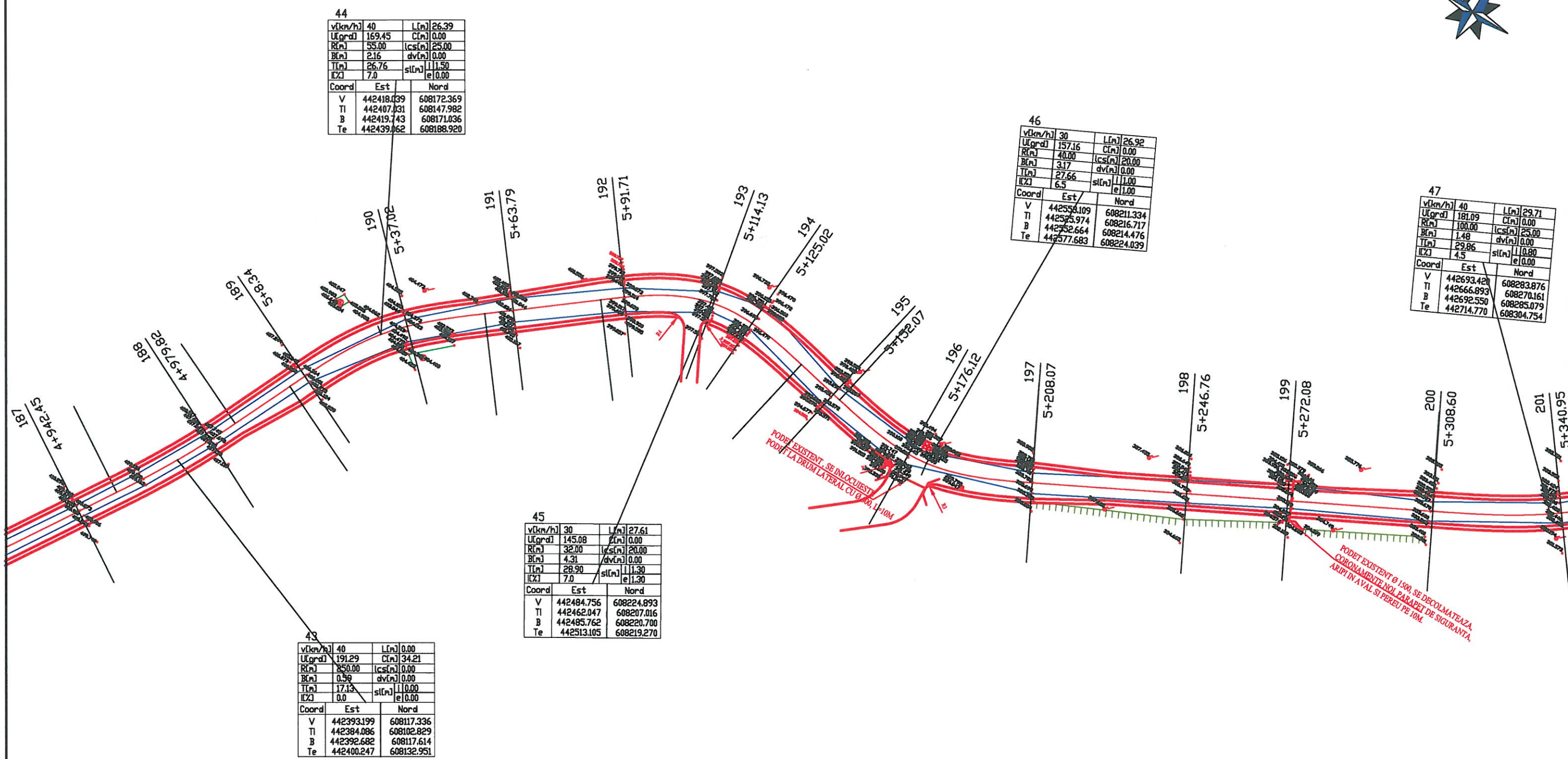
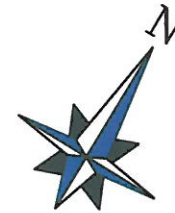




VERIFICATOR			Referat nr.
VERIFICATOR/ EXPERT		SEMNAURA	CERINTA
S.C. STARCOM EXIM S.R.L. Cluj-Napoca, str. Locomotivei nr.4, tel/fax. 0264 433217		Beneficiar: U.A.T. JUDETUL BISTRITA-NASAUD	
SPECIFICATIE		NUME	SEMNAURA
SEF PROIECT		Ing. Cozma Andrei	Scara: 1:1000
PROIECTAT		Ing. Cozma Andrei	Data: 2015
DESENAT		Ing. Serbanescu Silviu	Titlu planşa: PLAN DE SITUATIE
			Proiect nr. 8/2015
			Faza: D.A.L.I.
			Planşa nr. 2.13

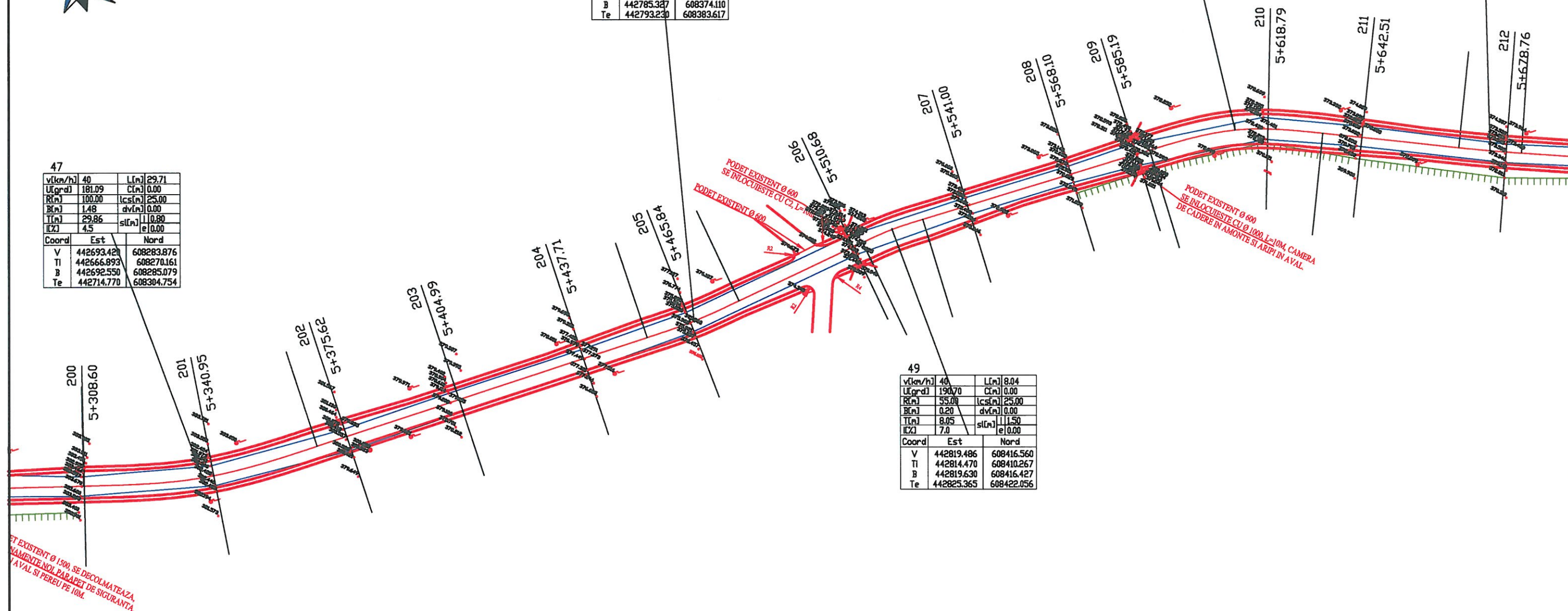


47		
v[km/h]	40	L[m] 29.71
U[grd]	181.09	C[m] 0.00
R[m]	100.00	cs[m] 25.00
B[m]	1.48	dv[m] 0.00
T[m]	29.86	sl[m] 0.80
IC%	4.5	e 0.00
Coord	Est	Nord
V	442693.420	608283.876
TI	442666.893	608270.161
B	442692.550	608285.079
Te	442714.770	608304.754

48		
v[km/h]	40	L[m] 12.36
U[grd]	192.13	C[m] 0.00
R[m]	100.00	cs[m] 25.00
B[m]	0.26	dv[m] 0.00
T[m]	12.38	sl[m] 0.80
IC%	4.5	e 0.00
Coord	Est	Nord
V	442785.517	608373.939
TI	442776.669	608365.286
B	442785.327	608374.110
Te	442793.230	608383.617

50		
v[km/h]	40	L[m] 22.04
U[grd]	174.48	C[m] 0.00
R[m]	55.00	cs[m] 25.00
B[m]	1.50	dv[m] 0.00
T[m]	22.25	sl[m] 0.75
IC%	7.0	e 0.75
Coord	Est	Nord
V	442884.885	608477.699
TI	442868.620	608462.501
B	442885.670	608476.422
Te	442905.782	608485.349

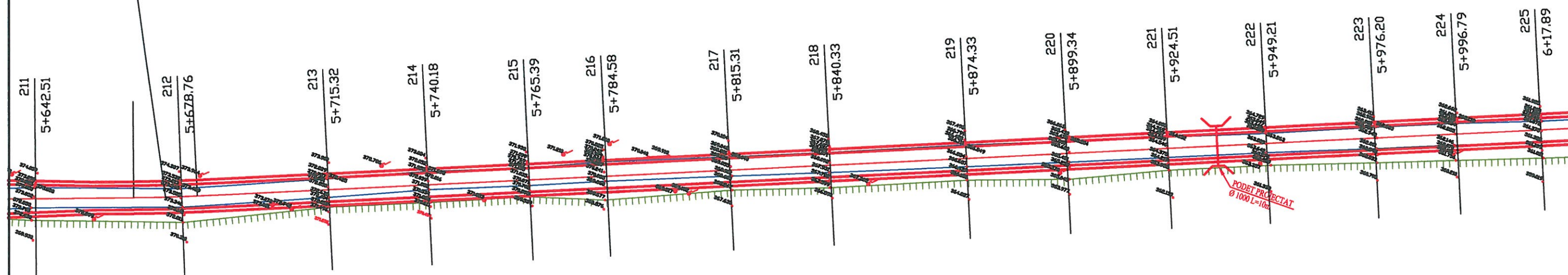
51		
v[km/h]	50	L[m] 0.00
U[grd]	197.48	C[m] 15.83
R[m]	400.00	cs[m] 0.00
B[m]	0.08	dv[m] 0.00
T[m]	7.92	sl[m] 0.00
IC%	0.0	e 0.00
Coord	Est	Nord
V	442945.304	608499.818
TI	442937.868	608497.096
B	442945.276	608499.891
Te	442952.626	608502.833



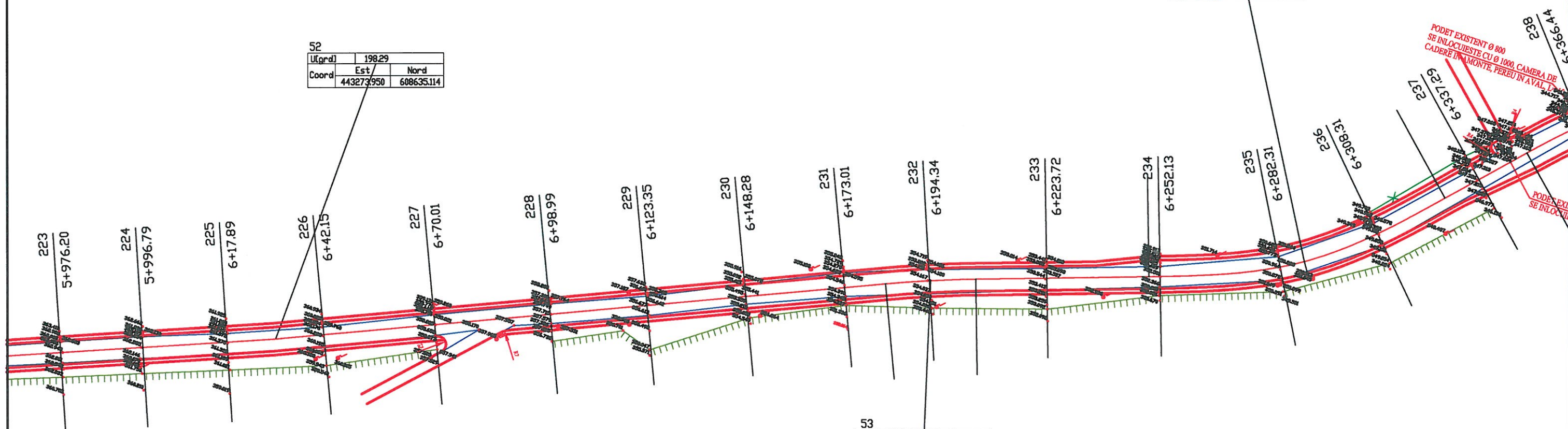
VERIFICATOR				Referat nr.
VERIFICATOR/ EXPERT		SEMNAURA	CERINTA	REFERAT / EXPERTIZA NR. / DATA
S.C. STARCOM EXIM S.R.L. Cluj-Napoca, str. Locomotivei nr.4, tel/fax. 0264 433217				Beneficiar: U.A.T. JUDETUL BISTRITA-NASAUD
				Proiect nr. 8/2015
SPECIFICATIE	NUME	SEMNAURA	Scara: 1:1000	Titlu proiect: MODERNIZARE DJ172E KM 0+000-7+000 STRUGURENI-MATEI
SEF PROIECT	Ing. Cozma Andrei			Faza: D.A.L.I.
PROIECTAT	Ing. Cozma Andrei			Titlu plansa: PLAN DE SITUATIE
DESENAT	Ing. Serbanescu Silviu		Data: 2015	Plansa nr. 2.14



51			
v(m/h)	50	L(m)	0.00
U(m/s)	197.48	C(m)	15.83
R(m)	400.00	lcs(m)	0.00
B(m)	0.08	dv(m)	0.00
T(m)	7.92	sl(m)	0.00
IC	0.0	e	0.00
Coord	Est	Nord	
V	442945.304	608499.818	
TI	442937.868	608497.096	
B	442945.276	608499.891	
Te	442952.626	608502.833	



VERIFICATOR				Referat nr.
VERIFICATOR/ EXPERT		SEMNAURA	CERINTA	REFERAT / EXPERTIZA NR. / DATA
S.C. STARCOM EXIM S.R.L. Cluj-Napoca, str. Locomotivei nr.4, tel/fax. 0264 433217		   Nr. certificat : 2166 Nr. certificat : 1602 Nr. certificat : 1311 ISO 9001:2008 ISO 14001:2004 OHSAS 18001:2007		Beneficiar: U.A.T. JUDETUL BISTRITA-NASAUD
SPECIFICATIE	NUME	SEMNAURA	Scara: 1:1000	Titlu proiect: MODERNIZARE DJ172E KM 0+000-7+000 STRUGURENI-MATEI
SEF PROIECT	Ing. Cozma Andrei		Data: 2015	Faza: D.A.L.I.
PROIECTAT	Ing. Cozma Andrei			Plansa nr.
DESENAT	Ing. Serbanescu Silviu			2.15



52		
U[grd]	198.29	
Coord	Est	Nord
	443273.950	608635.114

54		
v[km/h]	40	L[m] 39.11
U[grd]	168.88	C[m] 0.00
R[m]	80.00	lcs[m] 25.00
B[m]	3.27	dv[m] 0.00
T[m]	39.67	sl[m] 1.10
ICZ	6.0	e[m] 0.00
Coord	Est	Nord
V	443513.286	608733.472
TI	443475.898	608720.169
B	443511.457	608736.195
Te	443540.011	608762.764

53		
v[km/h]	50	L[m] 0.00
U[grd]	195.20	C[m] 22.64
R[m]	300.00	lcs[m] 30.00
B[m]	0.21	dv[m] 0.00
T[m]	11.32	sl[m] 1.00
ICZ	2.5	e[m] 0.00
Coord	Est	Nord
V	443424.342	608701.816
TI	443413.990	608697.225
B	443424.421	608701.618
Te	443435.011	608705.614

VERIFICATOR				Referat nr.
VERIFICATOR/ EXPERT		SEMNTURA	CERINTA	REFERAT / EXPERTIZA NR. / DATA
S.C. STARCOM EXIM S.R.L. Cluj-Napoca, str. Locomotivei nr.4, tel/fax. 0264 433217				Beneficiar: U.A.T. JUDETUL BISTRITA-NASAUD
SPECIFICATIE				Proiect nr. 8/2015
SEF PROIECT	Ing. Cozma Andrei	SEMNTURA	Scara: 1:1000	Titlu proiect: MODERNIZARE DJ172E KM 0+000-7+000 STRUGURENI-MATEI
PROIECTAT	Ing. Cozma Andrei		Data: 2015	Faza: D.A.L.I.
DESENAT	Ing. Serbanescu Silviu			Titlu plansa: PLAN DE SITUATIE
				Plansa nr. 2.16



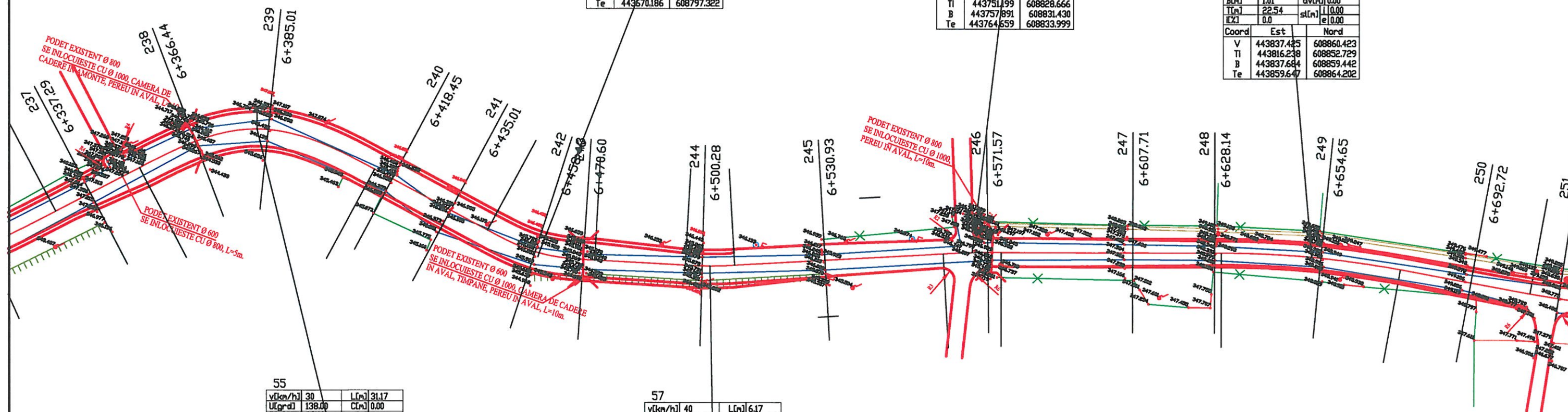
56			
v[km/h]	30	L[m]	13.99
U[grd]	172.16	C[m]	0.00
R[m]	32.00	lcs[m]	20.00
B[m]	1.04	dv[m]	60.00
T[m]	14.15	sl[m]	1.30
IC%	7.0	e	1.30
Coord	Est	Nord	
V	443656.643	608793.220	
TI	443642.638	608795.239	
B	443656.565	608794.258	
Te	443670.186	608797.322	

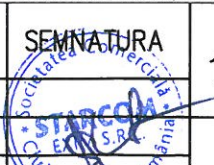
58			
v[km/h]	40	L[m]	0.00
U[grd]	196.31	C[m]	14.48
R[m]	250.00	lcs[m]	0.00
B[m]	0.10	dv[m]	0.00
T[m]	7.24	sl[m]	1.00
IC%	0.0	e	0.00
Coord	Est	Nord	
V	443757.852	608831.527	
TI	443751.99	608828.666	
B	443757.891	608831.430	
Te	443764.659	608833.999	

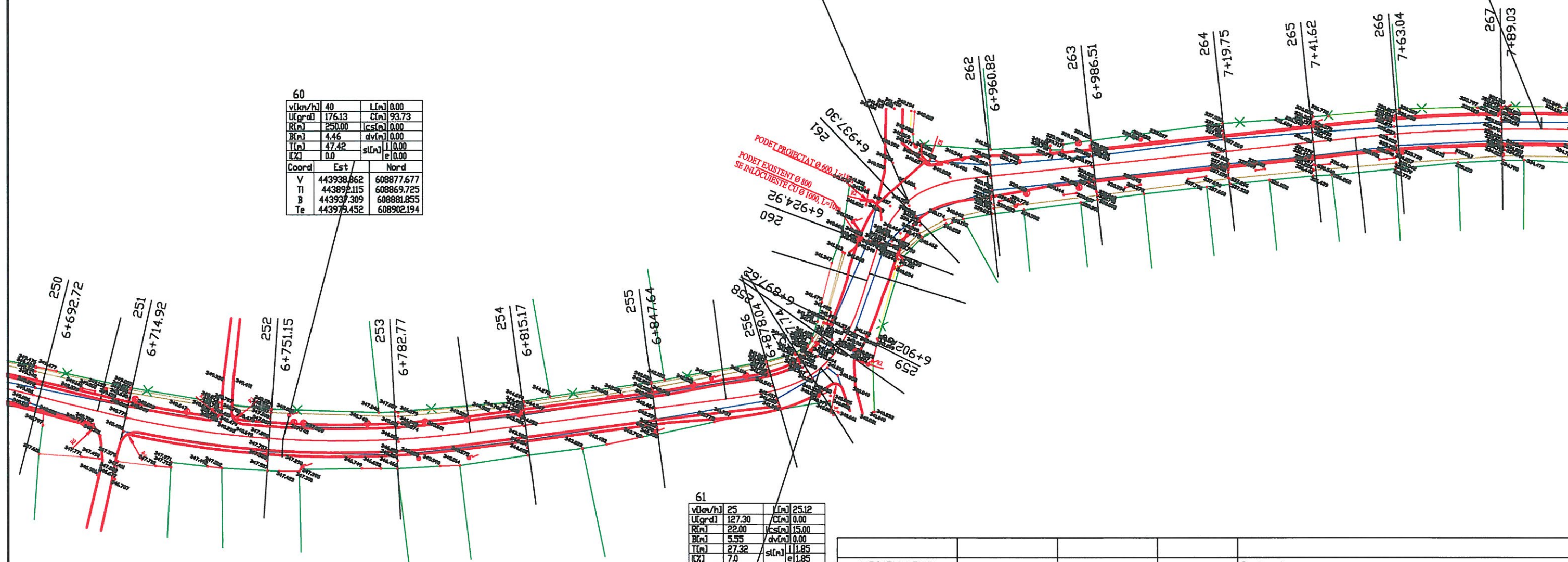
59			
v[km/h]	40	L[m]	0.00
U[grd]	188.55	C[m]	44.96
R[m]	250.00	lcs[m]	0.00
B[m]	1.01	dv[m]	0.00
T[m]	22.54	sl[m]	1.00
IC%	0.0	e	0.00
Coord	Est	Nord	
V	443837.425	608860.423	
TI	443816.238	608852.729	
B	443837.684	608859.442	
Te	443859.647	608864.202	

55			
v[km/h]	30	L[m]	31.17
U[grd]	138.00	C[m]	0.00
R[m]	32.00	lcs[m]	20.00
B[m]	5.63	dv[m]	0.00
T[m]	33.07	sl[m]	1.30
IC%	7.0	e	1.30
Coord	Est	Nord	
V	443578.148	608804.534	
TI	443555.851	608780.112	
B	443580.046	608799.235	
Te	443610.880	608799.816	

57			
v[km/h]	40	L[m]	6.17
U[grd]	192.86	C[m]	0.00
R[m]	55.00	lcs[m]	25.00
B[m]	0.12	dv[m]	0.00
T[m]	6.17	sl[m]	1.00
IC%	7.0	e	1.50
Coord	Est	Nord	
V	443697.726	608805.663	
TI	443691.818	608803.874	
B	443697.686	608805.772	
Te	443703.396	608808.102	



VERIFICATOR				Referat nr.	
VERIFICATOR/ EXPERT		SEMNATURA	CERINTA	REFERAT / EXPERTIZA NR. / DATA	
S.C. STARCOM EXIM S.R.L. Cluj-Napoca, str. Locomotivei nr.4, tel/fax. 0264 433217		   Nr. certificat : 2166 Nr. certificat : 1602 Nr. certificat : 1311 ISO 9001:2008 ISO 14001:2004 OHSAS 18001:2007		Beneficiar: U.A.T. JUDETUL BISTRITA-NASAUD	Proiect nr. 8/2015
SPECIFICATIE	NUME	SEMNATURA	Scara: 1:1000	Titlu proiect: MODERNIZARE DJ172E KM 0+000-7+000 STRUGURENI-MATEI	Faza: D.A.L.I.
SEF PROIECT	Ing. Cozma Andrei		Data: 2015	Titlu planşa:	Planşa nr. 2.17
PROIECTAT	Ing. Cozma Andrei			PLAN DE SITUATIE	
DESENAT	Ing. Serbanescu Silviu				



60		
v[km/h]	40	L[m] 0.00
U[grad]	176.13	C[m] 93.73
R[m]	250.00	lcs[m] 0.00
B[m]	4.46	dv[m] 0.00
T[m]	47.42	sl[m] 11.00
IC%	0.0	e 0.00
Coord	Est	Nord
V	443938.862	608877.677
TI	443892.115	608869.725
B	443937.309	608881.855
Te	443979.452	608902.194

62		
v[km/h]	20	L[m] 21.00
U[grad]	125.74	C[m] 0.00
R[m]	18.00	lcs[m] 15.00
B[m]	4.77	dv[m] 0.00
T[m]	22.92	sl[m] 12.20
IC%	5.5	e 2.20
Coord	Est	Nord
V	444051.921	609001.317
TI	444054.541	608978.544
B	444056.180	608999.161
Te	444071.827	609012.684

63		
v[km/h]	50	L[m] 0.00
U[grad]	185.16	C[m] 93.24
R[m]	400.00	lcs[m] 0.00
B[m]	2.73	dv[m] 0.00
T[m]	46.83	sl[m] 11.00
IC%	0.0	e 0.00
Coord	Est	Nord
V	444192.865	609081.799
TI	444152.198	609058.577
B	444193.935	609079.286
Te	444237.797	609095.000

61		
v[km/h]	25	L[m] 25.12
U[grad]	127.30	C[m] 0.00
R[m]	22.00	lcs[m] 15.00
B[m]	5.55	dv[m] 0.00
T[m]	27.32	sl[m] 11.85
IC%	7.0	e 1.85
Coord	Est	Nord
V	444057.876	608949.565
TI	444034.493	608935.441
B	444052.892	608952.012
Te	444054.753	608976.703

VERIFICATOR		Referat nr.	
VERIFICATOR/ EXPERT		SEMNAURA	CERINTA
S.C. STARCOM EXIM S.R.L. Cluj-Napoca, str. Locomotivei nr.4, tel/fax. 0264 433217		Beneficiar: U.A.T. JUDETUL BISTRITA-NASAUD	
SPECIFICATIE		NUME	Scara: 1:1000
SEF PROIECT		Ing. Cozma Andrei	Titlu proiect: MODERNIZARE DJ172E KM 0+000-7+000 STRUGURENI-MATEI
PROIECTAT		Ing. Cozma Andrei	Titlu plansa: PLAN DE SITUATIE
DESENAT		Ing. Serbanescu Silviu	Plansa nr. 2.18

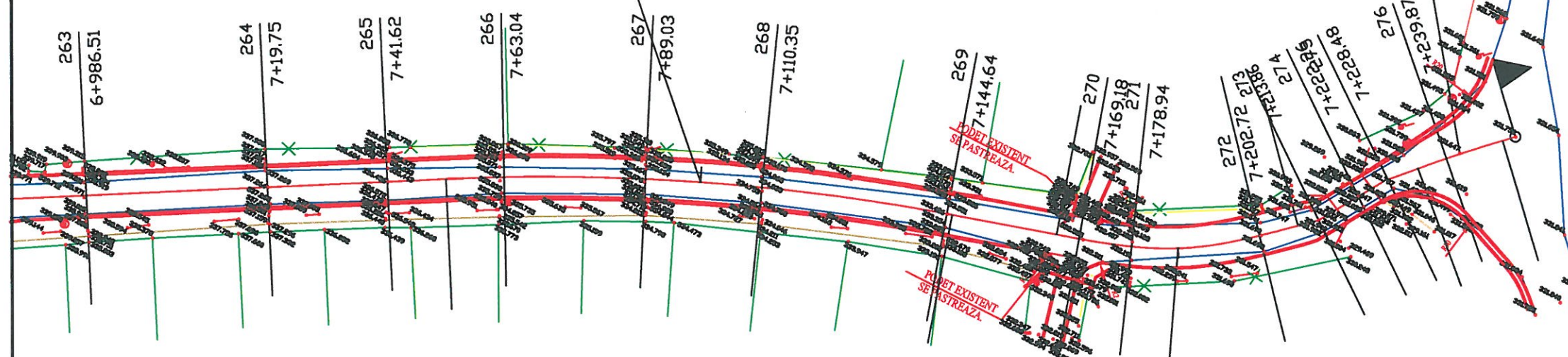


63

v[km/h]	50	L[m]	0.00
U[grad]	185.16	C[m]	93.24
R[m]	400.00	lcs[m]	0.00
B[m]	2.73	dv[m]	0.00
T[m]	46.83	sl[m]	0.00
IC%	0.0	e[m]	0.00
Coord	Est	Nord	
V	444192.863	609081.799	
TI	444152.198	609058.577	
B	444193.935	609079.286	
Te	444237.797	609095.000	

65

v[km/h]	40	L[m]	0.00
U[grad]	195.83	C[m]	16.38
R[m]	250.00	lcs[m]	0.00
B[m]	0.13	dv[m]	0.00
T[m]	8.19	sl[m]	0.00
IC%	0.0	e[m]	0.00
Coord	Est	Nord	
V	444315.340	609147.566	
TI	444309.790	609141.537	
B	444315.436	609147.472	
Te	444321.273	609153.219	



64

v[km/h]	25	L[m]	22.50
U[grad]	171.36	C[m]	0.00
R[m]	50.00	lcs[m]	15.00
B[m]	1.72	dv[m]	0.00
T[m]	22.77	sl[m]	1.00
IC%	4.5	e[m]	0.60
Coord	Est	Nord	
V	444278.232	609106.879	
TI	444256.387	609100.461	
B	444277.389	609108.383	
Te	444295.111	609122.159	

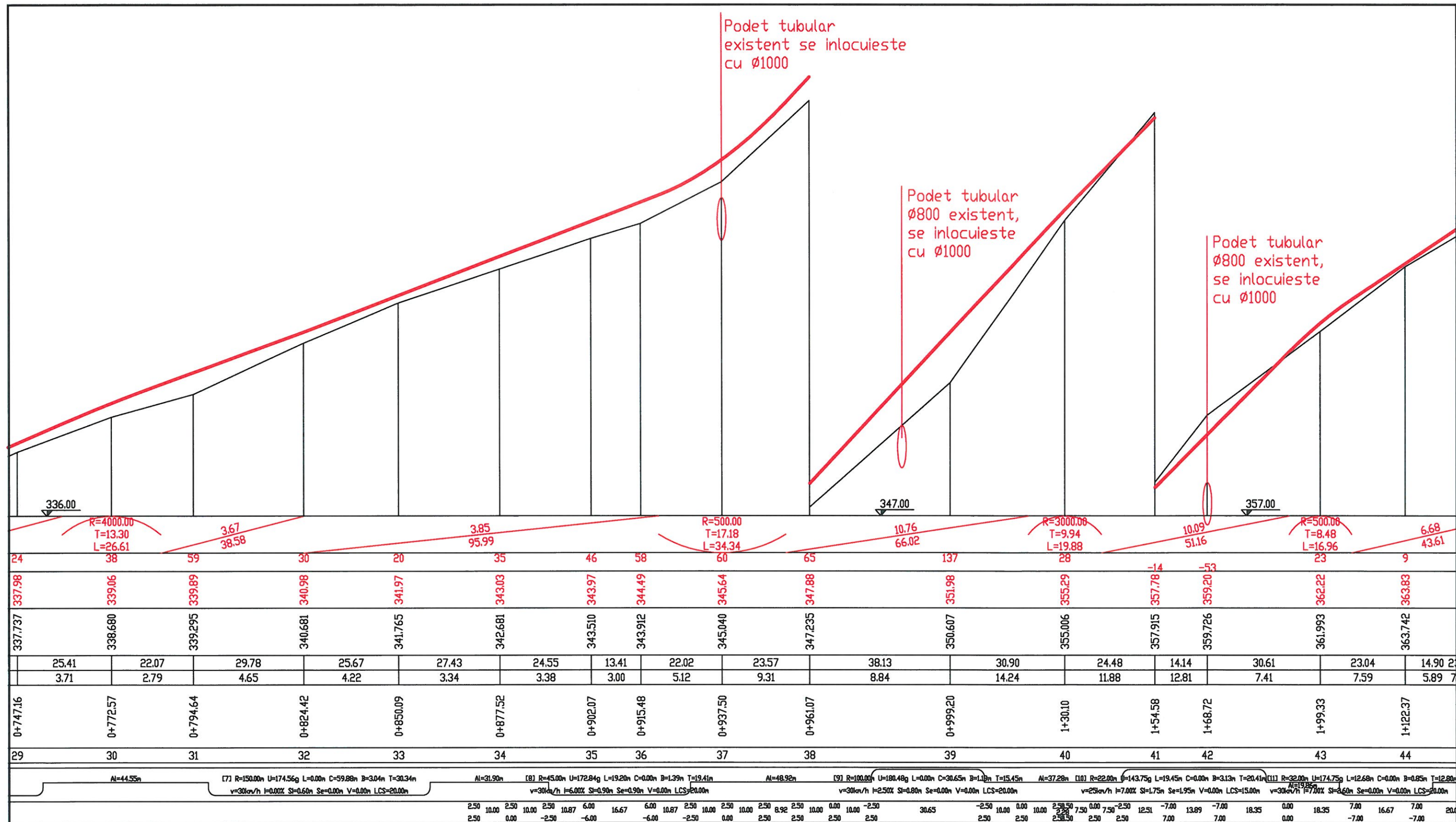
VERIFICATOR				Referat nr.
VERIFICATOR/ EXPERT		SEMNAURA	CERINTA	REFERAT / EXPERTIZA NR. / DATA
S.C. STARCOM EXIM S.R.L. Cluj-Napoca, str. Locomotivei nr.4, tel/fax. 0264 433217			  	Beneficiar: U.A.T. JUDETUL BISTRITA-NASAUD
SPECIFICATIE	NUME	SEMNAURA	Scara: 1:1000	Proiect nr. 8/2015
SEF PROIECT	Ing. Cozma Andrei			Faza: D.A.L.I.
PROIECTAT	Ing. Cozma Andrei		Data: 2015	Titlu planşa: PLAN DE SITUATIE
DESENAT	Ing. Serbanescu Silviu			Planşa nr. 2.19

1:100

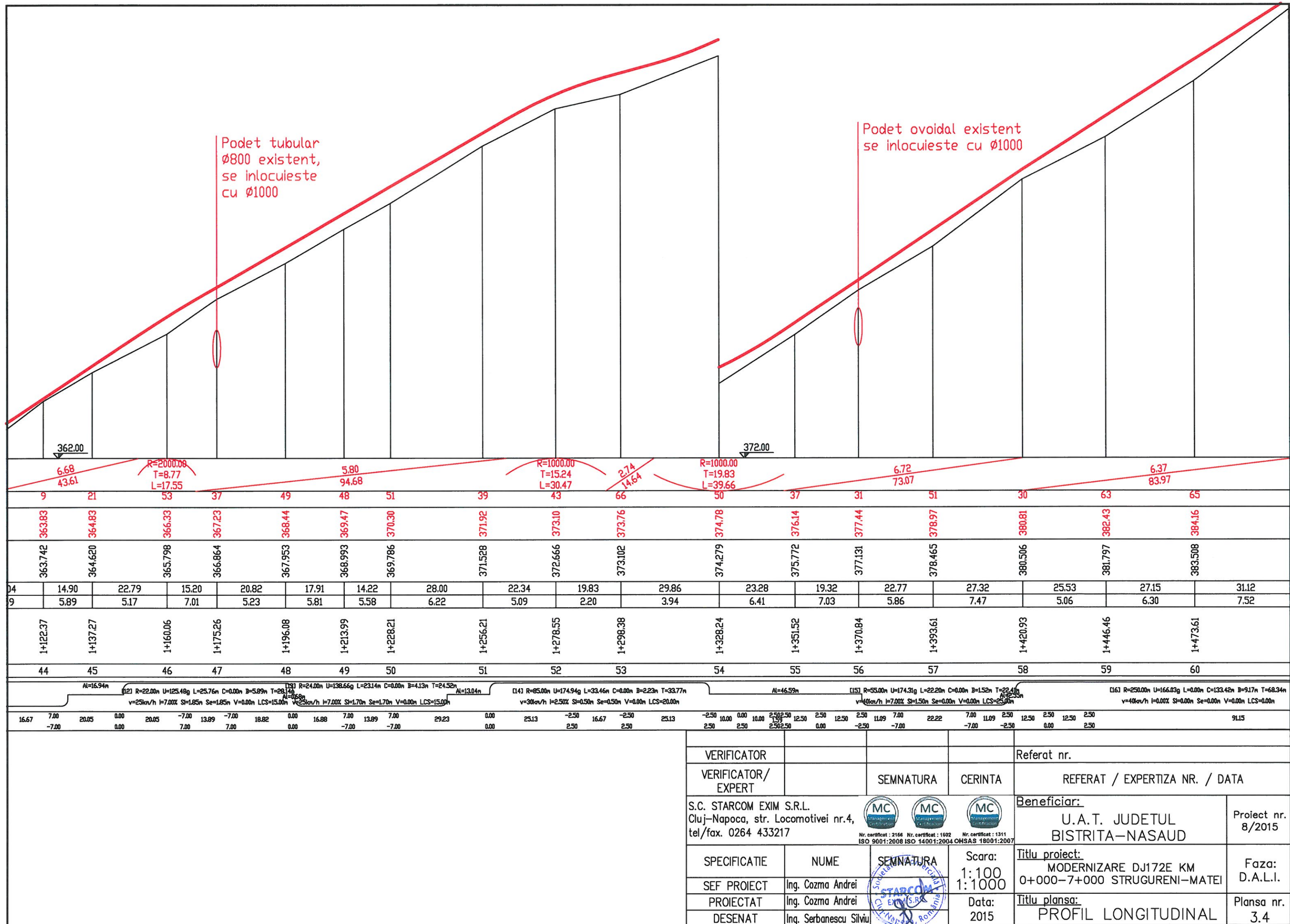
327.00

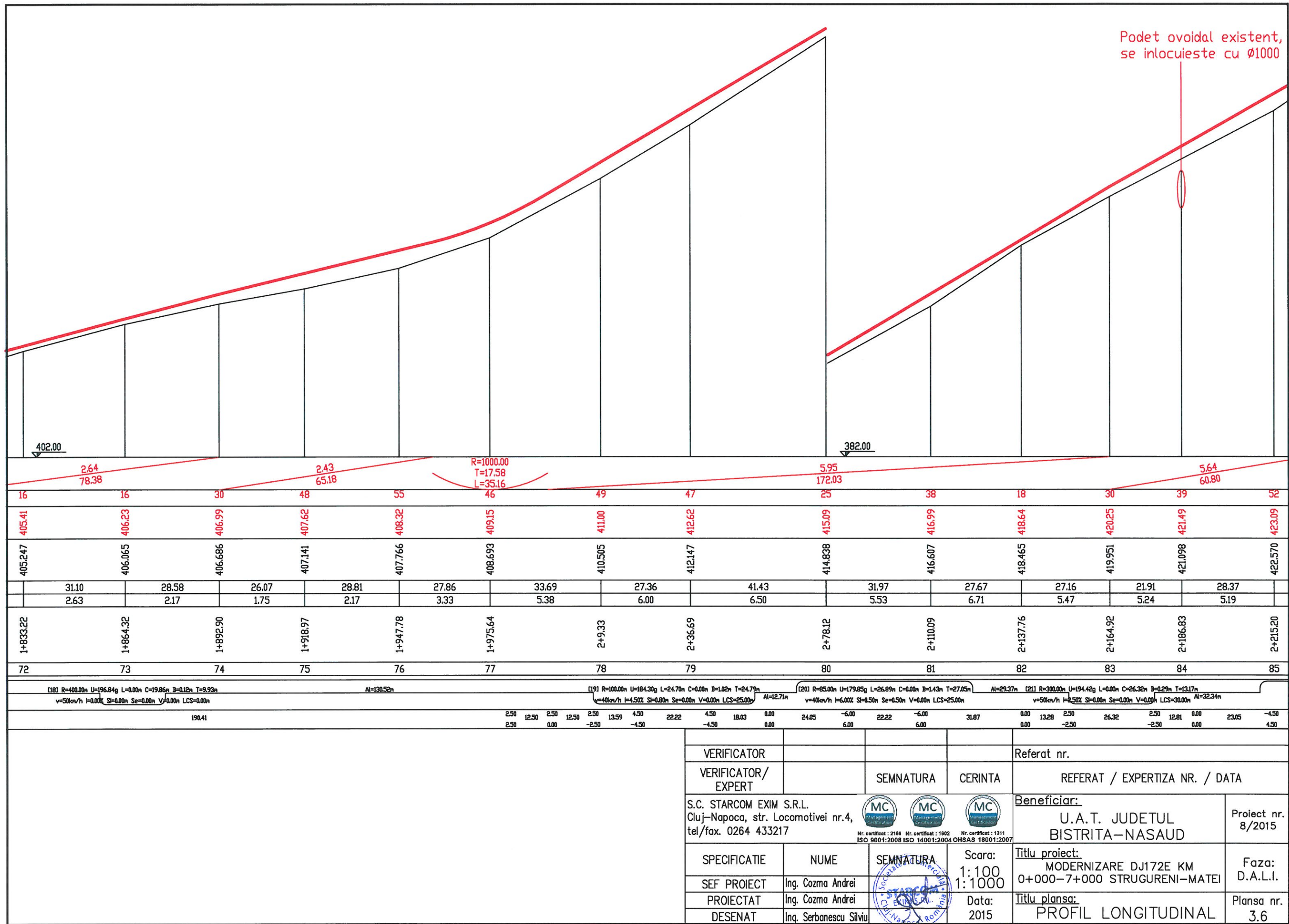
DECLIVITATI	0.97 54.13															0.52 175.30															0.71 142.54																																																																																																																																																																																																																																																																																																																																																																																																					
DIFERENTE IN AX	17															34															23															27															40															43															44															45															47																																																																																																																																																																																																																																																																																																											
COTE PROIECT	327.03															327.28															327.44															327.55															327.79															327.92															328.04															328.16															328.30															328.46															328.72															328.96															329.03															329.14																																																																																																																																																																																																																																
COTE TEREN	327.027															327.113															327.406															327.250															327.455															327.666															327.814															327.906															328.025															328.057															328.290															328.520															328.579															328.667																																																																																																																																																																																																																																
DISTANTE PARTIALE	25.92															17.04															11.17															47.11															24.76															22.49															24.49															25.19															31.26															37.82															32.90															10.44															15.99																																																																																																																																																																																																																																															
	0.33															1.72															-1.40															0.44															0.85															0.66															0.38															0.47															0.10															0.62															0.70															0.57															0.55																																																																																																																																																																																																																																															
DISTANTE CUMULATE	0+13.37															0+39.29															0+56.33															0+67.50															0+114.61															0+139.37															0+161.86															0+186.35															0+211.54															0+242.80															0+280.62															0+313.52															0+323.96															0+339.95																																																																																																																																																																																																																																
PICHETI	1															2															3															4															5															6															7															8															9															10															11															12															13															14																																																																																																																																																																																																																																
ALINIAMENTE SI CURBE	Al=29.42m															[1] R=80.00m U=172.91g L=34.04m C=0.00m B=2.46m T=34.40m v=40km/h f=6.00% St=1.10m Se=0.00m V=0.00m LCS=25.00m															Al=116.90m															[2] R=115.00m U=190.67g L=16.89m C=0.00m B=0.41m T=16.91m v=60km/h f=7.00% St=0.70m Se=0.00m V=0.00m LCS=40.00m															Al=40.16m															[3] R=32.00m U=133.75g L=33.30m C=0.00m B=6.53m T=35.65m v=30km/h f=7.00% St=2.00m Se=0.60m V=0.00m LCS=20.00m																																																																																																																																																																																																																																																																																																																																																								
PANTE TRANSV.	4.50 2.50															12.50 2.50															0.00 2.50															12.50 2.50															-2.50 2.50															22.93 6.00															-6.00 6.00															22.22 6.00															-6.00 6.00															22.93 6.00															-2.50 2.50															12.50 2.50															0.00 2.50															12.50 2.50															2.50 2.50															51.90															2.50 2.50															20.00 0.00															2.50 0.00															20.00															2.50 -7.00															33.33															7.00 -7.00															65.35															7.00 -7.00															16.67															7.00 -7.00															24.97														

VERIFICATOR				Referat nr.
VERIFICATOR/EXPERT		SEMNAURA	CERINTA	REFERAT / EXPERTIZA NR. / DATA
S.C. STARCOM EXIM S.R.L. Cluj-Napoca, str. Locomotivei nr.4, tel/fax. 0264 433217			  	Beneficiar: U.A.T. JUDETUL BISTRITA-NASAUD
SPECIFICATIE	NUME	SEMNAURA	Scara: 1:100 1:1000	Titlu proiect: MODERNIZARE DJ172E KM 0+000-7+000 STRUGURENI-MATEI
SEF PROIECT	Ing. Cozma Andrei			Faza: D.A.L.I.
PROIECTAT	Ing. Cozma Andrei		Data: 2015	Plansa nr. 3.1
DESENAT	Ing. Serbanescu Silviu			

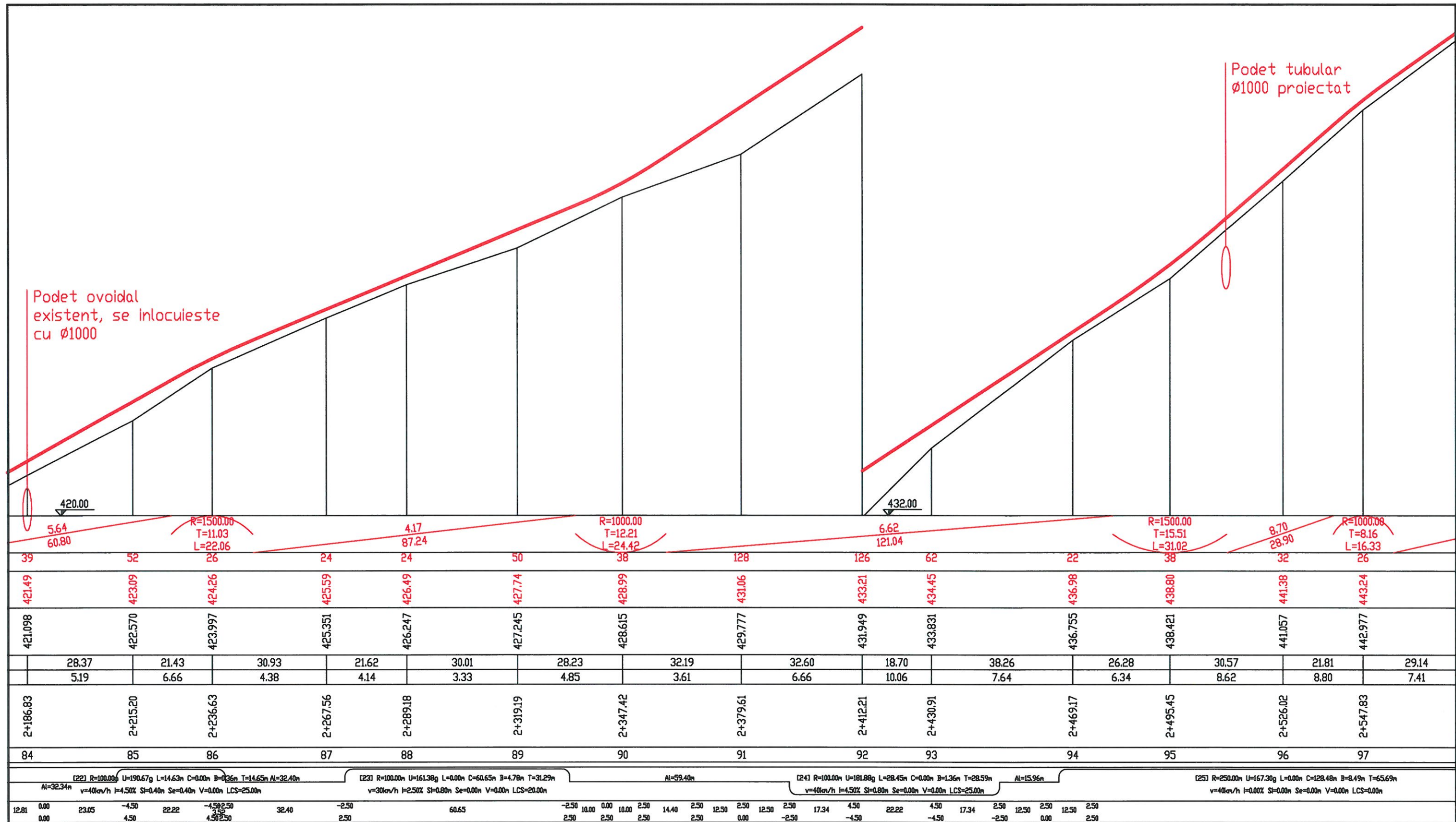


VERIFICATOR				Referat nr.
VERIFICATOR/ EXPERT		SEMNTURA	CERINTA	REFERAT / EXPERTIZA NR. / DATA
S.C. STARCOM EXIM S.R.L. Cluj-Napoca, str. Locomotivei nr.4, tel/fax. 0264 433217			Beneficiar: U.A.T. JUDETUL BISTRITA-NASAUD	
SPECIFICATIE			NUME	Scara: 1:100 1:1000
SEF PROIECT			Ing. Cozma Andrei	Titlu proiect: MODERNIZARE DJ172E KM 0+000-7+000 STRUGURENI-MATEI
PROIECTAT			Ing. Cozma Andrei	Titlu plansa: PROFIL LONGITUDINAL
DESENAT			Ing. Serbanescu Silviu	Faza: D.A.L.I. Plansa nr. 3.3





VERIFICATOR				Referat nr.
VERIFICATOR/ EXPERT		SEMNATURA	CERINTA	REFERAT / EXPERTIZA NR. / DATA
S.C. STARCOM EXIM S.R.L. Cluj-Napoca, str. Locomotivei nr.4, tel/fax. 0264 433217			Beneficiar: U.A.T. JUDETUL BISTRITA-NASAUD	
SPECIFICATIE			NUME	Scara: 1:100 1:1000
SEF PROIECT			Ing. Cozma Andrei	
PROIECTAT			Ing. Cozma Andrei	
DESENAT			Ing. Serbanescu Silviu	
				Proiect nr. 8/2015
				Faza: D.A.L.I.
				Plansa nr. 3.6



										VERIFICATOR						Referat nr.					
										VERIFICATOR/ EXPERT				SEMNATURA		CERINTA		REFERAT / EXPERTIZA NR. / DATA			
S.C. STARCOM EXIM S.R.L. Cluj-Napoca, str. Locomotivei nr.4, tel/fax. 0264 433217																Beneficiar: U.A.T. JUDETUL BISTRITA-NASAUD		Proiect nr. 8/2015			
										SPECIFICATIE		NUME		SEMNATURA		Scara: 1:100 1:1000		Titlu proiect: MODERNIZARE DJ172E KM 0+000-7+000 STRUGURENI-MATEI		Faza: D.A.L.I.	
										SEF PROIECT		Ing. Cozma Andrei									
										PROIECTAT		Ing. Cozma Andrei				Data: 2015		Titlu plansa: PROFIL LONGITUDINAL		Plansa nr. 3.7	
										DESENAT		Ing. Serbanescu Silviu									