

STUDIU TOPOGRAFIC
NECESAR INTOCMIRII DOCUMENTATIEI DE

„SERVICII DE EXPERTIZA TEHNICA PE DN 28G KM
17+674 – 19+695”

DATA: 10.2025

BENEFICIAR: C.N.A.I.R PRIN D.R.D.P. IASI
EXECUTANT: PJA ROYAL CDV G2 SRL



Adresa: Extravilan UAT Golaiesti, jud. Iasi

2025

BORDEROU DE PIESE

1. Piese scrise:

- Borderou de piese;
- Date generale despre amplasament;
- Memoriu tehnic;
- Inventar de coordonate.

2. Piese desenate:

- Plan topografic la scara 1: 500.

DATE GENERALE DESPRE AMPLASAMENT

1. Beneficiarul lucrării este: C.N.A.I.R. prin D.R.D.P. Iasi.
2. Amplasamentul drumului DN 28G este situat in judetul Iasi si strabate UAT Golaiesti.
Trapeze: L-35-32-A-b-4-III, L-35-32-A-d-2-II.
3. Operatiuni topografice: Ridicari topografice in Sistem STEREO 70 si cote in sistem Marea Neagra.

MEMORIU TEHNIC

I. Generalitati

1.Fondul topografic existent

Planuri existente: In zona amplasamentului exista planuri la scara 1: 5000, ortofotoplanuri si schite puse la dispozitie de catre beneficiar.

2.Date despre amplasament

DN 28G km 17+674 – 19+695 este situat in extravilanul comunei Golaiesti, judetul Iasi, iar terenul are o geometrie a reliefului relativ inclinata.

II. Lucrari topografice

Lucrarile topografice au cuprins mai multe etape:

1. Faza de teren care cuprinde:

Recunoasterea terenului de masurat;

Ridicarea in plan a detaliilor.

2. Faza de birou care cuprinde:

Calcul topografice;

Cartografierea planurilor.

1. Faza de teren

Recunoasterea terenului de masurat

Realizarea obiectivului a fost efectuata impreuna cu beneficiarul si a constat in identificarea terenului si identificarea punctelor din reseaua geodezica din zona.

Ridicarea in plan a detaliilor

Ridicarea in plan a detaliilor a fost efectuata cu GPS UNISTRONG G970II.

Din categoria punctelor de detaliu au facut parte:

- marginea si axul drumului;
- limite de proprietate;
- stalpi electrici;
- camine canal;
- podete;
- santuri;
- indicatoare auto;
- alte elemente identificate in teren.

Ridicarea s-a executat in sistemul de coordonate STEREO 70, iar cotele s-au determinat in sistemul de cote Marea Neagra.

Lucrarea se incadreaza in tolerantele admise.

2. Faza de birou

Calcul topografice;

Suprafetele rezultate din masuratori s-au calculat analitic, din coordonate. Detaliile au fost transpuse pe plan prin semne conventionale, relieful terenului fiind reprezentat prin metoda planului cotat.

Cartografierea planurilor

Semnele conventionale folosite la intocmirea foi de plan sunt identificate cu cele din Normativul de conditii tehnice de executare si receptie a lucrarilor geodezice-topografice pentru intocmirea planurilor topografice C110/69.

III. Metode si aparatura folosite la masuratori:

Operatiuni topo-cadastrale efectuate: Lucrarea a fost executata cu ajutorul unui GPS UNISTRONG G970II, prin utilizarea în timp real a corecțiilor diferențiale de la serviciul specializat ROMPOS, modul de lucru RTK. Transcalcul, de coordonate din sistem geocentric (B,L,h) în sistemul national de referinta (X,Y,Z), s-a realizat utilizand softul, implementat în carnetul de teren, "Carlson Surv CE".

- **Sistemul de coordonate:** Stereografic 1970.

- **Sistemul de cote:** Marea Neagra.

- **Precizii obtinute:**

Utilizand GPS UNISTRONG 970GII:

- Acuratetea de pozitionare pe orizontala = $1\text{cm} \pm 1\text{ppm (RMS)}$
- Acuratetea de pozitionare pe verticala = $2\text{cm} \pm 1\text{ppm (RMS)}$

Metodele folosite asigura precizia necesara si se incadreaza în normele A.N.C.P.I..

La exploatarea detaliilor s-a avut în vedere sa se asigure o densitate optima de puncte cotate care sa redea cat mai corect forma terenului impusa de cerintele beneficiarului.

Situatia juridica a imobilului în Cartea Funciara este:

Imobilul face parte din administrarea C.N.A.I.R. si este situat în extravilanul comunei Golaiesti, judetul Iasi, zona fiind intabulat.

Planul topografic este necesar întocmirii documentatiei „SERVICII DE EXPERTIZA TEHNICA PE DN 28G KM 17+674 – 19+695”



Intocmit,
SC ROYAL CDV G2 SRL

Numar Punct	X [m]	Y [m]	Z [m]
1	642427.0100	706046.0180	38.4400
2	642424.7360	706045.1080	38.3200
3	642430.2950	706047.6210	38.5400
4	642429.4270	706047.2500	38.5400
5	642423.7540	706044.6480	38.2000
6	642428.4280	706027.7830	38.3900
7	642429.0740	706027.9850	38.1700
8	642421.9710	706044.0260	38.0700
9	642427.4250	706027.7470	38.2800
10	642420.2570	706060.1580	38.4100
11	642422.5100	706061.1660	38.5000
12	642417.4270	706058.6110	38.2500
13	642418.2270	706058.9910	38.3200
14	642423.5040	706061.5210	38.4800
15	642432.4210	706049.3830	37.9300
16	642431.7000	706048.3360	37.9400
17	642424.3650	706061.7330	38.1000
18	642425.8120	706062.6890	37.7400
19	642441.7770	706010.6190	38.8800
20	642439.5650	706010.0180	38.9200
21	642443.4960	706011.5500	38.6500
22	642442.8140	706011.1470	38.8400
23	642437.1240	706009.2990	38.8100
24	642434.2370	706008.5190	38.5200
25	642439.4320	705988.2930	38.8400
26	642435.9040	706008.8990	38.6900
27	642435.5570	706008.7830	38.4500
28	642432.8220	706028.9670	38.6800
29	642435.3350	706029.8720	38.7100
30	642430.0140	706028.3060	38.5200
31	642430.7740	706028.4630	38.5900
32	642436.4660	706030.1710	38.6900
33	642444.6130	706011.5390	38.0500
34	642444.2230	706011.4350	38.2400
35	642437.0550	706030.4270	38.4000
36	642437.7620	706030.9190	37.9300
37	642393.1990	706095.7050	38.2300
38	642392.8460	706095.2770	38.0300
39	642396.3510	706097.7500	38.4600
40	642394.2350	706096.2350	38.3100
41	642392.4810	706094.6390	38.2600
42	642400.3740	706083.5730	38.3300
43	642401.0420	706083.9610	38.0500
44	642391.6670	706093.7110	38.0800
45	642399.6970	706083.4290	37.9300
46	642390.0400	706110.2360	38.5600
47	642390.4340	706110.6030	38.1500
48	642386.9820	706108.0670	38.4500
49	642388.9030	706109.4040	38.5000
50	642391.3920	706111.4560	38.0100
51	642398.6520	706099.9930	38.5100
52	642398.0120	706099.4000	38.5400
53	642399.4880	706100.4930	38.2900
54	642399.0750	706100.3680	38.3000
55	642412.5800	706074.9000	38.4300
56	642410.2190	706073.2810	38.3200
57	642415.3940	706076.8920	38.6100
58	642414.3570	706076.2130	38.5700
59	642409.3750	706072.7120	38.1900
60	642415.8010	706058.1280	37.9400
61	642416.9500	706058.3290	38.0300
62	642408.9190	706072.5700	38.1200
63	642407.8720	706071.8190	37.9900
64	642404.1820	706085.8530	38.4300
65	642406.6060	706087.0750	38.5700
66	642401.6960	706084.4030	38.2900
67	642402.2980	706084.7600	38.3200
68	642407.7410	706087.8060	38.6100
69	642416.3320	706077.3790	38.2100
70	642415.9830	706077.1870	38.2400
71	642408.2510	706088.1910	38.2900
72	642409.6560	706089.1310	37.8800
73	642440.3640	705988.0310	39.0900
74	642467.8880	705888.6780	38.9900
75	642469.3360	705889.0210	38.9800
76	642462.4880	705907.8850	38.7200
77	642466.3140	705888.2670	38.6900
78	642470.3900	705889.2480	39.3500

79	642475.0690	705890.6270	39.4200
80	642476.2620	705891.1880	39.4500
81	642471.1180	705889.3930	39.4100
82	642472.7000	705889.8660	39.4100
83	642472.5070	705911.4390	39.0100
84	642471.1400	705910.7110	39.3700
85	642467.7170	705930.3090	38.8800
86	642474.6580	705912.2370	38.7900
87	642470.0470	705910.3100	39.4700
88	642465.3750	705908.7250	39.3500
89	642464.3030	705908.5290	39.0000
90	642468.1230	705909.7940	39.5200
91	642466.0070	705909.0250	39.3900
92	642476.6570	705865.4810	38.9900
93	642475.9170	705865.2250	39.1700
94	642478.1920	705865.9780	39.3600
95	642477.3170	705865.7590	39.3000
96	642473.7200	705864.7660	38.9500
97	642482.0120	705844.3530	38.8700
98	642483.0280	705844.5450	39.1600
99	642479.0080	705844.2800	39.0500
100	642480.5970	705844.2890	39.1200
101	642480.5140	705892.6570	38.8900
102	642486.2190	705868.6170	38.8300
103	642476.8040	705891.3430	39.0600
104	642478.0030	705891.7580	39.0300
105	642485.5170	705868.3870	39.1400
106	642482.2840	705867.3180	39.4500
107	642480.4850	705866.6260	39.4100
108	642484.5280	705868.0330	38.9700
109	642483.3080	705867.7810	39.4100
110	642453.1170	705972.5080	39.3800
111	642452.0350	705972.1340	39.4700
112	642454.4160	705973.0940	39.1200
113	642453.8130	705972.9450	38.9200
114	642450.0730	705971.4790	39.5000
115	642446.0840	705970.1920	38.8900
116	642445.0310	705970.0100	38.7500
117	642447.8100	705970.7290	39.3800
118	642446.8740	705970.5020	39.2500
119	642442.8290	705988.6540	39.2100
120	642444.6490	705989.0780	39.2600
121	642440.9400	705988.1110	38.7600
122	642442.3450	705988.6360	39.1400
123	642446.7160	705989.5960	39.2000
124	642450.4480	705990.4400	38.4700
125	642455.2350	705973.2070	38.7700
126	642448.2830	705989.8610	39.2100
127	642449.1360	705989.9880	38.8700
128	642458.0280	705927.6830	39.0500
129	642458.7920	705927.6090	39.2900
130	642449.9690	705951.0260	38.6900
131	642457.2480	705927.4510	38.9000
132	642459.8990	705928.0400	39.4500
133	642465.2260	705929.5080	39.4400
134	642466.1480	705929.7510	39.0100
135	642462.0970	705928.8250	39.5300
136	642464.1120	705929.3650	39.4900
137	642458.9580	705954.3700	38.9700
138	642458.0490	705953.9600	39.4300
139	642461.3230	705954.7930	38.8200
140	642459.8200	705954.5530	39.0400
141	642457.0880	705953.5750	39.4800
142	642452.3060	705951.7100	39.3800
143	642451.6700	705951.4610	38.9800
144	642455.3010	705952.9050	39.5000
145	642453.4140	705952.0070	39.4000
146	642385.7260	706106.7510	38.3700
147	642240.4150	706205.4180	38.9100
148	642239.9910	706204.4450	38.8800
149	642242.0210	706209.5640	38.9200
150	642241.4420	706207.6900	38.9400
151	642239.7770	706203.8270	38.5000
152	642259.7560	706195.8090	38.6000
153	642259.9570	706196.3080	38.9600
154	642239.3370	706202.3900	38.6400
155	642259.5170	706195.4120	38.5300
156	642219.2870	706236.0900	37.7500
157	642217.9660	706235.5880	37.7500
158	642222.6620	706235.5880	37.7500

159	642220.6470	706236.7530	37.8100
160	642215.9270	706234.7410	37.5600
161	642242.6080	706211.1990	38.5700
162	642242.2100	706210.4400	38.8900
163	642243.3250	706212.4730	38.8700
164	642242.9030	706212.0190	38.8600
165	642277.5600	706190.4420	38.9300
166	642277.2030	706189.4930	38.9100
167	642279.1260	706194.6250	39.1200
168	642278.4320	706192.5610	39.0800
169	642276.8190	706188.8820	38.5300
170	642289.5670	706182.4190	38.5500
171	642289.8500	706182.9610	38.8900
172	642276.6330	706187.5400	38.5100
173	642288.8040	706181.5150	38.4700
174	642261.9350	706201.2040	38.9800
175	642262.4310	706202.2530	38.9700
176	642260.1580	706196.9900	38.9800
177	642260.9370	706198.6840	39.0000
178	642262.6290	706202.9350	38.5500
179	642279.7180	706195.8940	38.8100
180	642279.3960	706195.3260	39.1400
181	642262.6430	706203.3430	38.5300
182	642279.9170	706196.2810	38.6900
183	642221.5830	706210.2410	38.2700
184	642225.6830	706210.0720	38.6100
185	642223.0470	706211.6270	38.6600
186	642222.6290	706210.8620	38.2100
187	642226.8090	706212.9790	38.8200
188	642230.6630	706203.0460	38.4900
189	642232.8750	706202.8400	38.5600
190	642229.9040	706209.0940	38.7000
191	642231.7140	706206.1250	38.4200
192	642202.3010	706231.7570	37.9900
193	642201.8120	706230.9840	38.5600
194	642185.5920	706242.2700	38.0100
195	642202.9860	706232.2370	37.4500
196	642201.2180	706229.7420	38.6500
197	642198.6060	706225.1230	38.6000
198	642198.1620	706223.4450	37.8300
199	642200.3460	706228.2800	38.6700
200	642199.3080	706226.3230	38.6400
201	642221.1510	706220.2070	38.6000
202	642220.2220	706221.6120	38.1200
203	642227.4090	706217.2290	38.7300
204	642225.0960	706218.1740	38.6900
205	642218.9570	706227.0260	37.7800
206	642224.3000	706228.8620	38.0800
207	642226.6100	706229.9440	38.1400
208	642220.3590	706227.3870	37.9100
209	642221.9250	706227.9980	38.0500
210	642222.3840	706201.5060	38.0800
211	642227.3090	706191.0890	38.4100
212	642228.6500	706202.5420	38.4400
213	642225.9000	706202.2280	38.3400
214	642229.1700	706191.8210	38.3800
215	642235.2240	706194.3390	38.6100
216	642228.8930	706216.9960	38.4200
217	642230.8330	706192.8010	38.4500
218	642232.7840	706193.5770	38.5400
219	642290.5860	706183.9190	38.9800
220	642348.8500	706140.4530	38.8300
221	642348.5560	706139.9620	38.4900
222	642351.2340	706143.4240	38.9700
223	642349.6760	706141.4270	38.9000
224	642348.1840	706139.5520	38.5000
225	642361.5860	706129.1360	38.5400
226	642362.3690	706129.7240	38.6300
227	642360.6850	706128.6060	38.4900
228	642361.0850	706128.8160	38.2600
229	642343.5250	706153.7240	39.1600
230	642343.9160	706154.3570	38.7600
231	642340.6100	706150.8040	39.0200
232	642342.6470	706152.7180	39.0500
233	642344.2890	706154.7670	38.8700
234	642353.2350	706145.2500	39.0700
235	642352.7790	706144.8080	39.0700
236	642353.8310	706146.0380	38.7100
237	642353.6520	706145.6870	38.8000
238	642372.4140	706119.3890	38.4100

239	642371.7510	706118.6270	37.9000
240	642374.8620	706122.0810	38.6200
241	642373.0630	706120.2060	38.4900
242	642371.1830	706117.6090	38.2800
243	642384.3090	706105.3420	37.9700
244	642384.9190	706106.0090	38.3000
245	642383.1720	706104.3090	38.1800
246	642384.0100	706105.1060	38.2300
247	642366.4690	706133.8810	38.8100
248	642367.0790	706134.3390	38.4700
249	642363.6080	706130.8470	38.6500
250	642365.5170	706132.8500	38.7700
251	642367.4680	706134.7800	38.6500
252	642376.9640	706124.4250	38.6700
253	642376.1760	706123.7420	38.6900
254	642377.8600	706125.4130	38.1600
255	642377.5190	706125.0390	38.2900
256	642304.1730	706175.3700	38.8900
257	642304.0500	706174.7800	38.5600
258	642305.4900	706178.5340	39.1000
259	642304.3750	706176.1650	38.9200
260	642303.9110	706174.2760	38.5300
261	642315.5300	706167.4920	38.9300
262	642315.9540	706167.8830	38.9700
263	642314.7790	706166.7270	38.5000
264	642315.1240	706167.0450	38.6000
265	642293.7330	706188.8560	39.2000
266	642293.9630	706189.4850	38.8600
267	642291.1810	706185.1490	39.0100
268	642292.9300	706187.6810	39.1700
269	642294.2950	706190.0250	38.8700
270	642306.9020	706181.4080	39.2300
271	642306.3640	706180.5110	39.1800
272	642307.5120	706182.2590	38.8200
273	642307.2300	706181.8570	38.9200
274	642326.1130	706159.2270	38.9000
275	642325.6900	706158.8370	38.4900
276	642328.5170	706161.9700	39.1000
277	642326.7820	706159.9340	38.9600
278	642325.3600	706158.3940	38.5500
279	642338.8400	706148.7700	38.8900
280	642339.3960	706149.2120	38.9400
281	642338.1070	706148.0500	38.5300
282	642338.4570	706148.3920	38.5100
283	642319.8610	706172.3140	39.2300
284	642320.2640	706172.9010	38.7400
285	642317.1840	706169.4290	39.0900
286	642318.9600	706171.3720	39.2200
287	642320.5740	706173.2300	38.7800
288	642330.3080	706164.6160	39.2200
289	642329.7330	706163.9300	39.2100
290	642331.4410	706165.5000	39.0200
291	642330.9270	706165.0980	38.9200
292	642634.8210	705411.4960	39.4100
293	642635.3460	705411.7550	38.8700
294	642630.7070	705423.7000	38.0900
295	642634.2600	705411.3920	39.4000
296	642635.7250	705412.1020	38.5300
297	642628.7020	705409.4000	39.3400
298	642628.2210	705409.0540	38.9700
299	642631.8860	705410.6510	39.3900
300	642629.2880	705409.7130	39.3400
301	642623.3190	705420.8580	38.4900
302	642623.5630	705420.9760	38.7100
303	642613.0740	705437.9100	37.9800
304	642622.7130	705420.5960	38.0600
305	642623.9190	705421.0360	38.7200
306	642629.6650	705423.1560	38.7600
307	642630.2340	705423.3730	38.3900
308	642626.0260	705421.7900	38.7900
309	642628.8390	705423.0170	38.7900
310	642647.2690	705389.6580	40.3300
311	642648.9460	705391.0220	40.0800
312	642642.0260	705398.1260	39.6700
313	642646.3470	705389.0860	40.3400
314	642647.1580	705385.8620	40.3500
315	642661.3160	705383.0400	39.8700
316	642662.0330	705384.3890	39.3600
317	642659.0220	705379.9940	40.1600
318	642660.5440	705382.0660	40.1300

319	642629.3980	705398.5670	39.9100
320	642626.8820	705398.5000	40.0700
321	642627.6250	705408.8570	38.6600
322	642630.3620	705398.9000	40.1900
323	642630.6390	705397.8240	40.2600
324	642640.5390	705397.5050	40.3300
325	642641.3340	705397.7090	39.8700
326	642635.2540	705397.5650	40.4000
327	642639.3510	705397.4610	40.3600
328	642598.6440	705479.6730	38.4200
329	642597.8160	705479.4130	38.5000
330	642599.6900	705480.0950	37.8700
331	642599.2920	705479.9490	38.0700
332	642596.6210	705478.7450	38.4500
333	642592.4420	705476.4690	37.9900
334	642591.8730	705476.2500	37.6600
335	642594.2140	705477.4430	38.4300
336	642593.1650	705476.9460	38.3800
337	642582.0320	705498.8980	38.4700
338	642582.6110	705498.9780	38.5300
339	642580.8240	705498.6520	38.1400
340	642581.3630	705498.7430	38.1800
341	642584.2890	705499.8290	38.5600
342	642588.2000	705501.5490	38.1500
343	642588.7570	705501.9370	37.9700
344	642586.3810	705500.9480	38.6000
345	642587.6660	705501.3240	38.5800
346	642619.4350	705442.1110	38.2600
347	642618.9490	705441.8380	38.5600
348	642611.7670	705460.7250	37.6100
349	642619.8550	705442.3150	37.9300
350	642618.3640	705441.4550	38.6000
351	642613.7240	705438.6950	38.5300
352	642613.3860	705438.3120	38.2500
353	642616.9920	705440.2820	38.5400
354	642614.4510	705439.0170	38.5700
355	642603.5640	705456.1250	38.4400
356	642604.2770	705456.4500	38.5000
357	642602.6660	705455.8000	37.9000
358	642603.1020	705455.8940	38.1600
359	642606.2280	705457.4460	38.5400
360	642609.9140	705459.6020	38.0200
361	642610.6350	705460.0640	37.6900
362	642608.1960	705458.4990	38.4800
363	642609.0810	705459.0570	38.4400
364	642671.0320	705373.2440	40.0900
365	642582.7510	705327.9420	43.2100
366	642581.0740	705329.6710	43.1300
367	642593.5040	705336.4390	43.3200
368	642584.5440	705326.4010	43.2900
369	642578.5630	705331.5250	43.1800
370	642585.9110	705341.6770	43.2900
371	642586.8330	705340.6630	43.3400
372	642577.1390	705332.9350	43.1600
373	642585.2620	705342.3900	42.9800
374	642612.4620	705364.5750	42.9200
375	642615.6360	705361.4990	43.1300
376	642615.1630	705362.0520	42.9500
377	642614.4680	705362.8190	42.9900
378	642602.3990	705350.2770	43.3000
379	642591.6780	705338.2890	43.3400
380	642592.7350	705337.0550	43.2800
381	642603.2420	705348.8420	43.2900
382	642604.0440	705348.2280	43.3400
383	642624.2890	705385.1700	41.2400
384	642629.0290	705386.7750	41.2800
385	642624.7920	705384.1880	41.4600
386	642623.8260	705384.6740	41.2600
387	642627.7360	705387.7950	40.9300
388	642628.4630	705392.6590	40.5600
389	642630.0110	705392.2980	40.7900
390	642625.9530	705389.2060	40.6500
391	642626.8440	705393.2940	40.2500
392	642597.4320	705355.7980	43.1100
393	642609.9520	705366.7290	42.9900
394	642599.0550	705354.1480	43.2900
395	642598.0290	705355.1430	43.2500
396	642609.0980	705367.4860	42.9600
397	642620.0450	705380.8760	41.5000
398	642620.0380	705380.8760	41.5000

399	642608.4240	705368.1610	42.8700
400	642620.2130	705378.4800	41.8800
401	642668.6540	705370.4510	39.7800
402	642667.7680	705368.9990	39.4700
403	642686.0620	705356.2910	39.3700
404	642668.9810	705370.8130	39.9700
405	642656.6230	705377.8820	40.0500
406	642643.7810	705383.0240	40.3900
407	642643.7000	705382.6440	40.2200
408	642655.9260	705377.1400	39.8600
409	642655.3520	705376.2620	39.5600
410	642673.7130	705377.2990	39.4700
411	642691.7900	705365.0250	39.5200
412	642672.2550	705375.0440	40.0700
413	642672.8560	705375.7950	39.8100
414	642690.7370	705364.1040	39.9300
415	642687.7630	705358.6490	39.9500
416	642687.4000	705358.1530	39.6800
417	642690.4270	705363.1830	40.0600
418	642689.3310	705361.2030	40.0700
419	642632.4060	705379.5260	41.0900
420	642629.8030	705382.5980	41.4700
421	642634.3850	705382.5670	41.0600
422	642631.2680	705380.6520	41.3100
423	642623.6350	705377.0930	41.9600
424	642626.8790	705374.7940	41.7100
425	642627.7090	705374.3480	41.6800
426	642625.8960	705374.6790	41.8400
427	642626.6520	705374.8260	41.7800
428	642635.4520	705382.9400	40.9900
429	642635.6330	705381.7540	40.8100
430	642643.6280	705381.1020	39.7100
431	642639.1970	705383.7530	40.6900
432	642637.1070	705386.3730	40.8900
433	642637.2810	705382.0570	40.4500
434	642634.8260	705381.3680	40.9400
435	642637.5290	705389.0700	40.8000
436	642637.4630	705389.4300	40.7900
437	642570.1490	705521.1630	38.4400
438	642514.1070	705745.2790	38.8800
439	642512.2760	705744.6770	38.9000
440	642515.5630	705745.5130	38.5200
441	642515.0410	705745.3570	38.8400
442	642510.3180	705744.2730	38.7500
443	642508.0230	705743.8090	38.2200
444	642512.4330	705723.2240	38.7400
445	642509.0700	705744.1790	38.8400
446	642508.3560	705744.0120	38.3800
447	642504.5440	705765.0670	38.5000
448	642506.4640	705765.4170	38.5600
449	642503.4540	705764.9090	38.2500
450	642503.9390	705765.0000	38.4600
451	642508.8550	705766.0280	38.5400
452	642510.9380	705766.3930	37.9100
453	642515.9960	705745.6840	38.1900
454	642509.8430	705766.1450	38.5300
455	642510.3570	705766.1600	38.0500
456	642523.7460	705699.8980	39.7500
457	642522.0440	705699.3520	39.7200
458	642525.0910	705700.1610	39.3800
459	642524.5520	705700.1040	39.6700
460	642519.6580	705698.8340	39.6400
461	642517.4380	705698.4100	39.1600
462	642521.7020	705676.4840	39.3500
463	642518.6140	705698.7300	39.6300
464	642517.9860	705698.6260	39.3000
465	642514.1660	705723.4060	39.3300
466	642515.9920	705723.7420	39.3600
467	642513.0890	705723.4800	38.9900
468	642513.4970	705723.3570	39.2300
469	642518.7360	705724.1800	39.3800
470	642520.6130	705724.7260	38.7900
471	642525.2790	705700.1240	39.2100
472	642519.6290	705724.3730	39.3200
473	642520.2270	705724.5470	38.9300
474	642494.6600	705822.9840	38.9800
475	642492.7630	705822.4230	38.9300
476	642497.1240	705824.0020	38.3400
477	642495.5880	705823.3420	38.9700
478	642490.3300	705821.6730	38.9100

479	642487.7390	705821.0990	38.8600
480	642491.7000	705803.5910	37.7800
481	642489.4220	705821.4400	38.9100
482	642488.7860	705821.2760	38.5500
483	642488.1550	705845.8650	39.3000
484	642489.0330	705845.9120	39.2800
485	642483.7240	705844.8200	39.2600
486	642485.7210	705845.1870	39.3300
487	642489.5870	705845.9310	38.9800
488	642500.6160	705824.7040	38.2400
489	642498.1240	705824.5030	38.5500
490	642490.3440	705846.1880	38.8300
491	642491.7900	705846.2000	38.9900
492	642503.7470	705786.8080	38.4800
493	642501.9240	705786.2150	38.4800
494	642504.8390	705787.3360	38.2700
495	642504.3370	705787.1050	38.4500
496	642499.7000	705785.7800	38.4000
497	642497.5310	705785.1170	37.7700
498	642503.0040	705764.7210	37.7900
499	642498.7390	705785.5880	38.3700
500	642498.0850	705785.3610	37.8900
501	642494.4200	705804.1670	38.5800
502	642496.0500	705804.6350	38.6200
503	642492.5710	705803.3760	38.0300
504	642493.7500	705803.8520	38.4700
505	642498.5970	705805.2220	38.6200
506	642500.9780	705805.8180	37.9600
507	642505.3370	705787.3260	37.7700
508	642499.7160	705785.4500	38.6300
509	642500.4860	705805.7410	38.1300
510	642522.0270	705676.4830	39.3800
511	642561.5070	705546.5470	38.7900
512	642564.0290	705547.8490	38.7700
513	642559.3250	705545.0790	38.6300
514	642560.0100	705545.5770	38.7100
515	642563.4060	705551.1850	38.7500
516	642568.6530	705544.6070	38.1000
517	642566.8170	705544.9810	38.6800
518	642564.1040	705552.5680	38.2500
519	642567.1970	705544.8260	38.5700
520	642548.9810	705579.7290	38.9400
521	642551.4620	705580.6900	38.9600
522	642546.8140	705578.8640	38.8700
523	642547.2960	705579.0280	38.9100
524	642552.2830	705580.8280	38.9400
525	642557.5040	705544.1790	38.6000
526	642558.4380	705544.2820	38.2500
527	642552.8670	705581.0050	38.6600
528	642553.4820	705581.2920	38.5400
529	642577.2550	705524.5750	38.2200
530	642576.7380	705524.3940	38.6000
531	642587.2730	705556.8580	38.2400
532	642577.6850	705524.7440	37.9500
533	642575.9080	705524.2380	38.6300
534	642571.0030	705521.7260	38.4700
535	642570.4610	705521.4910	38.1800
536	642574.0430	705523.0700	38.6500
537	642572.0020	705522.0200	38.5100
538	642571.7700	705550.8700	38.0500
539	642570.3280	705553.5390	38.1500
540	642571.5210	705549.8420	38.0600
541	642574.0550	705547.8720	37.9100
542	642569.0400	705555.7950	38.0800
543	642584.4300	705561.1060	38.2400
544	642585.8020	705559.1670	38.2200
545	642582.0310	705564.7150	38.2700
546	642583.0030	705562.9040	38.2300
547	642531.0880	705652.8150	39.6200
548	642528.6130	705652.3440	39.5000
549	642533.6620	705653.5930	39.5600
550	642533.0050	705653.4720	39.6000
551	642527.6430	705652.2310	39.4900
552	642532.3110	705626.7240	38.7400
553	642532.6000	705626.7980	38.8500
554	642527.0370	705651.9990	39.1600
555	642526.6550	705651.7760	39.0200
556	642524.7450	705677.1400	39.7600
557	642527.9320	705677.8250	39.8300
558	642522.6970	705676.6270	39.7500

559	642523.2030	705676.7370	39.8000
560	642528.8040	705677.8420	39.8000
561	642534.6270	705653.8050	39.0300
562	642534.2560	705653.7150	39.1800
563	642529.3870	705677.9150	39.4600
564	642529.8520	705678.1040	39.4700
565	642543.4650	705602.6860	39.1000
566	642540.9600	705601.8190	39.0200
567	642545.6730	705603.2820	39.0800
568	642544.8350	705603.1300	39.1300
569	642540.0200	705601.6230	38.9700
570	642545.7930	705578.6150	38.3400
571	642546.1980	705578.8360	38.4600
572	642539.5720	705601.3770	38.7300
573	642538.7300	705601.1600	38.4500
574	642535.9260	705627.2490	39.3500
575	642538.2290	705627.9000	39.3200
576	642533.1670	705626.8950	39.2200
577	642533.9340	705626.8210	39.2900
578	642539.2270	705628.0210	39.3100
579	642546.7500	705603.4150	38.6500
580	642546.2610	705603.2560	38.7500
581	642539.7310	705628.2370	39.0200
582	642540.2730	705628.3330	38.8000
583	642185.3410	706241.9110	37.9800
584	641549.3190	706743.8030	38.7300
585	641552.9610	706741.9750	38.7500
586	641547.0110	706745.8800	38.7500
587	641545.7690	706745.7200	38.3800
588	641552.2550	706741.1900	38.7200
589	641547.8580	706736.1090	38.1800
590	641549.8060	706734.2040	38.0800
591	641552.2820	706740.2380	38.4700
592	641552.8660	706739.3210	38.4400
593	641537.1430	706762.8650	39.1100
594	641535.9730	706761.4960	39.1100
595	641538.9120	706764.5940	38.4400
596	641537.8640	706763.6670	39.0900
597	641534.2950	706759.9190	39.0200
598	641531.9350	706757.7830	38.5200
599	641547.6670	706747.1050	38.8600
600	641533.5570	706759.2700	38.9500
601	641532.6740	706758.7130	38.5600
602	641555.4940	706749.0740	37.8500
603	641556.1520	706749.7450	37.1100
604	641553.7190	706748.3800	38.8100
605	641554.1310	706748.9890	38.3000
606	641570.9240	706734.2600	37.8800
607	641570.0830	706733.2030	38.5800
608	641569.4340	706732.5680	38.6300
609	641571.2190	706734.6600	37.4900
610	641570.1930	706733.8210	38.4000
611	641542.2050	706739.0070	38.0800
612	641536.9940	706727.6020	38.0900
613	641546.3640	706736.6580	38.2000
614	641544.0760	706737.9360	38.1800
615	641538.6330	706726.5590	37.9900
616	641543.4510	706724.0720	37.9900
617	641553.1980	706747.6940	38.8600
618	641539.9800	706725.9930	38.0500
619	641541.1750	706725.1990	38.0000
620	641536.1580	706802.2580	38.3600
621	641535.4370	706802.8780	38.4400
622	641531.0470	706801.5790	38.2900
623	641534.7080	706801.0260	38.4100
624	641533.5780	706804.2460	38.3800
625	641543.0950	706797.5450	38.3200
626	641535.6390	706794.5360	38.3900
627	641538.3510	706800.2340	38.3400
628	641541.2940	706798.4770	38.2300
629	641515.6040	706805.4640	38.7200
630	641518.8560	706808.8740	38.3800
631	641518.0270	706807.4350	38.5300
632	641516.3120	706806.5450	38.5700
633	641519.8940	706809.6080	38.5800
634	641526.9290	706805.5480	38.4000
635	641526.2910	706804.0520	38.3000
636	641521.2850	706811.5760	38.4700
637	641527.7770	706807.9340	39.3600
638	641520.3400	706807.8910	39.3600

639	641518.2040	706775.8020	39.2900
640	641531.8250	706772.5510	38.5100
641	641532.4250	706772.8580	37.9700
642	641517.7090	706775.2460	39.2200
643	641539.7230	706764.6980	38.1200
644	641539.9510	706765.1930	37.6500
645	641517.1990	706774.6940	38.8700
646	641516.5480	706773.9330	38.8000
647	641531.6110	706782.4150	38.6800
648	641533.5080	706781.2870	38.5600
649	641537.1660	706791.9330	38.3300
650	641539.3180	706790.2180	38.2900
651	641536.3230	706780.3170	38.3100
652	641529.1240	706771.6770	39.1600
653	641530.5660	706772.0740	38.6800
654	641529.2750	706776.4420	38.8700
655	641529.2060	706773.9150	38.9600
656	641568.4030	706731.4180	38.6100
657	641657.7180	706655.7260	38.2200
658	641656.6130	706655.0510	38.1700
659	641645.8100	706667.2670	37.3200
660	641658.3910	706656.1670	37.3300
661	641655.9300	706654.3750	38.1700
662	641653.7930	706651.4520	38.5200
663	641652.4700	706649.6800	38.4500
664	641655.5540	706653.8860	38.4500
665	641655.0970	706653.0860	38.4800
666	641639.6100	706660.6230	38.3900
667	641640.1200	706661.3020	38.4500
668	641637.5140	706659.0870	38.1100
669	641638.5550	706659.7370	37.9100
670	641641.6350	706662.7510	38.4900
671	641644.4540	706665.7070	37.9600
672	641645.0450	706666.1520	38.1100
673	641643.1660	706664.1620	38.4700
674	641643.7490	706664.9580	38.4800
675	641671.9920	706638.4660	38.4600
676	641672.5090	706638.7550	37.8900
677	641669.7780	706636.0440	38.5600
678	641671.2650	706637.7330	38.4800
679	641673.2530	706639.5700	37.9600
680	641688.2570	706626.3980	38.1800
681	641688.8230	706627.2610	37.7100
682	641673.9290	706640.5350	38.1400
683	641674.2970	706641.5250	37.5700
684	641651.1030	706648.3280	37.7500
685	641649.6680	706646.5330	37.8400
686	641651.9830	706648.9790	38.4000
687	641651.5240	706648.5730	38.0200
688	641664.2590	706630.5670	37.8300
689	641667.9680	706633.8610	38.4000
690	641668.3700	706634.4680	38.4700
691	641666.5100	706632.0840	37.7500
692	641667.5180	706633.4490	38.1200
693	641589.7880	706716.2220	38.2000
694	641590.6140	706716.9970	37.6800
695	641588.3280	706715.0390	38.5400
696	641589.1750	706715.8800	38.4700
697	641591.0130	706717.5380	37.6200
698	641602.6230	706690.1060	37.8400
699	641604.1400	706691.5050	37.8400
700	641591.4550	706718.0310	37.0800
701	641593.3870	706701.9560	37.9600
702	641565.2320	706728.2440	38.1800
703	641563.3300	706726.2440	37.9600
704	641566.7010	706729.6340	38.5900
705	641565.8590	706728.7840	38.5000
706	641582.5840	706709.4180	37.9100
707	641585.5440	706712.1110	38.4900
708	641586.8330	706713.4280	38.5300
709	641584.0390	706710.5790	38.0000
710	641584.9710	706711.4780	38.4300
711	641626.5890	706680.9580	38.4300
712	641626.0180	706680.2420	38.4900
713	641628.3280	706681.7840	38.0400
714	641627.7510	706681.7310	37.9000
715	641624.9540	706679.0850	38.4900
716	641622.0580	706676.0210	37.9900
717	641620.1550	706673.9540	37.8000
718	641623.2760	706677.5150	38.4600

719	641622.5160	706676.6560	38.4000
720	641607.2920	706694.7940	38.5100
721	641608.9050	706696.2670	38.4800
722	641605.3190	706692.7220	38.4100
723	641605.8920	706693.3310	38.4500
724	641609.6080	706697.0110	38.4200
725	641611.1910	706699.2740	37.4200
726	641628.7250	706682.3730	37.3700
727	641610.5520	706697.8130	37.8900
728	641610.8480	706698.6550	37.8400
729	641526.0530	706800.3430	38.3300
730	641436.1110	706897.1380	38.8100
731	641434.2720	706894.3580	38.7200
732	641429.9050	706900.0660	38.7400
733	641437.1670	706899.0470	38.8300
734	641432.3380	706893.7350	38.5400
735	641443.5800	706890.0360	38.9600
736	641445.1300	706891.2580	38.8500
737	641440.9310	706888.0840	39.0400
738	641442.4370	706889.1450	39.0200
739	641423.1990	706892.8620	38.9100
740	641421.4970	706893.3780	39.2800
741	641426.9290	706895.5940	38.7100
742	641427.4530	706894.6190	38.5000
743	641429.8710	706897.2450	38.7200
744	641430.9950	706906.6480	38.5700
745	641430.1410	706900.0680	38.7200
746	641429.9330	706902.4060	38.6800
747	641430.3080	706904.6510	38.6500
748	641432.7470	706867.0680	39.5300
749	641434.5520	706868.3370	39.6100
750	641430.9420	706865.8980	39.2900
751	641432.0060	706866.6320	39.4900
752	641436.6210	706869.7880	39.5200
753	641442.8660	706862.4540	39.5600
754	641443.6820	706862.9100	39.0300
755	641437.4030	706870.3640	39.0800
756	641437.9760	706870.9670	38.9100
757	641426.2880	706884.7010	39.1500
758	641425.9300	706884.4090	39.4400
759	641448.3880	706893.6530	38.9100
760	641426.8250	706885.0010	38.7700
761	641423.9790	706883.1620	39.5100
762	641419.4540	706880.6540	38.8100
763	641429.6020	706865.2340	38.8800
764	641420.9330	706881.3180	39.3200
765	641420.2060	706880.9780	38.9300
766	641403.2390	706923.1640	39.2000
767	641406.0940	706924.4580	39.1000
768	641400.4660	706921.9130	38.7700
769	641400.7450	706922.1170	39.0600
770	641406.8860	706924.8170	38.8100
771	641415.0020	706908.9380	38.5300
772	641414.6070	706908.7160	38.6800
773	641407.3760	706925.0200	38.4800
774	641407.6370	706925.1750	38.4600
775	641400.4920	706937.1820	39.0800
776	641397.7950	706936.0220	39.1800
777	641401.3950	706937.6760	38.4700
778	641401.0100	706937.4390	38.6600
779	641395.0320	706934.7300	39.0600
780	641399.8300	706921.6080	38.6000
781	641400.1410	706921.7350	38.6000
782	641394.4900	706934.4590	38.7300
783	641393.9310	706934.1970	38.5000
784	641419.4970	706897.4410	39.2900
785	641416.9600	706902.1740	39.2500
786	641411.9630	706894.0250	38.7700
787	641416.3540	706895.9510	39.3700
788	641417.7410	706904.1740	38.7900
789	641425.6900	706900.6990	38.8800
790	641426.5190	706896.4970	38.7400
791	641424.3700	706903.7440	38.7800
792	641425.1040	706906.7790	38.5800
793	641411.4120	706907.2190	39.3200
794	641408.4890	706905.9380	39.2100
795	641414.1320	706908.5840	39.0900
796	641413.8540	706908.3830	39.2800
797	641408.0370	706905.8000	38.9100
798	641413.7790	706894.7840	39.2400

799	641413.2060	706894.4600	38.8300
800	641407.6190	706905.6450	38.6400
801	641407.3720	706905.5270	38.6100
802	641444.7920	706863.5770	39.1600
803	641490.3680	706817.4650	38.2200
804	641503.0150	706803.2960	38.4000
805	641489.4190	706815.1150	38.9900
806	641489.7760	706816.3730	38.8700
807	641502.5700	706802.9140	38.8100
808	641500.3240	706800.9390	39.5700
809	641499.1680	706799.5340	39.5900
810	641501.7200	706802.3030	39.1100
811	641500.7660	706801.4650	39.5500
812	641482.0600	706809.2170	39.0100
813	641483.2020	706810.0080	39.1100
814	641468.2560	706825.5190	39.1000
815	641467.5880	706824.5480	38.9900
816	641483.8790	706810.5540	39.5300
817	641487.4140	706813.8340	39.6500
818	641488.3940	706814.5030	39.6000
819	641484.2550	706811.0140	39.6000
820	641485.6810	706812.1700	39.6600
821	641524.3440	706786.9800	38.8100
822	641523.6550	706788.4400	38.7500
823	641516.6510	706785.6610	39.1100
824	641520.7290	706785.4870	38.9200
825	641522.0060	706790.3220	38.5500
826	641527.1920	706796.9800	38.4200
827	641524.5790	706797.0230	38.4400
828	641520.6730	706791.8800	38.4700
829	641530.2780	706793.3790	38.5700
830	641496.1850	706796.8010	39.1200
831	641494.6540	706795.1920	38.9500
832	641497.4540	706797.7640	39.5200
833	641496.8020	706797.2120	39.5000
834	641509.0900	706781.6340	38.9600
835	641516.2930	706788.5560	38.7800
836	641516.3270	706789.2420	38.1500
837	641515.5760	706785.4070	39.2500
838	641516.3440	706786.9130	38.9600
839	641431.6400	706848.6560	38.6200
840	641418.3610	706847.4730	38.0300
841	641429.5490	706852.4100	38.6600
842	641430.7520	706850.3990	38.6400
843	641419.2660	706846.1270	37.9900
844	641422.1900	706841.7240	38.0200
845	641453.6020	706838.9060	38.8300
846	641420.0940	706844.9250	38.0200
847	641420.9220	706843.5410	38.0500
848	641436.4780	706862.1400	39.5200
849	641435.1570	706861.5240	39.0900
850	641441.0530	706861.1800	39.5900
851	641438.5620	706859.0200	39.4000
852	641438.8380	706855.0770	39.0000
853	641427.5730	706855.1720	38.5900
854	641428.6830	706853.6990	38.6100
855	641439.4470	706855.7650	39.2500
856	641440.0180	706857.9760	39.5300
857	641475.5100	706832.5490	38.6400
858	641474.3100	706831.0760	38.9100
859	641462.4770	706846.7130	38.5800
860	641475.0330	706832.0160	38.8200
861	641473.4140	706830.2100	39.6300
862	641469.8460	706826.7310	39.6000
863	641469.1460	706825.9670	39.5800
864	641472.9510	706829.6680	39.6500
865	641471.6190	706828.2910	39.6900
866	641455.9210	706840.5710	39.5900
867	641457.3850	706842.1140	39.6700
868	641454.5310	706839.4220	38.9900
869	641455.1460	706839.8470	39.4500
870	641459.2770	706843.7770	39.6300
871	641461.6950	706845.5800	39.1000
872	641462.1650	706845.9860	39.2100
873	641459.8670	706844.2540	39.6100
874	641460.6160	706844.8090	38.9700
875	642000.0210	706364.3630	38.6800
876	642000.4120	706365.2340	38.6700
877	641997.2690	706362.7350	38.7800
878	641998.7630	706362.7350	38.7800

879	642000.7940	706365.7620	38.3800
880	642018.4000	706343.9470	38.4100
881	642018.5920	706344.3090	38.3400
882	642001.6280	706366.6940	38.2200
883	642005.7220	706352.0360	38.3800
884	641980.0450	706373.5550	38.6300
885	641979.3880	706372.5100	38.6400
886	641982.3540	706377.0040	38.7000
887	641981.2240	706375.2370	38.7400
888	641978.8780	706371.7440	38.2100
889	641996.2780	706359.6360	38.3400
890	641996.8460	706360.1600	38.6500
891	641978.2990	706370.4520	38.1000
892	641995.4270	706358.8910	38.3500
893	642036.9110	706336.9380	38.8200
894	642035.5630	706334.8270	38.7500
895	642038.7430	706339.5220	38.7500
896	642037.8980	706338.4740	38.8000
897	642034.8570	706333.9910	38.7100
898	642055.7120	706316.7980	38.6000
899	642056.1520	706317.8280	38.4100
900	642034.5370	706333.3340	38.3000
901	642034.3280	706332.9980	38.2700
902	642020.4620	706347.2660	38.7700
903	642021.9430	706349.2820	38.7300
904	642018.9880	706344.8220	38.6500
905	642019.3640	706345.5970	38.7100
906	642022.4570	706349.8650	38.6900
907	642039.9070	706340.6240	38.3000
908	642039.2920	706339.9330	38.3300
909	642022.8960	706350.5120	38.3000
910	642023.3870	706351.8610	38.6100
911	641932.6020	706411.8520	38.5000
912	641932.7260	706413.0250	38.0100
913	641930.8850	706408.9640	38.6000
914	641932.0050	706410.9460	38.5300
915	641952.5190	706400.6910	37.9700
916	641951.0820	706398.5390	38.6000
917	641950.1420	706397.0340	38.6500
918	641951.9610	706399.9990	38.0400
919	641951.3640	706399.0650	38.5700
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921	641906.5660	706418.8290	37.8400
922	641909.1470	706421.7250	38.4000
923	641908.6040	706420.7750	38.3200
924	641906.1860	706417.0520	37.8700
925	641929.2630	706406.8520	38.5400
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927	641927.6070	706405.4300	37.8600
928	641928.5560	706406.1010	38.1500
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931	641964.8740	706385.4130	38.6600
932	641966.2890	706387.6500	38.6700
933	641966.9920	706388.9490	38.3100
934	641983.0680	706378.0110	38.3900
935	641982.6440	706377.3990	38.6700
936	641984.3870	706379.0640	38.1500
937	641983.6750	706378.4590	38.1900
938	641947.8940	706393.5280	38.2000
939	641947.0900	706392.1930	38.1200
940	641948.6880	706395.0460	38.5300
941	641948.1380	706393.9470	38.4500
942	641957.9480	706385.1950	38.4800
943	641963.6200	706383.3360	38.6100
944	641963.9140	706383.9050	38.6600
945	641961.9790	706381.5260	38.0300
946	641963.0490	706382.5520	38.2100
947	642056.6890	706318.6530	38.7700
948	642148.3470	706257.8550	38.8500
949	642149.6830	706259.6090	38.8900
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951	642147.8800	706257.4590	38.8300
952	642151.2340	706261.6590	38.8600
953	642153.6400	706263.9850	38.5800
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955	642152.2300	706262.4550	38.7800
956	642152.5720	706262.8860	38.3600
957	642132.2690	706272.2690	39.0600
958	642131.1180	706270.4530	38.9500

959	642133.8560	706274.7640	39.0200
960	642133.3040	706273.8540	39.0500
961	642130.2960	706269.3420	38.9300
962	642141.2850	706260.2110	38.7300
963	642146.9440	706256.7610	38.6200
964	642129.9250	706268.9270	38.5400
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966	642180.7070	706234.8730	38.0700
967	642181.2460	706235.4190	38.6000
968	642162.9270	706243.9900	37.8600
969	642180.2700	706234.3720	37.7600
970	642181.8620	706236.1090	38.6500
971	642184.7580	706240.7890	38.6500
972	642185.0690	706241.4710	38.3000
973	642182.9760	706237.9420	38.7100
974	642184.1390	706240.0150	38.6600
975	642168.2190	706251.9480	38.7700
976	642167.7020	706251.1960	38.7900
977	642169.0190	706253.0020	38.2200
978	642168.4440	706252.5040	38.4400
979	642166.7260	706249.4980	38.8100
980	642164.2730	706245.5270	38.2600
981	642163.5070	706244.7630	38.3500
982	642165.4900	706247.2340	38.7600
983	642164.7870	706246.2390	38.7100
984	642076.2050	706306.8970	38.8100
985	642075.4910	706305.9390	38.7900
986	642078.6640	706310.7510	38.8900
987	642077.6110	706309.0860	38.8900
988	642075.2730	706305.4090	38.4000
989	642094.0600	706292.5540	38.5300
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991	642074.9590	706304.9190	38.2500
992	642093.6140	706292.1820	38.6400
993	642059.7880	706323.0080	38.8600
994	642060.3810	706323.9520	38.8400
995	642057.0180	706319.3710	38.8000
996	642058.1420	706320.8310	38.8700
997	642060.7070	706324.5570	38.4400
998	642079.5940	706311.9280	38.4400
999	642079.2440	706311.4270	38.8500
1000	642060.9030	706324.9660	38.3200
1001	642079.8700	706312.2220	38.2300
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1004	642112.4560	706281.1550	38.9200
1005	642113.0170	706281.7120	39.0000
1006	642116.0790	706286.6450	38.9600
1007	642134.8590	706275.5340	38.7300
1008	642134.5530	706275.1660	38.6400
1009	642116.3140	706287.2730	38.6300
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1011	642097.7210	706297.5440	38.9700
1012	642098.4660	706298.3780	38.9000
1013	642095.1980	706293.8320	38.9300
1014	642096.3010	706295.4890	39.0000
1015	642098.6470	706298.8030	38.5400
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1017	642112.0840	706280.6330	38.5800
1018	642098.8110	706299.3820	38.3500
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1038	641752.7600	706564.5990	38.3800

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1043	641787.7520	706527.5680	38.3600
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1045	641783.6040	706523.2250	38.3600
1046	641787.3570	706527.2800	38.3900
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1048	641770.1420	706537.3650	38.3700
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1050	641768.9580	706536.2950	37.9900
1051	641769.4740	706536.6400	38.3100
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1054	641774.9780	706543.6230	38.2600
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1058	641698.1380	706604.8760	38.3200
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1060	641695.7960	706602.6180	37.7500
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1062	641702.6750	706609.7220	38.3100
1063	641703.1800	706610.2130	37.7800
1064	641700.2520	706607.2190	38.4100
1065	641701.8330	706608.9010	38.3500
1066	641685.8940	706624.3660	38.4600
1067	641684.4000	706622.7640	38.5100
1068	641687.2970	706626.1730	37.9500
1069	641686.3250	706625.3390	38.4300
1070	641682.8590	706621.1480	38.4200
1071	641678.6910	706618.4680	37.7900
1072	641680.3490	706617.2050	37.8200
1073	641682.1590	706620.4680	38.3300
1074	641681.3150	706619.8160	37.8900
1075	641710.5140	706587.9450	37.7300
1076	641722.9500	706572.7100	37.7500
1077	641713.0640	706591.2300	38.2600
1078	641712.4260	706590.2370	37.7900
1079	641725.0340	706574.7340	37.7700
1080	641727.9370	706578.4210	38.2900
1081	641729.2300	706579.5500	38.3300
1082	641725.9490	706576.5330	37.7900
1083	641727.0970	706577.5810	38.2000
1084	641719.0920	706597.5250	38.2700
1085	641719.8400	706598.1370	37.8400
1086	641704.6870	706610.7440	38.0800
1087	641705.0930	706611.1960	37.8300
1088	641718.2350	706596.8900	37.9800
1089	641715.3970	706594.1480	38.3400
1090	641713.6690	706591.9970	38.3400
1091	641717.0660	706596.2540	38.3200
1092	641716.5420	706595.5250	38.3500
1093	641782.3210	706522.5680	37.8000
1094	641860.2540	706458.7550	38.4100
1095	641861.5220	706450.3260	38.3400
1096	641857.8580	706456.3980	38.3000
1097	641858.6930	706457.1680	38.3500
1098	641862.3840	706461.1170	38.2800
1099	641879.9920	706449.4360	37.7500
1100	641879.0930	706448.7100	38.2800
1101	641862.8940	706461.9550	37.7700
1102	641880.5860	706449.7740	37.7900
1103	641837.2150	706473.5000	38.2100
1104	641836.0340	706473.1380	37.7400
1105	641839.4850	706476.1240	38.3900
1106	641837.9410	706474.4140	38.2600
1107	641834.9990	706471.0400	37.7100
1108	641854.9890	706453.8670	37.7200
1109	641857.0130	706455.8660	37.8100
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1111	641853.6400	706451.0110	37.6900
1112	641895.6720	706435.4390	38.3200
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1115	641894.5270	706433.6930	38.4000
1116	641896.5220	706437.6950	37.7300
1117	641911.8460	706435.9910	38.4300
1118	641911.3280	706435.9910	38.4300

1119	641912.3980	706427.0370	37.8500
1120	641912.1070	706426.5870	38.0600
1121	641876.5310	706444.4770	38.3200
1122	641875.7090	706443.2630	38.2200
1123	641878.4720	706447.8550	38.3500
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1125	641875.3840	706442.4940	37.7900
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1130	641822.0750	706499.3870	37.7500
1131	641823.7090	706494.4490	38.3300
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1133	641821.0900	706497.7290	37.8500
1134	641821.9480	706492.0510	38.3500
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1138	641819.1070	706489.4220	38.2300
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1144	641805.0340	706511.0410	38.3900
1145	641805.9160	706511.5680	38.0800
1146	641802.8100	706509.3050	38.4600
1147	641804.1850	706510.5150	38.3900
1148	641839.0120	706509.6180	37.9000
1149	641837.5760	706511.1020	37.9300
1150	641840.9940	706506.7620	38.0400
1151	641839.9170	706508.1340	38.0000
1152	641846.2270	706482.8270	37.7200
1153	641841.3920	706478.3440	38.2900
1154	641840.7460	706477.4770	38.3700
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1156	641842.2690	706479.4460	37.6900
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1159	641811.8280	706491.1640	37.7100
1160	641826.0570	706490.5800	38.3800
1161	641832.8820	706497.0880	37.8700
1162	641826.7740	706503.2640	37.9700
1163	641842.6870	706504.3170	38.0100
1164	641830.3310	706499.9650	37.9100
1165	641828.2430	706501.8980	37.8900
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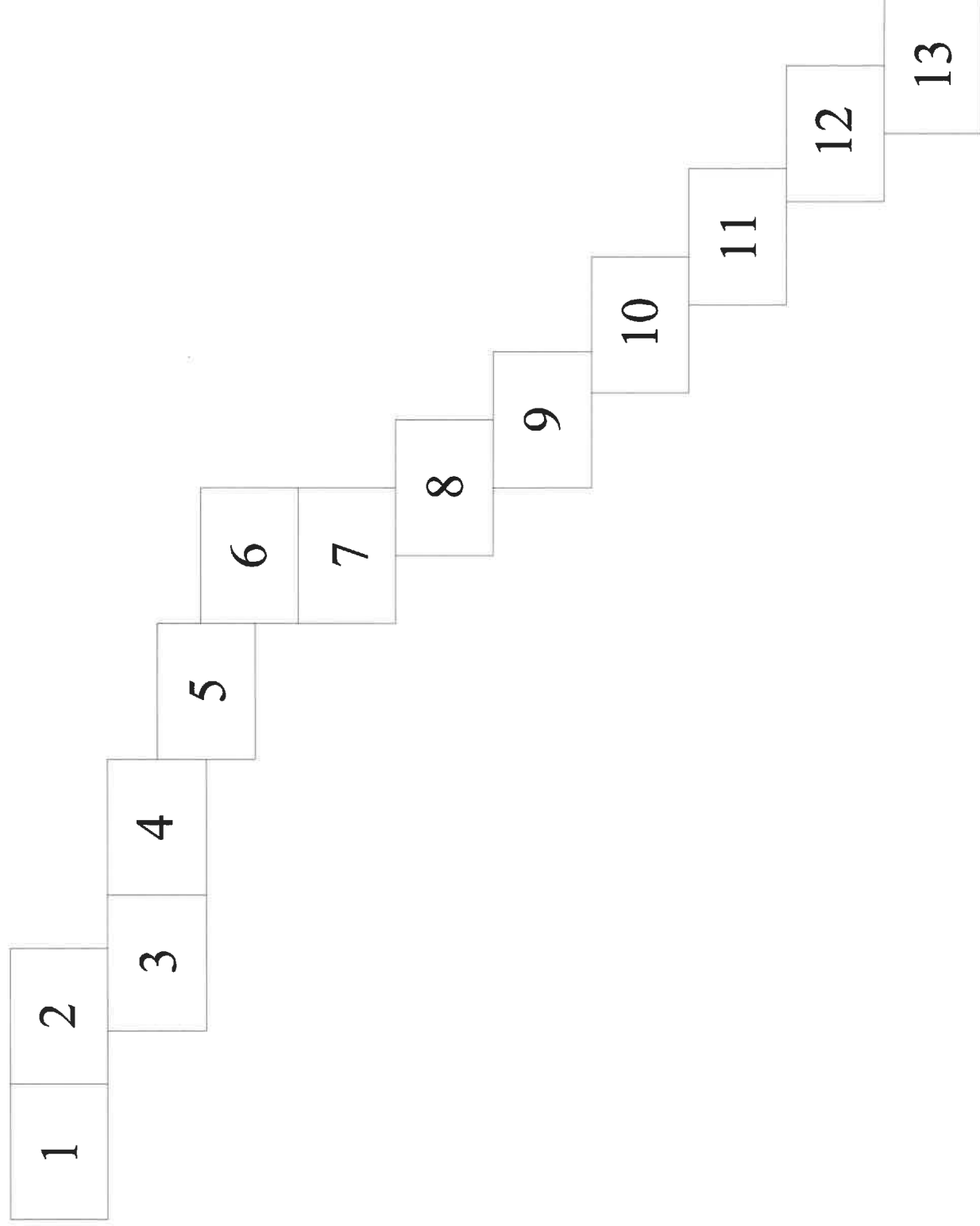


SC ROYAL CDV G2 SRL

RO-BC-F, Nr. 0202
NARCIS-MADALIN
18.10.2020

Locatie

Schita de racordare



LEGENDA:

Imobile eterra

Drum pamant

Drum balast

Drum asfalt

Ax drum

Pod

Parapete

Taluz sus

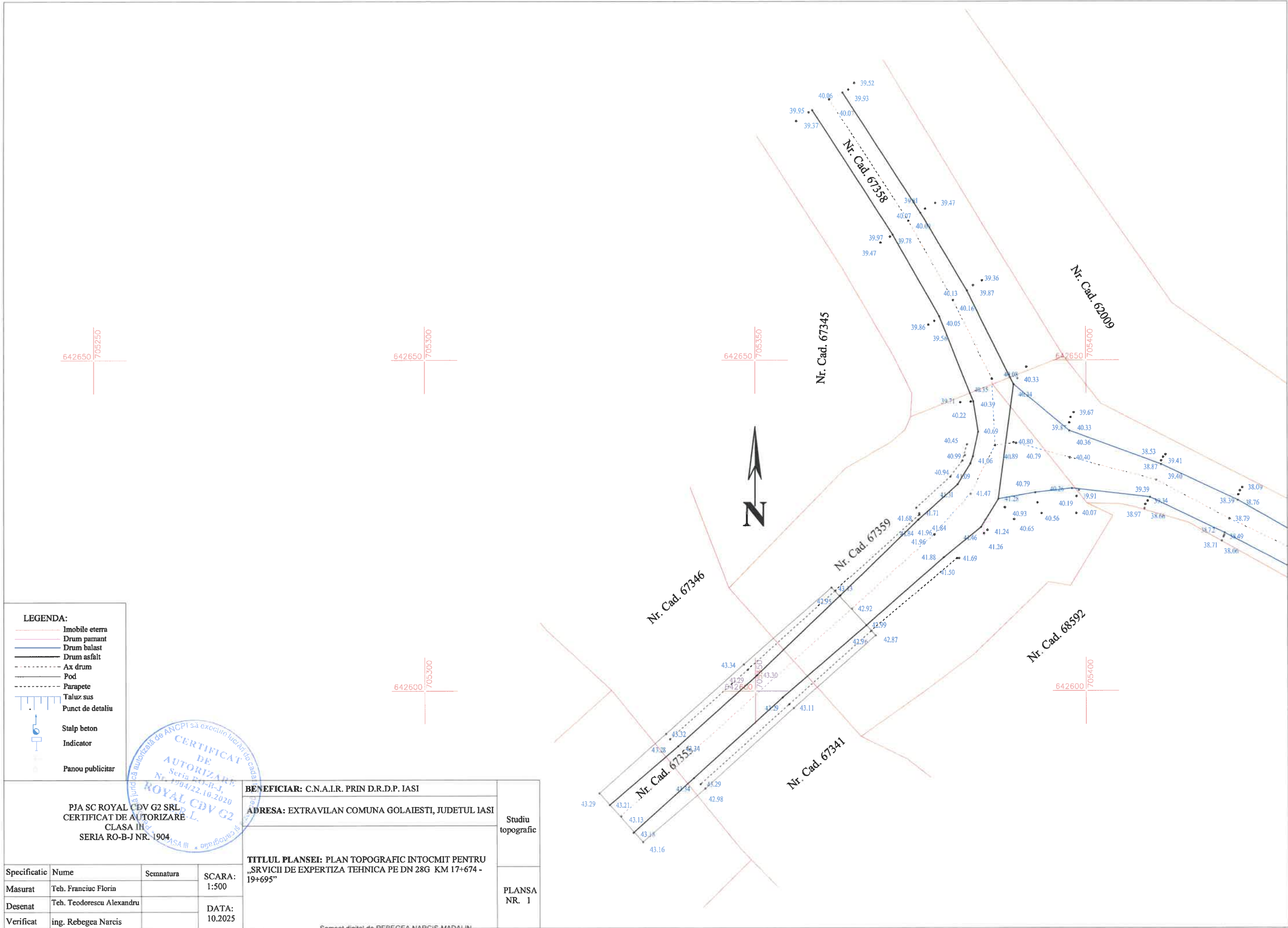
Punct de detaliu

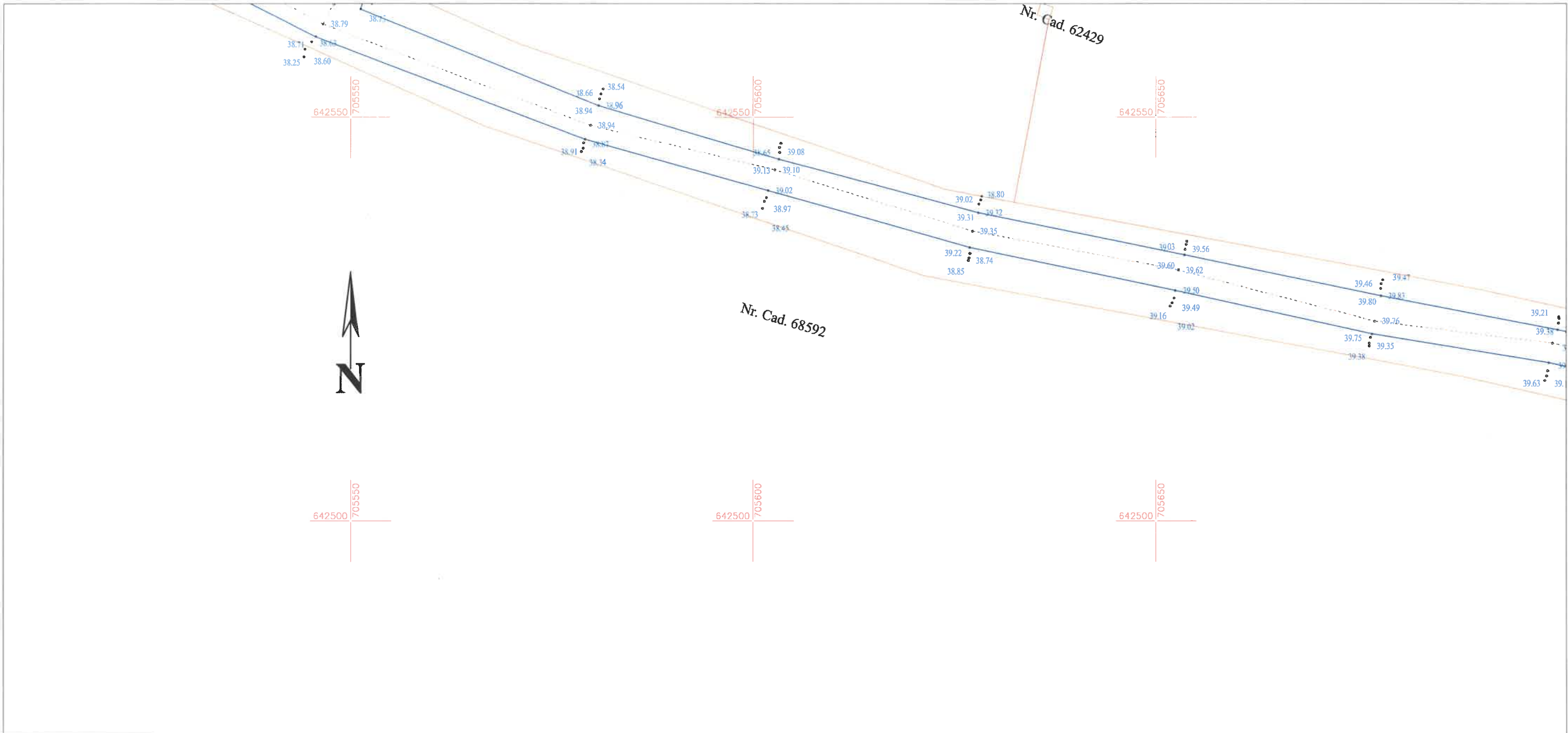
Stalp beton

Indicator

Panou publicitar

<div><div><div>RO-B-J NR. 1904/22.10.2020</div><div>ROYAL CDV G2 SRL</div><div>CERTIFICAT DE AUTORIZARE</div><div>CLASA III</div><div>SERIA RO-B-J NR. 1904</div></div><div></div></div>				BENEFICIAR: C.N.A.I.R. PRIN D.R.D.P. IASI		Studiu topografic
				ADRESA: EXTRAVILAN COMUNA GOLAIESTI, JUDETUL IASI		
				TITLUL PLANSEI: PLAN TOPOGRAFIC INTOCMIT PENTRU „SRVICII DE EXPERTIZA TEHNICA PE DN 28G KM 17+674 - 19+695”		PLANSA NR. 1
Specificatie	Nume	Semnatura	SCARA: 1:500			
Masurat	Teh. Franciuc Florin					
Desenat	Teh. Teodorescu Alexandru		DATA: 10.2025			
Verificat	ing. Rebegea Narcis			Semnat digital de REBEGEA NARCIS MADALIN		



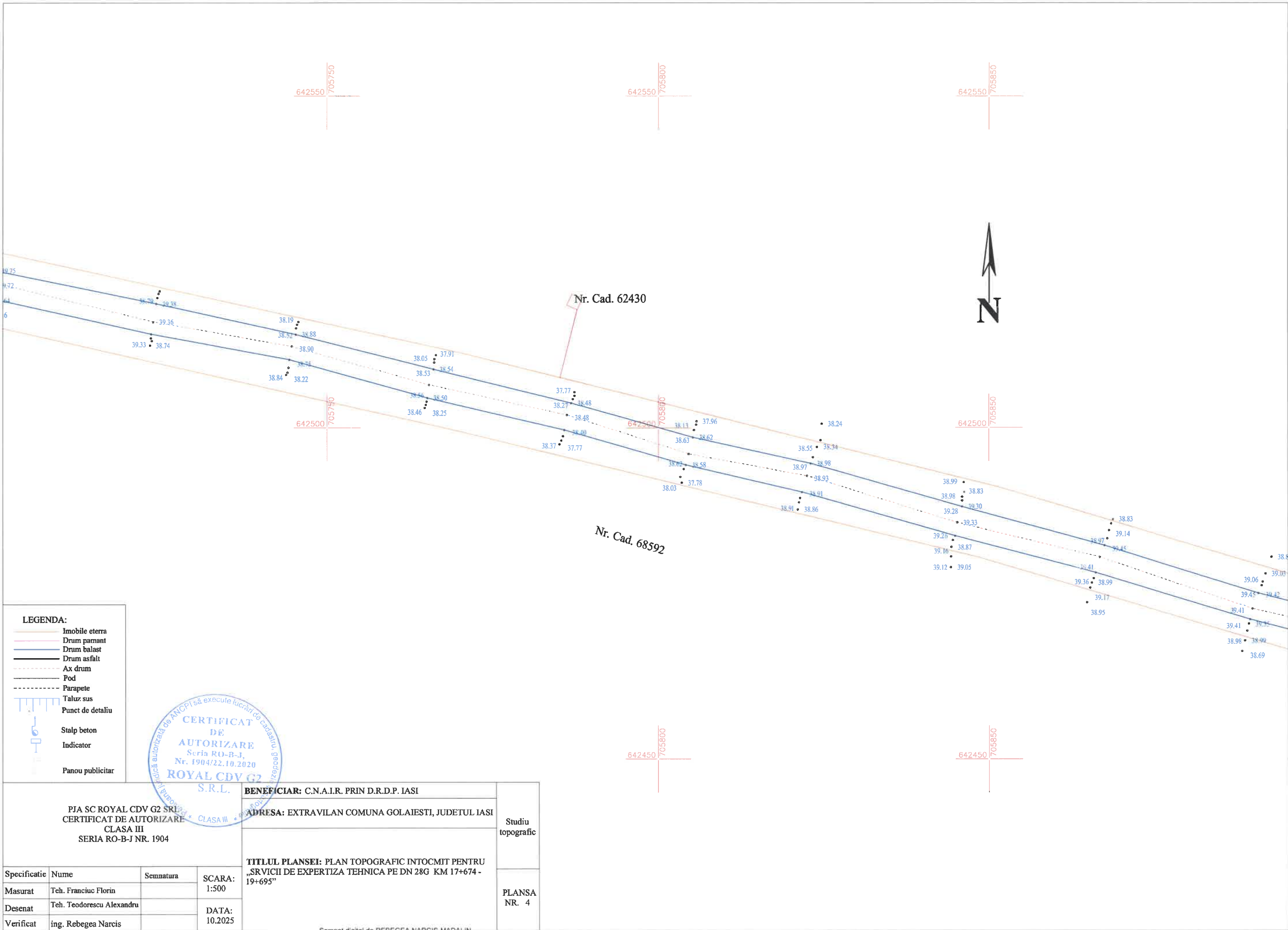


LEGENDA:

- Imobile eterra
- Drum pamant
- Drum balast
- Drum asfalt
- Ax drum
- Pod
- Parapete
- Taluz sus
- Punct de detaliu
- Stalp beton
- Indicator
- Panou publicitar



PJA SC ROYAL CDV G2 SRL CERTIFICAT DE AUTORIZARE CLASA III SERIA RO-B-J NR. 1904				BENEFICIAR: C.N.A.I.R. PRIN D.R.D.P. IASI		Studiu topografic
				ADRESA: EXTRAVILAN COMUNA GOLAIESTI, JUDETUL IASI		
				TITLUL PLANSEI: PLAN TOPOGRAFIC INTOCMIT PENTRU „SRVICII DE EXPERTIZA TEHNICA PE DN 28G KM 17+674 - 19+695”		PLANS NR. 3
Specificatie	Nume	Semnatura	SCARA: 1:500			
Masurat	Teh. Franciuc Florin					
Desenat	Teh. Teodorescu Alexandru		DATA: 10.2025			
Verificat	ing. Rebegea Narcis					



LEGENDA:

- Imobile eterra
- Drum parmant
- Drum balast
- Drum asfalt
- Ax drum
- Pod
- Parapete
- Taluz sus
- Punct de detaliu
- Stalp beton
- Indicator
- Panou publicitar



PJA SC ROYAL CDV G2 SRL
CERTIFICAT DE AUTORIZARE
CLASA III
SERIA RO-B-J NR. 1904

BENEFICIAR: C.N.A.I.R. PRIN D.R.D.P. IASI

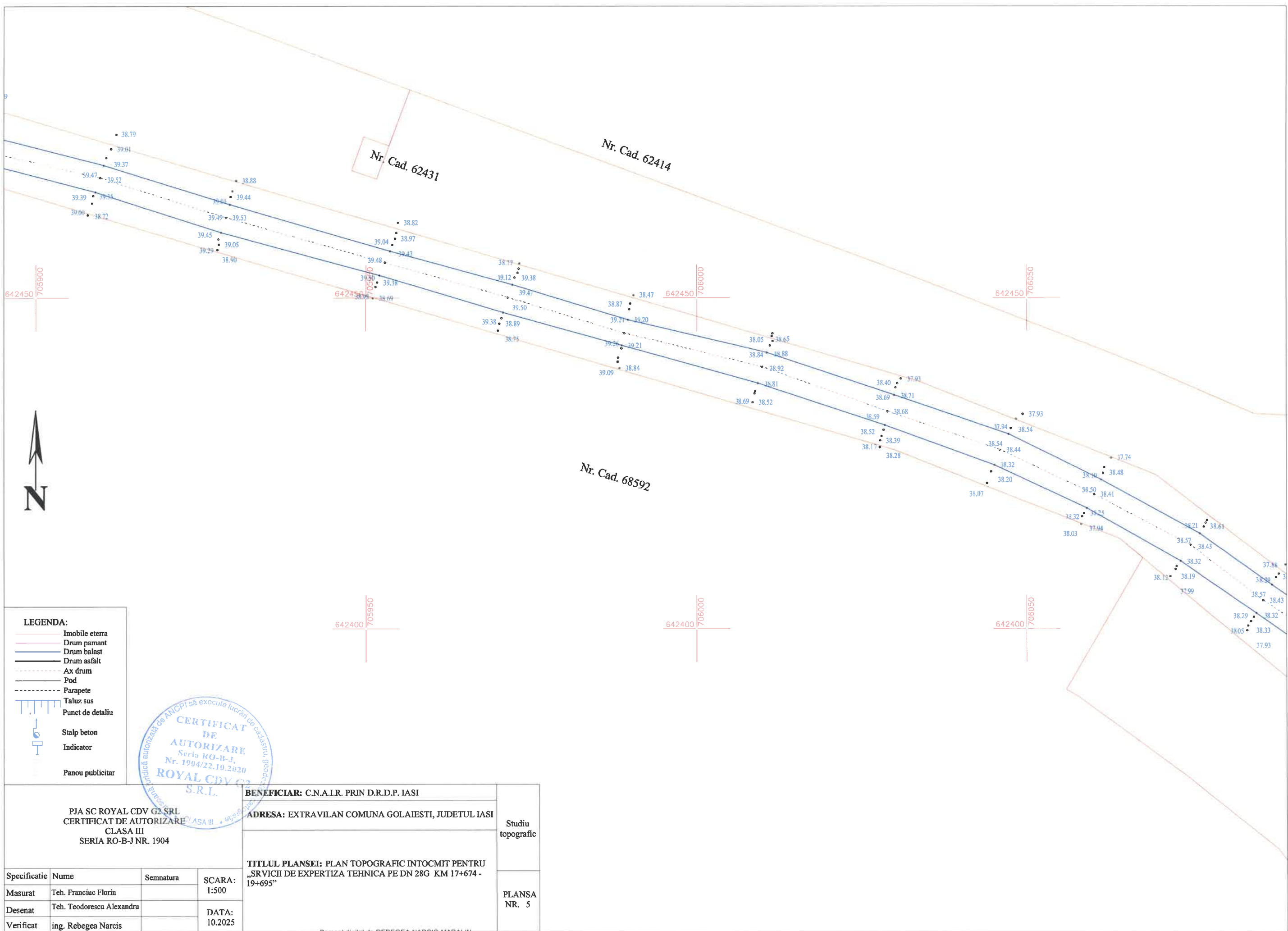
ADRESA: EXTRAVILAN COMUNA GOLIAESTI, JUDETUL IASI

Studiu
topografic

TITLUL PLANSEI: PLAN TOPOGRAFIC INTOCMIT PENTRU
„SRVICII DE EXPERTIZA TEHNICA PE DN 28G KM 17+674 -
19+695”

PLANSA
NR. 4

Specificatie	Nume	Semnatura	SCARA:
Masurat	Teh. Franciuc Florin		1:500
Desenat	Teh. Teodorescu Alexandru		DATA:
Verificat	ing. Rebegea Narcis		10.2025



LEGENDA:

- Imobile eterra
- Drum pamant
- Drum balast
- Drum asfalt
- Ax drum
- Pod
- Parapete
- Taluz sus
- Punct de detaliu
- Stalp beton
- Indicator
- Panou publicitar

PJA SC ROYAL CDV G2 SRL
CERTIFICAT DE AUTORIZARE
CLASA III
SERIA RO-B-J NR. 1904



BENEFICIAR: C.N.A.I.R. PRIN D.R.D.P. IASI

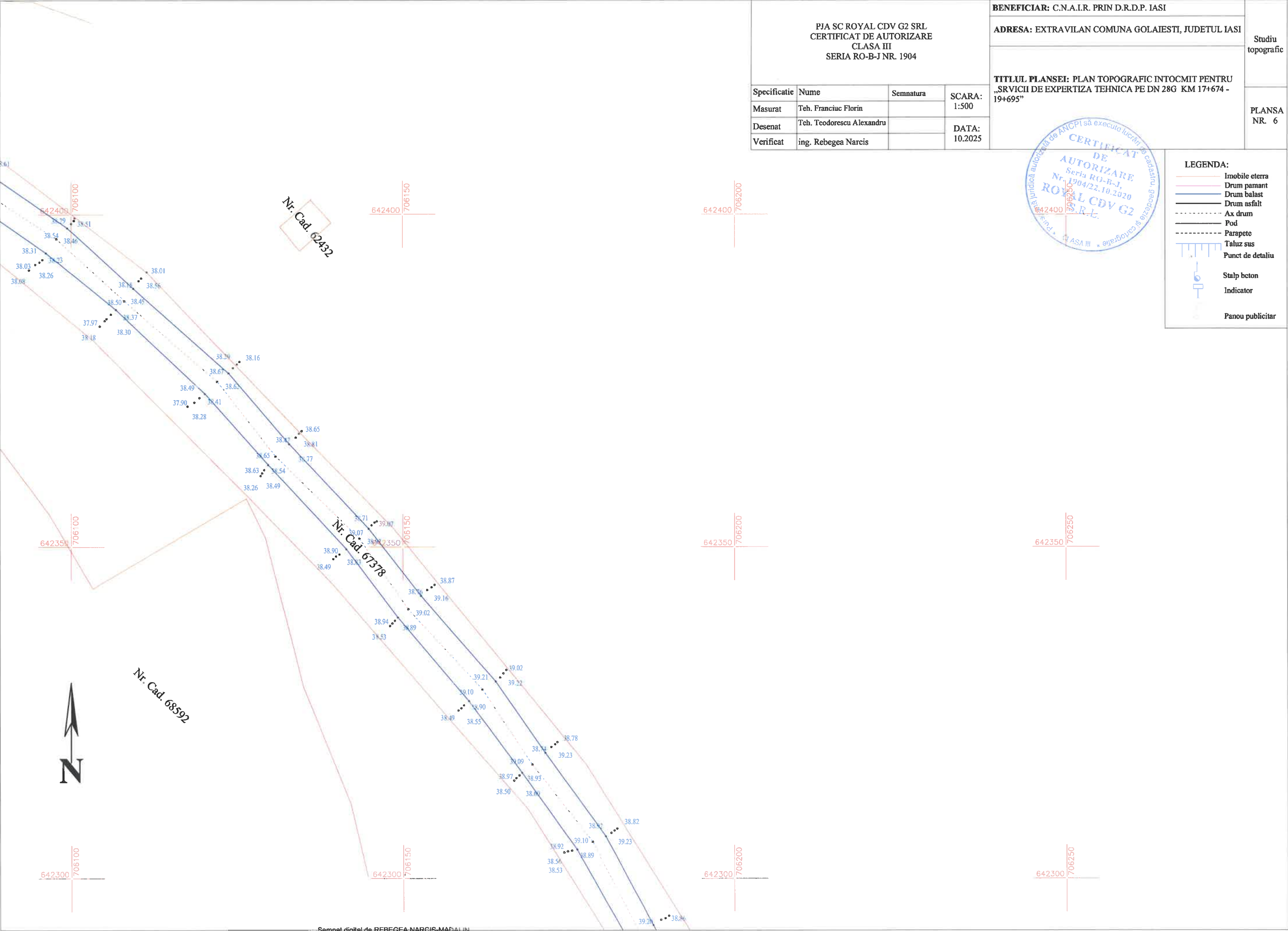
ADRESA: EXTRAVILAN COMUNA GOLAIESTI, JUDETUL IASI

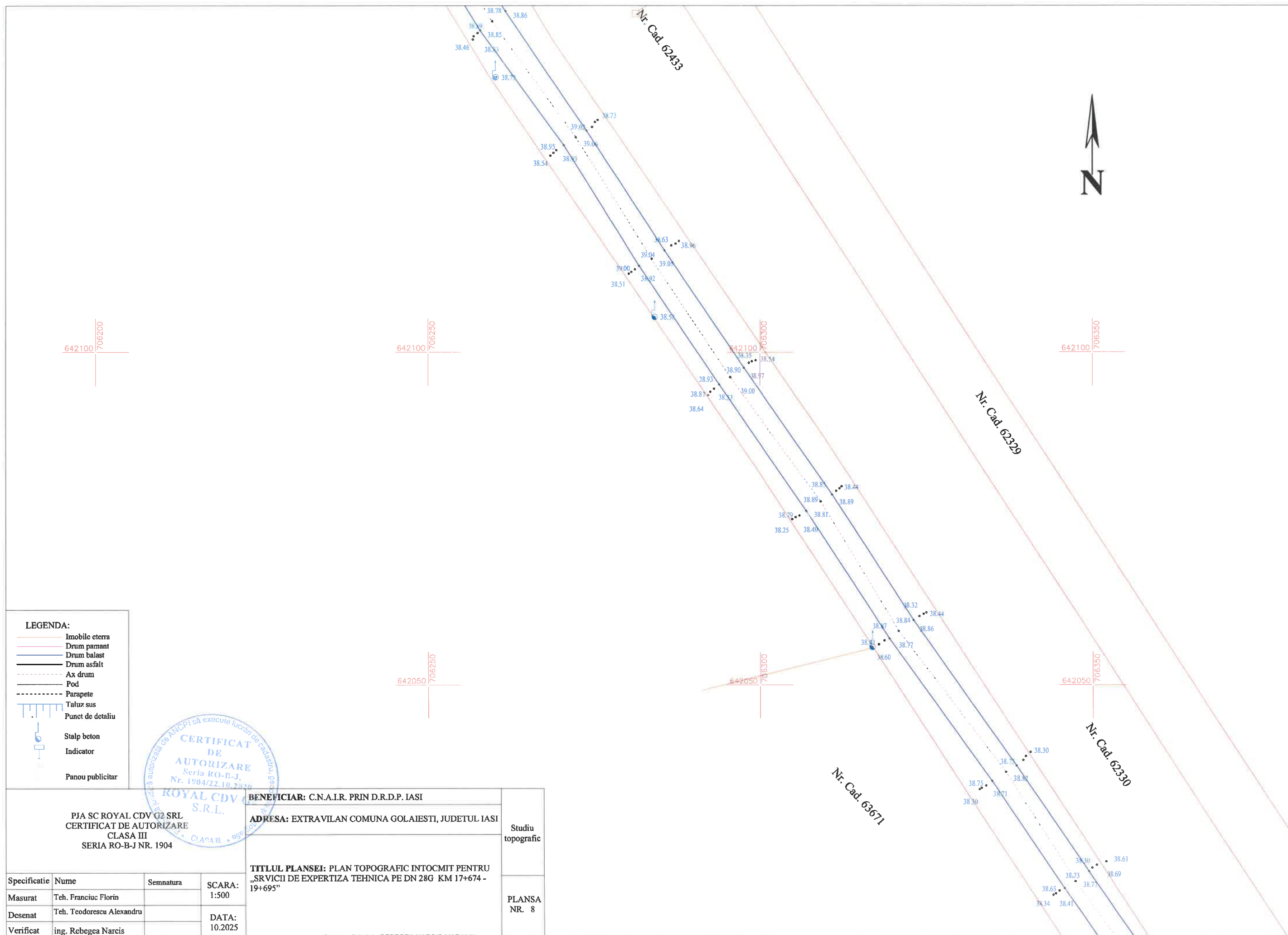
Studiu topografic

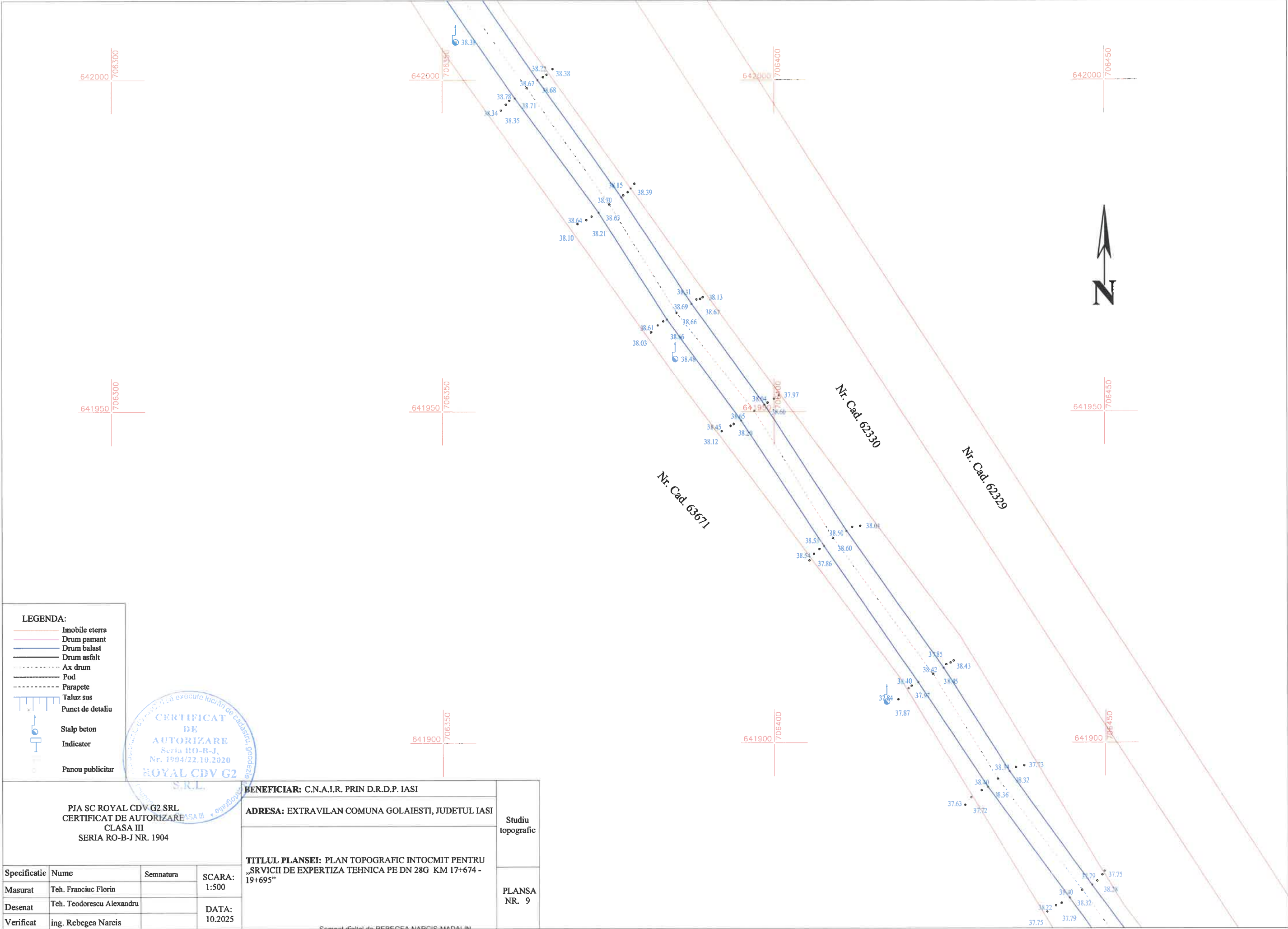
TITLUL PLANSEI: PLAN TOPOGRAFIC INTOCMIT PENTRU
„SRVICII DE EXPERTIZA TEHNICA PE DN 28G KM 17+674 - 19+695”

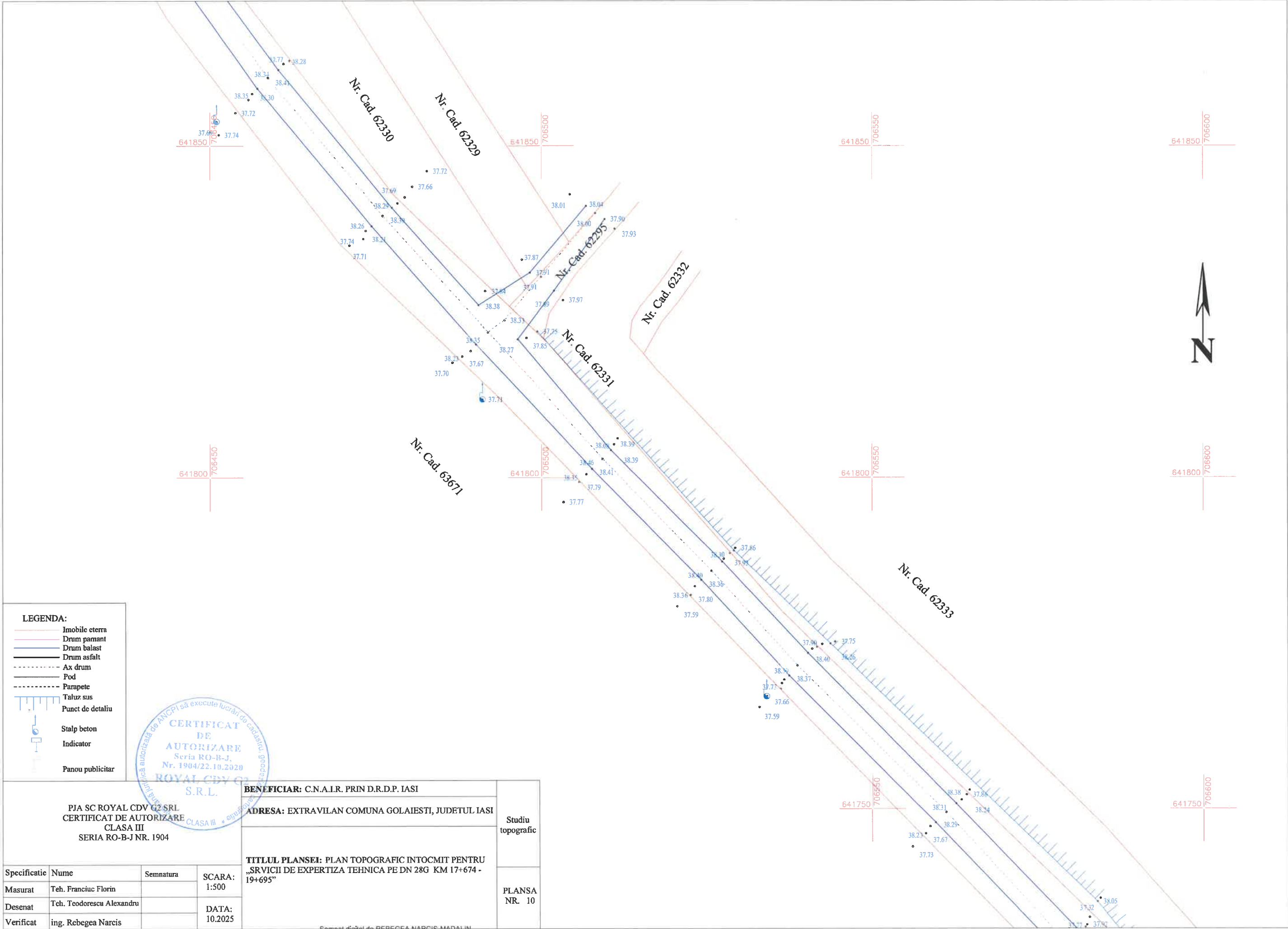
PLANSA NR. 5

Specificatie	Nume	Semnatura	SCARA:
Masurat	Teh. Franciuc Florin		1:500
Desenat	Teh. Teodorescu Alexandru		DATA:
Verificat	ing. Rebegea Narcis		10.2025







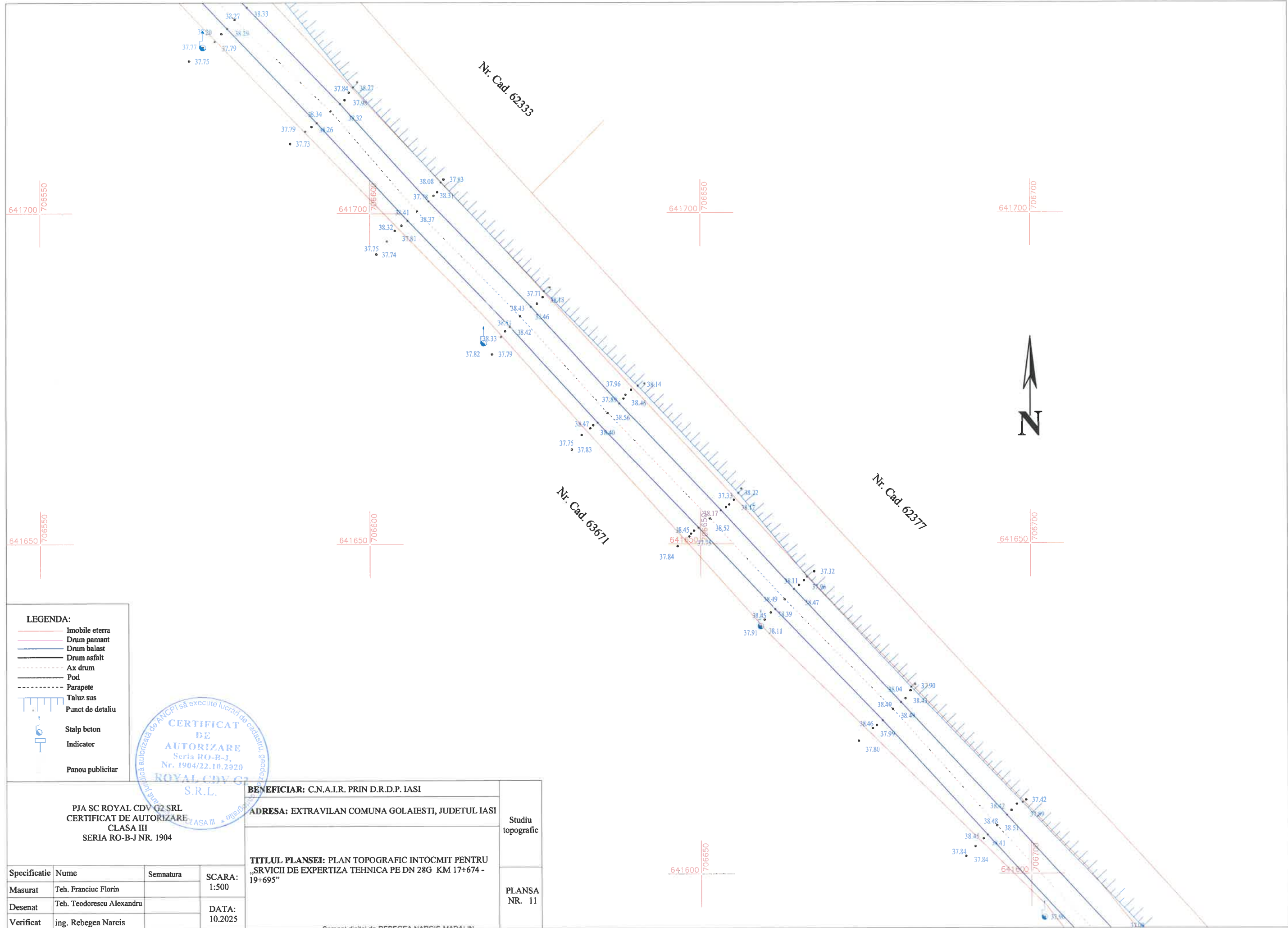


LEGENDA:

- Imobile eterra
- Drum pamant
- Drum balast
- Drum asfalt
- Ax drum
- Pod
- Parapete
- Taluz sus
- Punct de detaliu
- Stalp beton
- Indicator
- Panou publicitar

CERTIFICAT DE AUTORIZARE
Seria RO-B-J, Nr. 1904/22.10.2020
ROYAL CDV G2 S.R.L.

<div><div><div>PJA SC ROYAL CDV G2 SRL</div><div>CERTIFICAT DE AUTORIZARE</div><div>CLASA III</div><div>SERIA RO-B-J NR. 1904</div></div><div><div>S.R.L.</div><div>CLASA III</div><div>engleza</div></div></div>				<div>BENEFICIAR: C.N.A.I.R. PRIN D.R.D.P. IASI</div> <div>ADRESA: EXTRAVILAN COMUNA GOLAIESTI, JUDETUL IASI</div> <div>TITLUL PLANSEI: PLAN TOPOGRAFIC INTOCMIT PENTRU „SRVICII DE EXPERTIZA TEHNICA PE DN 28G KM 17+674 - 19+695”</div>		Studiu topografic
Specificatie	Nume	Semnatura	SCARA: 1:500	PLANSĂ NR. 10		
Masurat	Teh. Franciuc Florin					
Desenat	Teh. Teodorescu Alexandru		DATA: 10.2025			
Verificat	ing. Rebegea Narcis					



LEGENDA:

- Imobile eterra
- Drum pamant
- Drum balast
- Drum asfalt
- Ax drum
- Pod
- Parapete
- Taluz sus
- Punct de detaliu
- Stalp beton
- Indicator
- Panou publicitar



PIA SC ROYAL CDV G2 SRL
CERTIFICAT DE AUTORIZARE
CLASA III
SERIA RO-B-J NR. 1904

BENEFICIAR: C.N.A.I.R. PRIN D.R.D.P. IASI
ADRESA: EXTRAVILAN COMUNA GOLAIESTI, JUDETUL IASI

TITLUL PLANSEI: PLAN TOPOGRAFIC INTOCMIT PENTRU
„SRVICII DE EXPERTIZA TEHNICA PE DN 28G KM 17+674 -
19+695”

Specificatie	Nume	Semnatura	SCARA: 1:500
Masurat	Teh. Franciuc Florin		
Desenat	Teh. Teodorescu Alexandru		DATA: 10.2025
Verificat	ing. Rebegea Narcis		

Studiu
topografic

PLANS
NR. 11

