შემსყიდველი: ხარაგაულის მუნიციპალიტეტი

პროექტის დასახელება:
სოფ. ვერტყვილაში სასოფლო გზის მოგეტონება

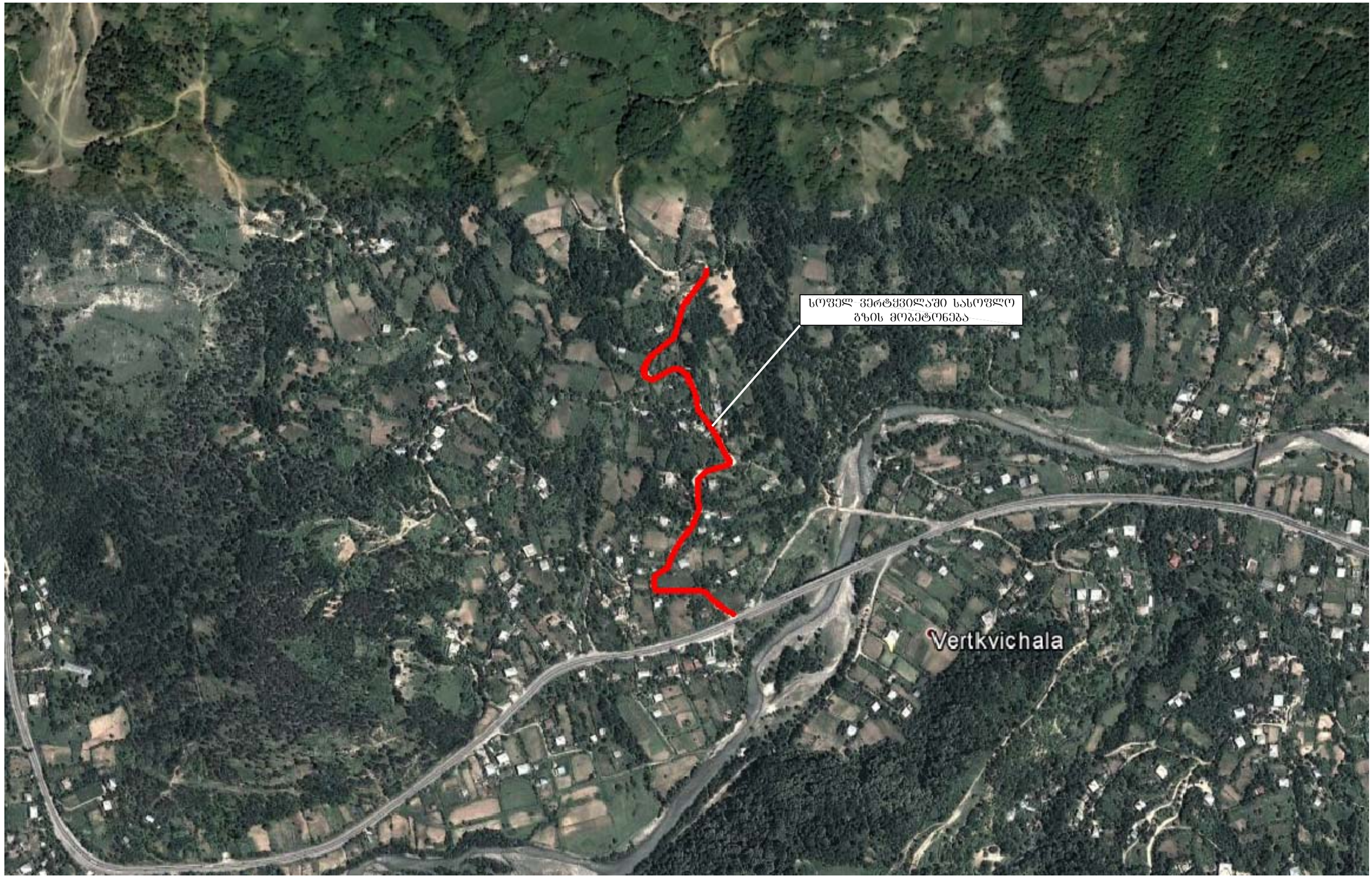
გამოცემის წელი: 2017

ნახაზები

მიმწოდებელი: შ.პ.ს "არქიტექტურა და პროექტი"

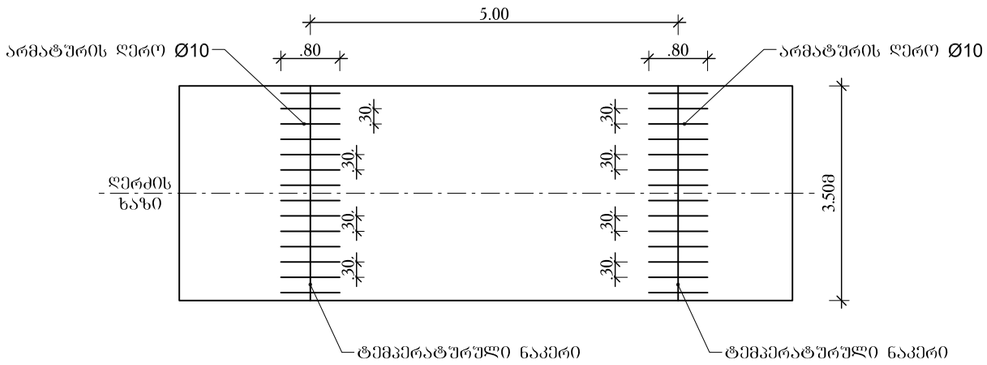
ნახაზები

სიტუაციური გეგმა

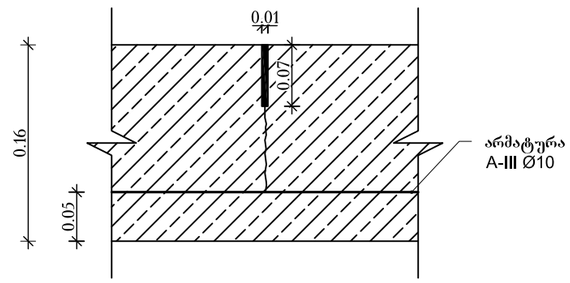


დირექტორი	გ. გარგულია			შ.პ.ს	სიტუაციური გეგმა
მთ. ინჟინერი	გ. ტიკარაძე			არქიტექტურა და პროექტი	
					LM 2

ბეტონის საფარის სქემატური ნახაზი
3.5მ გზისთვის



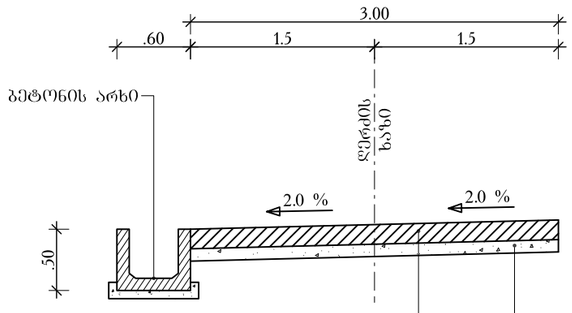
ტემპერატურული ნაკერი



დირექტორი	ბ. ბარგულია			შ.პ.ს	ბეტონის საფარის სქემატური ნახაზი 3.5 მ-იანი გზისათვის
მთ. ინჟინერი	ბ. ტიკარაძე			არქიტექტურა და პროექტი	
					T 0

გზის ტიპიური განივი ჭრილები

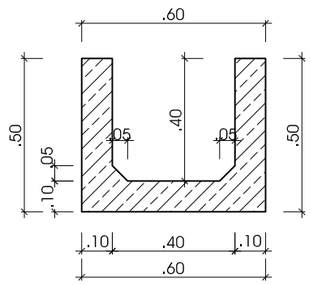
სოფელ ვერტყვილაში სასოფლო გზის მობეტონება



დირექტორი	ბ. გარგულია			შ.პ.ს	ტიპიური განივი ჭრილები
მთ. ინჟინერი	ბ. ტიკარაძე			არქიტექტურა და პროექტი	
					T 2

დრენაჟის არხის არმირების დეტალები

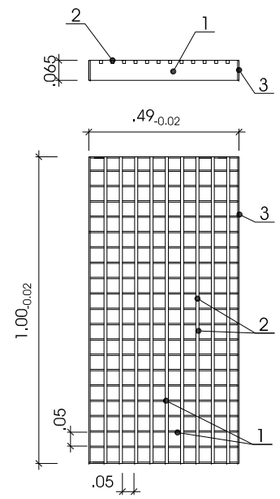
მასშტაბი 1:25



ბეტონი B 25 F200 W6 მ³ მოც.
0.14

გლუვანიზირებული ფოლადის ცხაურა

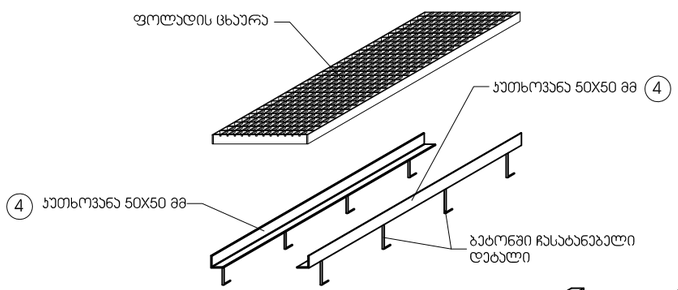
მასშტაბი 1:25



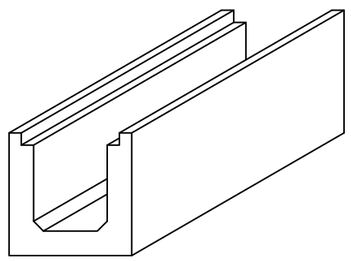
ცხაურების დეტალების სპეციფიკაცია

პოზ.	დასახელება / განზომილება	სიგრძე მმ	სიგანე მმ	სისქე მმ	რაოდ. 1 ც. ცხაურისთვის	1 გრ.მ წონა კგ.	მთლიანი წონა კგ
1	ფოლადის ზოლი 480X65X5 მმ ГОСТ 103-76	0.39	65	5	21	2.55	20.88
2	ფოლადის კვადრატი 1000X10X10 მმ ГОСТ 2591-88	1.00	10	10	9	0.785	7.07
3	ფოლადის ზოლი 1000X65X5 მმ ГОСТ 103-76	1.00	65	5	2	2.55	5.1
4	კუთხოვანა 65X50X5 მმ ГОСТ 8510-86	1.00	65	50	2	4.36	8.72
სულ 1 გრ. მ. ცხაურის წონა							41.77

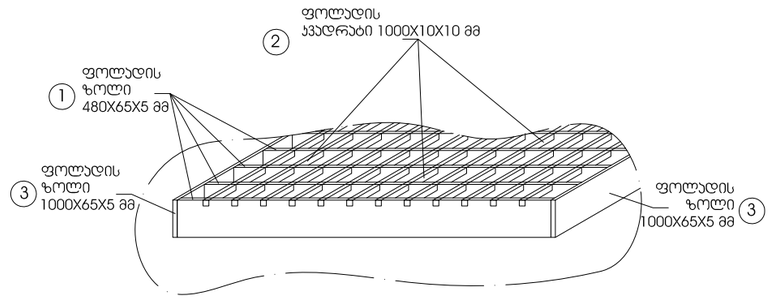
სადრენაჟე არხი ცხაურით



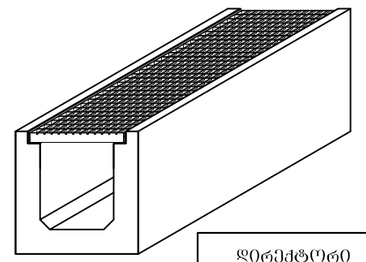
შენიშვნა:
დრენაჟის არხის 1 სექციის სიგრძე 1.00 მ - ია
დამატებითი მასალა (არხის 1 სექციისათვის):
კუთხოვანა L=1.00მ 2 ცალი - ГОСТ 8510-86



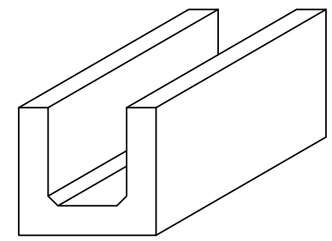
ფოლადის ცხაურა



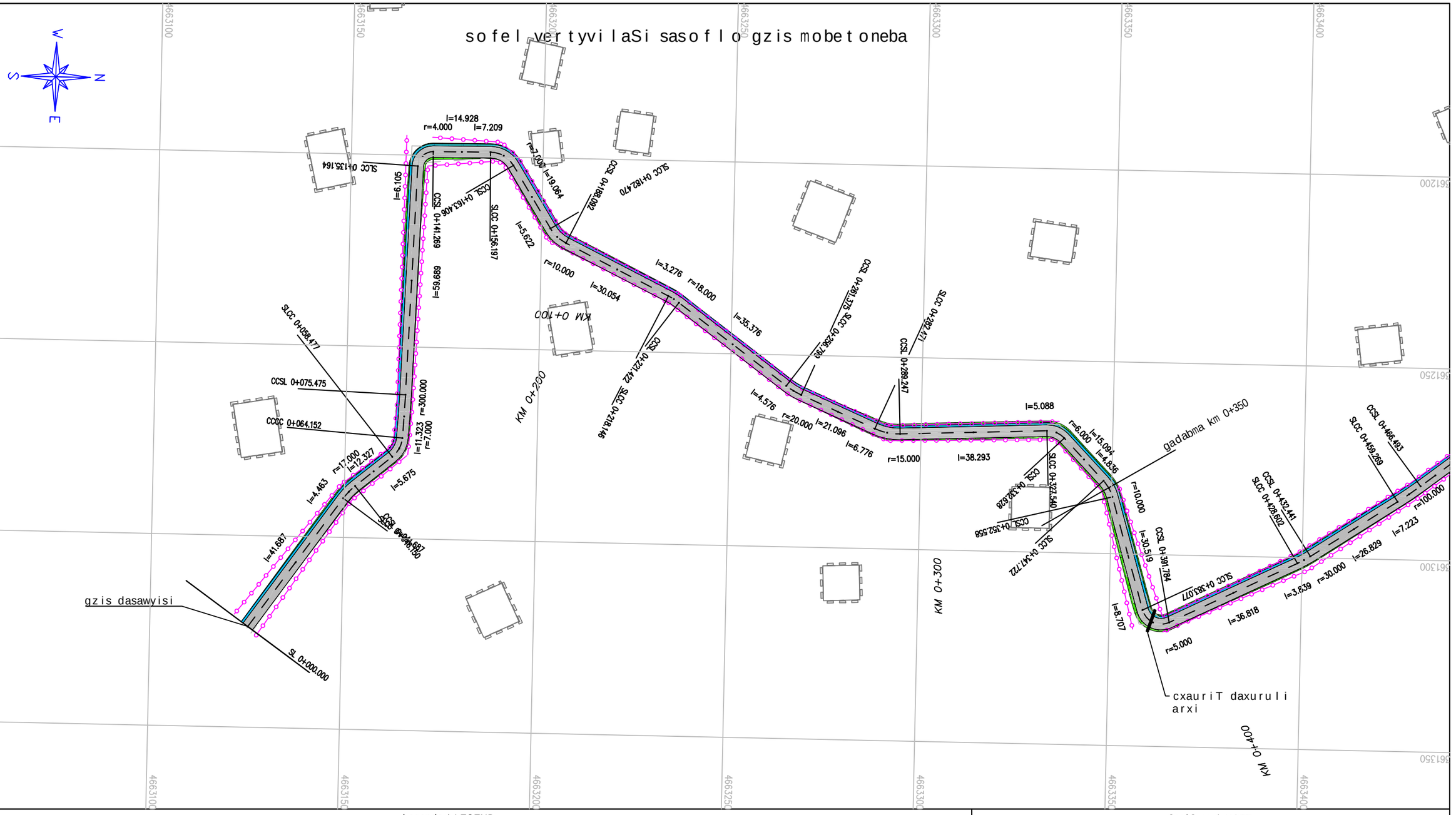
სადრენაჟე რ/ბ არხი ცხაურით



სადრენაჟე რ/ბ არხი



დირექტორი	გ. ბარგულია			შ.პ.ს	ბეტონის არხის და გალვანიზირებული ფოლადის ცხაურის დეტალები
მთ. ინჟინერი	გ. ტიკარაძე			არქიტექტურა და პროექტი	
					D-1



legenda | LEGEND

SeniSvna: | NOTE:

saproeqto elementebi | DESIGNED ELEMENTS

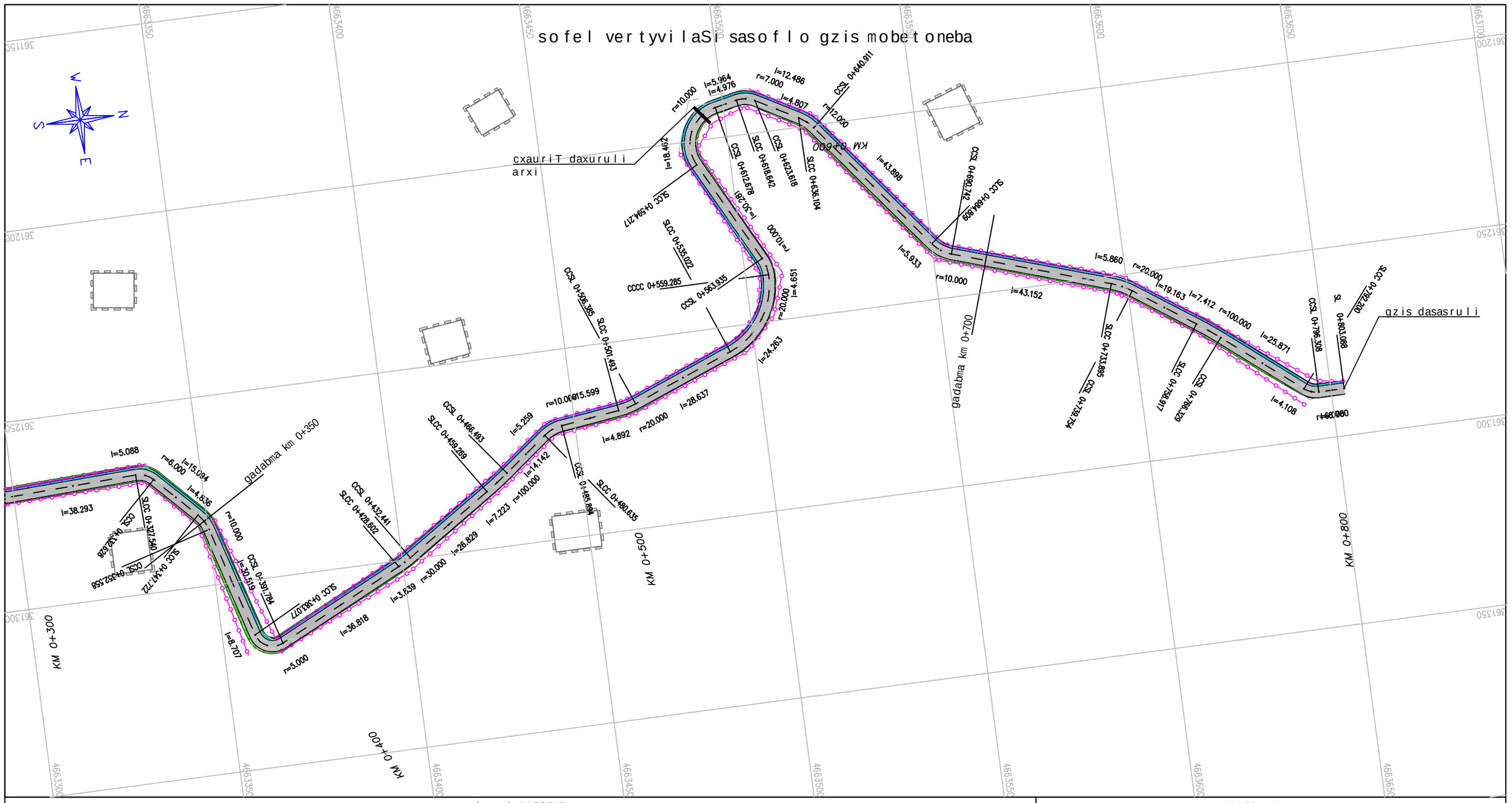
asfaltis an betonis safari Asphalt or Concrete Pavement	berma Berm
xreSovani gverduli Gravel Shoulder	r/b kedeli RC Wall
kiuveti *Ditch*	gabionis kedeli Gabion Wall
Wrili Excavation	axali wriuli mili New Circular Culvert
yrili Fill	axali oTkuTxa mili New Box Culvert

arsebuli topografiuli elementebi | EXISTING TOPOGRAPHY ELEMENTS

reperi Benchmark	xidi Bridge	navTobsadeni mili Oil-Pipe-Line	luqi Sealing-Wax	el. boZi Power Post
Senoba sacxovrebeli Residential Building	r/b mili RC Culvert	eklesia Church	Wa Well	xe Tree
Senoba arasacxovrebeli Non-Residential Building	liTonis mili Steel Culvert	sasaflao Cemetery	rkinigza Railway	buCqi Bush
benzin gasamarTi sadguri Patrol Station	wyalsadeni mili Water-Pipe-line	liTonis zRudari Guardrail	Slagbaumi Barrier	sagzao niSani Road Signs
Robe Fence	gazsadeni mili Gas-Pipe-line	betonis zRudari New Jersey	el. gadamcemi xazi Power Line	SuqniSani Light Signal

direqtori	g. gargulia		topo gegma	S.p.s	gegma
mT. inJineri	g. tikaraZe			arqiteqtura da proeqti	
					L 2

sofel vertyvilaSi sasoflo gzis mobetoneba



legenda | LEGEND

saproeqto elementebi | DESIGNED ELEMENTS

- asfaltis an betonis safari — Asphalt or Concrete Pavement
- xreSovani gverduli — Gravel Shoulder
- kiuveti — *Ditch*
- Wrili — Excavation
- yrili — Fill
- berma — Berm
- r/b kedeli — RC Wall
- gabionis kedeli — Gabion Wall
- axali wriuli mili — New Circular Culvert
- axali oTkuTxa mili — New Box Culvert

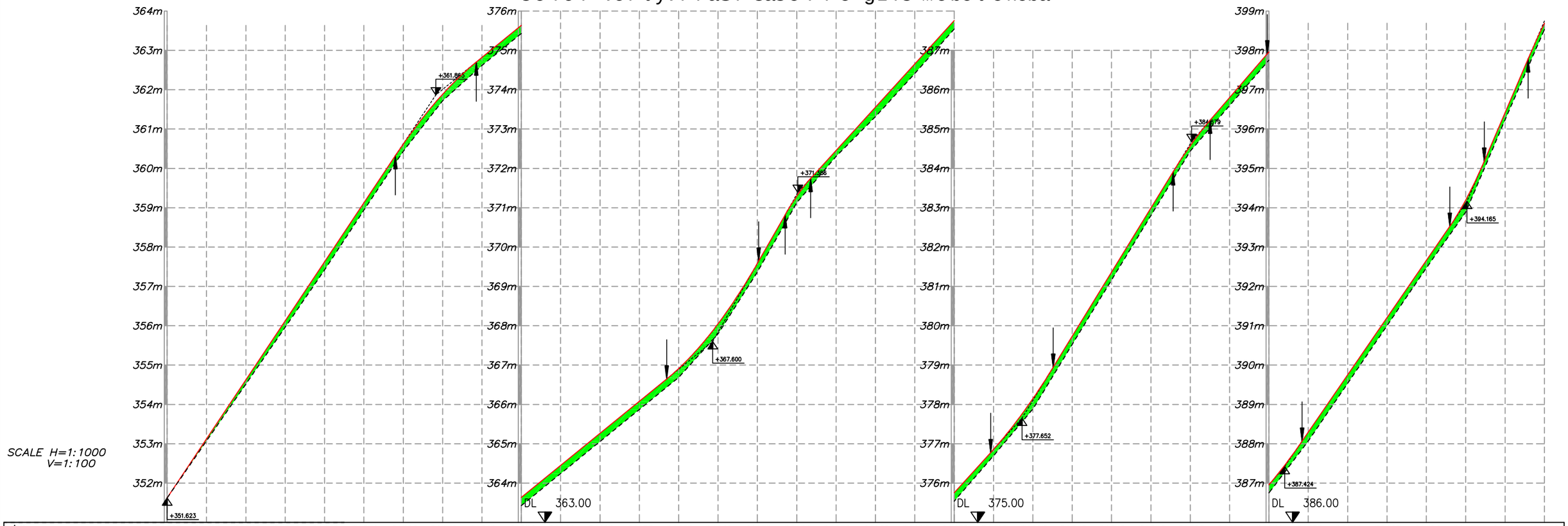
arsebuli topografiuli elementebi | EXISTING TOPOGRAPHY ELEMENTS

- reperi — Benchmark
- Senoba sacxovrebeli — Residential Building
- Senoba arasacxovrebeli — Non-Residential Building
- benzin gasamarTi sadguri — Patrol Station
- Robe — Fence
- xidi — Bridge
- r/b mili — RC Culvert
- liTonis mili — Steel Culvert
- wyalsadeni mili — Water-Pipe-line
- gazsadeni mili — Gas-Pipe-line
- navTobsadeni mili — Oil-Pipe-Line
- eklesia — Church
- sasaflao — Cemetery
- liTonis zRudari — Guardrail
- betonis zRudari — New Jersey
- luqi — Sealing-Wax
- Wa — Well
- rkinigza — Railway
- Slagbaumi — Barrier
- el. gadamcemi xazi — Power Line
- el. boZi — Power Post
- xe — Tree
- buCqi — Bush
- sagzao niSani — Road Signs
- SuqniSani — Light Signal

SeniSvna: | NOTE:

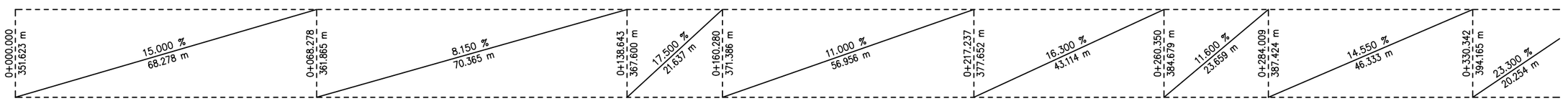
direqtori	g. gargulia		topo gegma	S.p.s	gegma
mT. inJineri	g. tikaraZe			arqiteqtura da proeqti	
					L 2-1

sofel verTyvilaSi sasofLo gzis mobetoneba

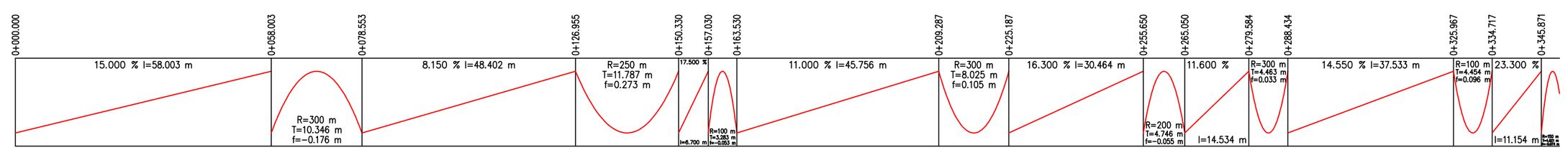


km	0+000	0+010	0+020	0+030	0+040	0+050	0+060	0+070	0+080	0+090	0+100	0+110	0+120	0+130	0+140	0+150	0+160	0+170	0+180	0+190	0+200	0+210	0+220	0+230	0+240	0+250	0+260	0+270	0+280	0+290	0+300	0+310	0+320	0+330	0+340	0+350
saproeqto niSnuli	351.623	353.123	354.623	356.123	357.623	359.123	360.617	361.884	362.821	363.636	364.451	365.266	366.081	366.914	368.051	369.588	371.293	372.456	373.556	374.656	375.756	376.856	378.147	379.732	381.362	382.992	384.575	385.799	386.959	388.295	389.750	391.205	392.660	394.197	396.415	398.688
arsebuli niSnuli	351.623	353.070	354.516	355.963	357.418	358.939	360.435	361.717	362.615	363.427	364.242	365.057	365.872	366.687	367.794	369.367	371.126	372.305	373.314	374.411	375.540	376.693	377.883	379.525	381.163	382.801	384.437	385.597	386.750	388.070	389.536	391.002	392.468	393.886	396.233	398.528
sxvaoba	0.000	0.054	0.107	0.161	0.205	0.185	0.181	0.167	0.206	0.209	0.209	0.209	0.209	0.227	0.257	0.220	0.167	0.151	0.242	0.244	0.216	0.163	0.264	0.207	0.199	0.191	0.137	0.202	0.209	0.225	0.214	0.203	0.192	0.311	0.183	0.160

grZivi qanobi

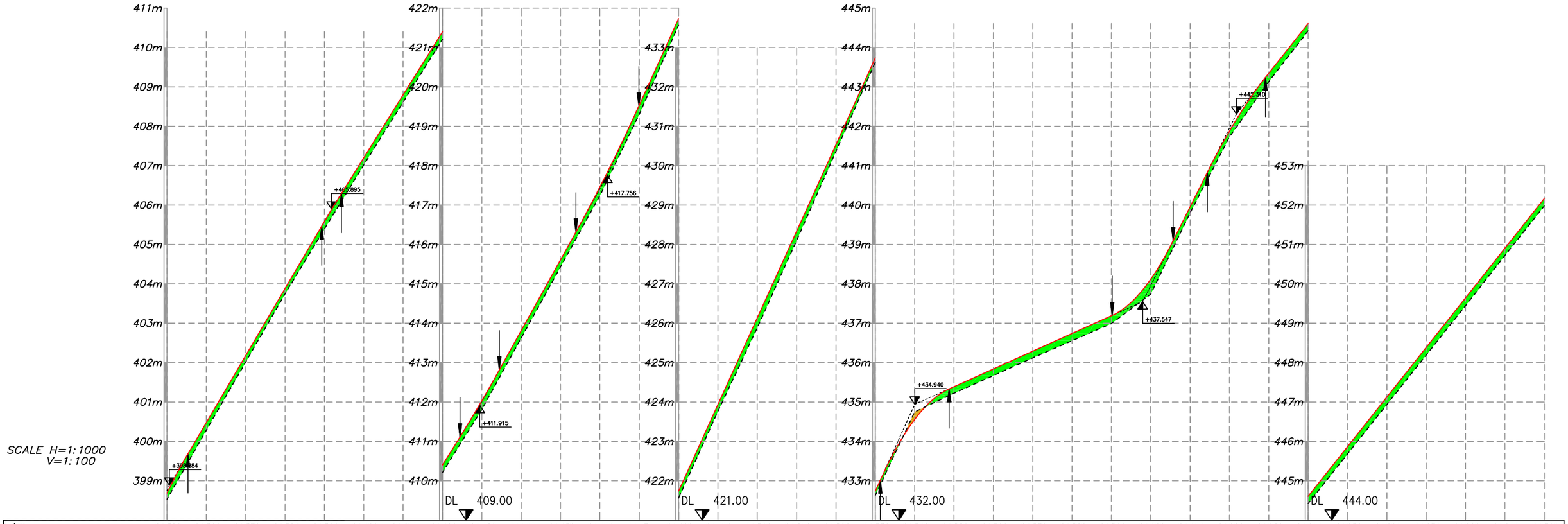


elementis parametrebi



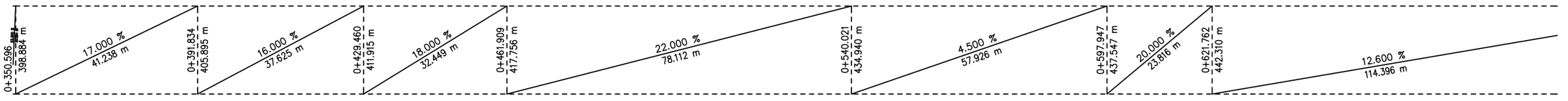
direqtori	g. gargulia			S.p.s	grZivi Wrili
mT. inJineri	g. tikaraZe			arqiteqtura da proeqti	
					P 2

sofel vertyvilaSi sasofLo gzis mobetoneba

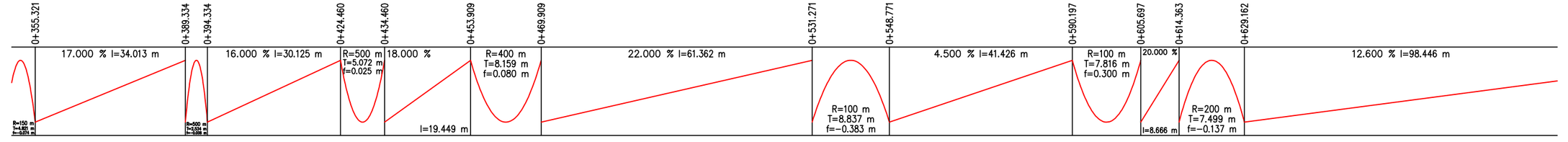


km	0+350	0+360	0+370	0+380	0+390	0+400	0+410	0+420	0+430	0+440	0+450	0+460	0+470	0+480	0+490	0+500	0+510	0+520	0+530	0+540	0+550	0+560	0+570	0+580	0+590	0+600	0+610	0+620	0+630	0+640	0+650	0+660	0+670	0+680	0+690	0+700
saproeqto niSnuli	398.688	400.483	402.183	403.883	405.582	407.201	408.801	410.401	412.032	413.812	415.612	417.458	419.536	421.736	423.936	426.136	428.336	430.536	432.736	434.555	435.389	435.839	436.289	436.739	437.189	438.120	439.958	441.878	443.348	444.608	445.868	447.128	448.388	449.648	450.908	452.168
arsebuli niSnuli	398.528	400.285	402.015	403.745	405.390	407.018	408.613	410.208	411.808	413.621	415.429	417.237	419.302	421.561	423.760	425.880	428.098	430.364	432.628	434.749	435.223	435.672	436.119	436.555	436.990	437.739	439.799	441.730	443.135	444.421	445.681	446.936	448.190	449.444	450.718	451.975
sxvaoba	0.160	0.198	0.168	0.138	0.192	0.183	0.188	0.193	0.224	0.191	0.183	0.222	0.234	0.174	0.175	0.255	0.237	0.172	0.107	−0.194	0.166	0.168	0.170	0.185	0.199	0.381	0.158	0.148	0.213	0.187	0.187	0.192	0.198	0.204	0.190	0.193

grZivi qanobi

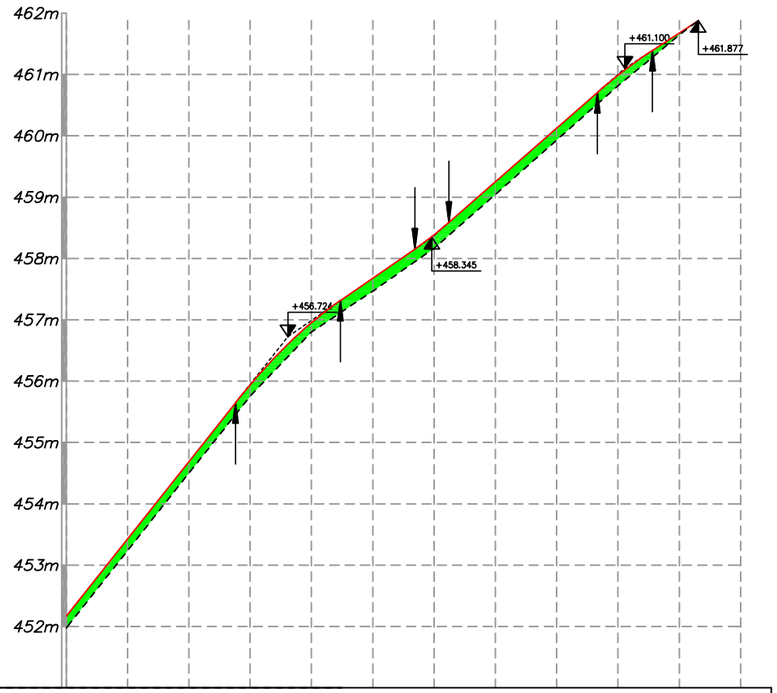


elementis parametrebi



direqtori	g. gargulia			S.p.s	
mT. inJineri	g. tikaraZe			arqiteqtura da proeqti	grZivi Wrili
					P 2-1

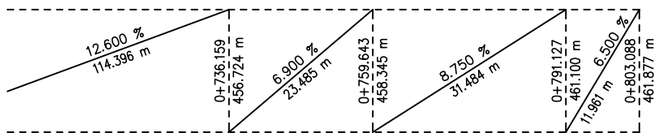
sofel verTyvilaSi sasofLo gzis mobetoneba



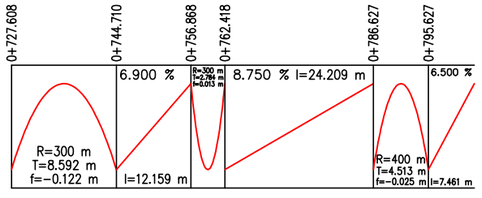
SCALE H=1:1000
V=1:100

km	0+700	0+710	0+720	0+730	0+740	0+750	0+760	0+770	0+780	0+790	0+800	0+810
saproeqto niSnuli	452.168	453.428	454.688	455.939	456.953	457.680	458.386	459.251	460.126	460.987	461.676	
arsebuli niSnuli	451.975	453.237	454.498	455.754	456.801	457.467	458.165	459.043	459.930	460.816	461.643	
sxvaoba	0.193	0.192	0.190	0.185	0.152	0.212	0.220	0.208	0.196	0.171	0.033	

grZivi qanobi



elementis parametrebi

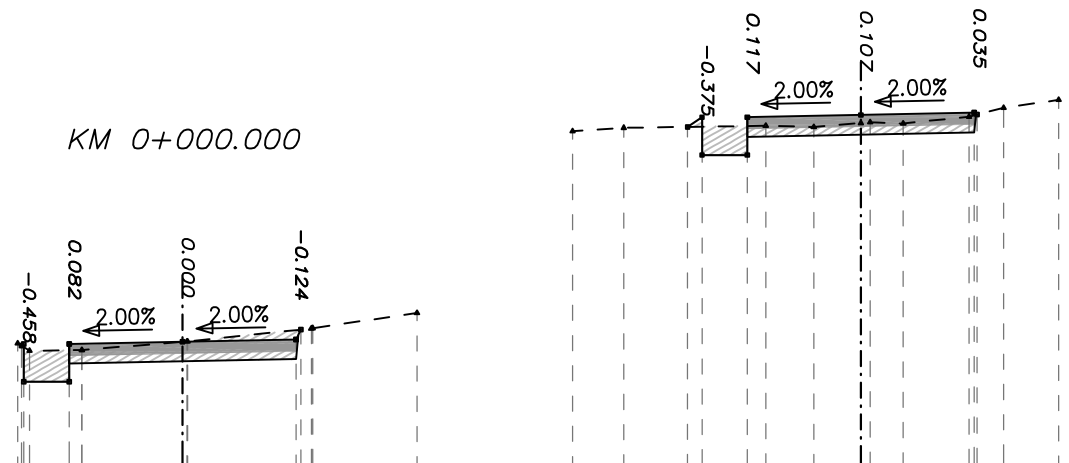


direqtori	g. gargulia			S.p.s	grZivi Wrili
mT. inJineri	g. tikaraZe			arqiteqtura da proeqti	
					P 2-2

sofel vertyvilaSi sasoflo gzis mobetoneba

KM 0+000.000

KM 0+020.000



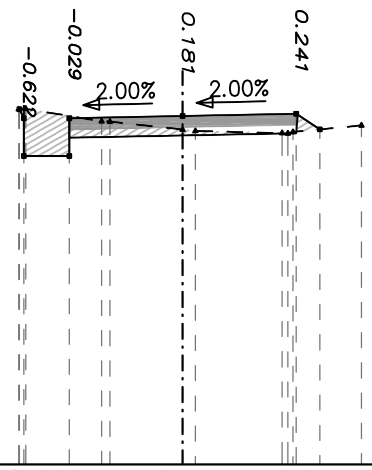
SCALE 1:100
LINE LEVEL 350.00 m

	KM 0+000.000	KM 0+020.000
saproeqto niSnuli	351.571 351.593 351.093 351.093 351.593 351.623 351.653 351.784	354.466 354.593 354.093 354.093 354.593 354.623 354.653 354.628
RerZis xazidan daSoreba	2.133 2.100 2.100 1.500 1.500 0.000 1.500 1.565	2.291 2.100 2.100 1.500 1.500 0.000 1.500 1.538
arsebuli niSnuli	351.602 351.504 351.514 351.514 351.623 351.628 351.628 351.798 351.803 352.003	354.410 354.454 354.480 354.465 354.516 354.527 354.510 354.601 354.718 354.824
RerZis xazidan daSoreba	2.182 2.024 1.336 1.332 0.000 0.059 0.068 1.703 1.721 3.100	3.812 3.136 1.257 0.623 0.000 0.125 0.562 1.433 1.889 2.619

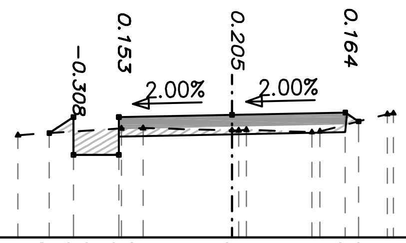
direqtori	g. gargulia			S.p.s	ganivi Wrilebi
mT. inJineri	g. tikaraZe			arqiteqtura da proeqti	
					C 2

so fel ver tyvi l aSi saso f l o gz is mobe t oneba

KM 0+060.000



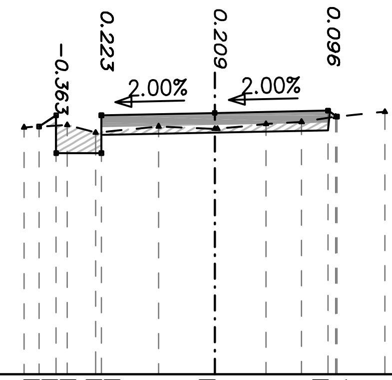
KM 0+040.000



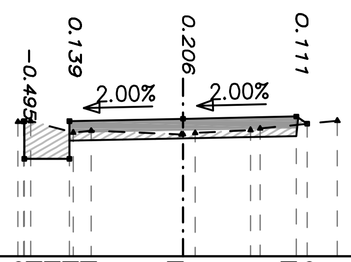
SCALE 1:100
LINE LEVEL 356.00 m

	KM 0+040.000	KM 0+060.000
sapr oeqt o niSnu l i	357.380 357.593 357.093 357.093 357.593 357.623 357.653 357.535	360.705 360.587 360.087 360.087 360.587 360.617 360.647 360.437
RerZis xazidan daSo reba	2.420 2.100 2.100 1.500 1.500 0.000 1.500 1.677	2.159 2.100 2.100 1.500 1.500 0.000 1.500 1.815
arsebu l i niSnu l i	357.353 357.443 357.447 357.418 357.416 357.425 357.393 357.404 357.632 357.644	360.704 360.710 360.545 360.542 360.435 360.417 360.388 360.385 360.402 360.491
RerZis xazidan daSo reba	2.835 1.464 1.179 0.000 0.086 0.190 1.057 1.163 2.057 2.139	2.169 2.075 1.072 0.963 0.000 0.167 1.317 1.391 1.461 2.364

KM 0+100.000



KM 0+080.000



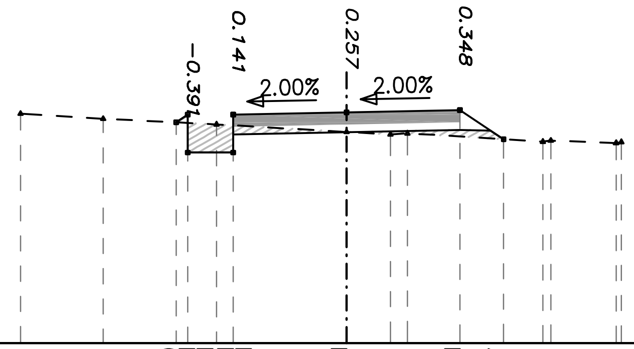
SCALE 1:100
LINE LEVEL 361.00 m

	KM 0+080.000	KM 0+100.000
sapr oeqt o niSnu l i	362.785 362.791 362.291 362.291 362.791 362.821 362.851 362.755	364.271 364.421 363.921 363.921 364.421 364.451 364.481 364.402
RerZis xazidan daSo reba	2.108 2.100 2.100 1.500 1.500 0.000 1.500 1.644	2.325 2.100 2.100 1.500 1.500 0.000 1.500 1.618
arsebu l i niSnu l i	362.781 362.791 362.638 362.661 362.613 362.615 362.631 362.672 362.691 362.795	364.259 364.292 364.190 364.272 364.242 364.240 364.305 364.332 364.400 364.466
RerZis xazidan daSo reba	2.181 2.014 1.450 1.212 0.021 0.000 0.161 0.894 1.021 2.044	2.525 1.953 1.576 0.742 0.000 0.037 0.679 1.151 1.601 2.254

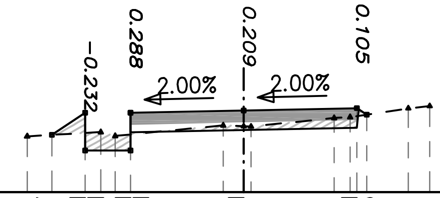
di reqt o r i	g. gargu l ia			S.p.s	ganivi Wr i l ebi
mT. inJiner i	g. t ikaraZe			arqi teqtura da proeqt i	
					C 2 - 1

so fel vertyvilaSi sasoflo gzis mobetoneba

KM 0+140.000



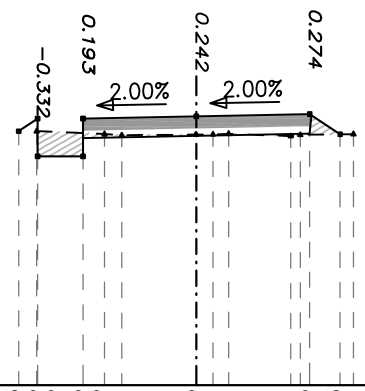
KM 0+120.000



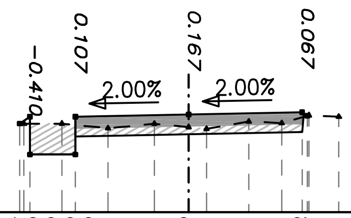
SCALE 1:100
LINE LEVEL 365.00 m

	KM 0+120.000	KM 0+140.000
saproeqto niSnuli	365.757 366.051 365.551 365.551 366.051 366.081 366.111 366.025	367.920 368.021 367.521 367.521 368.021 368.051 368.081 367.697
RerZis xazidan daSoreba	2.541 2.100 2.100 1.500 1.500 0.000 1.500 1.629	2.252 2.100 2.100 1.500 1.500 0.000 1.500 2.076
arsebuli niSnuli	365.738 365.794 365.743 365.883 365.872 365.868 365.980 365.991 366.108 366.137	368.036 367.968 367.893 367.794 367.760 367.775 367.665 367.679 367.648 367.660
RerZis xazidan daSoreba	2.868 1.892 1.702 0.272 0.000 0.096 1.198 1.409 2.182 2.465	4.310 3.217 1.720 0.000 0.579 0.806 2.593 2.699 3.563 3.631

KM 0+180.000



KM 0+160.000



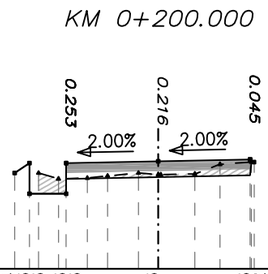
SCALE 1:100
LINE LEVEL 370.00 m

	KM 0+160.000	KM 0+180.000
saproeqto niSnuli	371.174 371.263 370.763 370.763 371.263 371.293 371.323 371.277	373.358 373.526 373.026 373.026 373.526 373.556 373.586 373.318
RerZis xazidan daSoreba	2.235 2.100 2.100 1.500 1.500 0.000 1.500 1.570	2.351 2.100 2.100 1.500 1.500 0.000 1.500 1.902
arsebuli niSnuli	371.174 371.173 371.112 371.171 371.126 371.103 371.202 371.179 371.283 371.264	373.358 373.320 373.306 373.314 373.314 373.316 373.324 373.293 373.310 373.320
RerZis xazidan daSoreba	2.179 1.676 1.067 0.452 0.000 0.236 0.795 1.232 1.590 1.987	2.113 1.214 0.987 0.010 0.000 0.219 0.426 1.247 1.375 2.079

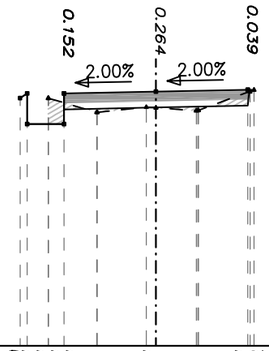
direqtori	g. gargulia			S.p.s	ganivi Wrilebi
mT. inJineri	g. tikaraZe			arqiteqtura da proeqti	
					C 2-2

sofel vertyvilaSi sasoflo gzis mobetoneba

KM 0+200.000



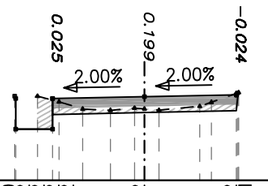
KM 0+220.000



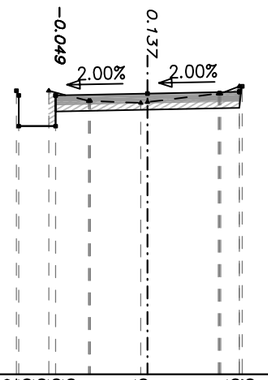
SCALE 1:100
LINE LEVEL 374.00 m

saproeqto niSnuli	375.564 375.726 375.226 375.726 375.756 375.786 375.742	378.039 378.117 377.617 378.117 378.147 378.177 378.152
RerZis xazidan daSoreba	2.342 2.100 2.100 1.500 1.500 0.000 1.500 1.565	2.216 2.100 2.100 1.500 1.500 0.000 1.500 1.538
arsebuli niSnuli	375.564 375.470 375.482 375.517 375.563 375.540 375.537 375.549 375.707 375.742	378.039 378.038 377.809 377.809 377.894 377.883 377.836 377.839 377.842 378.174
RerZis xazidan daSoreba	1.950 1.626 1.154 0.825 0.320 0.000 0.042 0.597 1.010 1.521	1.757 1.753 0.964 0.956 0.157 0.000 0.658 0.685 0.692 1.599

KM 0+240.000



KM 0+260.000



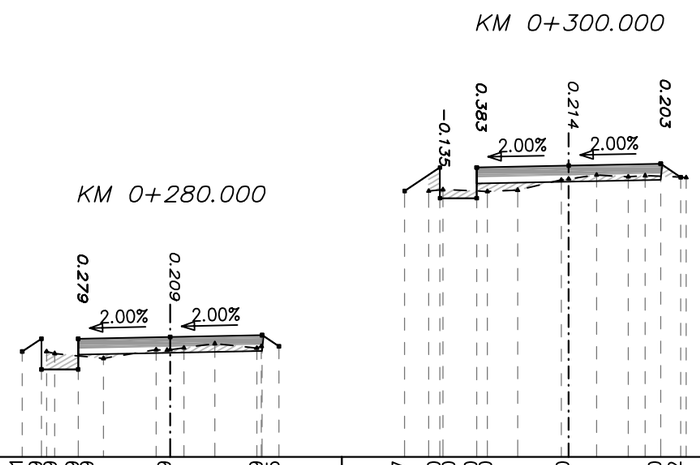
SCALE 1:100
LINE LEVEL 380.00 m

saproeqto niSnuli	381.370 381.332 380.832 381.332 381.362 381.392 381.421	384.622 384.545 384.045 384.545 384.575 384.605 384.693
RerZis xazidan daSoreba	2.119 2.100 2.100 1.500 1.500 0.000 1.500 1.515	2.139 2.100 2.100 1.500 1.500 0.000 1.500 1.544
arsebuli niSnuli	381.370 381.279 381.161 381.140 381.176 381.163 381.143 381.206 381.272 381.430	384.622 384.455 384.454 384.456 384.424 384.437 384.577 384.579 384.577 384.693
RerZis xazidan daSoreba	1.746 1.394 1.006 0.554 0.163 0.000 0.237 0.900 1.093 1.538	1.611 0.961 0.947 0.931 0.111 0.000 1.155 1.171 1.192 1.496

direqtori	g. gargulia			S.p.s	ganivi Wrilebi
mT. inJineri	g. tikaraZe			arqiteqtura da proeqti	
					C 2-3

sofel vertyvilaSi sasofl o gzis mobetoneba

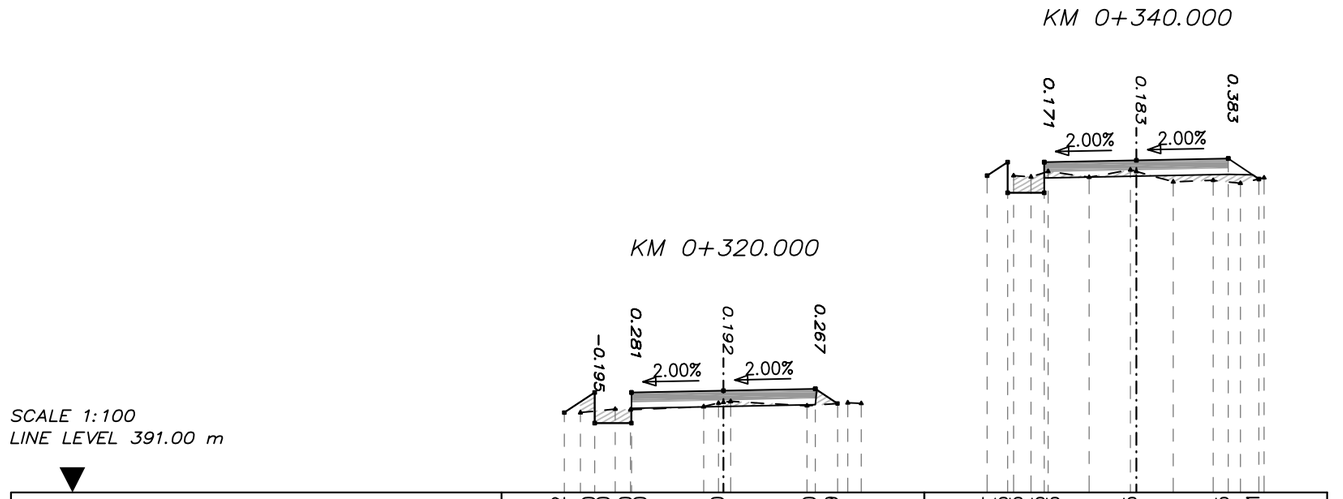
SCALE 1:100
LINE LEVEL 385.00 m



saproeqto niSnuli	386.721	386.929	386.429	386.929	386.959	386.989	386.805	389.337	389.720	389.220	389.220	389.720	389.750	389.780	389.562								
RerZis xazidan daSoreba	2.412	2.100	2.100	1.500	0.000	1.500	1.775	2.675	2.100	2.100	1.500	1.500	0.000	1.500	1.828								
arsebuli niSnuli	386.721	386.688	386.608	386.749	386.743	386.750	386.779	386.849	386.776	386.805	389.337	389.360	389.330	389.351	389.519	389.536	389.599	389.569	389.589	389.558			
RerZis xazidan daSoreba	2.017	1.885	1.086	0.230	0.050	0.000	0.426	0.729	1.413	1.488	2.283	2.050	1.326	0.833	0.120	0.000	0.455	0.971	1.248	1.915			

direqtori	g. gargulia			S.p.s	ganivi Wrilebi
mT. inJineri	g. tikaraZe			arqiteqtura da proeqti	
					C 2-4

sofel vertyvilaSi sasofLo gzis mobetoneba

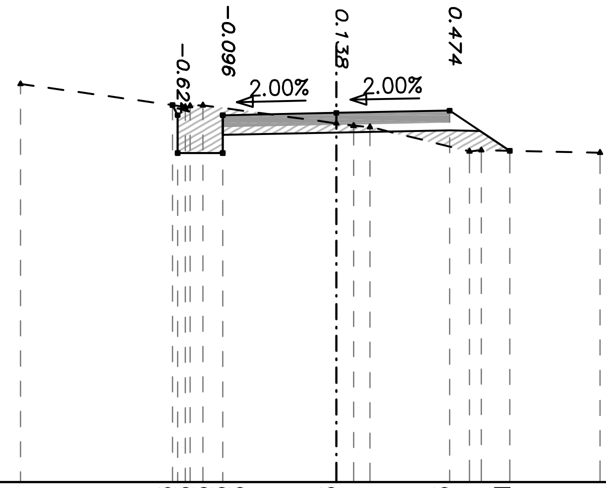


saproeqto niSnuli	392.302	392.630	392.130	392.630	392.660		392.690	392.449			396.164	396.385	395.885	396.385	396.415		396.445	396.111					
RerZis xazidan daSoreba	2.593	2.100	2.100	1.500	1.500	0.000		1.500	1.861		2.432	2.100	2.100	1.500	1.500	0.000		1.500	2.001				
arsebuli niSnuli	392.302	392.359	392.348		392.399	392.457	392.468	392.484	392.414		392.461	392.451	396.164	396.145	396.234	396.140	396.259	396.233	396.065	396.089	396.042	396.130	
RerZis xazidan daSoreba	2.332	1.766	1.513		0.323	0.079	0.000	0.117	1.363		2.030	2.247	2.002	1.718	1.437	0.768	0.095	0.000	0.603	1.255	1.697	2.083	

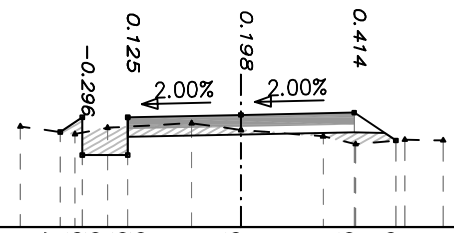
direqtori	g. gargulia			S.p.s	ganivi Wrilebi
mT. inJineri	g. tikaraZe			arqiteqtura da proeqti	
					C 2-5

sofel vertyvilaSi sasoflo gzis mobetoneba

KM 0+380.000



KM 0+360.000



SCALE 1:100
LINE LEVEL 399.00 m

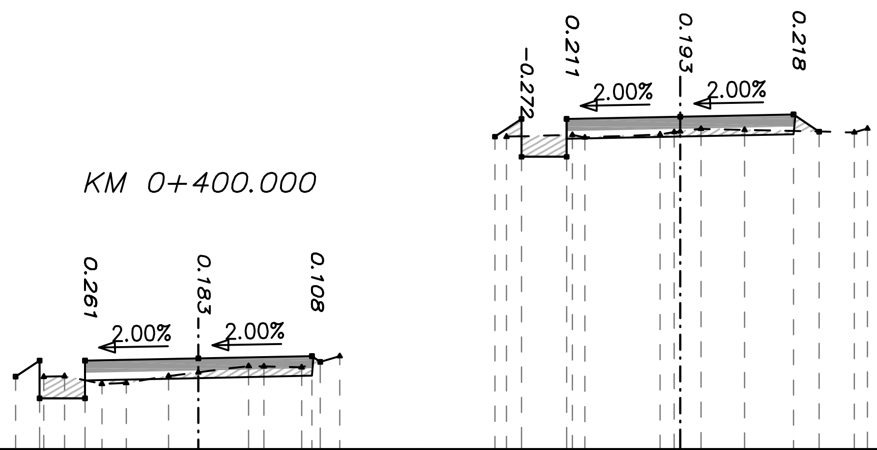
	KM 0+360.000	KM 0+380.000
saproeqto niSnuli	400.257 400.453 399.953 399.953 400.453 400.483 400.513 400.145	403.986 403.853 403.353 403.353 403.853 403.883 403.913 403.381
RerZis xazidan daSoreba	2.394 2.100 2.100 1.500 1.500 0.000 1.500 2.052	2.167 2.100 2.100 1.500 1.500 0.000 1.500 2.298
arsebuli niSnuli	400.330 400.229 400.314 400.373 400.285 400.284 400.200 400.095 400.156 400.146	404.266 403.963 403.975 403.984 403.745 403.714 403.697 403.374 403.389 403.358
RerZis xazidan daSoreba	2.920 2.199 1.765 0.652 0.000 0.004 1.090 1.519 2.170 2.680	4.178 1.999 1.933 1.764 0.000 0.228 0.447 1.763 1.920 3.489

direqtori	g. gargulia			S.p.s	ganivi Wrilebi
mT. inJineri	g. tikaraZe			arqiteqtura da proeqti	
					C 2-6

so fe l ver t yvi l aSi saso f l o gz is mobe t oneba

KM 0+420.000

KM 0+400.000



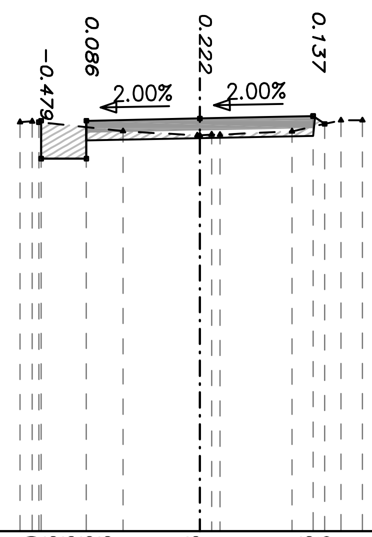
SCALE 1:100
LINE LEVEL 406.00 m

	KM 0+400.000	KM 0+420.000
sapr oeqt o ni Snu l i	406.959 407.171 406.671 406.671 407.171 407.201 407.231 407.156	410.138 410.371 409.871 409.871 410.371 410.401 410.431 410.205
RerZis xaz idan daSo reba	2.418 2.100 2.100 1.500 1.500 0.000 1.500 1.613	2.450 2.100 2.100 1.500 1.500 0.000 1.500 1.839
a r sebu l i ni Snu l i	406.959 406.967 406.864 406.877 406.969 407.018 407.100 407.095 407.084 407.231	410.138 410.162 410.128 410.167 410.198 410.208 410.242 410.228 410.194 410.245
RerZis xaz idan daSo reba	2.044 1.769 1.277 0.956 0.394 0.000 0.665 0.865 1.364 1.868	2.297 1.424 1.261 0.267 0.079 0.000 0.274 0.853 2.306 2.478

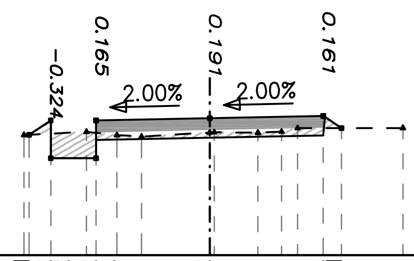
di reqt o r i	g. gargu l ia			S.p.s	ganivi Wr i l ebi
mT. inJiner i	g. t ikaraZe			arqi teqtura da pr oeqt i	
					C 2 - 7

so fe l ver t yvi l aSi saso f l o gz is mobe t oneba

KM 0+460.000



KM 0+440.000

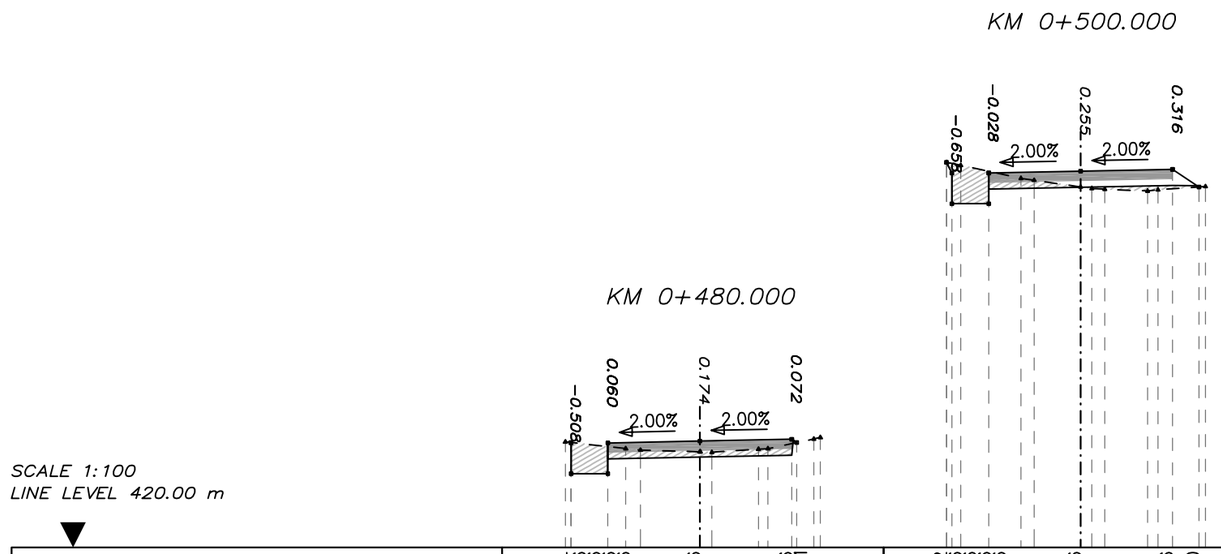


SCALE 1:100
LINE LEVEL 412.00 m

	KM 0+440.000	KM 0+460.000
sap r oeq t o n i Snu l i	413.591 413.782 413.282 413.282 413.782 413.812 413.842 413.681	417.410 417.428 416.928 416.928 417.428 417.458 417.488 417.386
RerZis xaz i dan daSo reba	2.387 2.100 2.100 1.500 1.500 0.000 1.500 1.742	2.127 2.100 2.100 1.500 1.500 0.000 1.500 1.653
a r sebu l i n i Snu l i	413.587 413.631 413.587 413.568 413.621 413.625 413.619 413.633 413.680 413.681	417.412 417.420 417.291 417.235 417.237 417.246 417.245 417.288 417.435 417.436
RerZis xaz i dan daSo reba	2.454 1.628 1.227 0.899 0.000 0.061 0.638 0.950 1.163 2.553	2.377 2.217 1.016 0.033 0.000 0.156 0.269 1.220 1.869 2.153

d i req t o r i	g. ga r gu l ia			S.p.s	ganivi Wr i l ebi
mT. inJ i ne r i	g. t ika r aZe			a r qi t eq t u r a da p r oeq t i	
					C 2 - 8

sofel vertyvilaSi sasofLo gzis mobetoneba

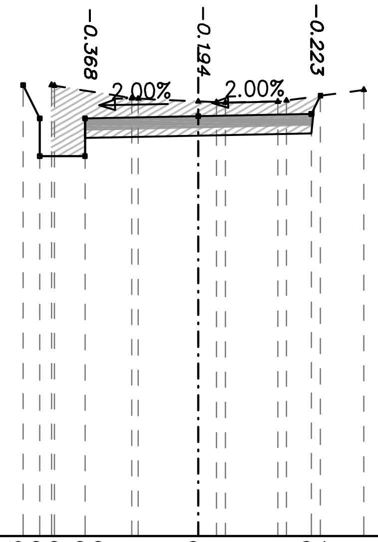


saproeqto niSnuli	421.714	421.706	421.206	421.206	421.706	421.736			421.766	421.711			426.282	426.106	425.606	425.606	426.106	426.136			426.166	425.880	
RerZis xazidan daSoreba	2.104	2.100	2.100	1.500	1.500	0.000			1.500	1.582			2.188	2.100	2.100	1.500	1.500	0.000			1.500	1.929	
arsebuli niSnuli	421.724		421.613	421.589		421.561	421.561	421.554	421.604	421.612		421.770	421.796	426.282	426.232		426.020	425.988	425.880	425.855	425.843	425.814	425.834	425.887
RerZis xazidan daSoreba	2.194		1.208	0.966		0.000	0.008	0.196	0.956	1.112		1.861	1.967	2.184	1.955		0.973	0.759	0.000	0.182	0.393	1.091	1.262	2.035

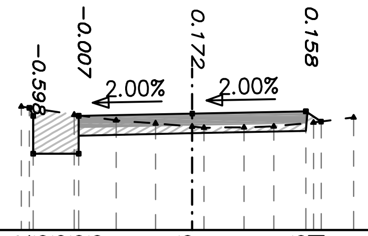
direqtori	g. gargulia			S.p.s	ganivi Wrilebi
mT. inJineri	g. tikaraZe			arqiteqtura da proeqti	
					C 2-9

so fel ver tyvi l aSi saso f l o gz is mobe t oneba

KM 0+540.000



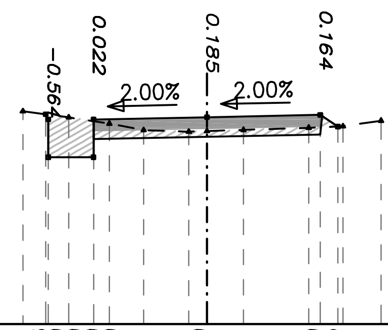
KM 0+520.000



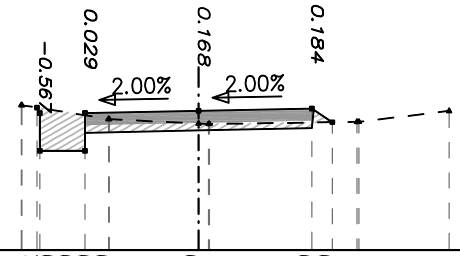
SCALE 1:100
LINE LEVEL 429.00 m

	KM 0+520.000	KM 0+540.000
sapr oeqt o niSnu l i	430.612 430.506 430.006 430.006 430.506 430.536 430.566 430.431	434.966 434.525 434.025 434.025 434.525 434.555 434.585 434.824
RerZis xazidan daSo reba	2.153 2.100 2.100 1.500 1.500 0.000 1.500 1.702	2.321 2.100 2.100 1.500 1.500 0.000 1.500 1.619
a r sebu l i niSnu l i	430.628 430.521 430.447 430.406 430.363 430.350 430.354 430.367 430.418 430.486	434.966 434.957 434.793 434.786 434.749 434.737 434.734 434.747 434.762 434.902
RerZis xazidan daSo reba	2.257 1.559 1.007 0.483 0.000 0.157 0.684 1.076 1.601 2.133	1.941 1.904 0.881 0.793 0.000 0.242 0.361 1.053 1.169 2.193

KM 0+580.000



KM 0+560.000

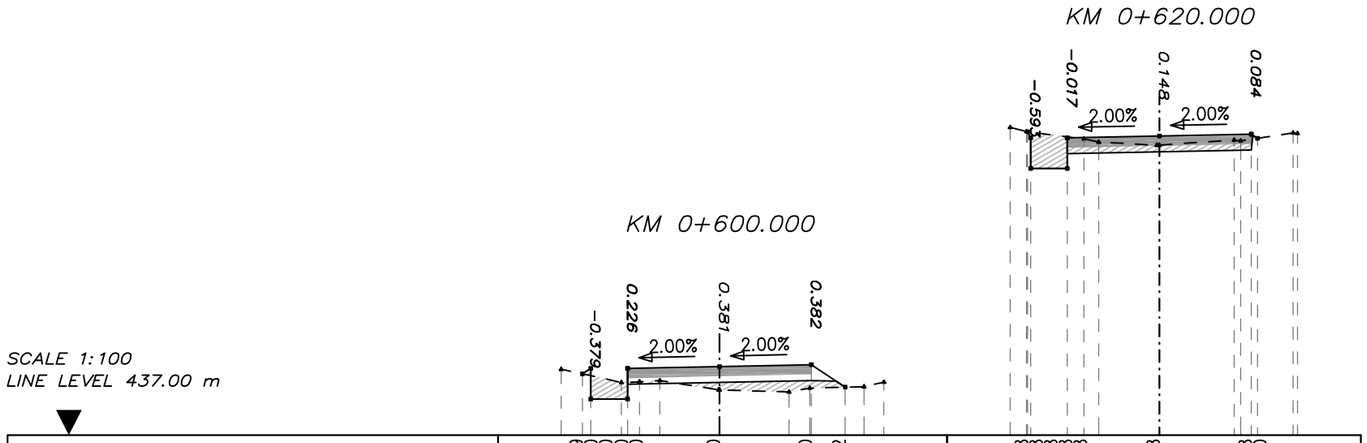


SCALE 1:100
LINE LEVEL 434.00 m

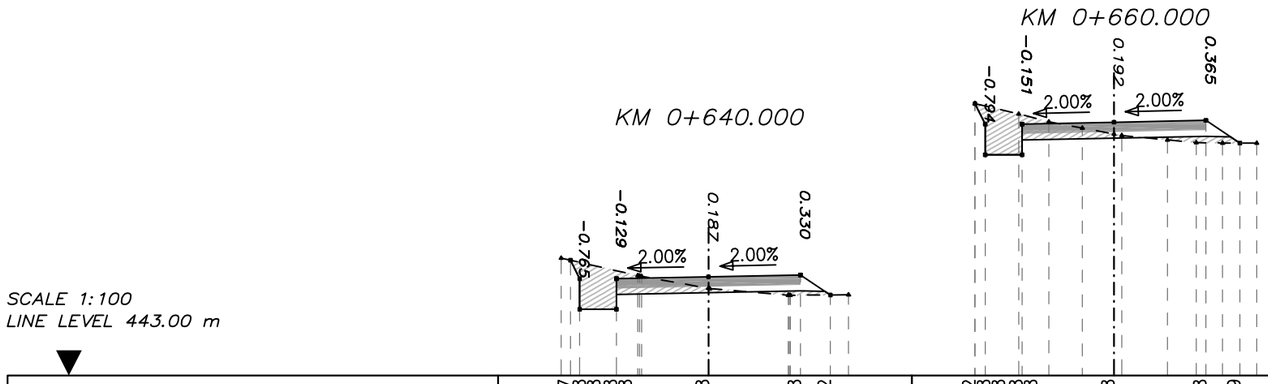
	KM 0+560.000	KM 0+580.000
sapr oeqt o niSnu l i	435.882 435.809 435.309 435.309 435.809 435.839 435.869 435.689	436.778 436.709 436.209 436.209 436.709 436.739 436.769 436.615
RerZis xazidan daSo reba	2.136 2.100 2.100 1.500 1.500 0.000 1.500 1.770	2.134 2.100 2.100 1.500 1.500 0.000 1.500 1.731
a r sebu l i niSnu l i	435.915 435.914 435.731 435.729 435.672 435.665 435.665 435.694 435.695 435.838	436.818 436.737 436.655 436.567 436.547 436.555 436.570 436.599 436.618 436.692
RerZis xazidan daSo reba	2.343 2.334 1.190 1.179 0.000 0.132 0.147 2.098 2.122 3.316	2.436 1.829 1.289 0.837 0.239 0.000 0.485 1.346 1.799 2.304

d i reqt o r i	g. gargu l ia			S.p.s	ganivi Wr i l ebi
mT. inJiner i	g. t ikaraZe			a rqi teqtura da proeqt i	
					C 2 - 10

sofel vertyvilaSi sasofLo gzis mobetoneba



saproeqto niSnuli	437.999	438.090	437.590	437.590	438.090	438.120	438.150	437.782	441.948	441.848	441.348	441.848	441.878	441.908	441.840								
RerZis xazidan daSoreba	2.236	2.100	2.100	1.500	1.500	0.000	1.500	2.051	2.150	2.100	2.100	1.500	1.500	0.000	1.500	1.603							
arsebuli niSnuli	438.074	437.860	437.870	437.890	437.739	437.739	437.704	437.767	437.791	437.865	442.017	441.950	441.930	441.779	441.728	441.730	441.812	441.797	441.930	441.919			
RerZis xazidan daSoreba	2.582	1.600	1.306	0.975	0.011	0.000	1.136	1.472	2.357	2.682	2.433	2.168	1.232	0.987	0.039	0.000	1.221	1.327	2.180	2.255			

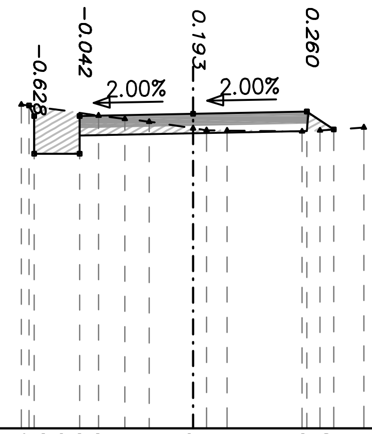


saproeqto niSnuli	444.877	444.578	444.078	444.078	444.578	444.608	444.638	444.312	447.432	447.098	446.598	446.598	447.098	447.128	447.158	446.789							
RerZis xazidan daSoreba	2.250	2.100	2.100	1.500	1.500	0.000	1.500	1.989	2.267	2.100	2.100	1.500	1.500	0.000	1.500	2.054							
arsebuli niSnuli	444.912	444.629	444.621	444.615	444.421	444.417	444.308	444.307	444.307	444.314	447.432	447.263	447.136	447.033	446.936	446.912	446.841	446.796	446.789	446.789			
RerZis xazidan daSoreba	2.403	1.155	1.125	1.091	0.000	0.019	1.303	1.320	1.336	2.286	2.268	1.554	1.063	0.515	0.000	0.126	0.872	1.342	1.772	2.329			

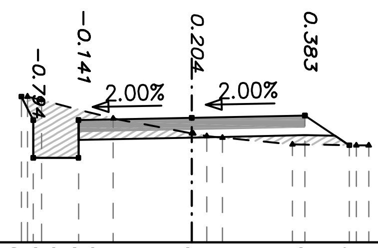
direqtori	g. gargulia			S.p.s	ganivi Wrilebi
mT. inJineri	g. tikaraZe			arqiteqtura da proeqti	
					C 2-11

so fe l ver tyvi l aSi saso f l o gz is mobe t oneba

KM 0+700.000



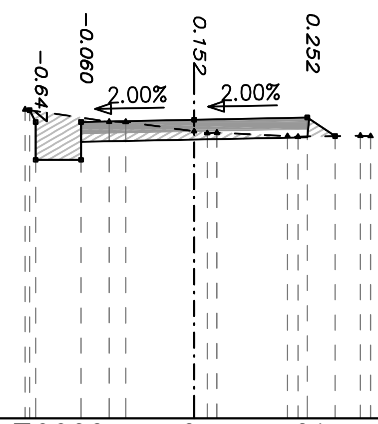
KM 0+680.000



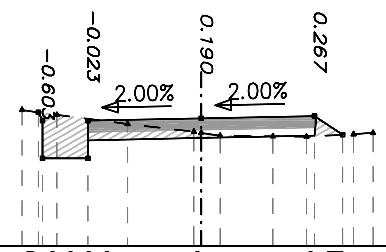
SCALE 1:100
LINE LEVEL 448.00 m

	KM 0+680.000	KM 0+700.000
sapr oeqt o niSnu l i	449.930 449.618 449.118 449.118 449.618 449.648 449.678 449.286	452.276 452.138 451.638 451.638 452.138 452.168 452.198 451.960
RerZis xazidan daSo reba	2.256 2.100 2.100 1.500 1.500 0.000 1.500 2.088	2.169 2.100 2.100 1.500 1.500 0.000 1.500 1.858
a rsebu l i niSnu l i	449.930 449.886 449.640 449.444 449.441 449.407 449.387 449.298 449.285 449.285	452.291 452.144 452.100 452.062 451.975 451.949 451.945 451.935 451.947 451.987
RerZis xazidan daSo reba	2.177 1.990 1.039 0.000 0.020 0.200 0.408 1.333 2.180 2.344	2.269 1.251 0.904 0.579 0.000 0.178 0.447 1.437 1.676 2.255

KM 0+740.000



KM 0+720.000



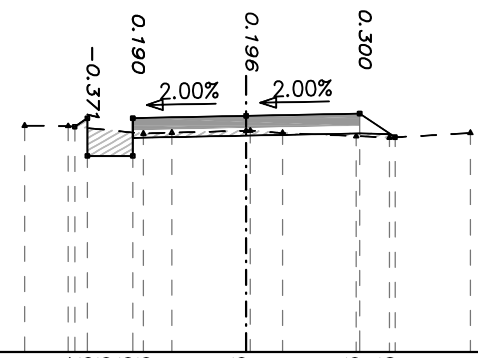
SCALE 1:100
LINE LEVEL 453.00 m

	KM 0+720.000	KM 0+740.000
sapr oeqt o niSnu l i	454.769 454.658 454.158 454.158 454.658 454.688 454.718 454.471	457.081 456.923 456.423 456.423 456.923 456.953 456.983 456.737
RerZis xazidan daSo reba	2.155 2.100 2.100 1.500 1.500 0.000 1.500 1.871	2.179 2.100 2.100 1.500 1.500 0.000 1.500 1.868
a rsebu l i niSnu l i	454.800 454.734 454.614 454.513 454.498 454.461 454.451 454.446 454.479 454.496	457.090 456.927 456.926 456.801 456.777 456.782 456.738 456.729 456.743 456.738
RerZis xazidan daSo reba	2.370 1.910 0.974 0.097 0.000 0.248 0.947 1.394 2.015 2.274	2.241 1.125 0.908 0.000 0.175 0.299 1.235 1.374 2.201 2.337

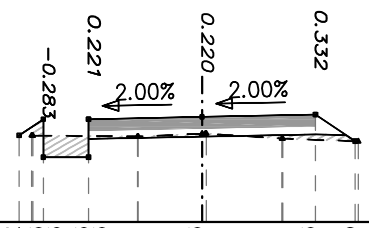
d i req t o r i	g. ga rgu l ia			S.p.s	ganivi Wr i l ebi
mT. inJiner i	g. t ikaraZe			arqi teqtura da proeqt i	
					C 2 - 12

so fe l ver t yvi l aSi saso f l o gz is mobe t oneba

KM 0+780.000



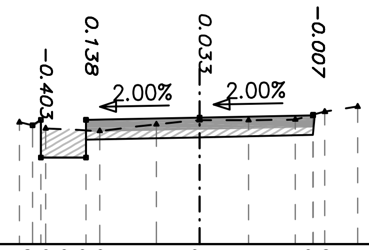
KM 0+760.000



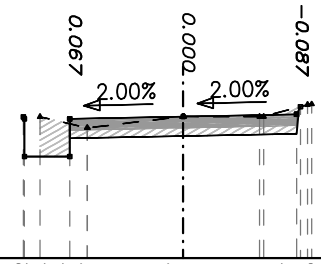
SCALE 1:100
LINE LEVEL 457.00 m

sapr oeqt o niSnu l i	458.142 458.356 457.856 457.856 458.356 458.386 458.416 458.065	459.984 460.096 459.596 459.596 460.096 460.126 460.156 459.843
RerZis xaz i dan daSo reba	2.421 2.100 2.100 1.500 1.500 0.000 1.500 2.027	2.268 2.100 2.100 1.500 1.500 0.000 1.500 1.970
a r sebu l i ni Snu l i	458.142 458.140 458.130 458.129 458.165 458.167 458.167 458.100 458.100 458.063	459.999 459.993 459.892 459.905 459.930 459.932 459.901 459.858 459.839 459.900
RerZis xaz i dan daSo reba	2.255 2.240 0.854 0.845 0.000 0.042 0.057 1.055 1.068 2.068	2.932 2.353 1.359 0.985 0.000 0.056 0.482 1.455 1.895 2.968

KM 0+800.000



KM 0+803.088



SCALE 1:100
LINE LEVEL 460.00 m

sapr oeqt o niSnu l i	461.575 461.646 461.146 461.146 461.646 461.676 461.706 461.715	461.873 461.847 461.347 461.347 461.847 461.877 461.907 462.008
RerZis xaz i dan daSo reba	2.208 2.100 2.100 1.500 1.500 0.000 1.500 1.504	2.113 2.100 2.100 1.500 1.500 0.000 1.500 1.550
a r sebu l i ni Snu l i	461.616 461.534 461.499 461.589 461.643 461.642 461.651 461.756 461.823	461.873 461.727 461.727 461.876 461.877 461.878 461.876 461.877 462.034 462.042
RerZis xaz i dan daSo reba	2.383 2.036 1.321 0.571 0.001 0.648 1.267 1.658 2.092	1.893 1.273 1.266 0.012 0.000 0.012 1.009 1.064 1.647 1.700

d i reqt o r i	g. ga rgu l ia			S.p.s	ganivi Wr i l ebi
mT. inJ i ner i	g. t ikaraZe			a rqi teqtura da pr oeqt i	
					C 2 - 13