	0	0	0	8.852
99.380	0	0	0	8.852
99.400	0	0	0	8.852
99.420	0	0	0	8.852
99.440	0	0	0	8.852
99.460	0	0	0	8.852
99.480	0	0	0	8.852
99.500	0	0	0	8.852
99.520	0	0	0	8.852
99.540	0	0	0	8.852
99.560	3.347	0	0	8.852
99.580	947	11	11	8.863
99.600	2	70	2	8.865
99.620	2	169	2	8.867
99.640	86	140	86	8.952
99.660	1.482	10	10	8.962
99.680	1	0	0	8.962
99.700	0	0	0	8.962
99.720	0	0	0	8.962
99.740	0	0	0	8.962
99.760	1.692	62	62	9.024
99.780	10.075	399	399	9.423
99.800	0	450	0	9.423
99.820	96	241	96	9.519
99.840	459	91	91	9.611
99.860	285	28	28	9.639
99.880	987	0	0	9.639
99.900	448	132	132	9.771
99.920	0	3.576	0	9.771
99.940	0	0	0	9.771
99.960	0	0	0	9.771
99.980	0	0	0	9.771
100.000	0	0	0	9.771
100.020	0	0	0	9.771

**COMPENSACIÓN TRANSVERSAL. Alternativa 1**

P.K. inicial	Terraplén	Desmonte	Compensación Parcial (m³)	Compensación Acumulada (m³)
100.040	0	0	0	9.771
100.060	0	0	0	9.771
100.080	0	0	0	9.771
100.100	0	0	0	9.771
100.120	0	0	0	9.771
100.140	0	0	0	9.771
100.160	0	0	0	9.771
100.180	0	0	0	9.771
100.200	0	0	0	9.771
100.220	0	0	0	9.771
100.240	0	0	0	9.771
100.260	0	0	0	9.771
100.280	0	0	0	9.771
100.300	0	0	0	9.771
100.320	0	0	0	9.771
100.340	0	0	0	9.771
100.360	0	0	0	9.771
100.380	0	0	0	9.771
100.400	0	0	0	9.771
100.420	0	0	0	9.771
100.440	0	0	0	9.771
100.460	0	0	0	9.771
100.480	0	0	0	9.771
100.500	0	0	0	9.771
100.520	0	0	0	9.771
100.540	0	0	0	9.771
100.560	0	0	0	9.771
100.580	0	0	0	9.771
100.600	0	0	0	9.771
100.620	0	0	0	9.771
100.640	0	0	0	9.771
100.660	0	0	0	9.771
100.680	0	0	0	9.771
100.700	0	0	0	9.771
100.720	0	0	0	9.771
100.740	0	0	0	9.771
100.760	0	0	0	9.771
100.780	0	0	0	9.771
100.800	0	0	0	9.771
100.820	0	0	0	9.771
100.840	0	0	0	9.771
100.860	0	0	0	9.771
100.880	0	0	0	9.771
100.900	0	0	0	9.771
100.920	0	0	0	9.771
100.940	0	0	0	9.771
100.960	0	0	0	9.771
100.980	0	0	0	9.771
101.000	0	0	0	9.771
101.020	0	0	0	9.771
101.040	0	0	0	9.771

**COMPENSACIÓN TRANSVERSAL. Alternativa 1**

P.K. inicial	Terraplén	Desmorte	Compensación Parcial (m³)	Compensación Acumulada (m³)
101.060	0	0	0	9.771
101.080	0	0	0	9.771
101.100	0	0	0	9.771
101.120	0	0	0	9.771
101.140	0	0	0	9.771
101.160	0	0	0	9.771
101.180	0	0	0	9.771
101.200	0	0	0	9.771
101.220	0	0	0	9.771
101.240	0	0	0	9.771
101.260	0	0	0	9.771
101.280	0	0	0	9.771
101.300	0	0	0	9.771
101.320	0	0	0	9.771
101.340	0	0	0	9.771
101.360	0	0	0	9.771
101.380	0	0	0	9.771
101.400	0	0	0	9.771
101.420	0	0	0	9.771
101.440	0	0	0	9.771
101.460	0	0	0	9.771
101.480	0	0	0	9.771
101.500	0	0	0	9.771
101.520	0	0	0	9.771
101.540	0	0	0	9.771
101.560	0	0	0	9.771
101.580	0	0	0	9.771
101.600	0	0	0	9.771
101.620	0	0	0	9.771
101.640	0	0	0	9.771
101.660	0	0	0	9.771
101.680	0	0	0	9.771
101.700	0	0	0	9.771
101.720	0	0	0	9.771
101.740	0	0	0	9.771
101.760	0	0	0	9.771
101.780	0	0	0	9.771
101.800	0	0	0	9.771
101.820	0	0	0	9.771
101.840	0	0	0	9.771
101.860	0	0	0	9.771
101.880	0	0	0	9.771
101.900	0	0	0	9.771
101.920	0	0	0	9.771
101.940	0	0	0	9.771
101.960	0	0	0	9.771
101.980	0	0	0	9.771
102.000	0	0	0	9.771
102.020	0	0	0	9.771
102.040	0	0	0	9.771
102.060	0	0	0	9.771

**COMPENSACIÓN TRANSVERSAL. Alternativa 1**

P.K. inicial	Terraplén	Desmorte	Compensación Parcial (m³)	Compensación Acumulada (m³)
102.080	0	0	0	9.771
102.100	0	0	0	9.771
102.120	0	936	0	9.771
102.140	176	1.274	176	9.947
102.160	0	0	0	9.947
102.180	0	0	0	9.947
102.200	0	0	0	9.947
102.220	0	0	0	9.947
102.240	0	0	0	9.947
102.260	0	0	0	9.947
102.280	436	7	7	9.955
102.300	113	1.125	113	10.067
102.320	0	0	0	10.067
102.340	0	0	0	10.067
102.360	0	0	0	10.067
102.380	0	0	0	10.067
102.400	0	0	0	10.067
102.420	0	0	0	10.067
102.440	0	0	0	10.067
102.460	0	0	0	10.067
102.480	0	0	0	10.067
102.500	0	0	0	10.067
102.520	0	0	0	10.067
102.540	0	0	0	10.067
102.560	0	0	0	10.067
102.580	0	0	0	10.067
102.600	0	0	0	10.067
102.620	0	0	0	10.067
102.640	0	0	0	10.067
102.660	0	0	0	10.067
102.680	0	0	0	10.067
102.700	0	0	0	10.067
102.720	0	0	0	10.067
102.740	0	0	0	10.067
102.760	0	0	0	10.067
102.780	0	0	0	10.067
102.800	0	0	0	10.067
102.820	0	0	0	10.067
102.840	0	0	0	10.067
102.860	0	0	0	10.067
102.880	0	0	0	10.067
102.900	0	0	0	10.067
102.920	0	0	0	10.067
102.940	0	0	0	10.067
102.960	0	0	0	10.067
102.980	0	0	0	10.067
103.000	0	0	0	10.067
103.020	0	0	0	10.067
103.040	0	0	0	10.067
103.060	0	0	0	10.067
103.080	0	0	0	10.067

**COMPENSACIÓN TRANSVERSAL. Alternativa 1**

P.K. inicial	Terraplén	Desmonte	Compensación Parcial (m³)	Compensación Acumulada (m³)
103.100	0	0	0	10.067
103.120	0	0	0	10.067
103.140	0	0	0	10.067
103.160	0	0	0	10.067
103.180	0	0	0	10.067
103.200	0	0	0	10.067
103.220	0	4.603	0	10.067
103.240	0	10.568	0	10.067
103.260	27	1.918	27	10.095
103.280	181	998	181	10.276
103.300	0	2.249	0	10.276
103.320	0	3.625	0	10.276
103.340	0	3.638	0	10.276
103.360	0	2.854	0	10.276
103.380	0	3.166	0	10.276
103.400	0	5.167	0	10.276
103.420	0	7.393	0	10.276
103.440	0	7.295	0	10.276
103.460	0	4.232	0	10.276
103.480	0	1.883	0	10.276
103.500	259	1.047	259	10.535
103.520	1.539	120	120	10.655
103.540	2.080	1	1	10.656
103.560	2.497	0	0	10.656
103.580	3.566	0	0	10.656
103.600	4.036	0	0	10.656
103.620	0	0	0	10.656
103.640	0	0	0	10.656
103.660	0	0	0	10.656
103.680	0	0	0	10.656
103.700	0	0	0	10.656
103.720	0	0	0	10.656
103.740	0	0	0	10.656
103.760	0	0	0	10.656
103.780	0	0	0	10.656
103.800	0	0	0	10.656
103.820	925	0	0	10.656
103.840	2.914	0	0	10.656
103.860	1.278	9	9	10.664
103.880	185	90	90	10.754
103.900	0	0	0	10.754
103.920	0	0	0	10.754
103.940	0	0	0	10.754
103.960	0	0	0	10.754
103.980	0	0	0	10.754
104.000	0	0	0	10.754
104.020	0	0	0	10.754
104.040	0	0	0	10.754
104.060	0	0	0	10.754
104.080	0	2.613	0	10.754
104.100	0	5.235	0	10.754

**COMPENSACIÓN TRANSVERSAL. Alternativa 1**

P.K. inicial	Terraplén	Desmonte	Compensación Parcial (m³)	Compensación Acumulada (m³)
104.120	758	480	480	11.234
104.140	1.156	0	0	11.234
104.160	0	0	0	11.234
104.180	0	0	0	11.234
104.200	733	0	0	11.234
104.220	511	278	278	11.512
104.240	0	2.027	0	11.512
104.260	0	2.235	0	11.512
104.280	0	1.295	0	11.512
104.300	166	248	166	11.678
104.320	2.054	0	0	11.678
104.340	5.001	0	0	11.678
104.360	4.115	0	0	11.678
104.380	4.651	0	0	11.678
104.400	6.692	0	0	11.678
104.420	8.016	0	0	11.678
104.440	9.252	0	0	11.678
104.460	10.576	0	0	11.678
104.480	8.494	0	0	11.678
104.500	0	0	0	11.678
104.520	0	0	0	11.678
104.540	0	0	0	11.678
104.560	0	0	0	11.678
104.580	0	0	0	11.678
104.600	0	0	0	11.678
104.620	0	0	0	11.678
104.640	0	0	0	11.678
104.660	0	0	0	11.678
104.680	0	0	0	11.678
104.700	0	0	0	11.678
104.720	0	0	0	11.678
104.740	0	0	0	11.678
104.760	0	0	0	11.678
104.780	0	0	0	11.678
104.800	0	0	0	11.678
104.820	0	0	0	11.678
104.840	0	0	0	11.678
104.860	0	0	0	11.678
104.880	0	0	0	11.678
104.900	0	0	0	11.678
104.920	0	0	0	11.678
104.940	0	0	0	11.678
104.960	0	0	0	11.678
104.980	884	0	0	11.678
105.000	1.535	40	40	11.718
105.020	600	1.243	600	12.318
105.040	115	3.871	115	12.433
105.060	0	4.947	0	12.433
105.080	0	5.202	0	12.433
105.100	0	5.044	0	12.433
105.120	0	4.007	0	12.433

**COMPENSACIÓN TRANSVERSAL. Alternativa 1**

P.K. inicial	Terraplén	Desmonte	Compensación Parcial (m³)	Compensación Acumulada (m³)
105.140	0	2.385	0	12.433
105.160	0	2.123	0	12.433
105.180	26.276	21.699	21.699	34.133
105.200	0	255	0	34.133
105.220	100	876	100	34.233
105.240	781	158	158	34.391
105.260	999	125	125	34.515
105.280	170	536	170	34.685
105.300	12	809	12	34.696
105.320	0	683	0	34.696
105.340	31	697	31	34.727
105.360	338	353	338	35.066
105.380	1.203	45	45	35.110
105.400	2.286	0	0	35.110
105.420	1.889	0	0	35.111
105.440	592	526	526	35.637
105.460	519	305	305	35.942
105.480	674	83	83	36.025
105.500	799	4	4	36.029
105.520	725	0	0	36.029
105.540	682	1	1	36.030
105.560	842	70	70	36.100
105.580	1.055	141	141	36.240
105.600	791	206	206	36.447
105.620	333	297	297	36.743
105.640	87	471	87	36.830
105.660	21	795	21	36.851
105.680	0	2.362	0	36.851
105.700	0	6.371	0	36.851
105.720	0	0	0	36.851
105.740	0	0	0	36.851
105.760	0	0	0	36.851
105.780	0	0	0	36.851
105.800	0	0	0	36.851
105.820	0	0	0	36.851
105.840	0	0	0	36.851
105.860	0	0	0	36.851
105.880	0	0	0	36.851
105.900	0	0	0	36.851
105.920	0	0	0	36.851
105.940	0	0	0	36.851
105.960	0	0	0	36.851
105.980	0	0	0	36.851
106.000	0	0	0	36.851
106.020	0	0	0	36.851
106.040	0	0	0	36.851
106.060	0	0	0	36.851
106.080	0	0	0	36.851
106.100	0	0	0	36.851
106.120	0	0	0	36.851
106.140	0	0	0	36.851

**COMPENSACIÓN TRANSVERSAL. Alternativa 1**

P.K. inicial	Terraplén	Desmonte	Compensación Parcial (m³)	Compensación Acumulada (m³)
106.160	0	0	0	36.851
106.180	0	0	0	36.851
106.200	0	0	0	36.851
106.220	0	0	0	36.851
106.240	0	0	0	36.851
106.260	0	0	0	36.851
106.280	0	0	0	36.851
106.300	0	0	0	36.851
106.320	0	0	0	36.851
106.340	0	0	0	36.851
106.360	0	0	0	36.851
106.380	0	0	0	36.851
106.400	0	0	0	36.851
106.420	0	0	0	36.851
106.440	0	0	0	36.851
106.460	0	0	0	36.851
106.480	0	0	0	36.851
106.500	0	0	0	36.851
106.520	0	0	0	36.851
106.540	0	0	0	36.851
106.560	0	0	0	36.851
106.580	0	0	0	36.851
106.600	0	0	0	36.851
106.620	0	0	0	36.851
106.640	0	0	0	36.851
106.660	0	4.599	0	36.851
106.680	0	5.814	0	36.851
106.700	0	6.334	0	36.851
106.720	0	4.918	0	36.851
106.740	0	3.126	0	36.851
106.760	0	1.663	0	36.851
106.780	0	703	0	36.851
106.800	234	95	95	36.947
106.820	1.414	0	0	36.947
106.840	2.351	0	0	36.947
106.860	2.991	0	0	36.947
106.880	5.597	172	172	37.119
106.900	2.104	0	0	37.119
106.920	0	0	0	37.119
106.940	0	0	0	37.119
106.960	2.786	0	0	37.119
106.980	2.187	0	0	37.119
107.000	502	182	182	37.301
107.020	0	1.143	0	37.301
107.040	0	1.444	0	37.301
107.060	0	1.106	0	37.301
107.080	3	572	3	37.304
107.100	31	217	31	37.335
107.120	37	165	37	37.372
107.140	34	157	34	37.406
107.160	31	157	31	37.437

**COMPENSACIÓN TRANSVERSAL. Alternativa 1**

P.K. inicial	Terraplén	Desmonte	Compensación Parcial (m³)	Compensación Acumulada (m³)
107.180	30	151	30	37.467
107.200	35	142	35	37.502
107.220	51	163	51	37.553
107.240	107	122	107	37.660
107.260	217	75	75	37.735
107.280	293	56	56	37.791
107.300	321	22	22	37.813
107.320	345	7	7	37.819
107.340	360	1	1	37.821
107.360	267	8	8	37.828
107.380	168	55	55	37.883
107.400	193	76	76	37.959
107.420	308	16	16	37.975
107.440	396	1	1	37.976
107.460	504	0	0	37.976
107.480	724	0	0	37.976
107.500	1.149	0	0	37.976
107.520	314	0	0	37.976
107.540	0	0	0	37.976
107.560	0	0	0	37.976
107.580	0	0	0	37.976
107.600	0	0	0	37.976
107.620	0	0	0	37.976
107.640	0	0	0	37.976
107.660	0	0	0	37.976
107.680	0	0	0	37.976
107.700	0	0	0	37.976
107.720	0	0	0	37.976
107.740	0	0	0	37.976
107.760	0	0	0	37.976
107.780	0	0	0	37.976
107.800	0	0	0	37.976
107.820	0	0	0	37.976
107.840	0	0	0	37.976
107.860	0	0	0	37.976
107.880	0	0	0	37.976
107.900	0	0	0	37.976
107.920	70.048	2.865	2.865	40.842
107.940	0	0	0	40.842
107.960	0	0	0	40.842
107.980	0	0	0	40.842
108.000	0	0	0	40.842
108.020	0	0	0	40.842
108.040	0	0	0	40.842
108.060	0	0	0	40.842
109.393	32	133	32	40.874
109.400	48	290	48	40.922
109.420	90	272	90	41.012
109.440	171	1.249	171	41.183
109.460	241	1.181	241	41.424
109.480	182	827	182	41.606

**COMPENSACIÓN TRANSVERSAL. Alternativa 1**

P.K. inicial	Terraplén	Desmonte	Compensación Parcial (m³)	Compensación Acumulada (m³)
109.500	40	1.163	40	41.645
109.520	5	1.445	5	41.651
109.540	6	1.705	6	41.657
109.560	7	1.698	7	41.664
109.580	14	1.449	14	41.677
109.600	175	414	175	41.852
109.620	734	0	0	41.852
109.640	272	0	0	41.852
109.660	0	0	0	41.852
109.680	0	0	0	41.852
109.700	0	0	0	41.852
109.720	0	0	0	41.852
109.740	0	0	0	41.852
109.760	0	0	0	41.852
109.780	0	0	0	41.852
109.800	0	0	0	41.852
109.820	0	0	0	41.852
109.840	1.371	0	0	41.852
109.860	1.123	0	0	41.852
109.880	866	0	0	41.852
109.900	537	1	1	41.853
109.920	330	0	0	41.853
109.940	239	0	0	41.853
109.960	189	0	0	41.853
109.980	102	0	0	41.853
110.000	173	0	0	41.853
110.020	327	0	0	41.853
110.040	501	0	0	41.853
110.060	558	0	0	41.853
110.080	768	0	0	41.853
110.100	1.109	0	0	41.853
110.120	1.043	0	0	41.853
110.140	641	0	0	41.853
110.160	945	0	0	41.853
110.180	1.184	0	0	41.853
110.200	1.390	0	0	41.853
110.220	1.463	0	0	41.853
110.240	1.417	1	1	41.854
110.260	1.398	0	0	41.855
110.280	1.389	0	0	41.855
110.300	1.410	0	0	41.855
110.320	1.430	0	0	41.855
110.340	1.606	1	1	41.856
110.360	1.718	0	0	41.856
110.380	1.343	0	0	41.856
110.400	51.698	1.640	1.640	43.496
110.420	3.336	834	834	44.330
110.440	878	0	0	44.330
110.460	1.702	1	1	44.330
110.480	1.741	0	0	44.330
110.500	2.020	0	0	44.330

**COMPENSACIÓN TRANSVERSAL. Alternativa 1**

P.K. inicial	Terraplén	Desmorte	Compensación Parcial (m³)	Compensación Acumulada (m³)
110.520	1.580	0	0	44.330
110.540	1.470	0	0	44.330
110.560	1.322	0	0	44.330
110.580	1.089	0	0	44.330
110.600	804	0	0	44.330
110.620	564	0	0	44.330
110.640	362	0	0	44.330
110.660	187	0	0	44.331
110.680	63	7	7	44.337
110.700	7	21	7	44.345
110.720	11	418	11	44.355
110.740	141	306	141	44.496
110.760	189	261	189	44.686
110.780	174	228	174	44.860
110.800	133	180	133	44.993
110.820	108	122	108	45.101
110.840	105	73	73	45.174
110.860	170	44	44	45.218
110.880	216	37	37	45.255
110.900	256	54	54	45.309
110.920	130	92	92	45.401
110.940	42	180	42	45.443
110.960	50	792	50	45.493
110.980	21	798	21	45.514
111.000	3	1.526	3	45.517
111.020	10	744	10	45.527
111.040	10	1.027	10	45.537
111.060	19	1.216	19	45.556
111.080	49	206	49	45.605
111.100	56	523	56	45.661
111.120	56	893	56	45.717
111.140	40	2.180	40	45.757
111.160	43	669	43	45.800
111.180	76	0	0	45.800
111.200	47	11	11	45.811
111.220	14	74	14	45.825
111.240	159	78	78	45.903
111.260	1.405	1	1	45.904
111.280	2.517	0		45.904
111.300	1.308	22		45.904
111.320	23	481		45.904
111.340	5	459		45.904
111.360	23	294		45.904
111.380	278	20		45.904
111.400	9	103		45.904
111.420	9	145		45.904
111.440	54	60		45.904
111.460	155	117		45.904
111.480	248	83		45.904
111.500	99	0		45.904
111.520	2	5		45.904

**COMPENSACIÓN TRANSVERSAL. Alternativa 1**

P.K. inicial	Terraplén	Desmorte	Compensación Parcial (m³)	Compensación Acumulada (m³)
111.540	11	15		45.904
111.560	7	56		45.904
111.580	11.000	971		45.904
111.600	16	138		45.904
111.620	15	90	15	45.919
111.640	110	42	42	45.960
111.660	96	46	46	46.006
111.680	23	31	23	46.029
111.700	19	56	19	46.048
111.720	21	25	21	46.069
111.740	203	96	96	46.165
111.760	334	98	98	46.263
111.780	148	116	116	46.379
111.800	60	163	60	46.438
111.820	16	224	16	46.454
111.840	5	388	5	46.459
111.860	4	131	4	46.463
111.880	10	263	10	46.472
111.900	61	170	61	46.533
111.920	314	5	5	46.538
111.940	407	0	0	46.539
111.960	370	0	0	46.539
111.980	1.060	0	0	46.539
112.000	891	9	9	46.548
112.020	464	0	0	46.548
112.040	310	119	119	46.666
112.060	576	2.171	576	47.242
112.080	541	3.968	541	47.783
112.100	620	3.693	620	48.403
112.120	66	2.529	66	48.469
112.140	56	2.528	56	48.525
112.160	96	3.227	96	48.621
112.180	63	2.657	63	48.684
112.200	229	1.222	229	48.914
112.220	454	1.043	454	49.368
112.240	535	1.467	535	49.902
112.260	546	1.232	546	50.448
112.280	595	148	148	50.596
112.300	738	1	1	50.597
112.320	596	0	0	50.597
112.340	472	0	0	50.597
112.360	102	1	1	50.598
112.380	36	18	18	50.616
112.400	6	30	6	50.621
112.420	17	25	17	50.638
112.440	38	37	37	50.675
112.460	71	27	27	50.702
112.480	41	51	41	50.742
112.500	5	141	5	50.748
112.520	6	203	6	50.754
112.540	14	341	14	50.767



**COMPENSACIÓN TRANSVERSAL. Alternativa 1**

P.K. inicial	Terraplén	Desmonte	Compensación Parcial (m³)	Compensación Acumulada (m³)
112.560	16	323	16	50.784
112.580	4	309	4	50.788
112.600	25	173	25	50.812
112.620	49	88	49	50.862
112.640	71	39	39	50.901
112.660	87	8	8	50.908
112.680	103	0	0	50.908
112.700	98	0	0	50.908
112.720	119	0	0	50.908
112.740	47	0	0	50.908
112.760	27	0	0	50.908
112.780	40	4	4	50.912
112.800	11	77	11	50.923
112.820	9	103	9	50.932
112.840	15	124	15	50.947
112.860	10	128	10	50.957
112.880	10	198	10	50.967
112.900	8	317	8	50.974
112.920	8	186	8	50.982
112.940	6	108	6	50.988
112.960	8	65	8	50.996
112.980	12	49	12	51.008
113.000	10	42	10	51.018
113.020	10	94	10	51.028
113.040	4	87	4	51.032
113.060	3	163	3	51.035
113.080	3	147	3	51.039
113.100	6	109	6	51.045
113.120	44	37	37	51.082
113.140	151	0	0	51.082
113.160	260	0	0	51.082
113.180	176	0	0	51.082
113.200	68	0	0	51.082
113.220	78	0	0	51.082
113.240	56	34	34	51.116
113.260	41	134	41	51.156
113.280	7	370	7	51.164
113.300	7	643	7	51.171
113.320	97	626	97	51.268
113.340	252	286	252	51.519
113.360	531	196	196	51.715
113.380	997	59	59	51.774
113.400	1.055	173	173	51.947
113.420	1.133	144	144	52.092
113.440	944	109	109	52.201
113.460	623	240	240	52.441
113.480	409	446	409	52.850
113.500	429	151	151	53.001
113.520	222	169	169	53.170
113.540	162	282	162	53.332
113.560	83	171	83	53.414

**COMPENSACIÓN TRANSVERSAL. Alternativa 1**

P.K. inicial	Terraplén	Desmonte	Compensación Parcial (m³)	Compensación Acumulada (m³)
113.580	61	75	61	53.476
113.600	3	92	3	53.478
113.620	2	118	2	53.480
113.640	5	68	5	53.485
113.660	59	10	10	53.495
113.680	241	3	3	53.499
113.700	547	0	0	53.499
113.720	907	0	0	53.499
113.740	1.056	0	0	53.499
113.760	1.191	0	0	53.499
113.780	1.583	0	0	53.499
113.800	1.948	0	0	53.499
113.820	2.264	0	0	53.499
113.840	2.536	0	0	53.499
113.860	2.764	0	0	53.499
113.880	2.842	0	0	53.499
113.900	2.989	0	0	53.499
113.920	3.419	0	0	53.499
113.940	3.673	0	0	53.499
113.960	3.683	0	0	53.499
113.980	3.943	0	0	53.499
114.000	110.515	1.114	1.114	54.613
114.020	3.847	0	0	54.613
114.040	3.499	0	0	54.613
114.060	2.904	0	0	54.613
114.080	2.323	0	0	54.613
114.100	2.260	0	0	54.613
114.120	1.970	0	0	54.613
114.140	1.475	0	0	54.613
114.160	1.170	0	0	54.613
114.180	1.136	0	0	54.613
114.200	1.393	0	0	54.613
114.220	1.673	0	0	54.613
114.240	1.972	0	0	54.613
114.260	2.352	0	0	54.613
114.280	2.893	0	0	54.613
114.300	3.134	0	0	54.613
114.320	2.949	0	0	54.613
114.340	2.703	0	0	54.613
114.360	2.010	0	0	54.613
114.380	843	0	0	54.613
114.400	196	0	0	54.613
114.420	14	3	3	54.616
114.440	1	10	1	54.617
114.460	13	4	4	54.621
114.480	57	0	0	54.621
114.500	82	0	0	54.621
114.520	30	124	30	54.651
114.540	78	70	70	54.721
114.560	51	48	48	54.769
114.580	25	21	21	54.790

**COMPENSACIÓN TRANSVERSAL. Alternativa 1**

P.K. inicial	Terraplén	Desmonte	Compensación Parcial (m³)	Compensación Acumulada (m³)
114.600	949	56	56	54.846
114.620	261	170	170	55.016
114.640	311	203	203	55.219
114.660	299	162	162	55.382
114.680	280	98	98	55.480
114.700	319	76	76	55.556
114.720	218	54	54	55.610
114.740	60	299	60	55.670
114.760	4	566	4	55.674
114.780	42	550	42	55.716
114.800	82	663	82	55.798
114.820	67	852	67	55.865
114.840	40	1.130	40	55.905
114.860	23	1.025	23	55.928
114.880	23	950	23	55.951
114.900	23	675	23	55.974
114.920	32	349	32	56.006
114.940	70	492	70	56.076
114.960	93	597	93	56.168
114.980	34	98	34	56.202
115.000	24	60	24	56.226
115.020	35	28	28	56.254
115.040	51	2	2	56.256
115.060	40	7	7	56.262
115.080	13	1	1	56.263
115.100	23	0	0	56.263
115.120	50	0	0	56.263
115.140	70	0	0	56.263
115.160	51	0	0	56.263
115.180	49	0	0	56.263
115.200	25	19	19	56.282
115.220	21	55	21	56.303
115.240	1	110	1	56.304
115.260	15	89	15	56.319
115.280	51	125	51	56.370
115.300	115	88	88	56.458
115.320	231	53	53	56.511
115.340	371	47	47	56.558
115.360	382	34	34	56.592
115.380	367	67	67	56.659
115.400	10	74	10	56.669
115.420	6	350	6	56.675
115.440	3	1.276	3	56.678
115.460	4	2.418	4	56.682
115.480	2	4.317	2	56.684
115.500	1	5.066	1	56.685
115.520	0	389	0	56.685
115.540	1	165	1	56.686
115.560	33	214	33	56.719
115.580	1.125	80	80	56.799
115.600	485	0	0	56.799

**COMPENSACIÓN TRANSVERSAL. Alternativa 1**

P.K. inicial	Terraplén	Desmonte	Compensación Parcial (m³)	Compensación Acumulada (m³)
115.620	2.784	16.232	2.784	59.583
115.640	358	13	13	59.596
115.660	32	811	32	59.628
115.680	2	2.464	2	59.631
115.700	2	3.246	2	59.633
115.720	2	3.449	2	59.636
115.740	3	3.243	3	59.638
115.760	3	3.259	3	59.641
115.780	4	2.731	4	59.645
115.800	221	1.185	221	59.866
115.820	497	8	8	59.874
115.840	0	0	0	59.874
115.860	0	0	0	59.874
115.880	0	0	0	59.874
115.900	0	0	0	59.874
115.920	0	0	0	59.874
115.940	0	0	0	59.874
115.960	0	0	0	59.874
115.980	0	0	0	59.874
116.000	0	0	0	59.874
116.020	458	0	0	59.874
116.040	292	42	42	59.916
116.060	138	113	113	60.029
116.080	121	124	121	60.150
116.100	139	178	139	60.288
116.120	150	248	150	60.439
116.140	209	280	209	60.648
116.160	200	252	200	60.848
116.180	67	291	67	60.915
116.200	3	694	3	60.918
116.220	122	357	122	61.040
116.240	2.326	3	3	61.043
116.260	1.832	0	0	61.043
116.280	838	0	0	61.043
116.300	689	0	0	61.043
116.320	717	0	0	61.043
116.340	708	0	0	61.043
116.360	636	0	0	61.043
116.380	597	0	0	61.043
116.400	557	294	294	61.337
116.420	811	0	0	61.337
116.440	1.007	0	0	61.337
116.460	973	0	0	61.337
116.480	640	1	1	61.338
116.500	218	12	12	61.349
116.520	68	2	2	61.352
116.540	124	0	0	61.352
116.560	258	0	0	61.352
116.580	332	0	0	61.352
116.600	5.035	241	241	61.593
116.620	496	0	0	61.593

**COMPENSACIÓN TRANSVERSAL. Alternativa 1**

P.K. inicial	Terraplén	Desmonte	Compensación Parcial (m³)	Compensación Acumulada (m³)
116.640	563	0	0	61.593
116.660	676	0	0	61.593
116.680	765	0	0	61.593
116.700	768	0	0	61.593
116.720	760	0	0	61.593
116.740	725	0	0	61.593
116.760	734	0	0	61.593
116.780	691	0	0	61.593
116.800	863	372	372	61.965
116.820	290	0	0	61.965
116.840	222	0	0	61.965
116.860	365	0	0	61.965
116.880	646	0	0	61.965
116.900	936	0	0	61.965
116.920	1.419	0	0	61.965
116.940	1.963	0	0	61.965
116.960	2.516	0	0	61.965
116.980	2.869	0	0	61.965
117.000	2.462	0	0	61.965
117.020	1.783	0	0	61.965
117.040	1.355	0	0	61.965
117.060	1.288	0	0	61.965
117.080	1.426	0	0	61.965
117.100	1.694	0	0	61.965
117.120	2.081	0	0	61.965
117.140	2.413	0	0	61.965
117.160	2.725	0	0	61.965
117.180	2.997	0	0	61.965
117.200	3.191	0	0	61.965
117.220	3.418	0	0	61.965
117.240	3.295	0	0	61.965
117.260	2.716	0	0	61.965
117.280	2.267	0	0	61.965
117.300	1.840	0	0	61.965
117.320	953	0	0	61.965
117.340	208	52	52	62.017
117.360	2	475	2	62.019
117.380	0	2.414	0	62.020
117.400	3	6.406	3	62.023
117.420	5	6.053	5	62.028
117.440	3	3.695	3	62.031
117.460	4	1.040	4	62.035
117.480	688	107	107	62.142
117.500	1.821	0	0	62.142
117.520	0	0	0	62.142
117.540	0	0	0	62.142
117.560	0	0	0	62.142
117.580	0	0	0	62.142
117.600	0	0	0	62.142
117.620	0	0	0	62.142
117.640	0	0	0	62.142

**COMPENSACIÓN TRANSVERSAL. Alternativa 1**

P.K. inicial	Terraplén	Desmonte	Compensación Parcial (m³)	Compensación Acumulada (m³)
117.660	0	0	0	62.142
117.680	0	0	0	62.142
117.700	0	0	0	62.142
117.720	0	0	0	62.142
117.740	0	0	0	62.142
117.760	0	0	0	62.142
117.780	0	0	0	62.142
117.800	0	0	0	62.142
117.820	0	0	0	62.142
117.840	0	0	0	62.142
117.860	0	0	0	62.142
117.880	0	0	0	62.142
117.900	3.591	0	0	62.142
117.920	3.810	0	0	62.142
117.940	4.187	0	0	62.142
117.960	4.431	0	0	62.142
117.980	4.289	0	0	62.142
118.000	10.077	726	726	62.868
118.020	1.815	0	0	62.868
118.040	2.514	0	0	62.868
118.060	2.988	0	0	62.868
118.080	3.249	0	0	62.868
118.100	9.299	2.097	2.097	64.964
118.120	2.269	0	0	64.964
118.140	785	0	0	64.965
118.160	82	120	82	65.046
118.180	45	33	33	65.080
118.200	83	0	0	65.080
118.220	85	0	0	65.080
118.240	123	0	0	65.080
118.260	78	0	0	65.080
118.280	63	1	1	65.080
118.300	49	36	36	65.117
118.320	53	52	52	65.168
118.340	63	51	51	65.220
118.360	32	73	32	65.252
118.380	24	121	24	65.276
118.400	23	676	23	65.298
118.420	2	517	2	65.300
118.440	2	350	2	65.302
118.460	5	108	5	65.307
118.480	13	79	13	65.320
118.500	20	82	20	65.340
118.520	31	22	22	65.361
118.540	36	7	7	65.368
118.560	99	1	1	65.369
118.580	197	0	0	65.369
118.600	183	0	0	65.369
118.620	74	4	4	65.373
118.640	5	51	5	65.378
118.660	2	311	2	65.379

**COMPENSACIÓN TRANSVERSAL. Alternativa 1**

P.K. inicial	Terraplén	Desmonte	Compensación Parcial (m³)	Compensación Acumulada (m³)
118.680	2	157	2	65.381
118.700	3	30	3	65.384
118.720	1	10	1	65.385
118.740	27	12	12	65.396
118.760	51	9	9	65.406
118.780	31	17	17	65.423
118.800	12	49	12	65.435
118.820	6	145	6	65.440
118.840	6	256	6	65.447
118.860	2	328	2	65.449
118.880	2	405	2	65.451
118.900	2	592	2	65.454
118.920	3	670	3	65.457
118.940	3	541	3	65.460
118.960	5	348	5	65.464
118.980	2	502	2	65.466
119.000	1	565	1	65.468
119.020	2	457	2	65.470
119.040	3	369	3	65.473
119.060	3	381	3	65.477
119.080	3	252		65.477
119.100	0	40	0	65.477
119.120	1	77		65.477
119.140	43	81	43	65.519
119.160	38	127	38	65.557
119.180	3	199	3	65.560
119.200	3	141	3	65.563
119.220	5	264	5	65.567
119.240	4	484	4	65.571
119.260	5	449	5	65.576
119.280	3	380	3	65.579
119.300	5	293	5	65.584
119.320	7	249	7	65.591
119.340	6	157	6	65.596
119.360	10	46	10	65.607
119.380	55	17	17	65.624
119.400	62	8	8	65.631
119.420	75	16	16	65.648
119.440	232	32	32	65.679
119.460	228	51	51	65.730
119.480	88	65	65	65.795
119.500	6	72	6	65.802
119.520	4	63	4	65.806
119.540	1	49	1	65.807
119.560	1.236	552	552	66.359
119.580	2	103	2	66.361
119.600	2	108	2	66.363
119.620	2	99	2	66.364
119.640	6	74	6	66.370
119.660	4	51	4	66.374
119.680	2	53	2	66.376

**COMPENSACIÓN TRANSVERSAL. Alternativa 1**

P.K. inicial	Terraplén	Desmonte	Compensación Parcial (m³)	Compensación Acumulada (m³)
119.700	4	52	4	66.381
119.720	2	137	2	66.383
119.740	2	157	2	66.385
119.760	16	56	16	66.401
119.780	137	66	66	66.467
119.800	467	62	62	66.529
119.820	420	183	183	66.712
119.840	260	328	260	66.972
119.860	350	337	337	67.309
119.880	272	401	272	67.581
119.900	44	546	44	67.625
119.920	3	700	3	67.628
119.940	1	966	1	67.629
119.960	1.157	1.520	1.157	68.786
119.980	1	630	1	68.786
120.000	10	193	10	68.796
120.020	47	201	47	68.844
120.040	18	630	18	68.862
120.060	3	852	3	68.865
120.080	95	371	95	68.960
120.100	734	43	43	69.002
120.120	2.049	0	0	69.002
120.140	3.136	0	0	69.002
120.160	4.080	0	0	69.002
120.180	4.654	0	0	69.002
120.200	3.830	0	0	69.002
120.220	1.769	262	262	69.264
120.240	173	3.306	173	69.437
120.260	1	7.512	1	69.439
120.280	4	7.012	4	69.442
120.300	5	4.249	5	69.448
120.320	5	2.852	5	69.453
120.340	12	2.168	12	69.465
120.360	1	2.929	1	69.465
120.380	1	1.462	1	69.466
120.400	3	893	3	69.469
120.420	3	1.068	3	69.472
120.440	1	1.828	1	69.474
120.460	1	2.150	1	69.475
120.480	1	1.709	1	69.476
120.500	1	1.298	1	69.477
120.520	778	584	584	70.060
120.540	83	0	0	70.060
120.560	0	0	0	70.060
120.580	0	0	0	70.060
120.600	0	0	0	70.060
120.620	0	0	0	70.060
120.640	0	0	0	70.060
120.660	524	0	0	70.060
120.680	1.250	0	0	70.060
120.700	307	5	5	70.065

**COMPENSACIÓN TRANSVERSAL. Alternativa 1**

P.K. inicial	Terraplén	Desmonte	Compensación Parcial (m³)	Compensación Acumulada (m³)
120.720	185	18	18	70.083
120.740	154	34	34	70.116
120.760	102	61	61	70.178
120.780	118	67	67	70.245
120.800	210	53	53	70.298
120.820	255	25	25	70.323
120.840	173	17	17	70.339
120.860	84	28	28	70.367
120.880	51	45	45	70.412
120.900	84	41	41	70.452
120.920	234	13	13	70.466
120.940	337	0	0	70.466
120.960	296	0	0	70.466
120.980	211	0	0	70.466
121.000	144	0	0	70.466
121.020	68	28	28	70.494
121.040	44	30	30	70.523
121.060	186	2	2	70.526
121.080	474	0	0	70.526
121.100	531	0	0	70.526
121.120	343	0	0	70.526
121.140	242	0	0	70.526
121.160	229	0	0	70.526
121.180	260	0	0	70.526
121.200	146	0	0	70.526
121.220	12	156	12	70.538
121.240	1	314	1	70.539
121.260	4	220	4	70.543
121.280	11	79	11	70.553
121.300	39	2	2	70.555
121.320	65	0	0	70.555
121.340	50	3	3	70.559
121.360	12	145	12	70.571
121.380	4	171	4	70.575
121.400	9	62	9	70.584
121.420	46	47	46	70.630
121.440	263	17	17	70.647
121.460	533	0	0	70.647
121.480	851	0	0	70.647
121.500	1.075	0	0	70.647
121.520	352	0	0	70.647
121.540	0	0	0	70.647
121.560	0	0	0	70.647
121.580	216	20	20	70.667
121.600	110	9	9	70.677
121.620	144	0	0	70.677
121.640	81	12	12	70.689
121.660	227	1	1	70.690
121.680	328	0	0	70.690
121.700	293	0	0	70.690
121.720	443	0	0	70.690

**COMPENSACIÓN TRANSVERSAL. Alternativa 1**

P.K. inicial	Terraplén	Desmonte	Compensación Parcial (m³)	Compensación Acumulada (m³)
121.740	343	0	0	70.690
121.760	262	1	1	70.692
121.780	173	11	11	70.703
121.800	69	30	30	70.733
121.820	37	115	37	70.770
121.840	73	80	73	70.843
121.860	268	6	6	70.849
121.880	196	54	54	70.902
121.900	92	100	92	70.994
121.920	46	78	46	71.040
121.940	43	44	43	71.083
121.960	58	16	16	71.100
121.980	107	8	8	71.107
122.000	166	10	10	71.117
122.020	173	26	26	71.143
122.040	78	29	29	71.172
122.060	32	49	32	71.204
122.080	5	103	5	71.209
122.100	3	292	3	71.211
122.120	3	396	3	71.214
122.140	3	299	3	71.217
122.160	4	198	4	71.221
122.180	21	118	21	71.241
122.200	35	111	35	71.277
122.220	116	37	37	71.313
122.240	184	20	20	71.333
122.260	145	25	25	71.359
122.280	76	64	64	71.423
122.300	36	97	36	71.458
122.320	5	113	5	71.463
122.340	2	108	2	71.465
122.360	8	121	8	71.473
122.380	10	128	10	71.483
122.400	15	81	15	71.497
122.420	10	35	10	71.507
122.440	13	30	13	71.520
122.460	12	24	12	71.532
122.480	8	32	8	71.540
122.500	6	44	6	71.546
122.520	7	32	7	71.553
122.540	4	54	4	71.557
122.560	3	79	3	71.560
122.580	4	64	4	71.565
122.600	1	26	1	71.565
122.620	5	30	5	71.570
122.640	19	15	15	71.585
122.660	38	0	0	71.585
122.680	8	4	4	71.589
122.700	0	37	0	71.589
122.720	2	44	2	71.591
122.740	3	20	3	71.594

**COMPENSACIÓN TRANSVERSAL. Alternativa 1**

P.K. inicial	Terraplén	Desmonte	Compensación Parcial (m³)	Compensación Acumulada (m³)
122.760	11	0	0	71.594
122.780	0	9	0	71.594
122.800	0	15	0	71.594
122.820	1	7	1	71.595
122.840	5	24	5	71.600
122.860	8	66	8	71.608
122.880	9	38	9	71.618
122.900	8	21	8	71.626
122.920	9	35	9	71.635
122.940	14	38	14	71.649
122.960	27	36	27	71.677
122.980	34	31	31	71.707
123.000	11	43	11	71.718
123.020	8	55	8	71.727
123.040	9	26	9	71.736
123.060	17	26	17	71.753
123.080	17	29	17	71.771
123.100	5	64	5	71.776
123.120	10	134	10	71.785
123.140	8	121	8	71.794
123.160	14	109	14	71.808
123.180	8	124	8	71.816
123.200	10	61	10	71.826
123.220	11	68	11	71.837
123.240	7	37	7	71.844
123.260	24	40	24	71.868
123.280	13	82	13	71.881
123.300	12	111	12	71.894
123.320	15	94	15	71.909
123.340	11	101	11	71.920
123.360	5	86	5	71.925
123.380	9	50	9	71.934
123.400	11	45	11	71.945
123.420	9	18	9	71.954
123.440	0	17	0	71.954
123.460	3	4	3	71.957
123.480	8	0	0	71.957
123.500	5	8	5	71.962
123.520	2	19	2	71.964
123.540	7	10	7	71.971
123.560	12	9	9	71.980
123.580	4	3	3	71.983
123.600	0	4	0	71.983
123.620	0	5	0	71.984
123.640	11	0	0	71.984
123.660	24	0	0	71.984
123.680	3	8	3	71.987
123.700	0	21	0	71.988
123.720	0	6	0	71.988
123.740	0	6	0	71.988
123.760	0	10	0	71.988

**COMPENSACIÓN TRANSVERSAL. Alternativa 1**

P.K. inicial	Terraplén	Desmonte	Compensación Parcial (m³)	Compensación Acumulada (m³)
123.780	0	13	0	71.988
123.800	0	17	0	71.988
123.820	0	25	0	71.988
123.840	2	39	2	71.991
123.860	7	60	7	71.997
123.880	6	41	6	72.003
123.900	11	61	11	72.014
123.920	13	106	13	72.027
123.940	11	116	11	72.038
123.960	8	80	8	72.046
123.980	11	23	11	72.057
124.000	9	21	9	72.065
124.020	9	37	9	72.074
124.040	19	56	19	72.093
124.060	68	27	27	72.120
124.080	97	1	1	72.121
124.100	122	0	0	72.121
124.120	162	0	0	72.121
124.140	166	0	0	72.121
124.160	113	7	7	72.128
124.180	11	97	11	72.139
124.200	25	107	25	72.164
124.220	89	87	87	72.251
124.240	102	77	77	72.328
124.260	194	72	72	72.400
124.280	424	99	99	72.499
124.300	864	36	36	72.535
124.320	700	0	0	72.535
124.340	0	0	0	72.535
124.360	0	0	0	72.535
124.380	0	0	0	72.535
124.400	0	0	0	72.535
124.420	0	0	0	72.535
124.440	0	0	0	72.535
124.460	0	0	0	72.535
124.480	0	0	0	72.535
124.500	0	0	0	72.535
124.520	0	0	0	72.535
124.540	0	0	0	72.535
124.560	0	0	0	72.535
124.580	0	0	0	72.535
124.600	0	0	0	72.535
124.620	640	47	47	72.581
124.640	411	92	92	72.673
124.660	294	68	68	72.742
124.680	314	36	36	72.778
124.700	237	5	5	72.783
124.720	77	1	1	72.783
124.740	57	6	6	72.790
124.760	126	11	11	72.800
124.780	166	1	1	72.802

**COMPENSACIÓN TRANSVERSAL. Alternativa 1**

P.K. inicial	Terraplén	Desmote	Compensación Parcial (m³)	Compensación Acumulada (m³)
124.800	13	59	13	72.814
124.820	22	145	22	72.836
124.840	2	195	2	72.838
124.860	53	83	53	72.890
124.880	206	27	27	72.917
124.900	179	30	30	72.947
124.920	35	25	25	72.972
124.940	10	11	10	72.981
124.960	7	60	7	72.988
124.980	5	51	5	72.994
125.000	11	56	11	73.004
125.020	16	4	4	73.008
125.040	101	5	5	73.013
125.060	203	1	1	73.015
125.080	218	0	0	73.015
125.100	112	5	5	73.020
125.120	21	58	21	73.041
125.140	5	91	5	73.045
125.160	6	126	6	73.051
125.180	10	36	10	73.061
125.200	66	4	4	73.065
125.220	138	0	0	73.065
125.240	272	0	0	73.065
125.260	363	0	0	73.065
125.280	262	0	0	73.065
125.300	183	16	16	73.081
125.320	581	113	113	73.193
125.340	198	231	198	73.391
125.360	185	205	185	73.576
125.380	187	101	101	73.677
125.400	0	0	0	73.677
125.420	460	7	7	73.685
125.440	282	206	206	73.891
125.460	685	84	84	73.975
125.480	1.419	0	0	73.975
125.500	1.256	136	136	74.111
125.520	732	614	614	74.725
125.540	215	1.771	215	74.940
125.560	4	3.134	4	74.944
125.580	6	3.781	6	74.950
125.600	10	2.810	10	74.960
125.620	12	2.154	12	74.972
125.640	5	1.905	5	74.977
125.660	3	1.380	3	74.981
125.680	163	612	163	75.144
125.700	690	110	110	75.254
125.720	313	0	0	75.254
125.740	0	0	0	75.254
125.760	0	0	0	75.254
125.780	0	0	0	75.254
125.800	0	0	0	75.254

**COMPENSACIÓN TRANSVERSAL. Alternativa 1**

P.K. inicial	Terraplén	Desmote	Compensación Parcial (m³)	Compensación Acumulada (m³)
125.820	0	0	0	75.254
125.840	0	0	0	75.254
125.860	0	0	0	75.254
125.880	0	0	0	75.254
125.900	0	0	0	75.254
125.920	0	0	0	75.254
125.940	0	0	0	75.254
125.960	0	0	0	75.254
125.980	0	0	0	75.254
126.000	0	0	0	75.254
126.020	0	0	0	75.254
126.040	0	0	0	75.254
126.060	0	0	0	75.254
126.080	0	0	0	75.254
126.100	0	0	0	75.254
126.120	0	0	0	75.254
126.140	0	0	0	75.254
126.160	0	0	0	75.254
126.180	754	0	0	75.254
126.200	1.242	6.075	1.242	76.496
126.220	0	0	0	76.496
126.240	0	0	0	76.496
126.260	0	0	0	76.496
126.280	0	0	0	76.496
126.300	0	0	0	76.496
126.320	0	0	0	76.496
126.340	0	0	0	76.496
126.360	0	0	0	76.496
126.380	0	0	0	76.496
126.400	0	0	0	76.496
126.420	0	0	0	76.496
126.440	0	0	0	76.496
126.460	0	0	0	76.496
126.480	0	0	0	76.496
126.500	0	0	0	76.496
126.520	0	0	0	76.496
126.540	10	4.064	10	76.506
126.560	3	2.373	3	76.509
126.580	61	1.927	61	76.570
126.600	276	1.487	276	76.846
126.620	796	557	557	77.403
126.640	1.017	502	502	77.905
126.660	939	400	400	78.305
126.680	808	356	356	78.661
126.700	214	1.045	214	78.875
126.720	1	2.622	1	78.876
126.740	1	4.705	1	78.877
126.760	1	4.918	1	78.878
126.780	36	2.340	36	78.914
126.800	284	585	284	79.198
126.820	389	538	389	79.587

**COMPENSACIÓN TRANSVERSAL. Alternativa 1**

P.K. inicial	Terraplén	Desmonte	Compensación Parcial (m³)	Compensación Acumulada (m³)
126.840	463	501	463	80.050
126.860	435	470	435	80.486
126.880	553	368	368	80.854
126.900	433	308	308	81.162
126.920	179	464	179	81.341
126.940	39	1.393	39	81.379
126.960	3	1.463	3	81.382
126.980	5	717	5	81.388
127.000	3	1.200	3	81.391
127.020	3	1.914	3	81.394
127.040	3	2.456	3	81.396
127.060	3	2.571	3	81.399
127.080	3	2.161	3	81.402
127.100	8	1.439	8	81.409
127.120	9	631	9	81.419
127.140	17	338	17	81.436
127.160	29	399	29	81.465
127.180	45	42	42	81.507
127.200	69	13	13	81.519
127.220	18	43	18	81.538
127.240	2	1.453	2	81.540
127.260	5	3.176	5	81.545
127.280	3	4.246	3	81.548
127.300	3	5.208	3	81.550
127.320	3	5.669	3	81.553
127.340	4	5.223	4	81.557
127.360	3	4.653	3	81.560
127.380	2	3.936	2	81.562
127.400	3	2.752	3	81.566
127.420	3	1.555	3	81.569
127.440	3	717	3	81.572
127.460	22	289	22	81.594
127.480	233	119	119	81.713
127.500	472	62	62	81.775
127.520	274	32	32	81.808
127.540	259	8	8	81.815
127.560	200	3	3	81.818
127.580	101	1	1	81.820
127.600	88	2	2	81.821
127.620	96	15	15	81.836
127.640	144	3	3	81.840
127.660	137	0	0	81.840
127.680	189	0	0	81.841
127.700	152	7	7	81.848
127.720	31	42	31	81.878
127.740	115	44	44	81.923
127.760	169	33	33	81.955
127.780	106	28	28	81.983
127.800	2	49	2	81.985
127.820	3	65	3	81.988
127.840	131	61	61	82.049

**COMPENSACIÓN TRANSVERSAL. Alternativa 1**

P.K. inicial	Terraplén	Desmonte	Compensación Parcial (m³)	Compensación Acumulada (m³)
127.860	574	3	3	82.052
127.880	1.586	0	0	82.052
127.900	3.158	0	0	82.052
127.920	3.055	0	0	82.052
127.940	1.106	0	0	82.052
127.960	217	0	0	82.052
127.980	38	16	16	82.068
128.000	35	94	35	82.103
128.020	99	74	74	82.177
128.040	68	49	49	82.226
128.060	17	27	17	82.244
128.080	2	51	2	82.245
128.100	3	60	3	82.248
128.120	3	47	3	82.252
128.140	979	145	145	82.397
128.160	23	35	23	82.420
128.180	2	20	2	82.422
128.200	286	6	6	82.428
128.220	36	14	14	82.443
128.240	8	46	8	82.451
128.260	5	51	5	82.455
128.280	4	55	4	82.459
128.300	6	44	6	82.466
128.320	5	50	5	82.471
128.340	54	9	9	82.480
128.360	3	26	3	82.483
128.380	22	30	22	82.505
128.400	1	191	1	82.506
128.420	9	125	9	82.515
128.440	43	6	6	82.520
128.460	169	0	0	82.520
128.480	221	0	0	82.520
128.500	107	0	0	82.521
128.520	94	0	0	82.521
128.540	43	2	2	82.523
128.560	3	58	3	82.526
128.580	3	105	3	82.529
128.600	8	65	8	82.538
128.620	86	54	54	82.592
128.640	456	1	1	82.592
128.660	157	127	127	82.719
128.680	9	287	9	82.728
128.700	141	416	141	82.869
128.720	491	144	144	83.013
128.740	1.056	1	1	83.014
128.760	1.475	0	0	83.014
128.780	885	0	0	83.014
128.800	143	104	104	83.118
128.820	10	364	10	83.128
128.840	30	296	30	83.157
128.860	64	452	64	83.221



**COMPENSACIÓN TRANSVERSAL. Alternativa 1**

P.K. inicial	Terraplén	Desmonte	Compensación Parcial (m³)	Compensación Acumulada (m³)
128.880	6	507	6	83.226
128.900	90	265	90	83.316
128.920	322	29	29	83.345
128.940	567	1	1	83.346
128.960	1.857	59	59	83.405
128.980	1	666	1	83.406
129.000	2	306	2	83.408
129.020	2	73	2	83.410
129.040	56	40	40	83.449
129.060	41	518	41	83.490
129.080	1	2.484	1	83.491
129.100	0	3.440	0	83.492
129.120	0	0	0	83.492
129.140	0	0	0	83.492
129.160	0	0	0	83.492
129.180	0	0	0	83.492
129.200	0	0	0	83.492
129.220	0	0	0	83.492
129.240	0	0	0	83.492
129.260	0	0	0	83.492
129.280	0	0	0	83.492
129.300	2	129	2	83.494
129.320	1	161	1	83.495
129.340	3	111	3	83.498
129.360	3	83	3	83.502
129.380	1	96	1	83.502
129.400	1	78	1	83.503
129.420	12	46	12	83.515
129.440	15	69	15	83.530
129.460	0	169	0	83.530
129.480	1	247	1	83.531
129.500	1	2.000	1	83.532
129.520	1	1.185	1	83.532
129.540	0	0	0	83.532
129.560	0	0	0	83.532
129.580	0	0	0	83.532
129.600	0	0	0	83.532
129.620	0	0	0	83.532
129.640	0	0	0	83.532
129.660	0	0	0	83.532
129.680	0	0	0	83.532
129.700	0	0	0	83.532
129.720	0	0	0	83.532
129.740	0	0	0	83.532
129.760	3	0	0	83.533
129.780	6	0	0	83.533
129.800	18	13	13	83.546
129.820	8	128	8	83.555
129.840	1	277	1	83.556
129.860	1	240	1	83.556
129.880	1	163	1	83.557

**COMPENSACIÓN TRANSVERSAL. Alternativa 1**

P.K. inicial	Terraplén	Desmonte	Compensación Parcial (m³)	Compensación Acumulada (m³)
129.900	0	70	0	83.557
129.920	1	64	1	83.558
129.940	2	58	2	83.560
129.960	4	16	4	83.564
129.980	11	0	0	83.564
130.000	30	0	0	83.564
130.020	60	0	0	83.564
130.040	80	1	1	83.565
130.060	48	2	2	83.567
130.080	13	29	13	83.579
130.100	0	28	0	83.580
130.120	0	118	0	83.580
130.140	1	131	1	83.581
130.160	1	85	1	83.582
130.180	0	4.820	0	83.582
130.200	0	0	0	83.582
130.220	0	0	0	83.582
130.240	0	0	0	83.582
130.260	0	0	0	83.582
130.280	0	0	0	83.582
130.300	0	0	0	83.582
130.320	0	0	0	83.582
130.340	0	0	0	83.582
130.360	0	0	0	83.582
130.380	0	0	0	83.582
130.400	1	29	1	83.584
130.420	63	54	54	83.638
130.440	44	55	44	83.682
130.460	24	57	24	83.705
130.480	79	69	69	83.774
130.500	28	143	28	83.802
130.520	109	136	109	83.911
130.540	204	83	83	83.994
130.560	199	66	66	84.059
130.580	51	63	51	84.110
130.600	12	64	12	84.122
130.620	0	59	0	84.122
130.640	1	86	1	84.123
130.660	24	98	24	84.147
130.680	22	97	22	84.169
130.700	41	102	41	84.210
130.720	58	102	58	84.269
130.740	97	81	81	84.349
130.760	187	105	105	84.454
130.780	219	85	85	84.540
130.800	1	62	1	84.541
130.820	1	54	1	84.542
130.840	1	55	1	84.543
130.860	1	37	1	84.543
130.880	0	28	0	84.544
130.900	1	33	1	84.544

**COMPENSACIÓN TRANSVERSAL. Alternativa 1**

P.K. inicial	Terraplén	Desmonte	Compensación Parcial (m³)	Compensación Acumulada (m³)
130.920	2	24	2	84.547
130.940	17	11	11	84.558
130.960	31	8	8	84.566
130.980	44	8	8	84.573
131.000	35	9	9	84.582
131.020	18	13	13	84.595
131.040	125	63	63	84.658
131.060	0	748	0	84.658
131.080	2	2.210	2	84.660
131.100	3	2.144	3	84.664
131.120	6	1.930	6	84.669
131.140	3	1.800	3	84.672
131.160	2	1.413	2	84.675
131.180	0	690	0	84.675
131.200	0	225	0	84.675
131.220	1	127	1	84.676
131.240	104	67	67	84.743
131.260	104	38	38	84.781
131.280	268	17	17	84.797
131.300	317	18	18	84.815
131.320	343	18	18	84.833
131.340	213	23	23	84.856
131.360	177	34	34	84.890
131.380	148	44	44	84.934
131.400	134	51	51	84.985
131.420	112	57	57	85.042
131.440	97	62	62	85.104
131.460	24	90	24	85.128
131.480	1	130	1	85.129
131.500	60	134	60	85.189
131.520	79	68	68	85.257
131.540	57	25	25	85.283
131.560	10	37	10	85.293
131.580	1	36	1	85.294
131.600	5	31	5	85.298
131.620	21	20	20	85.318
131.640	31	18	18	85.336
131.660	61	15	15	85.351
131.680	23	14	14	85.365
131.700	5	16	5	85.370
131.720	30	16	16	85.386
131.740	0	10	0	85.386
131.760	4	7	4	85.390
131.780	11	11	11	85.401
131.800	16	15	15	85.415
131.820	16	14	14	85.430
131.840	21	13	13	85.443
131.860	25	14	14	85.457
131.880	35	15	15	85.472
131.900	36	39	36	85.508
131.920	13	50	13	85.521

**COMPENSACIÓN TRANSVERSAL. Alternativa 1**

P.K. inicial	Terraplén	Desmonte	Compensación Parcial (m³)	Compensación Acumulada (m³)
131.940	5	49	5	85.526
131.960	14	61	14	85.540
131.980	23	57	23	85.563
132.000	21	61	21	85.584
132.020	21	65	21	85.605
132.040	60	64	60	85.665
132.060	63	70	63	85.728
132.080	53	73	53	85.781
132.100	51	73	51	85.832
132.120	24	67	24	85.856
132.140	47	66	47	85.903
132.160	84	64	64	85.967
132.180	69	67	67	86.035
132.200	44	72	44	86.078
132.220	350	41	41	86.120
132.240	1.275	14	14	86.134
132.260	3.168	2	2	86.136
132.280	1	0	0	86.136
132.300	0	0	0	86.136
132.320	0	0	0	86.136
132.340	0	0	0	86.136
132.360	0	0	0	86.136
132.380	0	0	0	86.136
132.400	0	0	0	86.136
132.420	0	0	0	86.136
132.440	0	0	0	86.136
132.460	3.051	0	0	86.136
132.480	1.535	3	3	86.139
132.500	930	42	42	86.181
132.520	460	24	24	86.206
132.540	151	168	151	86.356
132.560	13	60	13	86.369
132.580	11	71	11	86.380
132.600	23	59	23	86.403
132.620	53	41	41	86.444
132.640	69	39	39	86.483
132.660	123	45	45	86.528
132.680	61	57	57	86.585
132.700	7	81	7	86.591
132.720	1	89	1	86.593
132.740	1	114	1	86.594
132.760	1	149	1	86.594
132.780	3	132	3	86.597
132.800	41	122	41	86.638
132.820	69	103	69	86.708
132.840	74	111	74	86.781
132.860	28	64	28	86.809
132.880	31	55	31	86.840
132.900	128	53	53	86.893
132.920	276	38	38	86.931
132.940	519	35	35	86.966

**COMPENSACIÓN TRANSVERSAL. Alternativa 1**

P.K. inicial	Terraplén	Desmonte	Compensación Parcial (m³)	Compensación Acumulada (m³)
132.960	740	53	53	87.019
132.980	531	88	88	87.107
133.000	531	89	89	87.195
133.020	577	87	87	87.282
133.040	487	87	87	87.369
133.060	419	82	82	87.451
133.080	550	66	66	87.518
133.100	689	56	56	87.574
133.120	751	57	57	87.631
133.140	818	62	62	87.693
133.160	324	57	57	87.750
133.180	7	79	7	87.756
133.200	1	101	1	87.758
133.220	0	126	0	87.758
133.240	5	109	5	87.762
133.260	16	95	16	87.778
133.280	2	126	2	87.780
133.300	0	131	0	87.781
133.320	1	137	1	87.782
133.340	1	113	1	87.783
133.360	0	62	0	87.783
133.380	6	56	6	87.788
133.400	14	104	14	87.803
133.420	65	107	65	87.868
133.440	44	113	44	87.912
133.460	13	104	13	87.925
133.480	50	79	50	87.975
133.500	133	87	87	88.062
133.520	125	176	125	88.187
133.540	77	66	66	88.253
133.560	33	174	33	88.286
133.580	50	345	50	88.336
133.600	21	403	21	88.357
133.620	1	331	1	88.358
133.640	12	282	12	88.371
133.660	20	229	20	88.390
133.680	44	181	44	88.435
133.700	33	120	33	88.468
133.720	1	203	1	88.469
133.740	5	146	5	88.474
133.760	30	137	30	88.504
133.780	48	124	48	88.551
133.800	13	143	13	88.564
133.820	2	135	2	88.567
133.840	31	81	31	88.598
133.860	16	69	16	88.614
133.880	14	61	14	88.628
133.900	7	66	7	88.635
133.920	1	89	1	88.636
133.940	4	128	4	88.640
133.960	10	99	10	88.650

**COMPENSACIÓN TRANSVERSAL. Alternativa 1**

P.K. inicial	Terraplén	Desmonte	Compensación Parcial (m³)	Compensación Acumulada (m³)
133.980	7	92	7	88.657
134.000	1	128	1	88.658
134.020	7	209	7	88.665
134.040	3	184	3	88.668
134.060	3	27	3	88.671
134.080	40	18	18	88.689
134.100	27	48	27	88.716
134.120	6	98	6	88.722
134.140	0	111	0	88.722
134.160	7	131	7	88.729
134.180	5	143	5	88.734
134.200	1	93	1	88.735
134.220	1	56	1	88.735
134.240	0	26	0	88.735
134.260	0	22	0	88.735
134.280	0	28	0	88.735
134.300	1	143	1	88.736
134.320	1	390	1	88.738
134.340	1	521	1	88.739
134.360	2	324	2	88.740
134.380	1	197	1	88.742
134.400	2	134	2	88.743
134.420	1	103	1	88.744
134.440	2	253	2	88.746
134.460	3	165	3	88.750
134.480	2	107	2	88.752
134.500	2	104	2	88.754
134.520	2	104	2	88.755
134.540	3	95	3	88.758
134.560	6	86	6	88.764
134.580	1	90	1	88.766
134.600	1	98	1	88.766
134.620	1	97	1	88.768
134.640	1	93	1	88.769
134.660	2	87	2	88.771
134.680	0	80	0	88.772
134.700	0	74	0	88.772
134.720	2	78	2	88.774
134.740	1	89	1	88.775
134.760	1	91	1	88.776
134.780	1	98	1	88.777
134.800	1	103	1	88.778
134.820	1	104	1	88.778
134.840	3	97	3	88.781
134.860	2	87	2	88.782
134.880	1	74	1	88.784
134.900	1	54	1	88.785
134.920	1	48	1	88.786
134.940	1	49	1	88.787
134.960	2	59	2	88.789
134.980	2	76	2	88.791

**COMPENSACIÓN TRANSVERSAL. Alternativa 1**

P.K. inicial	Terraplén	Desmorte	Compensación Parcial (m <sup>3</sup> )	Compensación Acumulada (m <sup>3</sup> )
135.000	1	82	1	88.791
135.020	1	89	1	88.792
135.040	3	123	3	88.795
135.060	4	132	4	88.798
135.080	3	114	3	88.801
135.100	2	103	2	88.803
135.120	2	164	2	88.805
135.140	2	163	2	88.806
135.160	1	101	1	88.808
135.180	1	98	1	88.809
135.200	1	103	1	88.810
135.220	1	131	1	88.812
135.240	2	198	2	88.813
135.260	2	136	2	88.815
135.280	3	110	3	88.819
135.300	2	110	2	88.820
135.320	1	105	1	88.821
135.340	3	120	3	88.824
135.360	6	195	6	88.830
135.380	153	86	86	88.916
135.400	345	63	63	88.979
135.420	178	68	68	89.047
135.440	0	98	0	89.047
135.460	3	121	3	89.050
135.480	0	38	0	89.050

*Alternativa 2*









Movimiento de tierras. Alternativa 2

TIERRA VEGETAL (m3) table with columns: P.K. inicial, P.K. final, T.V. acumulada. Rows 102.480 to 104.280.

DESMONTE, TERRAPLEN Y DIAGRAMA DE MASAS (m3)

Main construction table with columns: Terraplén, Desmonte, Excavación túnel, Suelo Seleccionado 2, Suelo Estabilizado 3, Tierra marginal, Relleno Total, Excavación total, Diagrama de masas. Rows 136.297 to 151.831.

Movimiento de tierras. Alternativa 2

TIERRA VEGETAL (m3) table with columns: P.K. inicial, P.K. final, T.V. acumulada. Rows 104.300 to 106.100.

DESMONTE, TERRAPLEN Y DIAGRAMA DE MASAS (m3)

Main construction table with columns: Terraplén, Desmonte, Excavación túnel, Suelo Seleccionado 2, Suelo Estabilizado 3, Tierra marginal, Relleno Total, Excavación total, Diagrama de masas. Rows 151.831 to 167.371.





Movimiento de tierras. Alternativa 2

Table with columns: TIERRA VEGETAL (m³), P.K. inicial, P.K. final, T.V. acumulada. Rows 113320 to 115120.

Table with columns: DESMONTE, TERRAPLEN Y DIAGRAMA DE MASAS (m³), Terraplén, Desmonte, Excavación túnel, Suelo Seleccionado 2, Suelo Estabilizado 3, Tierra marginal, Relleno Total, Excavación total, Diagrama de masas. Rows 442.698 to 461.292.

Movimiento de tierras. Alternativa 2

Table with columns: TIERRA VEGETAL (m³), P.K. inicial, P.K. final, T.V. acumulada. Rows 115140 to 116940.

Table with columns: DESMONTE, TERRAPLEN Y DIAGRAMA DE MASAS (m³), Terraplén, Desmonte, Excavación túnel, Suelo Seleccionado 2, Suelo Estabilizado 3, Tierra marginal, Relleno Total, Excavación total, Diagrama de masas. Rows 461.362 to 501.768.

TRAMO-B













Movimiento de tierras. Alternativa 2

TIERRA VEGETAL (m3)		
P.K. inicial	P.K. final	T.V. acumulada
135160	135180	195.609
135180	135200	195.630
135200	135220	195.653
135220	135240	195.677
135240	135260	195.716
135260	135280	195.763
135280	135300	195.794
135300	135320	195.803
135320	135340	195.819
135340	135347,657	195.824

DESMONTE, TERRAPLEN Y DIAGRAMA DE MASAS (m3)								
Terraplén	Desmonte	Excavación túnel	Suelo Seleccionado 2	Suelo Estabilizado 3	Tierra marginal	Relleno Total	Excavación total	Diagrama de masas
								Coef. Paso = 1,182
793.766	825.518	518.944	7.121	111.220	5.278	0	58	686.875
793.767	825.623	518.944	7.121	111.291	5.278	0	53	686.928
793.769	825.743	518.944	7.121	111.362	5.278	0	68	686.996
793.776	825.938	518.944	7.121	111.434	5.278	0	152	687.148
793.928	826.024	518.944	7.121	111.505	5.278	122	0	687.026
794.274	826.087	518.944	7.121	111.575	5.278	342	0	686.685
794.452	826.155	518.944	7.121	111.646	5.278	169	0	686.516
794.452	826.252	518.944	7.121	111.718	5.278	0	43	686.559
794.455	826.373	518.944	7.121	111.794	5.278	0	64	686.623
794.455	826.411	518.944	7.121	111.871	5.278	33	0	686.590

**COMPENSACIÓN TRANSVERSAL. Alternativa 2**

P.K. inicial	Terraplén	Desmorte	Compensación Parcial (m³)	Compensación Acumulada (m³)
95.204	211	152	152	152
95.220	211	152	152	304
95.240	211	152	152	456
95.260	211	152	152	608
95.280	211	152	152	760
95.300	211	152	152	912
95.320	211	152	152	1.064
95.340	211	152	152	1.216
95.360	211	152	152	1.368
95.380	211	152	152	1.520
95.400	211	152	152	1.671
95.420	211	152	152	1.823
95.440	211	152	152	1.975
95.460	211	152	152	2.127
95.480	211	152	152	2.279
95.500	211	152	152	2.431
95.520	211	152	152	2.583
95.540	211	152	152	2.735
95.560	211	152	152	2.887
95.580	211	152	152	3.039
95.600	211	152	152	3.191
95.620	211	152	152	3.343
95.640	211	152	152	3.495
95.660	211	152	152	3.647
95.680	211	152	152	3.799
95.700	211	152	152	3.951
95.720	211	152	152	4.103
95.740	211	152	152	4.255
95.760	247	218	218	4.472
95.780	211	152	152	4.624
95.800	211	152	152	4.776
95.820	211	152	152	4.928
95.840	211	152	152	5.080
95.860	211	152	152	5.232
95.880	211	152	152	5.384
95.900	211	152	152	5.536
95.920	67	76	67	5.603
95.940	230	118	118	5.722
95.960	118	376	118	5.839
95.980	1	1.288	1	5.840
96.000	2	1.391	2	5.842
96.020	252	340	252	6.094
96.040	2.467	0	0	6.094
96.060	2.495	0	0	6.094
96.080	0	0	0	6.094
96.100	0	0	0	6.094
96.120	0	0	0	6.094
96.140	0	0	0	6.094
96.160	0	0	0	6.094
96.180	0	0	0	6.094
96.200	0	0	0	6.094

**COMPENSACIÓN TRANSVERSAL. Alternativa 2**

P.K. inicial	Terraplén	Desmorte	Compensación Parcial (m³)	Compensación Acumulada (m³)
96.220	0	0	0	6.094
96.240	2.651	0	0	6.094
96.260	3.114	0	0	6.094
96.280	1.264	0	0	6.094
96.300	219	467	219	6.313
96.320	2	1.954	2	6.316
96.340	1	4.246	1	6.317
96.360	1	5.536	1	6.318
96.380	0	0	0	6.318
96.400	0	0	0	6.318
96.420	0	0	0	6.318
96.440	0	0	0	6.318
96.460	0	0	0	6.318
96.480	0	0	0	6.318
96.500	0	0	0	6.318
96.520	0	0	0	6.318
96.540	0	0	0	6.318
96.560	0	0	0	6.318
96.580	0	0	0	6.318
96.600	0	0	0	6.318
96.620	0	0	0	6.318
96.640	0	0	0	6.318
96.660	0	0	0	6.318
96.680	0	0	0	6.318
96.700	0	0	0	6.318
96.720	0	0	0	6.318
96.740	0	0	0	6.318
96.760	0	0	0	6.318
96.780	0	0	0	6.318
96.800	0	0	0	6.318
96.820	0	0	0	6.318
96.840	0	0	0	6.318
96.860	0	0	0	6.318
96.880	0	0	0	6.318
96.900	0	0	0	6.318
96.920	0	0	0	6.318
96.940	0	0	0	6.318
96.960	0	0	0	6.318
96.980	0	0	0	6.318
97.000	0	0	0	6.318
97.020	0	0	0	6.318
97.040	0	0	0	6.318
97.060	0	0	0	6.318
97.080	0	0	0	6.318
97.100	0	0	0	6.318
97.120	0	0	0	6.318
97.140	0	0	0	6.318
97.160	0	0	0	6.318
97.180	0	0	0	6.318
97.200	0	0	0	6.318
97.220	0	0	0	6.318

**COMPENSACIÓN TRANSVERSAL. Alternativa 2**

P.K. inicial	Terraplén	Desmorte	Compensación Parcial (m³)	Compensación Acumulada (m³)
97.240	0	0	0	6.318
97.260	0	0	0	6.318
97.280	0	0	0	6.318
97.300	0	0	0	6.318
97.320	0	0	0	6.318
97.340	0	0	0	6.318
97.360	0	0	0	6.318
97.380	0	0	0	6.318
97.400	0	0	0	6.318
97.420	0	0	0	6.318
97.440	0	0	0	6.318
97.460	0	0	0	6.318
97.480	0	0	0	6.318
97.500	0	0	0	6.318
97.520	0	0	0	6.318
97.540	0	0	0	6.318
97.560	0	0	0	6.318
97.580	0	0	0	6.318
97.600	0	0	0	6.318
97.620	0	0	0	6.318
97.640	0	0	0	6.318
97.660	0	0	0	6.318
97.680	0	0	0	6.318
97.700	0	0	0	6.318
97.720	0	0	0	6.318
97.740	0	0	0	6.318
97.760	0	0	0	6.318
97.780	0	0	0	6.318
97.800	0	0	0	6.318
97.820	0	0	0	6.318
97.840	0	0	0	6.318
97.860	0	0	0	6.318
97.880	0	0	0	6.318
97.900	0	0	0	6.318
97.920	0	0	0	6.318
97.940	0	0	0	6.318
97.960	0	0	0	6.318
97.980	0	0	0	6.318
98.000	0	0	0	6.318
98.020	0	0	0	6.318
98.040	0	0	0	6.318
98.060	0	0	0	6.318
98.080	1	4.386	1	6.319
98.100	1.191	1.263	1.191	7.510
98.120	186	63	63	7.572
98.140	174	257	174	7.746
98.160	26	2.200	26	7.772
98.180	2	4.055	2	7.774
98.200	3	4.270	3	7.777
98.220	2	3.749	2	7.780
98.240	3	2.393	3	7.782

**COMPENSACIÓN TRANSVERSAL. Alternativa 2**

P.K. inicial	Terraplén	Desmorte	Compensación Parcial (m³)	Compensación Acumulada (m³)
98.260	3	1.699	3	7.785
98.280	2	3.073	2	7.787
98.300	273	9.523	273	8.061
98.320	1	1.899	1	8.061
98.340	0	0	0	8.061
98.360	0	0	0	8.061
98.380	0	0	0	8.061
98.400	0	0	0	8.061
98.420	0	0	0	8.061
98.440	0	0	0	8.061
98.460	0	0	0	8.061
98.480	0	0	0	8.061
98.500	0	0	0	8.061
98.520	0	0	0	8.061
98.540	0	0	0	8.061
98.560	0	0	0	8.061
98.580	0	0	0	8.061
98.600	0	0	0	8.061
98.620	0	0	0	8.061
98.640	0	0	0	8.061
98.660	1	2.248	1	8.062
98.680	3	4.682	3	8.065
98.700	0	2.072	0	8.065
98.720	5	1.819	5	8.070
98.740	1	1.330	1	8.072
98.760	1	823	1	8.073
98.780	1	612	1	8.074
98.800	1	531	1	8.075
98.820	1	542	1	8.076
98.840	1	545	1	8.077
98.860	1	774	1	8.079
98.880	1	786	1	8.080
98.900	1	661	1	8.081
98.920	2	537	2	8.083
98.940	4	288	4	8.088
98.960	51	132	51	8.138
98.980	244	33	33	8.172
99.000	404	35	35	8.206
99.020	445	31	31	8.237
99.040	193	33	33	8.270
99.060	77	24	24	8.293
99.080	107	24	24	8.317
99.100	1.948	0	0	8.317
99.120	2.875	0	0	8.317
99.140	3.176	0	0	8.317
99.160	1.998	0	0	8.317
99.180	2.312	0	0	8.317
99.200	4.674	0	0	8.317
99.220	7.973	0	0	8.317
99.240	8.171	0	0	8.317
99.260	9.421	0	0	8.317

**COMPENSACIÓN TRANSVERSAL. Alternativa 2**

P.K. inicial	Terraplén	Desmorte	Compensación Parcial (m³)	Compensación Acumulada (m³)
99.280	7.400	0	0	8.317
99.300	2.429	0	0	8.317
99.320	802	0	0	8.317
99.340	317	285	285	8.602
99.360	11	2.172	11	8.614
99.380	3	4.515	3	8.616
99.400	296	5.937	296	8.912
99.420	3	3.408	3	8.915
99.440	4	2.066	4	8.919
99.460	8	997	8	8.927
99.480	4	596	4	8.931
99.500	4	415	4	8.935
99.520	4	298	4	8.939
99.540	2	246	2	8.941
99.560	2	279	2	8.943
99.580	2	681	2	8.945
99.600	7	1.072	7	8.952
99.620	3	1.267	3	8.954
99.640	2	874	2	8.957
99.660	7	464	7	8.964
99.680	281	141	141	9.105
99.700	412	11	11	9.116
99.720	1.313	0	0	9.116
99.740	2.322	0	0	9.116
99.760	4.228	0	0	9.116
99.780	6.855	0	0	9.116
99.800	0	0	0	9.116
99.820	0	0	0	9.116
99.840	0	0	0	9.116
99.860	0	0	0	9.116
99.880	0	0	0	9.116
99.900	0	0	0	9.116
99.920	0	0	0	9.116
99.940	0	0	0	9.116
99.960	0	0	0	9.116
99.980	0	0	0	9.116
100.000	0	0	0	9.116
100.020	0	0	0	9.116
100.040	0	0	0	9.116
100.060	0	0	0	9.116
100.080	4.120	0	0	9.116
100.100	338	0	0	9.116
100.120	50	5	5	9.121
100.140	7	107	7	9.128
100.160	5	264	5	9.132
100.180	16	185	16	9.148
100.200	0	0	0	9.148
100.220	0	0	0	9.148
100.240	0	0	0	9.148
100.260	0	0	0	9.148
100.280	240	33	33	9.181

**COMPENSACIÓN TRANSVERSAL. Alternativa 2**

P.K. inicial	Terraplén	Desmorte	Compensación Parcial (m³)	Compensación Acumulada (m³)
100.300	468	118	118	9.299
100.320	845	13	13	9.312
100.340	2.462	0	0	9.312
100.360	6.225	0	0	9.312
100.380	0	0	0	9.312
100.400	0	0	0	9.312
100.420	0	0	0	9.312
100.440	0	0	0	9.312
100.460	0	0	0	9.312
100.480	0	0	0	9.312
100.500	2.000	0	0	9.312
100.520	1.727	0	0	9.312
100.540	711	0	0	9.312
100.560	422	0	0	9.312
100.580	181	3	3	9.315
100.600	144	2	2	9.316
100.620	419	9	9	9.325
100.640	999	18	18	9.343
100.660	1.248	3	3	9.345
100.680	1.598	0	0	9.345
100.700	2.290	0	0	9.345
100.720	2.874	0	0	9.345
100.740	2.724	0	0	9.345
100.760	1.473	0	0	9.345
100.780	448	0	0	9.345
100.800	82	68	68	9.414
100.820	6	1.135	6	9.419
100.840	3	1.722	3	9.422
100.860	2	2.025	2	9.424
100.880	1	1.994	1	9.425
100.900	519	1.861	519	9.943
100.920	3	1.946	3	9.946
100.940	2	2.865	2	9.947
100.960	3	4.373	3	9.951
100.980	3	6.768	3	9.954
101.000	1	4.696	1	9.955
101.020	0	0	0	9.955
101.040	0	0	0	9.955
101.060	0	0	0	9.955
101.080	0	0	0	9.955
101.100	0	0	0	9.955
101.120	0	0	0	9.955
101.140	0	0	0	9.955
101.160	0	0	0	9.955
101.180	0	0	0	9.955
101.200	0	0	0	9.955
101.220	0	0	0	9.955
101.240	0	0	0	9.955
101.260	0	0	0	9.955
101.280	0	0	0	9.955
101.300	0	0	0	9.955

**COMPENSACIÓN TRANSVERSAL. Alternativa 2**

P.K. inicial	Terraplén	Desmorte	Compensación Parcial (m <sup>3</sup> )	Compensación Acumulada (m <sup>3</sup> )
101.320	0	0	0	9.955
101.340	0	0	0	9.955
101.360	0	0	0	9.955
101.380	0	0	0	9.955
101.400	0	0	0	9.955
101.420	0	0	0	9.955
101.440	0	0	0	9.955
101.460	0	0	0	9.955
101.480	0	0	0	9.955
101.500	0	0	0	9.955
101.520	0	0	0	9.955
101.540	0	0	0	9.955
101.560	0	0	0	9.955
101.580	0	0	0	9.955
101.600	0	0	0	9.955
101.620	0	0	0	9.955
101.640	0	0	0	9.955
101.660	0	0	0	9.955
101.680	0	0	0	9.955
101.700	0	0	0	9.955
101.720	0	0	0	9.955
101.740	0	0	0	9.955
101.760	0	0	0	9.955
101.780	0	0	0	9.955
101.800	0	0	0	9.955
101.820	0	0	0	9.955
101.840	0	0	0	9.955
101.860	0	0	0	9.955
101.880	0	0	0	9.955
101.900	0	0	0	9.955
101.920	0	0	0	9.955
101.940	0	0	0	9.955
101.960	0	0	0	9.955
101.980	0	0	0	9.955
102.000	0	0	0	9.955
102.020	0	0	0	9.955
102.040	0	0	0	9.955
102.060	0	0	0	9.955
102.080	0	0	0	9.955
102.100	6	3.593	6	9.960
102.120	9	554	9	9.969
102.140	32	69	32	10.001
102.160	25	0	0	10.001
102.180	5	11	5	10.007
102.200	23	94	23	10.030
102.220	321	2	2	10.032
102.240	1.521	0	0	10.032
102.260	0	0	0	10.032
102.280	0	0	0	10.032
102.300	0	0	0	10.032
102.320	0	0	0	10.032

**COMPENSACIÓN TRANSVERSAL. Alternativa 2**

P.K. inicial	Terraplén	Desmorte	Compensación Parcial (m <sup>3</sup> )	Compensación Acumulada (m <sup>3</sup> )
102.340	0	0	0	10.032
102.360	0	0	0	10.032
102.380	0	0	0	10.032
102.400	762	0	0	10.032
102.420	1.521	0	0	10.032
102.440	1.181	0	0	10.032
102.460	1.414	0	0	10.032
102.480	1.634	0	0	10.032
102.500	1.438	1	1	10.033
102.520	1.052	32	32	10.064
102.540	349	77	77	10.141
102.560	14	257	14	10.156
102.580	9	1.092	9	10.165
102.600	8	2.288	8	10.172
102.620	4	5.353	4	10.177
102.640	7	7.983	7	10.184
102.660	8	6.098	8	10.192
102.680	14	2.231	14	10.206
102.700	170	88	88	10.293
102.720	0	0	0	10.293
102.740	0	0	0	10.293
102.760	0	0	0	10.293
102.780	0	0	0	10.293
102.800	0	0	0	10.293
102.820	0	0	0	10.293
102.840	0	0	0	10.293
102.860	1.908	0	0	10.293
102.880	1.220	0	0	10.294
102.900	735	10	10	10.304
102.920	397	26	26	10.330
102.940	194	91	91	10.421
102.960	65	287	65	10.486
102.980	5	467	5	10.491
103.000	85	930	85	10.576
103.020	1.140	4	4	10.579
103.040	0	0	0	10.579
103.060	0	0	0	10.579
103.080	0	0	0	10.579
103.100	0	0	0	10.579
103.120	593	0	0	10.579
103.140	1.487	0	0	10.579
103.160	397	13	13	10.593
103.180	12	285	12	10.605
103.200	7	672	7	10.611
103.220	6	893	6	10.617
103.240	6	766	6	10.623
103.260	1.116	38	38	10.660
103.280	1.869	0	0	10.660
103.300	0	0	0	10.660
103.320	0	0	0	10.660
103.340	0	0	0	10.660

**COMPENSACIÓN TRANSVERSAL. Alternativa 2**

P.K. inicial	Terraplén	Desmorte	Compensación Parcial (m³)	Compensación Acumulada (m³)
103.360	0	0	0	10.660
103.380	0	0	0	10.660
103.400	1.063	78	78	10.738
103.420	156	2.922	156	10.894
103.440	1	1.040	1	10.894
103.460	0	0	0	10.894
103.480	0	0	0	10.894
103.500	0	0	0	10.894
103.520	0	0	0	10.894
103.540	0	0	0	10.894
103.560	0	0	0	10.894
103.580	0	0	0	10.894
103.600	0	0	0	10.894
103.620	0	0	0	10.894
103.640	0	0	0	10.894
103.660	0	0	0	10.894
103.680	0	0	0	10.894
103.700	0	0	0	10.894
103.720	0	0	0	10.894
103.740	0	0	0	10.894
103.760	0	0	0	10.894
103.780	0	0	0	10.894
103.800	0	0	0	10.894
103.820	0	0	0	10.894
103.840	0	0	0	10.894
103.860	0	0	0	10.894
103.880	0	0	0	10.894
103.900	0	0	0	10.894
103.920	0	0	0	10.894
103.940	0	0	0	10.894
103.960	0	0	0	10.894
103.980	0	0	0	10.894
104.000	0	0	0	10.894
104.020	0	0	0	10.894
104.040	0	0	0	10.894
104.060	0	0	0	10.894
104.080	0	0	0	10.894
104.100	0	0	0	10.894
104.120	0	0	0	10.894
104.140	0	0	0	10.894
104.160	0	0	0	10.894
104.180	0	0	0	10.894
104.200	0	0	0	10.894
104.220	0	0	0	10.894
104.240	0	0	0	10.894
104.260	0	0	0	10.894
104.280	0	0	0	10.894
104.300	0	0	0	10.894
104.320	0	0	0	10.894
104.340	0	0	0	10.894
104.360	0	0	0	10.894

**COMPENSACIÓN TRANSVERSAL. Alternativa 2**

P.K. inicial	Terraplén	Desmorte	Compensación Parcial (m³)	Compensación Acumulada (m³)
104.380	0	0	0	10.894
104.400	7	2.650	7	10.901
104.420	9	1.297	9	10.910
104.440	9	2.135	9	10.920
104.460	11	2.542	11	10.931
104.480	21	2.750	21	10.952
104.500	33	1.929	33	10.985
104.520	21	2.057	21	11.006
104.540	9	3.524	9	11.015
104.560	13	5.558	13	11.028
104.580	9	7.443	9	11.037
104.600	5	6.591	5	11.042
104.620	5	4.818	5	11.047
104.640	9	2.966	9	11.056
104.660	2	1.258	2	11.058
104.680	2	1.112	2	11.060
104.700	2	1.233	2	11.062
104.720	1	1.342	1	11.063
104.740	42	676	42	11.105
104.760	27	684	27	11.131
104.780	124	903	124	11.256
104.800	571	181	181	11.437
104.820	0	0	0	11.437
104.840	0	0	0	11.437
104.860	0	0	0	11.437
104.880	0	0	0	11.437
104.900	1.098	58	58	11.494
104.920	552	303	303	11.798
104.940	178	483	178	11.976
104.960	40	833	40	12.016
104.980	5	1.054	5	12.021
105.000	4	2.171	4	12.024
105.020	5	2.762	5	12.029
105.040	0	0	0	12.029
105.060	0	0	0	12.029
105.080	0	0	0	12.029
105.100	0	0	0	12.029
105.120	0	0	0	12.029
105.140	0	0	0	12.029
105.160	0	0	0	12.029
105.180	0	0	0	12.029
105.200	0	0	0	12.029
105.220	0	0	0	12.029
105.240	0	0	0	12.029
105.260	5	3.922	5	12.034
105.280	202	510	202	12.236
105.300	0	0	0	12.236
105.320	0	0	0	12.236
105.340	594	0	0	12.236
105.360	1.195	36	36	12.273
105.380	249	506	249	12.522

**COMPENSACIÓN TRANSVERSAL. Alternativa 2**

P.K. inicial	Terraplén	Desmorte	Compensación Parcial (m³)	Compensación Acumulada (m³)
105.400	214	634	214	12.735
105.420	78	546	78	12.814
105.440	841	347	347	13.161
105.460	2.147	7	7	13.167
105.480	621	83	83	13.250
105.500	5	1.229	5	13.255
105.520	5	2.236	5	13.260
105.540	4	2.272	4	13.265
105.560	5	1.316	5	13.269
105.580	6	836	6	13.275
105.600	52	128	52	13.327
105.620	306	441	306	13.633
105.640	5	380	5	13.639
105.660	6	815	6	13.645
105.680	3	1.807	3	13.648
105.700	9	2.016	9	13.656
105.720	6	1.754	6	13.662
105.740	6	1.366	6	13.668
105.760	8	1.327	8	13.676
105.780	5	1.507	5	13.682
105.800	555	1.285	555	14.236
105.820	6	1.108	6	14.243
105.840	6	855	6	14.249
105.860	33	430	33	14.281
105.880	684	19	19	14.300
105.900	380	0	0	14.300
105.920	25	54	25	14.325
105.940	6	143	6	14.331
105.960	19	126	19	14.351
105.980	68	70	68	14.418
106.000	464	17	17	14.435
106.020	370	0	0	14.436
106.040	544	0	0	14.436
106.060	1.355	0	0	14.436
106.080	1.117	0	0	14.436
106.100	518	0	0	14.436
106.120	295	0	0	14.436
106.140	53	1.053	53	14.489
106.160	3	8.133	3	14.492
106.180	4	13.464	4	14.496
106.200	8	12.466	8	14.504
106.220	4	5.385	4	14.507
106.240	9	1.041	9	14.517
106.260	28	355	28	14.544
106.280	34	41	34	14.579
106.300	10	27	10	14.589
106.320	23	1	1	14.590
106.340	92	0	0	14.590
106.360	129	0	0	14.590
106.380	138	0	0	14.590
106.400	180	0	0	14.590

**COMPENSACIÓN TRANSVERSAL. Alternativa 2**

P.K. inicial	Terraplén	Desmorte	Compensación Parcial (m³)	Compensación Acumulada (m³)
106.420	193	0	0	14.590
106.440	251	0	0	14.590
106.460	86	4	4	14.594
106.480	42	9	9	14.603
106.500	49	19	19	14.622
106.520	37	46	37	14.659
106.540	11	120	11	14.670
106.560	69	208	69	14.739
106.580	812	51	51	14.790
106.600	2.056	0	0	14.790
106.620	2.217	0	0	14.790
106.640	2.177	0	0	14.790
106.660	1.620	0	0	14.790
106.680	1.011	0	0	14.790
106.700	794	2	2	14.792
106.720	442	3	3	14.795
106.740	173	83	83	14.877
106.760	18	280	18	14.895
106.780	1	389	1	14.896
106.800	47	495	47	14.943
106.820	5	599	5	14.947
106.840	2	634	2	14.949
106.860	292	333	292	15.241
106.880	1.557	59	59	15.300
106.900	1.140	56	56	15.356
106.920	450	33	33	15.390
106.940	153	22	22	15.412
106.960	164	2	2	15.414
106.980	163	0	0	15.414
107.000	468	0	0	15.414
107.020	1.748	2	2	15.416
107.040	2.986	0	0	15.416
107.060	2.035	0	0	15.416
107.080	1.742	0	0	15.416
107.100	1.208	0	0	15.416
107.120	727	0	0	15.416
107.140	498	0	0	15.416
107.160	332	0	0	15.416
107.180	194	9	9	15.425
107.200	23.713	259	259	15.684
107.220	13	167	13	15.697
107.240	10	1.079	10	15.707
107.260	6	3.879	6	15.713
107.280	5	5.277	5	15.717
107.300	0	0	0	15.717
107.320	0	0	0	15.717
107.340	0	0	0	15.717
107.360	0	0	0	15.717
107.380	0	0	0	15.717
107.400	0	0	0	15.717
107.420	0	0	0	15.717



**COMPENSACIÓN TRANSVERSAL. Alternativa 2**

P.K. inicial	Terraplén	Desmote	Compensación Parcial (m³)	Compensación Acumulada (m³)
107.440	0	0	0	15.717
107.460	0	0	0	15.717
107.480	0	0	0	15.717
107.500	0	0	0	15.717
107.520	0	0	0	15.717
107.540	0	0	0	15.717
107.560	0	0	0	15.717
107.580	0	0	0	15.717
107.600	0	0	0	15.717
107.620	0	0	0	15.717
107.640	0	0	0	15.717
107.660	0	0	0	15.717
107.680	0	0	0	15.717
107.700	0	0	0	15.717
107.720	0	0	0	15.717
107.740	0	0	0	15.717
107.760	0	0	0	15.717
107.780	0	0	0	15.717
107.800	0	0	0	15.717
107.820	0	0	0	15.717
107.840	0	0	0	15.717
107.860	0	0	0	15.717
107.880	0	0	0	15.717
107.900	0	0	0	15.717
107.920	0	0	0	15.717
107.940	0	0	0	15.717
107.960	0	0	0	15.717
107.980	0	0	0	15.717
108.000	0	0	0	15.717
108.020	0	0	0	15.717
108.040	0	0	0	15.717
108.060	0	0	0	15.717
108.080	0	0	0	15.717
108.100	0	0	0	15.717
108.120	0	0	0	15.717
108.140	4	5.710	4	15.721
108.160	9	6.105	9	15.731
108.180	8	2.247	8	15.739
108.200	1.898	4.066	1.898	17.637
108.220	676	0	0	17.637
108.240	1.515	0	0	17.637
108.260	2.414	0	0	17.637
108.280	3.503	0	0	17.637
108.300	1.111	0	0	17.637
108.320	0	0	0	17.637
108.340	1.889	0	0	17.637
108.360	2.500	0	0	17.637
108.380	873	61	61	17.699
108.400	18	1.054	18	17.716
108.420	8	1.776	8	17.724
108.440	8	1.486	8	17.733

**COMPENSACIÓN TRANSVERSAL. Alternativa 2**

P.K. inicial	Terraplén	Desmote	Compensación Parcial (m³)	Compensación Acumulada (m³)
108.460	9	874	9	17.742
108.480	28	324	28	17.770
108.500	44	186	44	17.814
108.520	41	165	41	17.855
108.540	37	163	37	17.892
108.560	34	158	34	17.926
108.580	38	149	38	17.964
108.600	49	164	49	18.013
108.620	88	149	88	18.101
108.640	184	87	87	18.188
108.660	285	72	72	18.260
108.680	322	34	34	18.294
108.700	342	11	11	18.306
108.720	371	3	3	18.309
108.740	319	4	4	18.313
108.760	192	38	38	18.351
108.780	176	88	88	18.439
108.800	276	39	39	18.478
108.820	380	5	5	18.483
108.840	472	1	1	18.483
108.860	622	0	0	18.483
108.880	1.025	0	0	18.483
108.900	624	0	0	18.483
108.920	0	0	0	18.483
108.940	0	0	0	18.483
108.960	0	0	0	18.483
108.980	0	0	0	18.483
109.000	0	0	0	18.483
109.020	0	0	0	18.483
109.040	0	0	0	18.483
109.060	0	0	0	18.483
109.080	0	0	0	18.483
109.100	0	0	0	18.483
109.120	0	0	0	18.483
109.140	0	0	0	18.483
109.160	0	0	0	18.483
109.180	0	0	0	18.483
109.200	0	0	0	18.483
109.220	0	0	0	18.483
109.240	0	0	0	18.483
109.260	0	0	0	18.483
109.280	0	0	0	18.483
109.300	70.048	2.865	2.865	21.349
109.320	0	0	0	21.349
109.340	0	0	0	21.349
109.360	0	0	0	21.349
109.380	0	0	0	21.349
109.400	0	0	0	21.349
109.420	0	0	0	21.349
109.440	0	0	0	21.349
109.393	32	133	32	21.381

**COMPENSACIÓN TRANSVERSAL. Alternativa 2**

P.K. inicial	Terraplén	Desmonte	Compensación Parcial (m <sup>3</sup> )	Compensación Acumulada (m <sup>3</sup> )
109.400	48	290	48	21.429
109.420	90	272	90	21.519
109.440	171	1.249	171	21.690
109.460	241	1.181	241	21.931
109.480	182	827	182	22.112
109.500	40	1.163	40	22.152
109.520	5	1.445	5	22.158
109.540	6	1.705	6	22.163
109.560	7	1.698	7	22.170
109.580	14	1.449	14	22.184
109.600	175	414	175	22.359
109.620	734	0	0	22.359
109.640	272	0	0	22.359
109.660	0	0	0	22.359
109.680	0	0	0	22.359
109.700	0	0	0	22.359
109.720	0	0	0	22.359
109.740	0	0	0	22.359
109.760	0	0	0	22.359
109.780	0	0	0	22.359
109.800	0	0	0	22.359
109.820	0	0	0	22.359
109.840	1.371	0	0	22.359
109.860	1.123	0	0	22.359
109.880	866	0	0	22.359
109.900	537	1		22.359
109.920	330	0		22.359
109.940	239	0		22.359
109.960	189	0		22.359
109.980	102	0		22.359
110.000	173	0		22.359
110.020	327	0		22.359
110.040	501	0		22.359
110.060	558	0		22.359
110.080	768	0		22.359
110.100	1.109	0		22.359
110.120	1.043	0		22.359
110.140	641	0		22.359
110.160	945	0		22.359
110.180	1.184	0		22.359
110.200	1.390	0		22.359
110.220	1.463	0		22.359
110.240	1.417	1	1	22.360
110.260	1.398	0	0	22.360
110.280	1.389	0	0	22.360
110.300	1.410	0	0	22.360
110.320	1.430	0	0	22.360
110.340	1.606	1	1	22.362
110.360	1.718	0	0	22.362
110.380	1.343	0	0	22.362
110.400	51.698	1.640	1.640	24.002

**COMPENSACIÓN TRANSVERSAL. Alternativa 2**

P.K. inicial	Terraplén	Desmonte	Compensación Parcial (m <sup>3</sup> )	Compensación Acumulada (m <sup>3</sup> )
110.420	3.336	834	834	24.836
110.440	878	0	0	24.836
110.460	1.702	1	1	24.836
110.480	1.741	0	0	24.836
110.500	2.020	0	0	24.836
110.520	1.580	0	0	24.836
110.540	1.470	0	0	24.836
110.560	1.322	0	0	24.836
110.580	1.089	0	0	24.836
110.600	804	0	0	24.836
110.620	564	0	0	24.836
110.640	362	0	0	24.836
110.660	187	0	0	24.837
110.680	63	7	7	24.843
110.700	7	21	7	24.851
110.720	11	418	11	24.861
110.740	141	306	141	25.002
110.760	189	261	189	25.192
110.780	174	228	174	25.366
110.800	133	180	133	25.499
110.820	108	122	108	25.607
110.840	105	73	73	25.680
110.860	170	44	44	25.724
110.880	216	37	37	25.761
110.900	256	54	54	25.815
110.920	130	92	92	25.907
110.940	42	180	42	25.949
110.960	50	792	50	25.999
110.980	21	798	21	26.020
111.000	3	1.526	3	26.023
111.020	10	744	10	26.033
111.040	10	1.027	10	26.043
111.060	19	1.216	19	26.062
111.080	49	206	49	26.111
111.100	56	523	56	26.167
111.120	56	893	56	26.223
111.140	40	2.180	40	26.263
111.160	43	669	43	26.306
111.180	76	0	0	26.306
111.200	47	11	11	26.317
111.220	14	74	14	26.331
111.240	159	78	78	26.408
111.260	1.405	1	1	26.410
111.280	2.517	0	0	26.410
111.300	1.308	22	22	26.431
111.320	23	481	23	26.454
111.340	5	459	5	26.458
111.360	23	294	23	26.481
111.380	278	20	20	26.501
111.400	9	103	9	26.510
111.420	9	145	9	26.519

COMPENSACIÓN TRANSVERSAL. Alternativa 2

P.K. inicial	Terraplén	Desmote	Compensación Parcial (m <sup>3</sup> )	Compensación Acumulada (m <sup>3</sup> )
111.440	54	60	54	26.572
111.460	155	117	117	26.689
111.480	248	83	83	26.772
111.500	99	0	0	26.772
111.520	2	5	2	26.774
111.540	11	15	11	26.785
111.560	7	56	7	26.792
111.580	11.000	971	971	27.764
111.600	16	138	16	27.780
111.620	15	90	15	27.795
111.640	110	42	42	27.836
111.660	96	46	46	27.883
111.680	23	31	23	27.905
111.700	19	56	19	27.924
111.720	21	25	21	27.945
111.740	203	96	96	28.041
111.760	334	98	98	28.139
111.780	148	116	116	28.255
111.800	60	163	60	28.315
111.820	16	224	16	28.330
111.840	5	388	5	28.335
111.860	4	131	4	28.339
111.880	10	263	10	28.349
111.900	61	170	61	28.409
111.920	314	5	5	28.415
111.940	407	0	0	28.415
111.960	370	0	0	28.415
111.980	1.060	0	0	28.415
112.000	891	9	9	28.424
112.020	464	0	0	28.424
112.040	310	119	119	28.543
112.060	576	2.171	576	29.119
112.080	541	3.968	541	29.660
112.100	620	3.693	620	30.280
112.120	66	2.529	66	30.346
112.140	56	2.528	56	30.402
112.160	96	3.227	96	30.498
112.180	63	2.657	63	30.561
112.200	229	1.222	229	30.790
112.220	454	1.043	454	31.244
112.240	535	1.467	535	31.779
112.260	546	1.232	546	32.324
112.280	595	148	148	32.472
112.300	738	1	1	32.473
112.320	596	0	0	32.473
112.340	472	0	0	32.473
112.360	102	1	1	32.474
112.380	36	18	18	32.492
112.400	6	30	6	32.498
112.420	17	25	17	32.514
112.440	38	37	37	32.551

COMPENSACIÓN TRANSVERSAL. Alternativa 2

P.K. inicial	Terraplén	Desmote	Compensación Parcial (m <sup>3</sup> )	Compensación Acumulada (m <sup>3</sup> )
112.460	71	27	27	32.578
112.480	41	51	41	32.619
112.500	5	141	5	32.624
112.520	6	203	6	32.630
112.540	14	341	14	32.644
112.560	16	323	16	32.660
112.580	4	309	4	32.664
112.600	25	173	25	32.688
112.620	49	88	49	32.738
112.640	71	39	39	32.777
112.660	87	8	8	32.784
112.680	103	0	0	32.784
112.700	98	0	0	32.784
112.720	119	0	0	32.784
112.740	47	0	0	32.784
112.760	27	0	0	32.784
112.780	40	4	4	32.788
112.800	11	77	11	32.799
112.820	9	103	9	32.809
112.840	15	124	15	32.823
112.860	10	128	10	32.833
112.880	10	198	10	32.843
112.900	8	317	8	32.850
112.920	8	186	8	32.858
112.940	6	108	6	32.864
112.960	8	65	8	32.872
112.980	12	49	12	32.884
113.000	10	42	10	32.894
113.020	10	94	10	32.904
113.040	4	87	4	32.909
113.060	3	163	3	32.912
113.080	3	147	3	32.915
113.100	6	109	6	32.921
113.120	44	37	37	32.958
113.140	151	0	0	32.958
113.160	260	0	0	32.958
113.180	176	0	0	32.958
113.200	68	0	0	32.958
113.220	78	0	0	32.958
113.240	56	34	34	32.992
113.260	41	134	41	33.032
113.280	7	370	7	33.040
113.300	7	643	7	33.047
113.320	97	626	97	33.144
113.340	252	286	252	33.395
113.360	531	196	196	33.591
113.380	997	59	59	33.650
113.400	1.055	173	173	33.823
113.420	1.133	144	144	33.968
113.440	944	109	109	34.077
113.460	623	240	240	34.317

**COMPENSACIÓN TRANSVERSAL. Alternativa 2**

P.K. inicial	Terraplén	Desmante	Compensación Parcial (m³)	Compensación Acumulada (m³)
113.480	409	446	409	34.726
113.500	429	151	151	34.877
113.520	222	169	169	35.046
113.540	162	282	162	35.208
113.560	83	171	83	35.290
113.580	61	75	61	35.352
113.600	45	262	45	35.396
113.620	23	442	23	35.419
113.640	50	370	50	35.469
113.660	41	503	41	35.510
113.680	21	672	21	35.531
113.700	143	319	143	35.674
113.720	67	132	67	35.742
113.740	41	156	41	35.783
113.760	7	106	7	35.789
113.780	19	41	19	35.808
113.800	93	1	1	35.808
113.820	210	0	0	35.808
113.840	163	0	0	35.808
113.860	30	15	15	35.823
113.880	8	112	8	35.831
113.900	11	138	11	35.842
113.920	16	124	16	35.858
113.940	16	84	16	35.875
113.960	124	70	70	35.945
113.980	278	120	120	36.065
114.000	214	104	104	36.169
114.020	42	134	42	36.211
114.040	31	137	31	36.242
114.060	53	119	53	36.295
114.080	87	31	31	36.326
114.100	66	64	64	36.391
114.120	29	13	13	36.404
114.140	0	0	0	36.404
114.160	4.422	4.117	4.117	40.520
114.180	0	0	0	40.520
114.200	76	7	7	40.527
114.220	253	0	0	40.527
114.240	295	0	0	40.527
114.260	273	0	0	40.528
114.280	264	6	6	40.534
114.300	234	12	12	40.546
114.320	151	16	16	40.562
114.340	60	44	44	40.606
114.360	6	367	6	40.612
114.380	11	599	11	40.623
114.400	11	595	11	40.634
114.420	14	368	14	40.648
114.440	18	120	18	40.666
114.460	17	33	17	40.683
114.480	7	21	7	40.690

**COMPENSACIÓN TRANSVERSAL. Alternativa 2**

P.K. inicial	Terraplén	Desmante	Compensación Parcial (m³)	Compensación Acumulada (m³)
114.500	2	119	2	40.692
114.520	30	124	30	40.721
114.540	78	70	70	40.791
114.560	51	48	48	40.839
114.580	25	21	21	40.861
114.600	949	56	56	40.916
114.620	261	170	170	41.087
114.640	311	203	203	41.289
114.660	299	162	162	41.452
114.680	280	98	98	41.550
114.700	319	76	76	41.626
114.720	218	54	54	41.680
114.740	60	299	60	41.740
114.760	4	566	4	41.744
114.780	42	550	42	41.787
114.800	82	663	82	41.868
114.820	67	852	67	41.935
114.840	40	1.130	40	41.975
114.860	23	1.025	23	41.998
114.880	23	950	23	42.021
114.900	23	675	23	42.044
114.920	32	349	32	42.076
114.940	70	492	70	42.146
114.960	93	597	93	42.239
114.980	34	98	34	42.272
115.000	24	60	24	42.296
115.020	35	28	28	42.324
115.040	51	2	2	42.326
115.060	40	7	7	42.333
115.080	13	1	1	42.333
115.100	23	0	0	42.333
115.120	50	0	0	42.333
115.140	70	0	0	42.333
115.160	51	0	0	42.333
115.180	49	0	0	42.333
115.200	25	19	19	42.352
115.220	21	55	21	42.373
115.240	1	110	1	42.375
115.260	15	89	15	42.390
115.280	51	125	51	42.441
115.300	115	88	88	42.528
115.320	231	53	53	42.581
115.340	371	47	47	42.629
115.360	382	34	34	42.662
115.380	367	67	67	42.729
115.400	10	74	10	42.739
115.420	6	350	6	42.745
115.440	3	1.276	3	42.748
115.460	4	2.418	4	42.752
115.480	2	4.317	2	42.754
115.500	1	5.066	1	42.755

**COMPENSACIÓN TRANSVERSAL. Alternativa 2**

P.K. inicial	Terraplén	Desmorte	Compensación Parcial (m <sup>3</sup> )	Compensación Acumulada (m <sup>3</sup> )
115.520	0	389	0	42.755
115.540	1	165	1	42.757
115.560	33	214	33	42.789
115.580	1.125	80	80	42.869
115.600	485	0	0	42.869
115.620	2.784	16.232	2.784	45.653
115.640	358	13	13	45.666
115.660	32	811	32	45.699
115.680	2	2.464	2	45.701
115.700	2	3.246	2	45.703
115.720	2	3.449	2	45.706
115.740	3	3.243	3	45.708
115.760	3	3.259	3	45.712
115.780	4	2.731	4	45.715
115.800	221	1.185	221	45.936
115.820	497	8	8	45.944
115.840	0	0	0	45.944
115.860	0	0	0	45.944
115.880	0	0	0	45.944
115.900	0	0	0	45.944
115.920	0	0	0	45.944
115.940	0	0	0	45.944
115.960	0	0	0	45.944
115.980	0	0	0	45.944
116.000	0	0	0	45.944
116.020	458	0	0	45.945
116.040	292	42	42	45.986
116.060	138	113	113	46.099
116.080	121	124	121	46.220
116.100	139	178	139	46.358
116.120	150	248	150	46.509
116.140	209	280	209	46.718
116.160	200	252	200	46.918
116.180	67	291	67	46.985
116.200	3	694	3	46.988
116.220	122	357	122	47.110
116.240	2.326	3	3	47.113
116.260	1.832	0	0	47.113
116.280	838	0	0	47.113
116.300	689	0	0	47.113
116.320	717	0	0	47.113
116.340	708	0	0	47.113
116.360	636	0	0	47.113
116.380	597	0	0	47.113
116.400	557	294	294	47.407
116.420	811	0	0	47.407
116.440	1.007	0	0	47.407
116.460	973	0	0	47.407
116.480	640	1	1	47.408
116.500	218	12	12	47.420
116.520	68	2	2	47.422

**COMPENSACIÓN TRANSVERSAL. Alternativa 2**

P.K. inicial	Terraplén	Desmorte	Compensación Parcial (m <sup>3</sup> )	Compensación Acumulada (m <sup>3</sup> )
116.540	124	0	0	47.422
116.560	258	0	0	47.422
116.580	332	0	0	47.422
116.600	5.035	241	241	47.663
116.620	496	0	0	47.663
116.640	563	0	0	47.663
116.660	676	0	0	47.663
116.680	765	0	0	47.663
116.700	768	0	0	47.663
116.720	760	0	0	47.663
116.740	725	0	0	47.663
116.760	734	0	0	47.663
116.780	691	0	0	47.663
116.800	863	372	372	48.035
116.820	290	0	0	48.035
116.840	222	0	0	48.035
116.860	365	0	0	48.035
116.880	646	0	0	48.035
116.900	936	0	0	48.035
116.920	1.419	0	0	48.035
116.940	1.963	0	0	48.035
116.960	2.516	0	0	48.035
116.980	2.869	0	0	48.035
117.000	2.462	0	0	48.035
117.020	1.783	0	0	48.035
117.040	1.355	0	0	48.035
117.060	1.288	0	0	48.035
117.080	1.426	0	0	48.035
117.100	1.694	0	0	48.035
117.120	2.081	0	0	48.035
117.140	2.413	0	0	48.035
117.160	2.725	0	0	48.035
117.180	2.997	0	0	48.035
117.200	3.191	0	0	48.035
117.220	3.418	0	0	48.035
117.240	3.295	0	0	48.035
117.260	2.716	0	0	48.035
117.280	2.267	0	0	48.035
117.300	1.840	0	0	48.035
117.320	953	0	0	48.035
117.340	208	52	52	48.087
117.360	2	475	2	48.090
117.380	0	2.414	0	48.090
117.400	3	6.406	3	48.093
117.420	5	6.053	5	48.098
117.440	3	3.695	3	48.101
117.460	4	1.040	4	48.105
117.480	688	107	107	48.212
117.500	1.821	0	0	48.212
117.520	0	0	0	48.212
117.540	0	0	0	48.212

COMPENSACIÓN TRANSVERSAL. Alternativa 2

P.K. inicial	Terraplén	Desmote	Compensación Parcial (m <sup>3</sup> )	Compensación Acumulada (m <sup>3</sup> )
117.560	0	0	0	48.212
117.580	0	0	0	48.212
117.600	0	0	0	48.212
117.620	0	0	0	48.212
117.640	0	0	0	48.212
117.660	0	0	0	48.212
117.680	0	0	0	48.212
117.700	0	0	0	48.212
117.720	0	0	0	48.212
117.740	0	0	0	48.212
117.760	0	0	0	48.212
117.780	0	0	0	48.212
117.800	0	0	0	48.212
117.820	0	0	0	48.212
117.840	0	0	0	48.212
117.860	0	0	0	48.212
117.880	0	0	0	48.212
117.900	3.591	0	0	48.212
117.920	3.810	0	0	48.212
117.940	4.187	0	0	48.212
117.960	4.431	0	0	48.212
117.980	4.289	0	0	48.212
118.000	10.077	726	726	48.938
118.020	1.815	0	0	48.938
118.040	2.514	0	0	48.938
118.060	2.988	0	0	48.938
118.080	3.249	0	0	48.938
118.100	9.299	2.097	2.097	51.035
118.120	2.269	0	0	51.035
118.140	785	0	0	51.035
118.160	82	120	82	51.116
118.180	45	33	33	51.150
118.200	83	0	0	51.150
118.220	85	0	0	51.150
118.240	123	0	0	51.150
118.260	78	0	0	51.150
118.280	63	1	1	51.150
118.300	49	36	36	51.187
118.320	53	52	52	51.239
118.340	63	51	51	51.290
118.360	32	73	32	51.322
118.380	24	121	24	51.346
118.400	23	676	23	51.368
118.420	2	517	2	51.370
118.440	2	350	2	51.372
118.460	2	220	2	51.374
118.480	1	166	1	51.376
118.500	5	108	5	51.380
118.520	13	79	13	51.393
118.540	20	82	20	51.413
118.560	31	22	22	51.435

COMPENSACIÓN TRANSVERSAL. Alternativa 2

P.K. inicial	Terraplén	Desmote	Compensación Parcial (m <sup>3</sup> )	Compensación Acumulada (m <sup>3</sup> )
118.580	36	7	7	51.441
118.600	99	1	1	51.442
118.620	197	0	0	51.442
118.640	183	0	0	51.442
118.660	74	4	4	51.446
118.680	5	51	5	51.451
118.700	2	311	2	51.453
118.720	2	157	2	51.455
118.740	3	30	3	51.458
118.760	1	10	1	51.458
118.780	27	12	12	51.470
118.800	51	9	9	51.479
118.820	31	17	17	51.496
118.840	12	49	12	51.508
118.860	6	145	6	51.514
118.880	6	256	6	51.520
118.900	2	328	2	51.523
118.920	2	405	2	51.525
118.940	2	592	2	51.527
118.960	3	670	3	51.530
118.980	3	541	3	51.533
119.000	5	348	5	51.538
119.020	2	502	2	51.540
119.040	1	565	1	51.541
119.060	2	457	2	51.544
119.080	3	369	3	51.547
119.100	3	381	3	51.550
119.120	3	252	3	51.554
119.140	0	40	0	51.554
119.160	1	77	1	51.555
119.180	43	81	43	51.597
119.200	38	127	38	51.635
119.220	3	199	3	51.638
119.240	3	141	3	51.641
119.260	5	264	5	51.645
119.280	4	484	4	51.649
119.300	5	449	5	51.654
119.320	3	380	3	51.657
119.340	5	293	5	51.662
119.360	7	249	7	51.669
119.380	6	157	6	51.674
119.400	10	46	10	51.685
119.420	55	17	17	51.702
119.440	62	8	8	51.709
119.460	75	16	16	51.726
119.480	232	32	32	51.757
119.500	228	51	51	51.808
119.520	88	65	65	51.873
119.540	6	72	6	51.880
119.560	4	63	4	51.884
119.580	1	49	1	51.885

COMPENSACIÓN TRANSVERSAL. Alternativa 2

P.K. inicial	Terraplén	Desmonte	Compensación Parcial (m <sup>3</sup> )	Compensación Acumulada (m <sup>3</sup> )
119.600	1.236	552	552	52.437
119.620	2	103	2	52.439
119.640	2	108	2	52.441
119.660	2	99	2	52.442
119.680	6	74	6	52.448
119.700	4	51	4	52.452
119.720	2	53	2	52.454
119.740	4	52	4	52.459
119.760	2	137	2	52.461
119.780	2	157	2	52.463
119.800	16	56	16	52.479
119.820	137	66	66	52.545
119.840	467	62	62	52.607
119.860	420	183	183	52.790
119.880	260	328	260	53.050
119.900	350	337	337	53.387
119.920	272	401	272	53.659
119.940	44	546	44	53.703
119.960	3	700	3	53.706
119.980	1	966	1	53.707
120.000	1.157	1.520	1.157	54.864
120.020	1	630	1	54.864
120.040	10	193	10	54.874
120.060	47	201	47	54.922
120.080	18	630	18	54.940
120.100	3	852	3	54.943
120.120	95	371	95	55.038
120.140	734	43	43	55.080
120.160	2.049	0	0	55.080
120.180	3.136	0	0	55.080
120.200	4.080	0	0	55.080
120.220	4.654	0	0	55.080
120.240	3.830	0	0	55.080
120.260	1.769	262	262	55.342
120.280	173	3.306	173	55.515
120.300	1	7.512	1	55.517
120.320	4	7.012	4	55.520
120.340	5	4.249	5	55.526
120.360	5	2.852	5	55.531
120.380	12	2.168	12	55.543
120.400	6	2.704	6	55.549
120.420	3	4.641	3	55.552
120.440	3	6.778	3	55.555
120.460	3	6.039	3	55.557
120.480	3	5.993	3	55.560
120.500	3	5.409	3	55.563
120.520	6	1.679	6	55.569
120.540	321	50	50	55.619
120.560	1.099	0	0	55.619
120.580	1.067	0	0	55.619
120.600	889	0	0	55.619

COMPENSACIÓN TRANSVERSAL. Alternativa 2

P.K. inicial	Terraplén	Desmonte	Compensación Parcial (m <sup>3</sup> )	Compensación Acumulada (m <sup>3</sup> )
120.620	213	0	0	55.619
120.640	0	0	0	55.619
120.660	0	0	0	55.619
120.680	0	0	0	55.619
120.700	0	0	0	55.619
120.720	105	0	0	55.619
120.740	38	242	38	55.657
120.760	11	176	11	55.668
120.780	30	0	0	55.668
120.800	14	35	14	55.682
120.820	8	43	8	55.690
120.840	4	39	4	55.694
120.860	3	72	3	55.697
120.880	12	27	12	55.709
120.900	5	10	5	55.713
120.920	4	70	4	55.717
120.940	4	135	4	55.721
120.960	6	99	6	55.727
120.980	7	80	7	55.734
121.000	6	72	6	55.741
121.020	5	88	5	55.745
121.040	4	86	4	55.750
121.060	8	85	8	55.758
121.080	15	196	15	55.773
121.100	11	156	11	55.783
121.120	6	206	6	55.789
121.140	7	202	7	55.796
121.160	11	207	11	55.807
121.180	14	129	14	55.821
121.200	7	151	7	55.828
121.220	4	281	4	55.832
121.240	3	388	3	55.835
121.260	5	315	5	55.840
121.280	9	71	9	55.848
121.300	4	38	4	55.852
121.320	127	21	21	55.873
121.340	143	7	7	55.880
121.360	182	2	2	55.881
121.380	354	0	0	55.881
121.400	416	0	0	55.881
121.420	371	0	0	55.881
121.440	340	0	0	55.881
121.460	320	0	0	55.881
121.480	196	4	4	55.885
121.500	105	7	7	55.892
121.520	109	7	7	55.899
121.540	125	3	3	55.902
121.560	128	0	0	55.902
121.580	145	8	8	55.910
121.600	250	3	3	55.913
121.620	216	20	20	55.933

**COMPENSACIÓN TRANSVERSAL. Alternativa 2**

P.K. inicial	Terraplén	Desmonte	Compensación Parcial (m³)	Compensación Acumulada (m³)
121.640	110	9	9	55.943
121.660	144	0	0	55.943
121.680	81	12	12	55.955
121.700	227	1	1	55.956
121.720	328	0	0	55.956
121.740	293	0	0	55.956
121.760	443	0	0	55.956
121.780	343	0	0	55.957
121.800	262	1	1	55.958
121.820	173	11	11	55.969
121.840	69	30	30	55.999
121.860	37	115	37	56.036
121.880	73	80	73	56.109
121.900	268	6	6	56.115
121.920	196	54	54	56.168
121.940	92	100	92	56.260
121.960	46	78	46	56.306
121.980	43	44	43	56.349
122.000	58	16	16	56.366
122.020	107	8	8	56.373
122.040	166	10	10	56.383
122.060	173	26	26	56.409
122.080	78	29	29	56.438
122.100	32	49	32	56.470
122.120	5	103	5	56.475
122.140	3	292	3	56.477
122.160	3	396	3	56.480
122.180	3	299	3	56.483
122.200	4	198	4	56.487
122.220	21	118	21	56.507
122.240	35	111	35	56.543
122.260	116	37	37	56.580
122.280	184	20	20	56.600
122.300	145	25	25	56.625
122.320	76	64	64	56.689
122.340	36	97	36	56.725
122.360	5	113	5	56.729
122.380	2	108	2	56.731
122.400	8	121	8	56.739
122.420	10	128	10	56.749
122.440	15	81	15	56.763
122.460	10	35	10	56.773
122.480	13	30	13	56.786
122.500	12	24	12	56.798
122.520	8	32	8	56.806
122.540	6	44	6	56.812
122.560	7	32	7	56.819
122.580	4	54	4	56.823
122.600	3	79	3	56.826
122.620	4	64	4	56.831
122.640	1	26	1	56.831

**COMPENSACIÓN TRANSVERSAL. Alternativa 2**

P.K. inicial	Terraplén	Desmonte	Compensación Parcial (m³)	Compensación Acumulada (m³)
122.660	5	30	5	56.836
122.680	19	15	15	56.851
122.700	38	0	0	56.851
122.720	8	4	4	56.855
122.740	0	37	0	56.855
122.760	2	44	2	56.857
122.780	3	20	3	56.860
122.800	11	0	0	56.860
122.820	0	9	0	56.860
122.840	0	15	0	56.860
122.860	1	7	1	56.862
122.880	5	24	5	56.866
122.900	8	66	8	56.874
122.920	9	38	9	56.884
122.940	8	21	8	56.892
122.960	9	35	9	56.901
122.980	14	38	14	56.915
123.000	27	36	27	56.943
123.020	34	31	31	56.973
123.040	11	43	11	56.985
123.060	8	55	8	56.993
123.080	9	26	9	57.002
123.100	17	26	17	57.020
123.120	17	29	17	57.037
123.140	5	64	5	57.042
123.160	10	134	10	57.051
123.180	8	121	8	57.060
123.200	14	109	14	57.074
123.220	8	124	8	57.082
123.240	10	61	10	57.092
123.260	11	68	11	57.103
123.280	7	37	7	57.110
123.300	1	10	1	57.111
123.320	13	2	2	57.113
123.340	21	1	1	57.113
123.360	20	20	20	57.133
123.380	7	30	7	57.140
123.400	6	51	6	57.146
123.420	9	87	9	57.155
123.440	41	62	41	57.196
123.460	75	30	30	57.226
123.480	108	17	17	57.242
123.500	1.085	52	52	57.294
123.520	316	0	0	57.294
123.540	525	0	0	57.294
123.560	770	0	0	57.294
123.580	1.072	0	0	57.294
123.600	1.442	0	0	57.294
123.620	1.919	0	0	57.294
123.640	2.583	0	0	57.294
123.660	2.921	0	0	57.294



**COMPENSACIÓN TRANSVERSAL. Alternativa 2**

P.K. inicial	Terraplén	Desmonte	Compensación Parcial (m <sup>3</sup> )	Compensación Acumulada (m <sup>3</sup> )
123.680	3.586	0	0	57.294
123.700	4.393	0	0	57.294
123.720	2.587	0	0	57.294
123.740	1.075	0	0	57.294
123.760	283	9	9	57.303
123.780	39	277	39	57.342
123.800	4	1.005	4	57.346
123.820	5	1.327	5	57.351
123.840	5	1.578	5	57.356
123.860	14	1.580	14	57.370
123.880	50	1.121	50	57.420
123.900	10	1.141	10	57.430
123.920	4	1.137	4	57.434
123.940	23	1.014	23	57.457
123.960	5	1.281	5	57.463
123.980	5	1.975	5	57.467
124.000	4	2.321	4	57.471
124.020	4	2.206	4	57.476
124.040	12	1.571	12	57.487
124.060	308	850	308	57.795
124.080	786	171	171	57.966
124.100	1.215	22	22	57.988
124.120	1.411	0	0	57.988
124.140	1.597	0	0	57.988
124.160	1.458	2	2	57.990
124.180	955	47	47	58.037
124.200	342	246	246	58.283
124.220	58	619	58	58.340
124.240	3	717	3	58.344
124.260	6	850	6	58.349
124.280	6	1.097	6	58.355
124.300	4	846	4	58.359
124.320	108	552	108	58.468
124.340	533	374	374	58.842
124.360	832	376	376	59.218
124.380	954	492	492	59.710
124.400	1.206	509	509	60.219
124.420	1.623	341	341	60.559
124.440	1.995	277	277	60.836
124.460	2.355	46	46	60.882
124.480	1.909	3	3	60.885
124.500	1.322	43	43	60.928
124.520	868	270	270	61.198
124.540	423	553	423	61.621
124.560	183	700	183	61.804
124.580	122	1.049	122	61.926
124.600	127	946	127	62.052
124.620	126	1.243	126	62.178
124.640	48	1.689	48	62.226
124.660	18	2.136	18	62.244
124.680	8	2.234	8	62.252

**COMPENSACIÓN TRANSVERSAL. Alternativa 2**

P.K. inicial	Terraplén	Desmonte	Compensación Parcial (m <sup>3</sup> )	Compensación Acumulada (m <sup>3</sup> )
124.700	66	2.060	66	62.319
124.720	53	2.532	53	62.372
124.740	3	3.224	3	62.375
124.760	4	3.310	4	62.378
124.780	85	2.021	85	62.464
124.800	390	1.187	390	62.854
124.820	340	1.310	340	63.193
124.840	168	1.078	168	63.361
124.860	290	546	290	63.651
124.880	592	310	310	63.962
124.900	732	105	105	64.067
124.920	636	194	194	64.260
124.940	711	526	526	64.786
124.960	656	742	656	65.442
124.980	407	716	407	65.850
125.000	245	965	245	66.095
125.020	114	1.426	114	66.209
125.040	294	1.578	294	66.503
125.060	61	1.954	61	66.564
125.080	5	2.402	5	66.569
125.100	25	2.398	25	66.594
125.120	753	1.093	753	67.348
125.140	1.211	211	211	67.558
125.160	1.196	134	134	67.693
125.180	975	183	183	67.875
125.200	1.185	47	47	67.923
125.220	2.335	0	0	67.923
125.240	1.168	0	0	67.923
125.260	0	0	0	67.923
125.280	0	0	0	67.923
125.300	0	0	0	67.923
125.320	3.522	0	0	67.923
125.340	2.538	0	0	67.923
125.360	2.651	0	0	67.923
125.380	3.200	0	0	67.923
125.400	2.436	37	37	67.960
125.420	1.276	245	245	68.205
125.440	562	413	413	68.618
125.460	245	598	245	68.862
125.480	173	674	173	69.035
125.500	338	652	338	69.373
125.520	524	492	492	69.865
125.540	714	435	435	70.300
125.560	617	609	609	70.908
125.580	465	638	465	71.374
125.600	465	539	465	71.838
125.620	547	542	542	72.380
125.640	512	610	512	72.893
125.660	578	567	567	73.460
125.680	732	343	343	73.802
125.700	947	76	76	73.879

**COMPENSACIÓN TRANSVERSAL. Alternativa 2**

P.K. inicial	Terraplén	Desmorte	Compensación Parcial (m³)	Compensación Acumulada (m³)
125.720	1.164	1	1	73.879
125.740	1.646	0	0	73.879
125.760	2.347	0	0	73.879
125.780	2.271	0	0	73.879
125.800	1.568	0	0	73.879
125.820	615	18	18	73.897
125.840	429	406	406	74.303
125.860	95	1.277	95	74.398
125.880	1.315	1.805	1.315	75.713
125.900	0	0	0	75.713
125.920	0	0	0	75.713
125.940	0	0	0	75.713
125.960	0	0	0	75.713
125.980	0	0	0	75.713
126.000	0	0	0	75.713
126.020	0	0	0	75.713
126.040	0	0	0	75.713
126.060	0	0	0	75.713
126.080	0	0	0	75.713
126.100	0	0	0	75.713
126.120	0	0	0	75.713
126.140	0	0	0	75.713
126.160	0	0	0	75.713
126.180	0	0	0	75.713
126.200	0	0	0	75.713
126.220	0	0	0	75.713
126.240	0	0	0	75.713
126.260	0	0	0	75.713
126.280	0	0	0	75.713
126.300	0	0	0	75.713
126.320	0	0	0	75.713
126.340	0	0	0	75.713
126.360	0	0	0	75.713
126.380	0	0	0	75.713
126.400	5	3.734	5	75.718
126.420	42	1.382	42	75.760
126.440	290	512	290	76.050
126.460	724	524	524	76.573
126.480	1.238	265	265	76.839
126.500	1.323	197	197	77.036
126.520	990	306	306	77.342
126.540	714	277	277	77.619
126.560	216	844	216	77.835
126.580	1	2.398	1	77.836
126.600	1	4.705	1	77.837
126.620	1	5.864	1	77.838
126.640	1	3.450	1	77.839
126.660	139	971	139	77.977
126.680	268	667	268	78.246
126.700	381	582	381	78.626
126.720	387	523	387	79.014

**COMPENSACIÓN TRANSVERSAL. Alternativa 2**

P.K. inicial	Terraplén	Desmorte	Compensación Parcial (m³)	Compensación Acumulada (m³)
126.740	519	425	425	79.439
126.760	489	295	295	79.734
126.780	248	546	248	79.982
126.800	39	1.393	39	80.020
126.820	3	1.463	3	80.023
126.840	5	717	5	80.029
126.860	3	1.200	3	80.032
126.880	3	1.914	3	80.035
126.900	3	2.456	3	80.037
126.920	3	2.571	3	80.040
126.940	3	2.161	3	80.043
126.960	8	1.439	8	80.050
126.980	9	631	9	80.060
127.000	17	338	17	80.077
127.020	29	399	29	80.106
127.040	45	42	42	80.148
127.060	69	13	13	80.160
127.080	18	43	18	80.179
127.100	2	1.453	2	80.181
127.120	5	3.176	5	80.186
127.140	3	4.246	3	80.189
127.160	3	5.208	3	80.191
127.180	3	5.669	3	80.194
127.200	4	5.223	4	80.198
127.220	3	4.653	3	80.201
127.240	2	3.936	2	80.203
127.260	3	2.752	3	80.207
127.280	3	1.555	3	80.210
127.300	3	717	3	80.213
127.320	22	289	22	80.235
127.340	233	119	119	80.354
127.360	472	62	62	80.416
127.380	274	32	32	80.449
127.400	259	8	8	80.456
127.420	200	3	3	80.459
127.440	101	1	1	80.461
127.460	88	2	2	80.462
127.480	96	15	15	80.477
127.500	144	3	3	80.481
127.520	137	0	0	80.481
127.540	189	0	0	80.482
127.560	152	7	7	80.489
127.580	31	42	31	80.519
127.600	115	44	44	80.564
127.620	169	33	33	80.596
127.640	106	28	28	80.624
127.660	2	49	2	80.626
127.680	3	65	3	80.629
127.700	131	61	61	80.690
127.720	574	3	3	80.693
127.740	1.586	0	0	80.693

**COMPENSACIÓN TRANSVERSAL. Alternativa 2**

P.K. inicial	Terraplén	Desmote	Compensación Parcial (m³)	Compensación Acumulada (m³)
127.760	3.158	0	0	80.693
127.780	3.055	0	0	80.693
127.800	1.106	0	0	80.693
127.820	217	0	0	80.693
127.840	38	16	16	80.709
127.860	35	94	35	80.744
127.880	99	74	74	80.818
127.900	68	49	49	80.867
127.920	17	27	17	80.885
127.940	2	51	2	80.886
127.960	3	60	3	80.889
127.980	3	47	3	80.893
128.000	16	12	12	80.904
128.020	23	35	23	80.928
128.040	2	20	2	80.930
128.060	286	6	6	80.936
128.080	36	14	14	80.950
128.100	8	46	8	80.958
128.120	5	51	5	80.963
128.140	4	55	4	80.967
128.160	6	44	6	80.973
128.180	5	50	5	80.978
128.200	54	9	9	80.987
128.220	3	26	3	80.990
128.240	22	30	22	81.012
128.260	1	191	1	81.013
128.280	9	125	9	81.022
128.300	43	6	6	81.028
128.320	169	0	0	81.028
128.340	221	0	0	81.028
128.360	107	0	0	81.028
128.380	94	0	0	81.028
128.400	43	2	2	81.031
128.420	3	58	3	81.034
128.440	3	105	3	81.037
128.460	8	65	8	81.045
128.480	86	54	54	81.100
128.500	456	1	1	81.100
128.520	157	127	127	81.227
128.540	9	287	9	81.235
128.560	141	416	141	81.377
128.580	491	144	144	81.520
128.600	1.056	1	1	81.521
128.620	1.475	0	0	81.521
128.640	885	0	0	81.521
128.660	143	104	104	81.625
128.680	10	364	10	81.635
128.700	30	296	30	81.665
128.720	64	452	64	81.728
128.740	6	507	6	81.734
128.760	90	265	90	81.824

**COMPENSACIÓN TRANSVERSAL. Alternativa 2**

P.K. inicial	Terraplén	Desmote	Compensación Parcial (m³)	Compensación Acumulada (m³)
128.780	322	29	29	81.852
128.800	567	1	1	81.854
128.820	1.857	59	59	81.913
128.840	1	666	1	81.914
128.860	2	306	2	81.916
128.880	2	73	2	81.917
128.900	56	40	40	81.957
128.920	41	518	41	81.998
128.940	1	2.484	1	81.999
128.960	0	3.440	0	81.999
128.980	0	0	0	81.999
129.000	0	0	0	81.999
129.020	0	0	0	81.999
129.040	0	0	0	81.999
129.060	0	0	0	81.999
129.080	0	0	0	81.999
129.100	0	0	0	81.999
129.120	0	0	0	81.999
129.140	0	0	0	81.999
129.160	2	129	2	82.001
129.180	1	161	1	82.003
129.200	3	111	3	82.006
129.220	3	83	3	82.009
129.240	1	96	1	82.010
129.260	1	78	1	82.011
129.280	12	46	12	82.022
129.300	15	69	15	82.037
129.320	0	169	0	82.037
129.340	1	247	1	82.038
129.360	1	2.000	1	82.039
129.380	1	1.185	1	82.040
129.400	0	0	0	82.040
129.420	0	0	0	82.040
129.440	0	0	0	82.040
129.460	0	0	0	82.040
129.480	0	0	0	82.040
129.500	0	0	0	82.040
129.520	0	0	0	82.040
129.540	0	0	0	82.040
129.560	0	0	0	82.040
129.580	0	0	0	82.040
129.600	0	0	0	82.040
129.620	3	0	0	82.040
129.640	6	0	0	82.041
129.660	18	13	13	82.054
129.680	8	128	8	82.063
129.700	1	277	1	82.063
129.720	1	240	1	82.064
129.740	1	163	1	82.065
129.760	0	70	0	82.065
129.780	1	64	1	82.065

**COMPENSACIÓN TRANSVERSAL. Alternativa 2**

P.K. inicial	Terraplén	Desmorte	Compensación Parcial (m³)	Compensación Acumulada (m³)
129.800	2	58	2	82.068
129.820	4	16	4	82.071
129.840	11	0	0	82.071
129.860	30	0	0	82.071
129.880	60	0	0	82.071
129.900	80	1	1	82.072
129.920	48	2	2	82.074
129.940	13	29	13	82.087
129.960	0	28	0	82.087
129.980	0	118	0	82.088
130.000	1	131	1	82.088
130.020	1	85	1	82.090
130.040	0	4.820	0	82.090
130.060	0	0	0	82.090
130.080	0	0	0	82.090
130.100	0	0	0	82.090
130.120	0	0	0	82.090
130.140	0	0	0	82.090
130.160	0	0	0	82.090
130.180	0	0	0	82.090
130.200	0	0	0	82.090
130.220	0	0	0	82.090
130.240	0	0	0	82.090
130.260	1	29	1	82.091
130.280	63	54	54	82.146
130.300	44	55	44	82.189
130.320	24	57	24	82.213
130.340	79	69	69	82.282
130.360	28	143	28	82.310
130.380	109	136	109	82.418
130.400	204	83	83	82.501
130.420	199	66	66	82.567
130.440	51	63	51	82.618
130.460	12	64	12	82.630
130.480	0	59	0	82.630
130.500	1	86	1	82.631
130.520	24	98	24	82.654
130.540	22	97	22	82.676
130.560	41	102	41	82.718
130.580	58	102	58	82.776
130.600	97	81	81	82.857
130.620	187	105	105	82.962
130.640	219	85	85	83.048
130.660	1	62	1	83.048
130.680	1	54	1	83.049
130.700	1	55	1	83.050
130.720	1	37	1	83.051
130.740	0	28	0	83.051
130.760	1	33	1	83.052
130.780	2	24	2	83.054
130.800	17	11	11	83.065

**COMPENSACIÓN TRANSVERSAL. Alternativa 2**

P.K. inicial	Terraplén	Desmorte	Compensación Parcial (m³)	Compensación Acumulada (m³)
130.820	31	8	8	83.073
130.840	44	8	8	83.081
130.860	35	9	9	83.090
130.880	18	13	13	83.103
130.900	125	63	63	83.166
130.920	0	748	0	83.166
130.940	2	2.210	2	83.168
130.960	3	2.144	3	83.171
130.980	6	1.930	6	83.177
131.000	3	1.800	3	83.180
131.020	2	1.413	2	83.183
131.040	0	690	0	83.183
131.060	0	225	0	83.183
131.080	1	127	1	83.183
131.100	104	67	67	83.250
131.120	104	38	38	83.288
131.140	268	17	17	83.305
131.160	317	18	18	83.323
131.180	343	18	18	83.341
131.200	213	23	23	83.364
131.220	177	34	34	83.397
131.240	148	44	44	83.441
131.260	134	51	51	83.493
131.280	112	57	57	83.550
131.300	97	62	62	83.612
131.320	24	90	24	83.636
131.340	1	130	1	83.637
131.360	60	134	60	83.697
131.380	79	68	68	83.765
131.400	57	25	25	83.790
131.420	10	37	10	83.801
131.440	1	36	1	83.801
131.460	5	31	5	83.806
131.480	21	20	20	83.826
131.500	31	18	18	83.844
131.520	61	15	15	83.859
131.540	23	14	14	83.872
131.560	5	16	5	83.878
131.580	30	16	16	83.893
131.600	0	10	0	83.894
131.620	4	7	4	83.898
131.640	11	11	11	83.908
131.660	16	15	15	83.923
131.680	16	14	14	83.937
131.700	21	13	13	83.951
131.720	25	14	14	83.965
131.740	35	15	15	83.979
131.760	36	39	36	84.015
131.780	13	50	13	84.028
131.800	5	49	5	84.034
131.820	14	61	14	84.048

**COMPENSACIÓN TRANSVERSAL. Alternativa 2**

P.K. inicial	Terraplén	Desmonte	Compensación Parcial (m³)	Compensación Acumulada (m³)
131.840	23	57	23	84.071
131.860	21	61	21	84.091
131.880	21	65	21	84.113
131.900	60	64	60	84.172
131.920	63	70	63	84.235
131.940	53	73	53	84.288
131.960	51	73	51	84.339
131.980	24	67	24	84.363
132.000	47	66	47	84.411
132.020	84	64	64	84.475
132.040	69	67	67	84.542
132.060	44	72	44	84.586
132.080	350	41	41	84.627
132.100	1.275	14	14	84.642
132.120	3.168	2	2	84.644
132.140	1	0	0	84.644
132.160	0	0	0	84.644
132.180	0	0	0	84.644
132.200	0	0	0	84.644
132.220	0	0	0	84.644
132.240	0	0	0	84.644
132.260	0	0	0	84.644
132.280	0	0	0	84.644
132.300	0	0	0	84.644
132.320	3.051	0	0	84.644
132.340	1.535	3	3	84.647
132.360	930	42	42	84.689
132.380	460	24	24	84.713
132.400	151	168	151	84.864
132.420	13	60	13	84.877
132.440	11	71	11	84.888
132.460	23	59	23	84.911
132.480	53	41	41	84.952
132.500	69	39	39	84.991
132.520	123	45	45	85.036
132.540	61	57	57	85.092
132.560	7	81	7	85.099
132.580	1	89	1	85.100
132.600	1	114	1	85.101
132.620	1	149	1	85.102
132.640	3	132	3	85.105
132.660	41	122	41	85.146
132.680	69	103	69	85.215
132.700	74	111	74	85.289
132.720	28	64	28	85.316
132.740	31	55	31	85.348
132.760	128	53	53	85.401
132.780	276	38	38	85.439
132.800	519	35	35	85.473
132.820	740	53	53	85.527
132.840	531	88	88	85.614

**COMPENSACIÓN TRANSVERSAL. Alternativa 2**

P.K. inicial	Terraplén	Desmonte	Compensación Parcial (m³)	Compensación Acumulada (m³)
132.860	531	89	89	85.703
132.880	577	87	87	85.790
132.900	487	87	87	85.877
132.920	419	82	82	85.959
132.940	550	66	66	86.025
132.960	689	56	56	86.082
132.980	751	57	57	86.139
133.000	818	62	62	86.200
133.020	324	57	57	86.257
133.040	7	79	7	86.264
133.060	1	101	1	86.265
133.080	0	126	0	86.265
133.100	5	109	5	86.270
133.120	16	95	16	86.286
133.140	2	126	2	86.288
133.160	0	131	0	86.288
133.180	1	137	1	86.289
133.200	1	113	1	86.290
133.220	0	62	0	86.290
133.240	6	56	6	86.296
133.260	14	104	14	86.310
133.280	65	107	65	86.376
133.300	44	113	44	86.420
133.320	13	104	13	86.433
133.340	50	79	50	86.483
133.360	133	87	87	86.570
133.380	125	176	125	86.695
133.400	77	66	66	86.761
133.420	33	174	33	86.794
133.440	50	345	50	86.844
133.460	21	403	21	86.865
133.480	1	331	1	86.866
133.500	12	282	12	86.878
133.520	20	229	20	86.898
133.540	44	181	44	86.942
133.560	33	120	33	86.975
133.580	1	203	1	86.977
133.600	5	146	5	86.982
133.620	30	137	30	87.011
133.640	48	124	48	87.059
133.660	13	143	13	87.072
133.680	2	135	2	87.074
133.700	31	81	31	87.106
133.720	16	69	16	87.122
133.740	14	61	14	87.135
133.760	7	66	7	87.143
133.780	1	89	1	87.144
133.800	4	128	4	87.148
133.820	10	99	10	87.158
133.840	7	92	7	87.165
133.860	1	128	1	87.166

**COMPENSACIÓN TRANSVERSAL. Alternativa 2**

P.K. inicial	Terraplén	Desmonte	Compensación Parcial (m <sup>3</sup> )	Compensación Acumulada (m <sup>3</sup> )
133.880	7	209	7	87.173
133.900	3	184	3	87.175
133.920	3	27	3	87.179
133.940	40	18	18	87.197
133.960	27	48	27	87.224
133.980	6	98	6	87.230
134.000	0	111	0	87.230
134.020	7	131	7	87.237
134.040	5	143	5	87.241
134.060	1	93	1	87.242
134.080	1	56	1	87.243
134.100	0	26	0	87.243
134.120	0	22	0	87.243
134.140	0	28	0	87.243
134.160	1	143	1	87.244

*Alternativa 3*







Movimiento de tierras. Alternativa 3

Table with 12 columns: P.K. inicial, P.K. final, T.V. acumulada, Terraplén, Desmonte, Excavación túnel, Suelo Seleccionado 2, Suelo Estabilizado 3, Tierra marginal, Relleno Total, Excavación total, Diagrama de masas. Includes a 'Coef. Paso = 1,182' row. Includes a vertical label 'TRAMO 1A' on the left.

Movimiento de tierras. Alternativa 3

Table with 12 columns: P.K. inicial, P.K. final, T.V. acumulada, Terraplén, Desmonte, Excavación túnel, Suelo Seleccionado 2, Suelo Estabilizado 3, Tierra marginal, Relleno Total, Excavación total, Diagrama de masas. Includes a 'Coef. Paso = 1,182' row.























**COMPENSACIÓN TRANSVERSAL. Alternativa 3**

P.K. inicial	Terraplén	Desmote	Compensación Parcial (m³)	Compensación Acumulada (m³)
94.958	349	195	195	195
94.960	349	195	195	390
94.980	349	195	195	585
95.000	349	195	195	780
95.020	349	195	195	975
95.040	349	195	195	1.170
95.060	349	195	195	1.365
95.080	349	195	195	1.560
95.100	349	195	195	1.755
95.120	349	195	195	1.950
95.140	349	195	195	2.145
95.160	349	195	195	2.340
95.180	349	195	195	2.535
95.200	349	195	195	2.730
95.220	349	195	195	2.925
95.240	349	195	195	3.120
95.260	349	195	195	3.315
95.280	349	195	195	3.510
95.300	349	195	195	3.705
95.320	349	195	195	3.900
95.340	349	195	195	4.095
95.360	349	195	195	4.290
95.380	349	195	195	4.485
95.400	349	195	195	4.680
95.420	349	195	195	4.875
95.440	349	195	195	5.070
95.460	349	195	195	5.265
95.480	611	203	203	5.468
95.500	349	195	195	5.663
95.520	349	195	195	5.858
95.540	349	195	195	6.053
95.560	349	195	195	6.248
95.580	349	195	195	6.443
95.600	349	195	195	6.638
95.620	349	195	195	6.833
95.640	349	195	195	7.028
95.660	349	195	195	7.223
95.680	349	195	195	7.418
95.700	349	195	195	7.613
95.720	349	195	195	7.808
95.740	349	195	195	8.003
95.760	349	195	195	8.198
95.780	349	195	195	8.393
95.800	349	195	195	8.588
95.820	349	195	195	8.783
95.840	2.552	0	0	8.783
95.860	1.358	0	0	8.783
95.880	0	0	0	8.783
95.900	0	0	0	8.783
95.920	0	0	0	8.783
95.940	900	2	2	8.785

**COMPENSACIÓN TRANSVERSAL. Alternativa 3**

P.K. inicial	Terraplén	Desmote	Compensación Parcial (m³)	Compensación Acumulada (m³)
95.960	10	336	10	8.795
95.980	0	1.246	0	8.795
96.000	0	3.198	0	8.795
96.020	0	8.539	0	8.795
96.040	0	16.570	0	8.795
96.060	0	0	0	8.795
96.080	0	0	0	8.795
96.100	0	0	0	8.795
96.120	0	0	0	8.795
96.140	0	0	0	8.795
96.160	0	0	0	8.795
96.180	0	0	0	8.795
96.200	0	0	0	8.795
96.220	0	0	0	8.795
96.240	0	0	0	8.795
96.260	0	0	0	8.795
96.280	0	0	0	8.795
96.300	0	0	0	8.795
96.320	0	0	0	8.795
96.340	0	0	0	8.795
96.360	0	0	0	8.795
96.380	0	0	0	8.795
96.400	0	0	0	8.795
96.420	0	0	0	8.795
96.440	0	0	0	8.795
96.460	0	0	0	8.795
96.480	0	0	0	8.795
96.500	0	0	0	8.795
96.520	0	0	0	8.795
96.540	0	0	0	8.795
96.560	0	0	0	8.795
96.580	0	0	0	8.795
96.600	0	0	0	8.795
96.620	0	0	0	8.795
96.640	0	0	0	8.795
96.660	0	0	0	8.795
96.680	0	0	0	8.795
96.700	0	0	0	8.795
96.720	0	0	0	8.795
96.740	0	0	0	8.795
96.760	0	0	0	8.795
96.780	0	0	0	8.795
96.800	0	0	0	8.795
96.820	0	0	0	8.795
96.840	0	0	0	8.795
96.860	0	0	0	8.795
96.880	0	0	0	8.795
96.900	0	0	0	8.795
96.920	0	0	0	8.795
96.940	0	0	0	8.795
96.960	0	0	0	8.795

**COMPENSACIÓN TRANSVERSAL. Alternativa 3**

P.K. inicial	Terraplén	Desmonte	Compensación Parcial (m <sup>3</sup> )	Compensación Acumulada (m <sup>3</sup> )
96.980	0	0	0	8.795
97.000	0	0	0	8.795
97.020	0	0	0	8.795
97.040	0	0	0	8.795
97.060	0	0	0	8.795
97.080	0	0	0	8.795
97.100	0	0	0	8.795
97.120	0	0	0	8.795
97.140	0	0	0	8.795
97.160	0	0	0	8.795
97.180	0	0	0	8.795
97.200	0	0	0	8.795
97.220	0	0	0	8.795
97.240	0	0	0	8.795
97.260	0	0	0	8.795
97.280	0	0	0	8.795
97.300	0	0	0	8.795
97.320	0	0	0	8.795
97.340	0	0	0	8.795
97.360	0	0	0	8.795
97.380	0	0	0	8.795
97.400	0	0	0	8.795
97.420	0	0	0	8.795
97.440	0	0	0	8.795
97.460	0	0	0	8.795
97.480	0	0	0	8.795
97.500	0	0	0	8.795
97.520	0	0	0	8.795
97.540	0	0	0	8.795
97.560	0	0	0	8.795
97.580	0	0	0	8.795
97.600	0	0	0	8.795
97.620	0	0	0	8.795
97.640	0	0	0	8.795
97.660	0	0	0	8.795
97.680	0	0	0	8.795
97.700	0	0	0	8.795
97.720	0	0	0	8.795
97.740	0	0	0	8.795
97.760	0	0	0	8.795
97.780	0	0	0	8.795
97.800	0	0	0	8.795
97.820	0	0	0	8.795
97.840	0	0	0	8.795
97.860	0	0	0	8.795
97.880	0	0	0	8.795
97.900	0	0	0	8.795
97.920	0	0	0	8.795
97.940	0	0	0	8.795
97.960	0	0	0	8.795
97.980	0	0	0	8.795

**COMPENSACIÓN TRANSVERSAL. Alternativa 3**

P.K. inicial	Terraplén	Desmonte	Compensación Parcial (m <sup>3</sup> )	Compensación Acumulada (m <sup>3</sup> )
98.000	0	0	0	8.795
98.020	0	0	0	8.795
98.040	0	0	0	8.795
98.060	0	0	0	8.795
98.080	0	0	0	8.795
98.100	0	0	0	8.795
98.120	0	0	0	8.795
98.140	0	0	0	8.795
98.160	0	0	0	8.795
98.180	0	0	0	8.795
98.200	0	0	0	8.795
98.220	0	0	0	8.795
98.240	0	0	0	8.795
98.260	0	0	0	8.795
98.280	0	0	0	8.795
98.300	0	0	0	8.795
98.320	0	0	0	8.795
98.340	0	0	0	8.795
98.360	0	0	0	8.795
98.380	0	0	0	8.795
98.400	0	0	0	8.795
98.420	0	0	0	8.795
98.440	0	0	0	8.795
98.460	0	0	0	8.795
98.480	0	0	0	8.795
98.500	0	0	0	8.795
98.520	0	0	0	8.795
98.540	0	0	0	8.795
98.560	0	0	0	8.795
98.580	0	0	0	8.795
98.600	0	0	0	8.795
98.620	0	0	0	8.795
98.640	0	0	0	8.795
98.660	0	0	0	8.795
98.680	0	0	0	8.795
98.700	0	0	0	8.795
98.720	0	0	0	8.795
98.740	0	0	0	8.795
98.760	0	0	0	8.795
98.780	0	0	0	8.795
98.800	0	0	0	8.795
98.820	0	0	0	8.795
98.840	0	0	0	8.795
98.860	0	0	0	8.795
98.880	0	0	0	8.795
98.900	0	0	0	8.795
98.920	0	0	0	8.795
98.940	0	0	0	8.795
98.960	0	0	0	8.795
98.980	0	0	0	8.795
99.000	0	0	0	8.795

**COMPENSACIÓN TRANSVERSAL. Alternativa 3**

P.K. inicial	Terraplén	Desmonte	Compensación Parcial (m³)	Compensación Acumulada (m³)
99.020	0	0	0	8.795
99.040	0	0	0	8.795
99.060	0	0	0	8.795
99.080	0	0	0	8.795
99.100	0	0	0	8.795
99.120	0	0	0	8.795
99.140	0	0	0	8.795
99.160	0	0	0	8.795
99.180	1	7	1	8.796
99.200	0	5.475	0	8.796
99.220	0	1.556	0	8.796
99.240	675	56	56	8.852
99.260	2.671	0	0	8.852
99.280	4.079	0	0	8.852
99.300	3.354	0	0	8.852
99.320	0	0	0	8.852
99.340	0	0	0	8.852
99.360	0	0	0	8.852
99.380	0	0	0	8.852
99.400	0	0	0	8.852
99.420	0	0	0	8.852
99.440	0	0	0	8.852
99.460	0	0	0	8.852
99.480	0	0	0	8.852
99.500	0	0	0	8.852
99.520	0	0	0	8.852
99.540	0	0	0	8.852
99.560	3.347	0	0	8.852
99.580	947	11	11	8.863
99.600	2	70	2	8.865
99.620	2	169	2	8.867
99.640	86	140	86	8.952
99.660	1.482	10	10	8.962
99.680	1	0	0	8.962
99.700	0	0	0	8.962
99.720	0	0	0	8.962
99.740	0	0	0	8.962
99.760	1.692	62	62	9.024
99.780	10.075	399	399	9.423
99.800	0	450	0	9.423
99.820	96	241	96	9.519
99.840	459	91	91	9.611
99.860	285	28	28	9.639
99.880	987	0	0	9.639
99.900	448	132	132	9.771
99.920	0	3.576	0	9.771
99.940	0	0	0	9.771
99.960	0	0	0	9.771
99.980	0	0	0	9.771
100.000	0	0	0	9.771
100.020	0	0	0	9.771

**COMPENSACIÓN TRANSVERSAL. Alternativa 3**

P.K. inicial	Terraplén	Desmonte	Compensación Parcial (m³)	Compensación Acumulada (m³)
100.040	0	0	0	9.771
100.060	0	0	0	9.771
100.080	0	0	0	9.771
100.100	0	0	0	9.771
100.120	0	0	0	9.771
100.140	0	0	0	9.771
100.160	0	0	0	9.771
100.180	0	0	0	9.771
100.200	0	0	0	9.771
100.220	0	0	0	9.771
100.240	0	0	0	9.771
100.260	0	0	0	9.771
100.280	0	0	0	9.771
100.300	0	0	0	9.771
100.320	0	0	0	9.771
100.340	0	0	0	9.771
100.360	0	0	0	9.771
100.380	0	0	0	9.771
100.400	0	0	0	9.771
100.420	0	0	0	9.771
100.440	0	0	0	9.771
100.460	0	0	0	9.771
100.480	0	0	0	9.771
100.500	0	0	0	9.771
100.520	0	0	0	9.771
100.540	0	0	0	9.771
100.560	0	0	0	9.771
100.580	0	0	0	9.771
100.600	0	0	0	9.771
100.620	0	0	0	9.771
100.640	0	0	0	9.771
100.660	0	0	0	9.771
100.680	0	0	0	9.771
100.700	0	0	0	9.771
100.720	0	0	0	9.771
100.740	0	0	0	9.771
100.760	0	0	0	9.771
100.780	0	0	0	9.771
100.800	0	0	0	9.771
100.820	0	0	0	9.771
100.840	0	0	0	9.771
100.860	0	0	0	9.771
100.880	0	0	0	9.771
100.900	0	0	0	9.771
100.920	0	0	0	9.771
100.940	0	0	0	9.771
100.960	0	0	0	9.771
100.980	0	0	0	9.771
101.000	0	0	0	9.771
101.020	0	0	0	9.771
101.040	0	0	0	9.771

**COMPENSACIÓN TRANSVERSAL. Alternativa 3**

P.K. inicial	Terraplén	Desmonte	Compensación Parcial (m³)	Compensación Acumulada (m³)
101.060	0	0	0	9.771
101.080	0	0	0	9.771
101.100	0	0	0	9.771
101.120	0	0	0	9.771
101.140	0	0	0	9.771
101.160	0	0	0	9.771
101.180	0	0	0	9.771
101.200	0	0	0	9.771
101.220	0	0	0	9.771
101.240	0	0	0	9.771
101.260	0	0	0	9.771
101.280	0	0	0	9.771
101.300	0	0	0	9.771
101.320	0	0	0	9.771
101.340	0	0	0	9.771
101.360	0	0	0	9.771
101.380	0	0	0	9.771
101.400	0	0	0	9.771
101.420	0	0	0	9.771
101.440	0	0	0	9.771
101.460	0	0	0	9.771
101.480	0	0	0	9.771
101.500	0	0	0	9.771
101.520	0	0	0	9.771
101.540	0	0	0	9.771
101.560	0	0	0	9.771
101.580	0	0	0	9.771
101.600	0	0	0	9.771
101.620	0	0	0	9.771
101.640	0	0	0	9.771
101.660	0	0	0	9.771
101.680	0	0	0	9.771
101.700	0	0	0	9.771
101.720	0	0	0	9.771
101.740	0	0	0	9.771
101.760	0	0	0	9.771
101.780	0	0	0	9.771
101.800	0	0	0	9.771
101.820	0	0	0	9.771
101.840	0	0	0	9.771
101.860	0	0	0	9.771
101.880	0	0	0	9.771
101.900	0	0	0	9.771
101.920	0	0	0	9.771
101.940	0	0	0	9.771
101.960	0	0	0	9.771
101.980	0	0	0	9.771
102.000	0	0	0	9.771
102.020	0	0	0	9.771
102.040	0	0	0	9.771
102.060	0	0	0	9.771

**COMPENSACIÓN TRANSVERSAL. Alternativa 3**

P.K. inicial	Terraplén	Desmonte	Compensación Parcial (m³)	Compensación Acumulada (m³)
102.080	0	0	0	9.771
102.100	0	0	0	9.771
102.120	0	936	0	9.771
102.140	176	1.274	176	9.947
102.160	0	0	0	9.947
102.180	0	0	0	9.947
102.200	0	0	0	9.947
102.220	0	0	0	9.947
102.240	0	0	0	9.947
102.260	0	0	0	9.947
102.280	436	7	7	9.955
102.300	113	1.125	113	10.067
102.320	0	0	0	10.067
102.340	0	0	0	10.067
102.360	0	0	0	10.067
102.380	0	0	0	10.067
102.400	0	0	0	10.067
102.420	0	0	0	10.067
102.440	0	0	0	10.067
102.460	0	0	0	10.067
102.480	0	0	0	10.067
102.500	0	0	0	10.067
102.520	0	0	0	10.067
102.540	0	0	0	10.067
102.560	0	0	0	10.067
102.580	0	0	0	10.067
102.600	0	0	0	10.067
102.620	0	0	0	10.067
102.640	0	0	0	10.067
102.660	0	0	0	10.067
102.680	0	0	0	10.067
102.700	0	0	0	10.067
102.720	0	0	0	10.067
102.740	0	0	0	10.067
102.760	0	0	0	10.067
102.780	0	0	0	10.067
102.800	0	0	0	10.067
102.820	0	0	0	10.067
102.840	0	0	0	10.067
102.860	0	0	0	10.067
102.880	0	0	0	10.067
102.900	0	0	0	10.067
102.920	0	0	0	10.067
102.940	0	0	0	10.067
102.960	0	0	0	10.067
102.980	0	0	0	10.067
103.000	0	0	0	10.067
103.020	0	0	0	10.067
103.040	0	0	0	10.067
103.060	0	0	0	10.067
103.080	0	0	0	10.067



COMPENSACIÓN TRANSVERSAL. Alternativa 3

P.K. inicial	Terraplén	Desmonte	Compensación Parcial (m <sup>3</sup> )	Compensación Acumulada (m <sup>3</sup> )
103.100	0	0	0	10.067
103.120	0	0	0	10.067
103.140	0	0	0	10.067
103.160	0	0	0	10.067
103.180	0	0	0	10.067
103.200	0	0	0	10.067
103.220	0	4.603	0	10.067
103.240	0	10.568	0	10.067
103.260	27	1.918	27	10.095
103.280	181	998	181	10.276
103.300	0	2.249	0	10.276
103.320	0	3.625	0	10.276
103.340	0	3.638	0	10.276
103.360	0	2.854	0	10.276
103.380	0	3.166	0	10.276
103.400	0	5.167	0	10.276
103.420	0	7.393	0	10.276
103.440	0	7.295	0	10.276
103.460	0	4.232	0	10.276
103.480	0	1.883	0	10.276
103.500	259	1.047	259	10.535
103.520	1.539	120	120	10.655
103.540	2.080	1	1	10.656
103.560	2.497	0	0	10.656
103.580	3.566	0	0	10.656
103.600	4.036	0	0	10.656
103.620	0	0	0	10.656
103.640	0	0	0	10.656
103.660	0	0	0	10.656
103.680	0	0	0	10.656
103.700	0	0	0	10.656
103.720	0	0	0	10.656
103.740	0	0	0	10.656
103.760	0	0	0	10.656
103.780	0	0	0	10.656
103.800	0	0	0	10.656
103.820	925	0	0	10.656
103.840	2.914	0	0	10.656
103.860	1.278	9	9	10.664
103.880	185	90	90	10.754
103.900	0	0	0	10.754
103.920	0	0	0	10.754
103.940	0	0	0	10.754
103.960	0	0	0	10.754
103.980	0	0	0	10.754
104.000	0	0	0	10.754
104.020	0	0	0	10.754
104.040	0	0	0	10.754
104.060	0	0	0	10.754
104.080	0	2.613	0	10.754
104.100	0	5.235	0	10.754

COMPENSACIÓN TRANSVERSAL. Alternativa 3

P.K. inicial	Terraplén	Desmonte	Compensación Parcial (m <sup>3</sup> )	Compensación Acumulada (m <sup>3</sup> )
104.120	758	480	480	11.234
104.140	1.156	0	0	11.234
104.160	0	0	0	11.234
104.180	0	0	0	11.234
104.200	733	0	0	11.234
104.220	511	278	278	11.512
104.240	0	2.027	0	11.512
104.260	0	2.235	0	11.512
104.280	0	1.295	0	11.512
104.300	166	248	166	11.678
104.320	2.054	0	0	11.678
104.340	5.001	0	0	11.678
104.360	4.115	0	0	11.678
104.380	4.651	0	0	11.678
104.400	6.692	0	0	11.678
104.420	8.016	0	0	11.678
104.440	9.252	0	0	11.678
104.460	10.576	0	0	11.678
104.480	8.494	0	0	11.678
104.500	0	0	0	11.678
104.520	0	0	0	11.678
104.540	0	0	0	11.678
104.560	0	0	0	11.678
104.580	0	0	0	11.678
104.600	0	0	0	11.678
104.620	0	0	0	11.678
104.640	0	0	0	11.678
104.660	0	0	0	11.678
104.680	0	0	0	11.678
104.700	0	0	0	11.678
104.720	0	0	0	11.678
104.740	0	0	0	11.678
104.760	0	0	0	11.678
104.780	0	0	0	11.678
104.800	0	0	0	11.678
104.820	0	0	0	11.678
104.840	0	0	0	11.678
104.860	0	0	0	11.678
104.880	0	0	0	11.678
104.900	0	0	0	11.678
104.920	0	0	0	11.678
104.940	0	0	0	11.678
104.960	0	0	0	11.678
104.980	884	0	0	11.678
105.000	1.535	40	40	11.718
105.020	600	1.243	600	12.318
105.040	115	3.871	115	12.433
105.060	0	4.947	0	12.433
105.080	0	5.202	0	12.433
105.100	0	5.044	0	12.433
105.120	0	4.007	0	12.433

**COMPENSACIÓN TRANSVERSAL. Alternativa 3**

P.K. inicial	Terraplén	Desmonte	Compensación Parcial (m <sup>3</sup> )	Compensación Acumulada (m <sup>3</sup> )
105.140	0	2.385	0	12.433
105.160	0	2.123	0	12.433
105.180	26.276	21.699	21.699	34.133
105.200	0	255	0	34.133
105.220	100	876	100	34.233
105.240	781	158	158	34.391
105.260	999	125	125	34.515
105.280	170	536	170	34.685
105.300	12	809	12	34.696
105.320	0	683	0	34.696
105.340	31	697	31	34.727
105.360	338	353	338	35.066
105.380	1.203	45	45	35.110
105.400	2.286	0	0	35.110
105.420	1.889	0	0	35.111
105.440	592	526	526	35.637
105.460	519	305	305	35.942
105.480	674	83	83	36.025
105.500	799	4	4	36.029
105.520	725	0	0	36.029
105.540	682	1	1	36.030
105.560	842	70	70	36.100
105.580	1.055	141	141	36.240
105.600	791	206	206	36.447
105.620	333	297	297	36.743
105.640	87	471	87	36.830
105.660	21	795	21	36.851
105.680	0	2.362	0	36.851
105.700	0	6.371	0	36.851
105.720	0	0	0	36.851
105.740	0	0	0	36.851
105.760	0	0	0	36.851
105.780	0	0	0	36.851
105.800	0	0	0	36.851
105.820	0	0	0	36.851
105.840	0	0	0	36.851
105.860	0	0	0	36.851
105.880	0	0	0	36.851
105.900	0	0	0	36.851
105.920	0	0	0	36.851
105.940	0	0	0	36.851
105.960	0	0	0	36.851
105.980	0	0	0	36.851
106.000	0	0	0	36.851
106.020	0	0	0	36.851
106.040	0	0	0	36.851
106.060	0	0	0	36.851
106.080	0	0	0	36.851
106.100	0	0	0	36.851
106.120	0	0	0	36.851
106.140	0	0	0	36.851

**COMPENSACIÓN TRANSVERSAL. Alternativa 3**

P.K. inicial	Terraplén	Desmonte	Compensación Parcial (m <sup>3</sup> )	Compensación Acumulada (m <sup>3</sup> )
106.160	0	0	0	36.851
106.180	0	0	0	36.851
106.200	0	0	0	36.851
106.220	0	0	0	36.851
106.240	0	0	0	36.851
106.260	0	0	0	36.851
106.280	0	0	0	36.851
106.300	0	0	0	36.851
106.320	0	0	0	36.851
106.340	0	0	0	36.851
106.360	0	0	0	36.851
106.380	0	0	0	36.851
106.400	0	0	0	36.851
106.420	0	0	0	36.851
106.440	0	0	0	36.851
106.460	0	0	0	36.851
106.480	0	0	0	36.851
106.500	0	0	0	36.851
106.520	0	0	0	36.851
106.540	0	0	0	36.851
106.560	0	0	0	36.851
106.580	0	0	0	36.851
106.600	0	0	0	36.851
106.620	0	0	0	36.851
106.640	0	0	0	36.851
106.660	0	4.599	0	36.851
106.680	0	5.814	0	36.851
106.700	0	6.334	0	36.851
106.720	0	4.918	0	36.851
106.740	0	3.126	0	36.851
106.760	0	1.663	0	36.851
106.780	0	703	0	36.851
106.800	234	95	95	36.947
106.820	1.414	0	0	36.947
106.840	2.351	0	0	36.947
106.860	2.991	0	0	36.947
106.880	5.597	172	172	37.119
106.900	2.104	0	0	37.119
106.920	0	0	0	37.119
106.940	0	0	0	37.119
106.960	2.786	0	0	37.119
106.980	2.187	0	0	37.119
107.000	502	182	182	37.301
107.020	0	1.143	0	37.301
107.040	0	1.444	0	37.301
107.060	0	1.106	0	37.301
107.080	3	572	3	37.304
107.100	31	217	31	37.335
107.120	37	165	37	37.372
107.140	34	157	34	37.406
107.160	31	157	31	37.437

COMPENSACIÓN TRANSVERSAL. Alternativa 3

P.K. inicial	Terraplén	Desmonte	Compensación Parcial (m³)	Compensación Acumulada (m³)
107.180	30	151	30	37.467
107.200	35	142	35	37.502
107.220	51	163	51	37.553
107.240	107	122	107	37.660
107.260	217	75	75	37.735
107.280	293	56	56	37.791
107.300	321	22	22	37.813
107.320	345	7	7	37.819
107.340	360	1	1	37.821
107.360	267	8	8	37.828
107.380	168	55	55	37.883
107.400	193	76	76	37.959
107.420	308	16	16	37.975
107.440	396	1	1	37.976
107.460	504	0	0	37.976
107.480	724	0	0	37.976
107.500	1.149	0	0	37.976
107.520	314	0	0	37.976
107.540	0	0	0	37.976
107.560	0	0	0	37.976
107.580	0	0	0	37.976
107.600	0	0	0	37.976
107.620	0	0	0	37.976
107.640	0	0	0	37.976
107.660	0	0	0	37.976
107.680	0	0	0	37.976
107.700	0	0	0	37.976
107.720	0	0	0	37.976
107.740	0	0	0	37.976
107.760	0	0	0	37.976
107.780	0	0	0	37.976
107.800	0	0	0	37.976
107.820	0	0	0	37.976
107.840	0	0	0	37.976
107.860	0	0	0	37.976
107.880	0	0	0	37.976
107.900	0	0	0	37.976
107.920	70.048	2.865	2.865	40.842
107.940	0	0	0	40.842
107.960	0	0	0	40.842
107.980	0	0	0	40.842
108.000	0	0	0	40.842
108.020	0	0	0	40.842
108.040	0	0	0	40.842
108.060	0	0	0	40.842
109.393	32	133	32	40.874
109.400	48	290	48	40.922
109.420	90	272	90	41.012
109.440	171	1.249	171	41.183
109.460	241	1.181	241	41.424
109.480	182	827	182	41.606

COMPENSACIÓN TRANSVERSAL. Alternativa 3

P.K. inicial	Terraplén	Desmonte	Compensación Parcial (m³)	Compensación Acumulada (m³)
109.500	40	1.163	40	41.645
109.520	5	1.445	5	41.651
109.540	6	1.705	6	41.657
109.560	7	1.698	7	41.664
109.580	14	1.449	14	41.677
109.600	175	414	175	41.852
109.620	734	0	0	41.852
109.640	272	0	0	41.852
109.660	0	0	0	41.852
109.680	0	0	0	41.852
109.700	0	0	0	41.852
109.720	0	0	0	41.852
109.740	0	0	0	41.852
109.760	0	0	0	41.852
109.780	0	0	0	41.852
109.800	0	0	0	41.852
109.820	0	0	0	41.852
109.840	1.371	0	0	41.852
109.860	1.123	0	0	41.852
109.880	866	0	0	41.852
109.900	537	1	1	41.853
109.920	330	0	0	41.853
109.940	239	0	0	41.853
109.960	189	0	0	41.853
109.980	102	0	0	41.853
110.000	173	0	0	41.853
110.020	327	0	0	41.853
110.040	501	0	0	41.853
110.060	558	0	0	41.853
110.080	768	0	0	41.853
110.100	1.109	0	0	41.853
110.120	1.043	0	0	41.853
110.140	641	0	0	41.853
110.160	945	0	0	41.853
110.180	1.184	0	0	41.853
110.200	1.390	0	0	41.853
110.220	1.463	0	0	41.853
110.240	1.417	1	1	41.854
110.260	1.398	0	0	41.855
110.280	1.389	0	0	41.855
110.300	1.410	0	0	41.855
110.320	1.430	0	0	41.855
110.340	1.606	1	1	41.856
110.360	1.718	0	0	41.856
110.380	1.343	0	0	41.856
110.400	51.698	1.640	1.640	43.496
110.420	3.336	834	834	44.330
110.440	878	0	0	44.330
110.460	1.702	1	1	44.330
110.480	1.741	0	0	44.330
110.500	2.020	0	0	44.330

**COMPENSACIÓN TRANSVERSAL. Alternativa 3**

P.K. inicial	Terraplén	Desmonte	Compensación Parcial (m³)	Compensación Acumulada (m³)
110.520	1.580	0	0	44.330
110.540	1.470	0	0	44.330
110.560	1.322	0	0	44.330
110.580	1.089	0	0	44.330
110.600	804	0	0	44.330
110.620	564	0	0	44.330
110.640	362	0	0	44.330
110.660	187	0	0	44.331
110.680	63	7	7	44.337
110.700	7	21	7	44.345
110.720	11	418	11	44.355
110.740	141	306	141	44.496
110.760	189	261	189	44.686
110.780	174	228	174	44.860
110.800	133	180	133	44.993
110.820	108	122	108	45.101
110.840	105	73	73	45.174
110.860	170	44	44	45.218
110.880	216	37	37	45.255
110.900	256	54	54	45.309
110.920	130	92	92	45.401
110.940	42	180	42	45.443
110.960	50	792	50	45.493
110.980	21	798	21	45.514
111.000	3	1.526	3	45.517
111.020	10	744	10	45.527
111.040	10	1.027	10	45.537
111.060	19	1.216	19	45.556
111.080	49	206	49	45.605
111.100	56	523	56	45.661
111.120	56	893	56	45.717
111.140	40	2.180	40	45.757
111.160	43	669	43	45.800
111.180	76	0	0	45.800
111.200	47	11	11	45.811
111.220	14	74	14	45.825
111.240	159	78	78	45.903
111.260	1.405	1	1	45.904
111.280	2.517	0		45.904
111.300	1.308	22		45.904
111.320	23	481		45.904
111.340	5	459		45.904
111.360	23	294		45.904
111.380	278	20		45.904
111.400	9	103		45.904
111.420	9	145		45.904
111.440	54	60		45.904
111.460	155	117		45.904
111.480	248	83		45.904
111.500	99	0		45.904
111.520	2	5		45.904

**COMPENSACIÓN TRANSVERSAL. Alternativa 3**

P.K. inicial	Terraplén	Desmonte	Compensación Parcial (m³)	Compensación Acumulada (m³)
111.540	11	15		45.904
111.560	7	56		45.904
111.580	11.000	971		45.904
111.600	16	138		45.904
111.620	15	90	15	45.919
111.640	110	42	42	45.960
111.660	96	46	46	46.006
111.680	23	31	23	46.029
111.700	19	56	19	46.048
111.720	21	25	21	46.069
111.740	203	96	96	46.165
111.760	334	98	98	46.263
111.780	148	116	116	46.379
111.800	60	163	60	46.438
111.820	16	224	16	46.454
111.840	5	388	5	46.459
111.860	4	131	4	46.463
111.880	10	263	10	46.472
111.900	61	170	61	46.533
111.920	314	5	5	46.538
111.940	407	0	0	46.539
111.960	370	0	0	46.539
111.980	1.060	0	0	46.539
112.000	891	9	9	46.548
112.020	464	0	0	46.548
112.040	310	119	119	46.666
112.060	576	2.171	576	47.242
112.080	541	3.968	541	47.783
112.100	620	3.693	620	48.403
112.120	66	2.529	66	48.469
112.140	56	2.528	56	48.525
112.160	96	3.227	96	48.621
112.180	63	2.657	63	48.684
112.200	229	1.222	229	48.914
112.220	454	1.043	454	49.368
112.240	535	1.467	535	49.902
112.260	546	1.232	546	50.448
112.280	595	148	148	50.596
112.300	738	1	1	50.597
112.320	596	0	0	50.597
112.340	472	0	0	50.597
112.360	102	1	1	50.598
112.380	36	18	18	50.616
112.400	6	30	6	50.621
112.420	17	25	17	50.638
112.440	38	37	37	50.675
112.460	71	27	27	50.702
112.480	41	51	41	50.742
112.500	5	141	5	50.748
112.520	6	203	6	50.754
112.540	14	341	14	50.767

## COMPENSACIÓN TRANSVERSAL. Alternativa 3

P.K. inicial	Terraplén	Desmonte	Compensación Parcial (m <sup>3</sup> )	Compensación Acumulada (m <sup>3</sup> )
112.560	16	323	16	50.784
112.580	4	309	4	50.788
112.600	25	173	25	50.812
112.620	49	88	49	50.862
112.640	71	39	39	50.901
112.660	87	8	8	50.908
112.680	103	0	0	50.908
112.700	98	0	0	50.908
112.720	119	0	0	50.908
112.740	47	0	0	50.908
112.760	27	0	0	50.908
112.780	40	4	4	50.912
112.800	11	77	11	50.923
112.820	9	103	9	50.932
112.840	15	124	15	50.947
112.860	10	128	10	50.957
112.880	10	198	10	50.967
112.900	8	317	8	50.974
112.920	8	186	8	50.982
112.940	6	108	6	50.988
112.960	8	65	8	50.996
112.980	12	49	12	51.008
113.000	10	42	10	51.018
113.020	10	94	10	51.028
113.040	4	87	4	51.032
113.060	3	163	3	51.035
113.080	3	147	3	51.039
113.100	6	109	6	51.045
113.120	44	37	37	51.082
113.140	151	0	0	51.082
113.160	260	0	0	51.082
113.180	176	0	0	51.082
113.200	68	0	0	51.082
113.220	78	0	0	51.082
113.240	56	34	34	51.116
113.260	41	134	41	51.156
113.280	7	370	7	51.164
113.300	7	643	7	51.171
113.320	97	626	97	51.268
113.340	252	286	252	51.519
113.360	531	196	196	51.715
113.380	997	59	59	51.774
113.400	1.055	173	173	51.947
113.420	1.133	144	144	52.092
113.440	944	109	109	52.201
113.460	623	240	240	52.441
113.480	409	446	409	52.850
113.500	429	151	151	53.001
113.520	222	169	169	53.170
113.540	162	282	162	53.332
113.560	83	171	83	53.414

## COMPENSACIÓN TRANSVERSAL. Alternativa 3

P.K. inicial	Terraplén	Desmonte	Compensación Parcial (m <sup>3</sup> )	Compensación Acumulada (m <sup>3</sup> )
113.580	61	75	61	53.476
113.600	3	92	3	53.478
113.620	2	118	2	53.480
113.640	5	68	5	53.485
113.660	59	10	10	53.495
113.680	241	3	3	53.499
113.700	547	0	0	53.499
113.720	907	0	0	53.499
113.740	1.056	0	0	53.499
113.760	1.191	0	0	53.499
113.780	1.583	0	0	53.499
113.800	1.948	0	0	53.499
113.820	2.264	0	0	53.499
113.840	2.536	0	0	53.499
113.860	2.764	0	0	53.499
113.880	2.842	0	0	53.499
113.900	2.989	0	0	53.499
113.920	3.419	0	0	53.499
113.940	3.673	0	0	53.499
113.960	3.683	0	0	53.499
113.980	3.943	0	0	53.499
114.000	110.515	1.114	1.114	54.613
114.020	3.847	0	0	54.613
114.040	3.499	0	0	54.613
114.060	2.904	0	0	54.613
114.080	2.323	0	0	54.613
114.100	2.260	0	0	54.613
114.120	1.970	0	0	54.613
114.140	1.475	0	0	54.613
114.160	1.170	0	0	54.613
114.180	1.136	0	0	54.613
114.200	1.393	0	0	54.613
114.220	1.673	0	0	54.613
114.240	1.972	0	0	54.613
114.260	2.352	0	0	54.613
114.280	2.893	0	0	54.613
114.300	3.134	0	0	54.613
114.320	2.949	0	0	54.613
114.340	2.703	0	0	54.613
114.360	2.010	0	0	54.613
114.380	843	0	0	54.613
114.400	196	0	0	54.613
114.420	14	3	3	54.616
114.440	1	10	1	54.617
114.460	13	4	4	54.621
114.480	57	0	0	54.621
114.500	82	0	0	54.621
114.520	30	124	30	54.651
114.540	78	70	70	54.721
114.560	51	48	48	54.769
114.580	25	21	21	54.790

**COMPENSACIÓN TRANSVERSAL. Alternativa 3**

P.K. inicial	Terraplén	Desmonte	Compensación Parcial (m³)	Compensación Acumulada (m³)
114.600	949	56	56	54.846
114.620	261	170	170	55.016
114.640	311	203	203	55.219
114.660	299	162	162	55.382
114.680	280	98	98	55.480
114.700	319	76	76	55.556
114.720	218	54	54	55.610
114.740	60	299	60	55.670
114.760	4	566	4	55.674
114.780	42	550	42	55.716
114.800	82	663	82	55.798
114.820	67	852	67	55.865
114.840	40	1.130	40	55.905
114.860	23	1.025	23	55.928
114.880	23	950	23	55.951
114.900	23	675	23	55.974
114.920	32	349	32	56.006
114.940	70	492	70	56.076
114.960	93	597	93	56.168
114.980	34	98	34	56.202
115.000	24	60	24	56.226
115.020	35	28	28	56.254
115.040	51	2	2	56.256
115.060	40	7	7	56.262
115.080	13	1	1	56.263
115.100	23	0	0	56.263
115.120	50	0	0	56.263
115.140	70	0	0	56.263
115.160	51	0	0	56.263
115.180	49	0	0	56.263
115.200	35	5	5	56.269
115.220	15	27	15	56.284
115.240	3	63	3	56.287
115.260	1	68	1	56.288
115.280	3	64	3	56.291
115.300	10	60	10	56.301
115.320	36	54	36	56.337
115.340	86	18	18	56.355
115.360	143	11	11	56.366
115.380	127	25	25	56.391
115.400	49	49	49	56.440
115.420	1	40	1	56.441
115.440	5	206	5	56.446
115.460	2	689	2	56.448
115.480	2	1.475	2	56.450
115.500	2	2.905	2	56.451
115.520	1	4.699	1	56.453
115.540	3	5.343	3	56.455
115.560	1	4.349	1	56.457
115.580	1	2.415	1	56.458
115.600	2	821	2	56.460

**COMPENSACIÓN TRANSVERSAL. Alternativa 3**

P.K. inicial	Terraplén	Desmonte	Compensación Parcial (m³)	Compensación Acumulada (m³)
115.620	3	427	3	56.463
115.640	3	295	3	56.466
115.660	2	222	2	56.468
115.680	13	204	13	56.481
115.700	169	151	151	56.632
115.720	359	90	90	56.722
115.740	185	133	133	56.855
115.760	1	284	1	56.856
115.780	0	288	0	56.856
115.800	1	123	1	56.857
115.820	2	82	2	56.859
115.840	1	159	1	56.860
115.860	4	172	4	56.864
115.880	4	91	4	56.869
115.900	3	33	3	56.872
115.920	2	34	2	56.874
115.940	1	13	1	56.876
115.960	1	21	1	56.877
115.980	2	89	2	56.879
116.000	5	154	5	56.884
116.020	6	206	6	56.890
116.040	0	288	0	56.890
116.060	27	146	27	56.917
116.080	155	0	0	56.917
116.100	252	0	0	56.917
116.120	302	0	0	56.917
116.140	253	4	4	56.921
116.160	298	2	2	56.923
116.180	87	0	0	56.923
116.200	0	0	0	56.923
116.220	0	0	0	56.923
116.240	4	0	0	56.923
116.260	25.092	2.492	2.492	59.415
116.280	733	0	0	59.415
116.300	914	0	0	59.415
116.320	1.022	0	0	59.415
116.340	640	0	0	59.415
116.360	217	0	0	59.415
116.380	207	99	99	59.513
116.400	211	336	211	59.724
116.420	206	402	206	59.930
116.440	65	396	65	59.996
116.460	169	229	169	60.164
116.480	179	314	179	60.344
116.500	18	870	18	60.362
116.520	1	1.284	1	60.363
116.540	1	1.906	1	60.364
116.560	1	2.243	1	60.365
116.580	1	2.188	1	60.365
116.600	1	2.395	1	60.366
116.620	1	2.707	1	60.367

**COMPENSACIÓN TRANSVERSAL. Alternativa 3**

P.K. inicial	Terraplén	Desmonte	Compensación Parcial (m³)	Compensación Acumulada (m³)
116.640	1	2.714	1	60.367
116.660	1	2.227	1	60.368
116.680	18	1.601	18	60.386
116.700	18	1.559	18	60.404
116.720	41	1.313	41	60.445
116.740	173	840	173	60.618
116.760	407	551	407	61.026
116.780	665	322	322	61.347
116.800	835	187	187	61.534
116.820	860	157	157	61.691
116.840	749	150	150	61.841
116.860	647	90	90	61.930
116.880	722	22	22	61.952
116.900	636	9	9	61.961
116.920	499	223	223	62.183
116.940	181	1.192	181	62.364
116.960	1	3.172	1	62.365
116.980	1	4.464	1	62.365
117.000	1	4.155	1	62.366
117.020	1	2.771	1	62.367
117.040	1	1.367	1	62.367
117.060	38	438	38	62.405
117.080	459	53	53	62.458
117.100	1.608	0	0	62.458
117.120	2.240	0	0	62.458
117.140	1.083	129	129	62.587
117.160	30	1.153	30	62.617
117.180	1	3.162	1	62.618
117.200	0	2.402	0	62.618
117.220	0	0	0	62.618
117.240	0	0	0	62.618
117.260	0	0	0	62.618
117.280	0	0	0	62.618
117.300	0	0	0	62.618
117.320	0	0	0	62.618
117.340	0	0	0	62.618
117.360	0	0	0	62.618
117.380	0	0	0	62.618
117.400	0	0	0	62.618
117.420	0	0	0	62.618
117.440	0	0	0	62.618
117.460	0	1.437	0	62.618
117.480	1	3.754	1	62.619
117.500	5.945	1.850	1.850	64.469
117.520	0	736	0	64.469
117.540	439	44	44	64.514
117.560	839	0	0	64.514
117.580	337	31	31	64.545
117.600	21	419	21	64.566
117.620	1	1.093	1	64.567
117.640	1	1.604	1	64.567

**COMPENSACIÓN TRANSVERSAL. Alternativa 3**

P.K. inicial	Terraplén	Desmonte	Compensación Parcial (m³)	Compensación Acumulada (m³)
117.660	1	1.819	1	64.568
117.680	1	1.850	1	64.569
117.700	1	1.884	1	64.569
117.720	1	1.908	1	64.570
117.740	1	1.929	1	64.571
117.760	1	2.008	1	64.571
117.780	1	1.996	1	64.572
117.800	1	1.674	1	64.572
117.820	1	1.030	1	64.573
117.840	20	353	20	64.594
117.860	36	80	36	64.630
117.880	121	54	54	64.683
117.900	425	16	16	64.699
117.920	1.151	0	0	64.699
117.940	2.096	0	0	64.699
117.960	2.598	0	0	64.699
117.980	2.825	0	0	64.699
118.000	1.565	0	0	64.699
118.020	43.267	470	470	65.169
118.040	0	0	0	65.169
118.060	254	0	0	65.169
118.080	3.040	0	0	65.169
118.100	2.970	0	0	65.169
118.120	2.694	0	0	65.169
118.140	1.996	0	0	65.169
118.160	873	0	0	65.169
118.180	262	4	4	65.173
118.200	112	14	14	65.187
118.220	80	9	9	65.196
118.240	125	0	0	65.196
118.260	116	0	0	65.196
118.280	94	0	0	65.196
118.300	83	0	0	65.196
118.320	61	0	0	65.197
118.340	33	4	4	65.201
118.360	42	6	6	65.206
118.380	40	4	4	65.210
118.400	31	25	25	65.235
118.420	18	84	18	65.253
118.440	4	259	4	65.257
118.460	5	108	5	65.261
118.480	13	79	13	65.275
118.500	20	82	20	65.294
118.520	31	22	22	65.316
118.540	36	7	7	65.323
118.560	99	1	1	65.324
118.580	197	0	0	65.324
118.600	183	0	0	65.324
118.620	74	4	4	65.328
118.640	5	51	5	65.332
118.660	2	311	2	65.334

**COMPENSACIÓN TRANSVERSAL. Alternativa 3**

P.K. inicial	Terraplén	Desmonte	Compensación Parcial (m³)	Compensación Acumulada (m³)
118.680	2	157	2	65.336
118.700	3	30	3	65.339
118.720	1	10	1	65.340
118.740	27	12	12	65.351
118.760	51	9	9	65.361
118.780	31	17	17	65.378
118.800	12	49	12	65.390
118.820	6	145	6	65.395
118.840	6	256	6	65.402
118.860	2	328	2	65.404
118.880	2	405	2	65.406
118.900	2	592	2	65.409
118.920	3	670	3	65.411
118.940	3	541	3	65.414
118.960	5	348	5	65.419
118.980	2	502	2	65.421
119.000	1	565	1	65.422
119.020	2	457	2	65.425
119.040	3	369	3	65.428
119.060	3	381	3	65.431
119.080	3	252		65.431
119.100	0	40	0	65.432
119.120	1	77		65.432
119.140	43	81	43	65.474
119.160	38	127	38	65.512
119.180	3	199	3	65.515
119.200	3	141	3	65.517
119.220	5	264	5	65.522
119.240	4	484	4	65.526
119.260	5	449	5	65.531
119.280	3	380	3	65.534
119.300	5	293	5	65.539
119.320	7	249	7	65.546
119.340	6	157	6	65.551
119.360	10	46	10	65.561
119.380	55	17	17	65.578
119.400	62	8	8	65.586
119.420	75	16	16	65.602
119.440	232	32	32	65.634
119.460	228	51	51	65.685
119.480	88	65	65	65.750
119.500	6	72	6	65.757
119.520	4	63	4	65.761
119.540	1	49	1	65.762
119.560	1.236	552	552	66.314
119.580	2	103	2	66.316
119.600	2	108	2	66.317
119.620	2	99	2	66.319
119.640	6	74	6	66.325
119.660	4	51	4	66.329
119.680	2	53	2	66.331

**COMPENSACIÓN TRANSVERSAL. Alternativa 3**

P.K. inicial	Terraplén	Desmonte	Compensación Parcial (m³)	Compensación Acumulada (m³)
119.700	4	52	4	66.336
119.720	2	137	2	66.337
119.740	2	157	2	66.340
119.760	16	56	16	66.356
119.780	137	66	66	66.422
119.800	467	62	62	66.484
119.820	420	183	183	66.667
119.840	260	328	260	66.927
119.860	350	337	337	67.264
119.880	272	401	272	67.536
119.900	44	546	44	67.580
119.920	3	700	3	67.582
119.940	1	966	1	67.584
119.960	1.157	1.520	1.157	68.740
119.980	1	630	1	68.741
120.000	10	193	10	68.751
120.020	47	201	47	68.798
120.040	18	630	18	68.817
120.060	3	852	3	68.820
120.080	95	371	95	68.915
120.100	734	43	43	68.957
120.120	2.049	0	0	68.957
120.140	3.136	0	0	68.957
120.160	4.080	0	0	68.957
120.180	4.654	0	0	68.957
120.200	3.830	0	0	68.957
120.220	1.769	262	262	69.219
120.240	173	3.306	173	69.392
120.260	1	7.512	1	69.393
120.280	4	7.012	4	69.397
120.300	5	4.249	5	69.402
120.320	5	2.852	5	69.407
120.340	12	2.168	12	69.419
120.360	1	2.929	1	69.420
120.380	1	1.462	1	69.421
120.400	3	893	3	69.424
120.420	3	1.068	3	69.427
120.440	1	1.828	1	69.429
120.460	1	2.150	1	69.430
120.480	1	1.709	1	69.431
120.500	1	1.298	1	69.432
120.520	778	584	584	70.015
120.540	83	0	0	70.015
120.560	0	0	0	70.015
120.580	0	0	0	70.015
120.600	0	0	0	70.015
120.620	0	0	0	70.015
120.640	0	0	0	70.015
120.660	524	0	0	70.015
120.680	1.250	0	0	70.015
120.700	307	5	5	70.020



**COMPENSACIÓN TRANSVERSAL. Alternativa 3**

P.K. inicial	Terraplén	Desmonte	Compensación Parcial (m³)	Compensación Acumulada (m³)
120.720	185	18	18	70.037
120.740	154	34	34	70.071
120.760	102	61	61	70.133
120.780	118	67	67	70.200
120.800	210	53	53	70.253
120.820	255	25	25	70.278
120.840	173	17	17	70.294
120.860	84	28	28	70.322
120.880	51	45	45	70.367
120.900	84	41	41	70.407
120.920	234	13	13	70.420
120.940	337	0	0	70.420
120.960	296	0	0	70.420
120.980	211	0	0	70.420
121.000	144	0	0	70.421
121.020	68	28	28	70.448
121.040	44	30	30	70.478
121.060	186	2	2	70.480
121.080	474	0	0	70.480
121.100	531	0	0	70.480
121.120	343	0	0	70.480
121.140	242	0	0	70.480
121.160	229	0	0	70.480
121.180	260	0	0	70.480
121.200	146	0	0	70.480
121.220	12	156	12	70.492
121.240	1	314	1	70.494
121.260	4	220	4	70.498
121.280	11	79	11	70.508
121.300	39	2	2	70.510
121.320	65	0	0	70.510
121.340	50	3	3	70.514
121.360	12	145	12	70.526
121.380	4	171	4	70.530
121.400	9	62	9	70.539
121.420	46	47	46	70.585
121.440	263	17	17	70.602
121.460	533	0	0	70.602
121.480	851	0	0	70.602
121.500	1.075	0	0	70.602
121.520	352	0	0	70.602
121.540	0	0	0	70.602
121.560	0	0	0	70.602
121.580	216	20	20	70.622
121.600	110	9	9	70.631
121.620	144	0	0	70.631
121.640	81	12	12	70.644
121.660	227	1	1	70.645
121.680	328	0	0	70.645
121.700	293	0	0	70.645
121.720	443	0	0	70.645

**COMPENSACIÓN TRANSVERSAL. Alternativa 3**

P.K. inicial	Terraplén	Desmonte	Compensación Parcial (m³)	Compensación Acumulada (m³)
121.740	343	0	0	70.645
121.760	262	1	1	70.647
121.780	173	11	11	70.658
121.800	69	30	30	70.688
121.820	37	115	37	70.725
121.840	73	80	73	70.797
121.860	268	6	6	70.804
121.880	196	54	54	70.857
121.900	92	100	92	70.949
121.920	46	78	46	70.995
121.940	43	44	43	71.038
121.960	58	16	16	71.054
121.980	107	8	8	71.062
122.000	166	10	10	71.072
122.020	173	26	26	71.098
122.040	78	29	29	71.126
122.060	32	49	32	71.158
122.080	5	103	5	71.163
122.100	3	292	3	71.166
122.120	3	396	3	71.169
122.140	3	299	3	71.172
122.160	4	198	4	71.176
122.180	21	118	21	71.196
122.200	35	111	35	71.231
122.220	116	37	37	71.268
122.240	184	20	20	71.288
122.260	145	25	25	71.314
122.280	76	64	64	71.378
122.300	36	97	36	71.413
122.320	5	113	5	71.418
122.340	2	108	2	71.420
122.360	8	121	8	71.428
122.380	10	128	10	71.438
122.400	15	81	15	71.452
122.420	10	35	10	71.462
122.440	13	30	13	71.475
122.460	12	24	12	71.487
122.480	8	32	8	71.494
122.500	6	44	6	71.500
122.520	7	32	7	71.508
122.540	4	54	4	71.512
122.560	3	79	3	71.515
122.580	4	64	4	71.519
122.600	1	26	1	71.520
122.620	5	30	5	71.525
122.640	19	15	15	71.540
122.660	38	0	0	71.540
122.680	8	4	4	71.543
122.700	0	37	0	71.544
122.720	2	44	2	71.546
122.740	3	20	3	71.549

**COMPENSACIÓN TRANSVERSAL. Alternativa 3**

P.K. inicial	Terraplén	Desmonte	Compensación Parcial (m <sup>3</sup> )	Compensación Acumulada (m <sup>3</sup> )
122.760	11	0	0	71.549
122.780	0	9	0	71.549
122.800	0	15	0	71.549
122.820	1	7	1	71.550
122.840	5	24	5	71.555
122.860	8	66	8	71.563
122.880	9	38	9	71.572
122.900	8	21	8	71.581
122.920	9	35	9	71.590
122.940	14	38	14	71.604
122.960	27	36	27	71.632
122.980	34	31	31	71.662
123.000	11	43	11	71.673
123.020	8	55	8	71.681
123.040	9	26	9	71.691
123.060	17	26	17	71.708
123.080	17	29	17	71.726
123.100	5	64	5	71.731
123.120	10	134	10	71.740
123.140	8	121	8	71.749
123.160	14	109	14	71.762
123.180	8	124	8	71.770
123.200	10	61	10	71.781
123.220	11	68	11	71.792
123.240	7	37	7	71.799
123.260	24	40	24	71.823
123.280	13	82	13	71.836
123.300	12	111	12	71.848
123.320	15	94	15	71.864
123.340	11	101	11	71.874
123.360	5	86	5	71.880
123.380	9	50	9	71.889
123.400	11	45	11	71.900
123.420	9	18	9	71.909
123.440	1	10	1	71.909
123.460	13	2	2	71.911
123.480	21	1	1	71.912
123.500	20	20	20	71.932
123.520	7	30	7	71.939
123.540	6	51	6	71.945
123.560	9	87	9	71.954
123.580	41	62	41	71.995
123.600	75	30	30	72.024
123.620	108	17	17	72.041
123.640	1.085	52	52	72.093
123.660	316	0	0	72.093
123.680	525	0	0	72.093
123.700	770	0	0	72.093
123.720	1.072	0	0	72.093
123.740	1.442	0	0	72.093
123.760	1.919	0	0	72.093

**COMPENSACIÓN TRANSVERSAL. Alternativa 3**

P.K. inicial	Terraplén	Desmonte	Compensación Parcial (m <sup>3</sup> )	Compensación Acumulada (m <sup>3</sup> )
123.780	2.583	0	0	72.093
123.800	2.921	0	0	72.093
123.820	3.586	0	0	72.093
123.840	4.393	0	0	72.093
123.860	2.587	0	0	72.093
123.880	1.075	0	0	72.093
123.900	283	9	9	72.102
123.920	39	277	39	72.141
123.940	4	1.005	4	72.145
123.960	5	1.327	5	72.150
123.980	5	1.578	5	72.155
124.000	14	1.580	14	72.169
124.020	50	1.121	50	72.219
124.040	10	1.141	10	72.229
124.060	4	1.137	4	72.233
124.080	23	1.014	23	72.256
124.100	5	1.281	5	72.261
124.120	5	1.975	5	72.266
124.140	4	2.321	4	72.270
124.160	4	2.206	4	72.274
124.180	12	1.571	12	72.286
124.200	308	850	308	72.594
124.220	786	171	171	72.765
124.240	1.215	22	22	72.787
124.260	1.411	0	0	72.787
124.280	1.597	0	0	72.787
124.300	1.458	2	2	72.789
124.320	955	47	47	72.835
124.340	342	246	246	73.081
124.360	58	619	58	73.139
124.380	3	717	3	73.142
124.400	6	850	6	73.148
124.420	6	1.097	6	73.154
124.440	4	846	4	73.158
124.460	108	552	108	73.266
124.480	533	374	374	73.641
124.500	832	376	376	74.017
124.520	954	492	492	74.509
124.540	1.206	509	509	75.017
124.560	1.623	341	341	75.358
124.580	1.995	277	277	75.635
124.600	2.355	46	46	75.681
124.620	1.909	3	3	75.684
124.640	1.322	43	43	75.727
124.660	868	270	270	75.997
124.680	423	553	423	76.420
124.700	183	700	183	76.602
124.720	122	1.049	122	76.724
124.740	127	946	127	76.851
124.760	126	1.243	126	76.977
124.780	48	1.689	48	77.025

**COMPENSACIÓN TRANSVERSAL. Alternativa 3**

P.K. inicial	Terraplén	Desmorte	Compensación Parcial (m³)	Compensación Acumulada (m³)
124.800	18	2.136	18	77.043
124.820	8	2.234	8	77.051
124.840	66	2.060	66	77.117
124.860	53	2.532	53	77.170
124.880	3	3.224	3	77.174
124.900	4	3.310	4	77.177
124.920	85	2.021	85	77.262
124.940	390	1.187	390	77.652
124.960	340	1.310	340	77.992
124.980	168	1.078	168	78.160
125.000	290	546	290	78.450
125.020	592	310	310	78.760
125.040	732	105	105	78.865
125.060	636	194	194	79.059
125.080	711	526	526	79.585
125.100	656	742	656	80.241
125.120	407	716	407	80.648
125.140	245	965	245	80.893
125.160	114	1.426	114	81.008
125.180	294	1.578	294	81.301
125.200	61	1.954	61	81.363
125.220	5	2.402	5	81.368
125.240	25	2.398	25	81.393
125.260	753	1.093	753	82.146
125.280	1.211	211	211	82.357
125.300	1.196	134	134	82.492
125.320	975	183	183	82.674
125.340	1.185	47	47	82.721
125.360	2.335	0	0	82.721
125.380	1.168	0	0	82.721
125.400	0	0	0	82.721
125.420	0	0	0	82.721
125.440	0	0	0	82.721
125.460	3.522	0	0	82.721
125.480	2.538	0	0	82.721
125.500	2.651	0	0	82.721
125.520	3.200	0	0	82.721
125.540	2.436	37	37	82.758
125.560	1.276	245	245	83.004
125.580	562	413	413	83.416
125.600	245	598	245	83.661
125.620	173	674	173	83.834
125.640	338	652	338	84.172
125.660	524	492	492	84.664
125.680	714	435	435	85.098
125.700	617	609	609	85.707
125.720	465	638	465	86.172
125.740	465	539	465	86.637
125.760	547	542	542	87.179
125.780	512	610	512	87.691
125.800	578	567	567	88.258

**COMPENSACIÓN TRANSVERSAL. Alternativa 3**

P.K. inicial	Terraplén	Desmorte	Compensación Parcial (m³)	Compensación Acumulada (m³)
125.820	732	343	343	88.601
125.840	947	76	76	88.677
125.860	1.164	1	1	88.678
125.880	1.646	0	0	88.678
125.900	2.347	0	0	88.678
125.920	2.271	0	0	88.678
125.940	1.568	0	0	88.678
125.960	615	18	18	88.696
125.980	429	406	406	89.102
126.000	95	1.277	95	89.197
126.020	1.315	1.805	1.315	90.512
126.040	0	0	0	90.512
126.060	0	0	0	90.512
126.080	0	0	0	90.512
126.100	0	0	0	90.512
126.120	0	0	0	90.512
126.140	0	0	0	90.512
126.160	0	0	0	90.512
126.180	0	0	0	90.512
126.200	0	0	0	90.512
126.220	0	0	0	90.512
126.240	0	0	0	90.512
126.260	0	0	0	90.512
126.280	0	0	0	90.512
126.300	0	0	0	90.512
126.320	0	0	0	90.512
126.340	0	0	0	90.512
126.360	0	0	0	90.512
126.380	0	0	0	90.512
126.400	0	0	0	90.512
126.420	0	0	0	90.512
126.440	0	0	0	90.512
126.460	0	0	0	90.512
126.480	0	0	0	90.512
126.500	0	0	0	90.512
126.520	0	0	0	90.512
126.540	5	3.734	5	90.517
126.560	42	1.382	42	90.558
126.580	290	512	290	90.848
126.600	724	524	524	91.372
126.620	1.238	265	265	91.637
126.640	1.323	197	197	91.835
126.660	990	306	306	92.141
126.680	714	277	277	92.418
126.700	216	844	216	92.634
126.720	1	2.398	1	92.635
126.740	1	4.705	1	92.636
126.760	1	5.864	1	92.637
126.780	1	3.450	1	92.638
126.800	139	971	139	92.776
126.820	268	667	268	93.044

**COMPENSACIÓN TRANSVERSAL. Alternativa 3**

P.K. inicial	Terraplén	Desmonte	Compensación Parcial (m³)	Compensación Acumulada (m³)
126.840	381	582	381	93.425
126.860	387	523	387	93.812
126.880	519	425	425	94.237
126.900	489	295	295	94.532
126.920	248	546	248	94.780
126.940	39	1.393	39	94.819
126.960	3	1.463	3	94.822
126.980	5	717	5	94.827
127.000	3	1.200	3	94.830
127.020	3	1.914	3	94.833
127.040	3	2.456	3	94.836
127.060	3	2.571	3	94.839
127.080	3	2.161	3	94.841
127.100	8	1.439	8	94.849
127.120	9	631	9	94.858
127.140	17	338	17	94.875
127.160	29	399	29	94.905
127.180	45	42	42	94.946
127.200	69	13	13	94.959
127.220	18	43	18	94.977
127.240	2	1.453	2	94.980
127.260	5	3.176	5	94.984
127.280	3	4.246	3	94.987
127.300	3	5.208	3	94.990
127.320	3	5.669	3	94.993
127.340	4	5.223	4	94.996
127.360	3	4.653	3	94.999
127.380	2	3.936	2	95.002
127.400	3	2.752	3	95.005
127.420	3	1.555	3	95.008
127.440	3	717	3	95.012
127.460	22	289	22	95.034
127.480	233	119	119	95.153
127.500	472	62	62	95.215
127.520	274	32	32	95.247
127.540	259	8	8	95.255
127.560	200	3	3	95.258
127.580	101	1	1	95.259
127.600	88	2	2	95.261
127.620	96	15	15	95.276
127.640	144	3	3	95.279
127.660	137	0	0	95.280
127.680	189	0	0	95.280
127.700	152	7	7	95.287
127.720	31	42	31	95.318
127.740	115	44	44	95.362
127.760	169	33	33	95.395
127.780	106	28	28	95.423
127.800	2	49	2	95.425
127.820	3	65	3	95.428
127.840	131	61	61	95.489

**COMPENSACIÓN TRANSVERSAL. Alternativa 3**

P.K. inicial	Terraplén	Desmonte	Compensación Parcial (m³)	Compensación Acumulada (m³)
127.860	574	3	3	95.491
127.880	1.586	0	0	95.491
127.900	3.158	0	0	95.491
127.920	3.055	0	0	95.491
127.940	1.106	0	0	95.491
127.960	217	0	0	95.491
127.980	38	16	16	95.508
128.000	35	94	35	95.543
128.020	99	74	74	95.617
128.040	68	49	49	95.666
128.060	17	27	17	95.683
128.080	2	51	2	95.685
128.100	3	60	3	95.688
128.120	3	47	3	95.691
128.140	979	145	145	95.837
128.160	23	35	23	95.860
128.180	2	20	2	95.862
128.200	286	6	6	95.868
128.220	36	14	14	95.882
128.240	8	46	8	95.890
128.260	5	51	5	95.895
128.280	4	55	4	95.899
128.300	6	44	6	95.905
128.320	5	50	5	95.911
128.340	54	9	9	95.919
128.360	3	26	3	95.922
128.380	22	30	22	95.944
128.400	1	191	1	95.945
128.420	9	125	9	95.954
128.440	43	6	6	95.960
128.460	169	0	0	95.960
128.480	221	0	0	95.960
128.500	107	0	0	95.960
128.520	94	0	0	95.960
128.540	43	2	2	95.963
128.560	3	58	3	95.966
128.580	3	105	3	95.969
128.600	8	65	8	95.977
128.620	86	54	54	96.032
128.640	456	1	1	96.032
128.660	157	127	127	96.159
128.680	9	287	9	96.168
128.700	141	416	141	96.309
128.720	491	144	144	96.453
128.740	1.056	1	1	96.453
128.760	1.475	0	0	96.453
128.780	885	0	0	96.453
128.800	143	104	104	96.557
128.820	10	364	10	96.567
128.840	30	296	30	96.597
128.860	64	452	64	96.660

**COMPENSACIÓN TRANSVERSAL. Alternativa 3**

P.K. inicial	Terraplén	Desmonte	Compensación Parcial (m³)	Compensación Acumulada (m³)
128.880	6	507	6	96.666
128.900	90	265	90	96.756
128.920	322	29	29	96.784
128.940	567	1	1	96.786
128.960	1.857	59	59	96.845
128.980	1	666	1	96.846
129.000	2	306	2	96.848
129.020	2	73	2	96.849
129.040	56	40	40	96.889
129.060	41	518	41	96.930
129.080	1	2.484	1	96.931
129.100	0	3.440	0	96.931
129.120	0	0	0	96.931
129.140	0	0	0	96.931
129.160	0	0	0	96.931
129.180	0	0	0	96.931
129.200	0	0	0	96.931
129.220	0	0	0	96.931
129.240	0	0	0	96.931
129.260	0	0	0	96.931
129.280	0	0	0	96.931
129.300	2	129	2	96.933
129.320	1	161	1	96.935
129.340	3	111	3	96.938
129.360	3	83	3	96.941
129.380	1	96	1	96.942
129.400	1	78	1	96.943
129.420	12	46	12	96.954
129.440	15	69	15	96.969
129.460	0	169	0	96.969
129.480	1	247	1	96.970
129.500	1	2.000	1	96.971
129.520	1	1.185	1	96.972
129.540	0	0	0	96.972
129.560	0	0	0	96.972
129.580	0	0	0	96.972
129.600	0	0	0	96.972
129.620	0	0	0	96.972
129.640	0	0	0	96.972
129.660	0	0	0	96.972
129.680	0	0	0	96.972
129.700	0	0	0	96.972
129.720	0	0	0	96.972
129.740	0	0	0	96.972
129.760	3	0	0	96.972
129.780	6	0	0	96.973
129.800	18	13	13	96.986
129.820	8	128	8	96.995
129.840	1	277	1	96.995
129.860	1	240	1	96.996
129.880	1	163	1	96.997

**COMPENSACIÓN TRANSVERSAL. Alternativa 3**

P.K. inicial	Terraplén	Desmonte	Compensación Parcial (m³)	Compensación Acumulada (m³)
129.900	0	70	0	96.997
129.920	1	64	1	96.997
129.940	2	58	2	97.000
129.960	4	16	4	97.004
129.980	11	0	0	97.004
130.000	30	0	0	97.004
130.020	60	0	0	97.004
130.040	80	1	1	97.004
130.060	48	2	2	97.007
130.080	13	29	13	97.019
130.100	0	28	0	97.019
130.120	0	118	0	97.020
130.140	1	131	1	97.020
130.160	1	85	1	97.022
130.180	0	4.820	0	97.022
130.200	0	0	0	97.022
130.220	0	0	0	97.022
130.240	0	0	0	97.022
130.260	0	0	0	97.022
130.280	0	0	0	97.022
130.300	0	0	0	97.022
130.320	0	0	0	97.022
130.340	0	0	0	97.022
130.360	0	0	0	97.022
130.380	0	0	0	97.022
130.400	1	29	1	97.023
130.420	63	54	54	97.078
130.440	44	55	44	97.121
130.460	24	57	24	97.145
130.480	79	69	69	97.214
130.500	28	143	28	97.242
130.520	109	136	109	97.351
130.540	204	83	83	97.433
130.560	199	66	66	97.499
130.580	51	63	51	97.550
130.600	12	64	12	97.562
130.620	0	59	0	97.562
130.640	1	86	1	97.563
130.660	24	98	24	97.586
130.680	22	97	22	97.608
130.700	41	102	41	97.650
130.720	58	102	58	97.708
130.740	97	81	81	97.789
130.760	187	105	105	97.894
130.780	219	85	85	97.980
130.800	1	62	1	97.980
130.820	1	54	1	97.981
130.840	1	55	1	97.982
130.860	1	37	1	97.983
130.880	0	28	0	97.983
130.900	1	33	1	97.984

## COMPENSACIÓN TRANSVERSAL. Alternativa 3

P.K. inicial	Terraplén	Desmonte	Compensación Parcial (m <sup>3</sup> )	Compensación Acumulada (m <sup>3</sup> )
130.920	2	24	2	97.986
130.940	17	11	11	97.997
130.960	31	8	8	98.005
130.980	44	8	8	98.013
131.000	35	9	9	98.022
131.020	18	13	13	98.035
131.040	125	63	63	98.098
131.060	0	748	0	98.098
131.080	2	2.210	2	98.100
131.100	3	2.144	3	98.103
131.120	6	1.930	6	98.109
131.140	3	1.800	3	98.112
131.160	2	1.413	2	98.115
131.180	0	690	0	98.115
131.200	0	225	0	98.115
131.220	1	127	1	98.115
131.240	104	67	67	98.182
131.260	104	38	38	98.220
131.280	268	17	17	98.237
131.300	317	18	18	98.255
131.320	343	18	18	98.273
131.340	213	23	23	98.296
131.360	177	34	34	98.329
131.380	148	44	44	98.373
131.400	134	51	51	98.425
131.420	112	57	57	98.482
131.440	97	62	62	98.544
131.460	24	90	24	98.568
131.480	1	130	1	98.569
131.500	60	134	60	98.629
131.520	79	68	68	98.697
131.540	57	25	25	98.722
131.560	10	37	10	98.733
131.580	1	36	1	98.733
131.600	5	31	5	98.738
131.620	21	20	20	98.758
131.640	31	18	18	98.776
131.660	61	15	15	98.791
131.680	23	14	14	98.804
131.700	5	16	5	98.810
131.720	30	16	16	98.826
131.740	0	10	0	98.826
131.760	4	7	4	98.830
131.780	11	11	11	98.841
131.800	16	15	15	98.855
131.820	16	14	14	98.870
131.840	21	13	13	98.883
131.860	25	14	14	98.897
131.880	35	15	15	98.911
131.900	36	39	36	98.947
131.920	13	50	13	98.960

## COMPENSACIÓN TRANSVERSAL. Alternativa 3

P.K. inicial	Terraplén	Desmonte	Compensación Parcial (m <sup>3</sup> )	Compensación Acumulada (m <sup>3</sup> )
131.940	5	49	5	98.966
131.960	14	61	14	98.980
131.980	23	57	23	99.003
132.000	21	61	21	99.023
132.020	21	65	21	99.045
132.040	60	64	60	99.104
132.060	63	70	63	99.167
132.080	53	73	53	99.220
132.100	51	73	51	99.271
132.120	24	67	24	99.295
132.140	47	66	47	99.343
132.160	84	64	64	99.407
132.180	69	67	67	99.474
132.200	44	72	44	99.518
132.220	350	41	41	99.559
132.240	1.275	14	14	99.574
132.260	3.168	2	2	99.576
132.280	1	0	0	99.576
132.300	0	0	0	99.576
132.320	0	0	0	99.576
132.340	0	0	0	99.576
132.360	0	0	0	99.576
132.380	0	0	0	99.576
132.400	0	0	0	99.576
132.420	0	0	0	99.576
132.440	0	0	0	99.576
132.460	3.051	0	0	99.576
132.480	1.535	3	3	99.579
132.500	930	42	42	99.621
132.520	460	24	24	99.645
132.540	151	168	151	99.796
132.560	13	60	13	99.809
132.580	11	71	11	99.820
132.600	23	59	23	99.843
132.620	53	41	41	99.884
132.640	69	39	39	99.923
132.660	123	45	45	99.968
132.680	61	57	57	100.024
132.700	7	81	7	100.031
132.720	1	89	1	100.032
132.740	1	114	1	100.033
132.760	1	149	1	100.034
132.780	3	132	3	100.037
132.800	41	122	41	100.078
132.820	69	103	69	100.147
132.840	74	111	74	100.221
132.860	28	64	28	100.248
132.880	31	55	31	100.280
132.900	128	53	53	100.333
132.920	276	38	38	100.371
132.940	519	35	35	100.405

**COMPENSACIÓN TRANSVERSAL. Alternativa 3**

P.K. inicial	Terraplén	Desmonte	Compensación Parcial (m³)	Compensación Acumulada (m³)
132.960	740	53	53	100.459
132.980	531	88	88	100.546
133.000	531	89	89	100.635
133.020	577	87	87	100.722
133.040	487	87	87	100.809
133.060	419	82	82	100.891
133.080	550	66	66	100.957
133.100	689	56	56	101.014
133.120	751	57	57	101.071
133.140	818	62	62	101.133
133.160	324	57	57	101.189
133.180	7	79	7	101.196
133.200	1	101	1	101.197
133.220	0	126	0	101.197
133.240	5	109	5	101.202
133.260	16	95	16	101.218
133.280	2	126	2	101.220
133.300	0	131	0	101.220
133.320	1	137	1	101.221
133.340	1	113	1	101.222
133.360	0	62	0	101.222
133.380	6	56	6	101.228
133.400	14	104	14	101.242
133.420	65	107	65	101.308
133.440	44	113	44	101.352
133.460	13	104	13	101.365
133.480	50	79	50	101.415
133.500	133	87	87	101.502
133.520	125	176	125	101.627
133.540	77	66	66	101.693
133.560	33	174	33	101.726
133.580	50	345	50	101.776
133.600	21	403	21	101.797
133.620	1	331	1	101.798
133.640	12	282	12	101.810
133.660	20	229	20	101.830
133.680	44	181	44	101.874
133.700	33	120	33	101.908
133.720	1	203	1	101.909
133.740	5	146	5	101.914
133.760	30	137	30	101.943
133.780	48	124	48	101.991
133.800	13	143	13	102.004
133.820	2	135	2	102.006
133.840	31	81	31	102.038
133.860	16	69	16	102.054
133.880	14	61	14	102.067
133.900	7	66	7	102.075
133.920	1	89	1	102.076
133.940	4	128	4	102.080
133.960	10	99	10	102.090

**COMPENSACIÓN TRANSVERSAL. Alternativa 3**

P.K. inicial	Terraplén	Desmonte	Compensación Parcial (m³)	Compensación Acumulada (m³)
133.980	7	92	7	102.097
134.000	1	128	1	102.098
134.020	7	209	7	102.105
134.040	3	184	3	102.108
134.060	3	27	3	102.111
134.080	40	18	18	102.129
134.100	27	48	27	102.156
134.120	6	98	6	102.162
134.140	0	111	0	102.162
134.160	7	131	7	102.169
134.180	5	143	5	102.173
134.200	1	93	1	102.174
134.220	1	56	1	102.175
134.240	0	26	0	102.175
134.260	0	22	0	102.175
134.280	0	28	0	102.175
134.300	1	143	1	102.176
134.320	1	390	1	102.177
134.340	1	521	1	102.178
134.360	2	324	2	102.180
134.380	1	197	1	102.181
134.400	2	134	2	102.183
134.420	1	103	1	102.184
134.440	2	253	2	102.186
134.460	3	165	3	102.189
134.480	2	107	2	102.191
134.500	2	104	2	102.193
134.520	2	104	2	102.195
134.540	3	95	3	102.198
134.560	6	86	6	102.204
134.580	1	90	1	102.205
134.600	1	98	1	102.206
134.620	1	97	1	102.207
134.640	1	93	1	102.209
134.660	2	87	2	102.211
134.680	0	80	0	102.211
134.700	0	74	0	102.212
134.720	2	78	2	102.214
134.740	1	89	1	102.215
134.760	1	91	1	102.216
134.780	1	98	1	102.217
134.800	1	103	1	102.217
134.820	1	104	1	102.218
134.840	3	97	3	102.221
134.860	2	87	2	102.222
134.880	1	74	1	102.223
134.900	1	54	1	102.224
134.920	1	48	1	102.226
134.940	1	49	1	102.227
134.960	2	59	2	102.229
134.980	2	76	2	102.230

**COMPENSACIÓN TRANSVERSAL. Alternativa 3**

P.K. inicial	Terraplén	Desmorte	Compensación Parcial (m <sup>3</sup> )	Compensación Acumulada (m <sup>3</sup> )
135.000	1	82	1	102.231
135.020	1	89	1	102.232
135.040	3	123	3	102.234
135.060	4	132	4	102.238
135.080	3	114	3	102.241
135.100	2	103	2	102.243
135.120	2	164	2	102.244
135.140	2	163	2	102.246
135.160	1	101	1	102.247
135.180	1	98	1	102.249
135.200	1	103	1	102.250
135.220	1	131	1	102.251
135.240	2	198	2	102.253
135.260	2	136	2	102.255
135.280	3	110	3	102.258
135.300	2	110	2	102.260
135.320	1	105	1	102.261
135.340	3	120	3	102.263
135.360	6	195	6	102.270
135.380	153	86	86	102.356
135.400	345	63	63	102.419
135.420	178	68	68	102.486
135.440	0	98	0	102.487
135.460	3	121	3	102.490
135.480	0	38	0	102.490