

TARTU GEODEESIA OÜ

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Töö: TG020

TARTUMAA

ELVA

KESK TN

TÄNAVAVALGUSTUSE

ELEKTRIKAABLI

JA MIKROTORUDE

TEOSTUSMÕÕDISTUS

GEODEETILISTE TÖÖDE

ARUANNE

TARTU 2019

SISUKORD

Töö: TG020

Sisukord

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GEODEETILISTE TÖÖDE SELETUSKIRI

MTR EEG000462

Töö nr: TG020

Üldosa:

Objekti asukoht: Tartumaa, Elva, Kesk tn

Objekti nimetus: Elva Linnakeskus

Tellija: Suja Ehitus OÜ

Vastutav täitja: Erki Runtal

Joonestaja: Erki Runtal

Mõõdistaja: Erki Runtal

Sidumine:

Horisontaalne ja vertikaalne sidumine

Horisontaalne sidumine: Trimble® VRS Now Eesti GNSS püsijaamade võrk
Vertikaalne sidumine: Kohaliku võrgu II järgu punktid 207, 337 ja 336.

Koordinaadid: L-Est'97 süsteemis.

Kõrgused: EH2000 süsteemis

Tööde kirjeldus:

Mõõdistamisvõrgu rajamine:

Mõõdistusvõrk rajati kasutades selleks kohaliku võrgu II järgu punkte 207, 337 ja 336

Mõõdistamine:

Mõõdistamine on teostatud GNSS ja tahhümeetrilisel meetodil. Tahhümeetriselt mõõdeti valgustikannude tsentrid ja kõrgused kannu peale. Elektri kaabli ja mikrotoitude mõõtmised teostati GNSS meetodil ja mõõtmised tehti maapinnale, mis oli teedehituse käigus kooritud ca 40-50 cm. Elektri kaablid ja mikrotoitud näidati ehitaja poolt kätte kaabliotsijaga k.a kaablite sügavused.

Tööde tegemisel lähtutud nõuetest:

Majandus- ja kommunikatsiooniministri 22.04.2016. a. määrus nr. 34 „Topo-geodeetilisele uuringule ja teostusmõõdistamisele esitatavad nõuded “

Katastri piirid:

Piirid saadud Maa-ametist 21.04.2019.a

Mõõdistamise täpsus:

Mõõdistatud punkti täpsus riigi põhivõrgu punkti suhtes GNSS meetodil + -30mm

Mõõdistatud punkti täpsus riigi põhivõrgu punkti suhtes tahhümeetrilisel meetodil meetodil + -3mm

Mõõdistamise meetod:

GNSS ja tahhümeetiline

Tööde tegemise periood:

Välitööde tegemise aeg: mai 2019. a.

Kameraaltööde tegemise aeg: mai 2019. a.

Kasutatud instrumendid:

1. SPECTRA SP60 GNSS/GPS mõõtekomplekti
2. Elektrontahhümeeter FOCUS 35 RX 3“
3. AutoCad 2018

/digitaalselt allkirjastatud/ Erki Runtal 30.05.2019 a.

ASUKOHA SKEEM

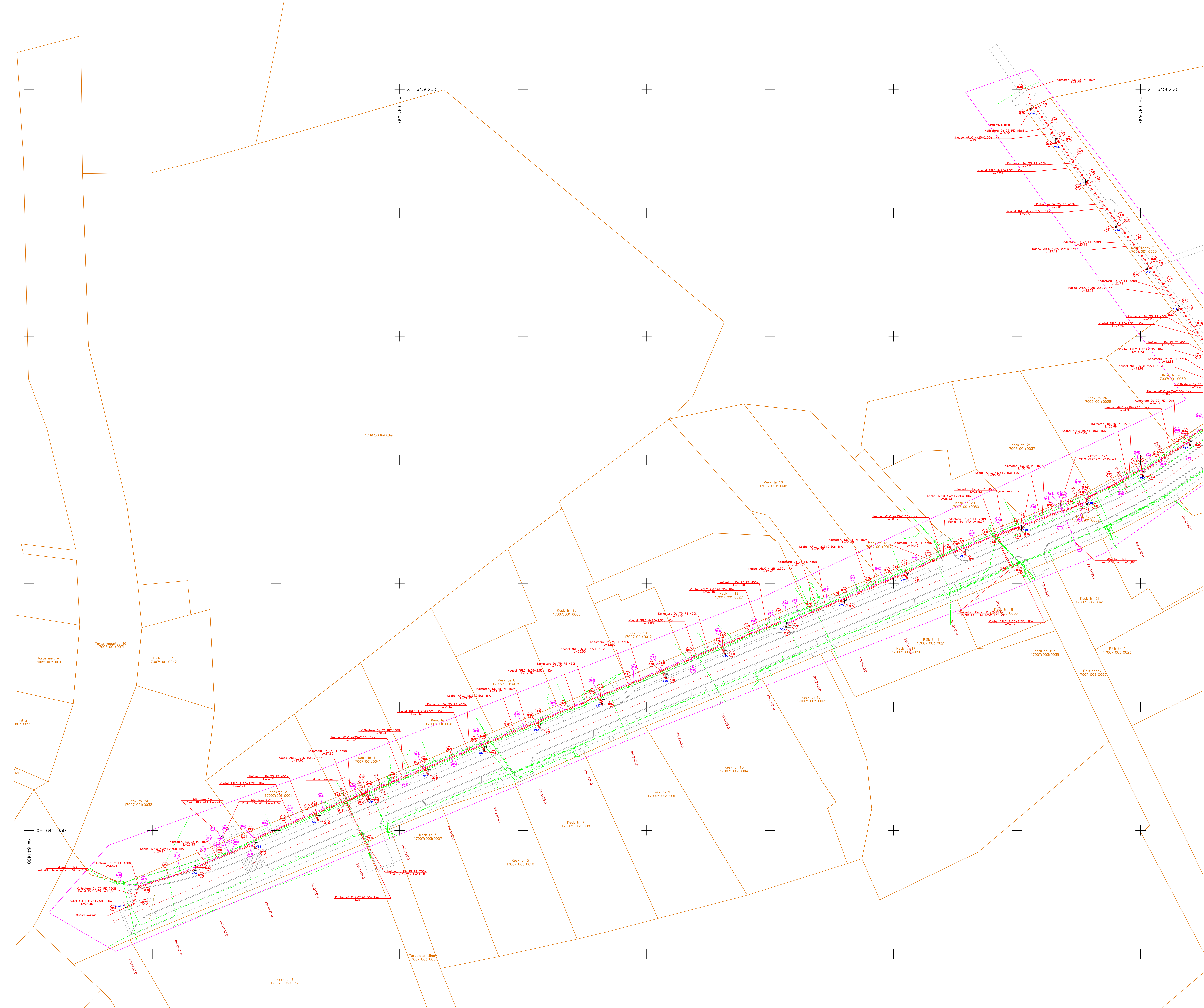
Töö: TG020

TARTUMAA

ELVA

KESK TN





Part 3. Vektorski izrazi izostrenosti					
Matematički izraz	W ₁	W ₂	W ₃	W ₄	W ₅ (Matemat. izraz)
301	54018320.046	542217.500	5441.8	54.8	
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303	54018320.046	542217.500	54.8	54.8	
304	54018320.046	542217.500	54.8	54.8	
305	54018320.046	542217.500	54.8	54.8	
306	54018320.046	542217.500	54.8	54.8	
307	54018320.046	542217.500	54.8	54.8	
308	54018320.046	542217.500	54.8	54.8	
309	54018320.046	542217.500	54.8	54.8	
310	54018320.046	542217.500	54.8	54.8	
311	54018320.046	54217.851	54.3	53.5	
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372	54018320.046	54217.851	54.3	53.5	
373	54018320.046	54217.851	54.3	53.5	
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404	54018320.046	54217.851	54.3	53.5	
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406	54018320.046	54217.851	54.3	53.5	
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408	54018320.046	54217.851	54.3	53.5	
409	54018320.046	54217.851	54.3	53.5	
410	54018320.046	54217.851	54.3	53.5	
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419	54018320.046	54217.851	54.3	53.5	
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439	54018320.046	54217.851	54.3	53.5	
440	54018320.046	54217.851	54.3	53.5	
441	54018320.046	54217.851	54.3	53.5	
442	54018320.046	54217.851	54.3	53.5	
443	54018320.046	54217.851	54.3	53.5	
444	54018320.046	54217.851	54.3	53.5	
445	54018320.046	54217.851	54.3	53.5	
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449	54018320.046	54217.851	54.3	53.5	
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451	54018320.046	54217.851	54.3	53.5	
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454	54018320.046	54217.851	54.3	53.5	
455	54018320.046	54217.851	54.3	53.5	
456	54018320.046	54217.851	54.3	53.5	
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458	54018320.046	54217.851	54.3	53.5	
459	54018320.046	54217.851	54.3	53.5	
460	54018320.046	54217.851	54.3	53.5	
461	54018320.046	54217.851	54.3	53.5	
462	54018320.046	54217.851	54.3	53.5	
463	54018320.046	54217.851	54.3	53.5	
464	54018320.046	54217.851	54.3	53.5	
465	54018320.046	54217.851	54.3	53.5	
466	54018320.046	54217.851	54.3	53.5	
467	54018320.046	54217.851	54.3	53.5	
468	54018320.046	54217.851	54.3	53.5	
469	54018320.046	54217.851	54.3	53.5	
470	54018320.046	54217.851	54.3	53.5	
471	54018320.046	54217.851	54.3	53.5	
472	54018320.046	54217.851	54.3	53.5	
473	54018320.046	54217.851	54.3	53.5	
474	54018320.046	54217.851	54.3	53.5	
475	54018320.046	54217.851	54.3	53.5	
476	54018320.046	54217.851	54.3	53.5	
477	54018320.046	54217.851	54.3	53.5	
478	54018320.046	54217.851	54.3	53.5	
479	54018320.046	54217.851	54.3	53.5	
480	54018320.046	54217.851	54.3	53.5	
481	54018320.046	54217.851	54.3	53.5	
482	54018320.046	54217.851	54.3	53.5	
483	54018320.046	54217.851	54.3	53.5	
484	54018320.046	54217.851	54.3	53.5	
485	54018320.046	54217.851	54.3	53.5	
486	54018320.046	54217.851	54.3	53.5	
487	54018320.046	54217.851	54.3	53.5	
488	54018320.046	54217.851	54.3	53.5	
489	54018320.046	54217.851			

Teostusjoonis koostatud osaliselt ehitaja ütluste järgi.
Maapinna kõrgused mõõdetud teedeehituse käigus (pinnas kooritud ca 40–50 cm).
Koordinaadid L-Est 97 süsteemis
Kõrgused EH2000 süsteemis

 **TARTU
GEODEESIA**

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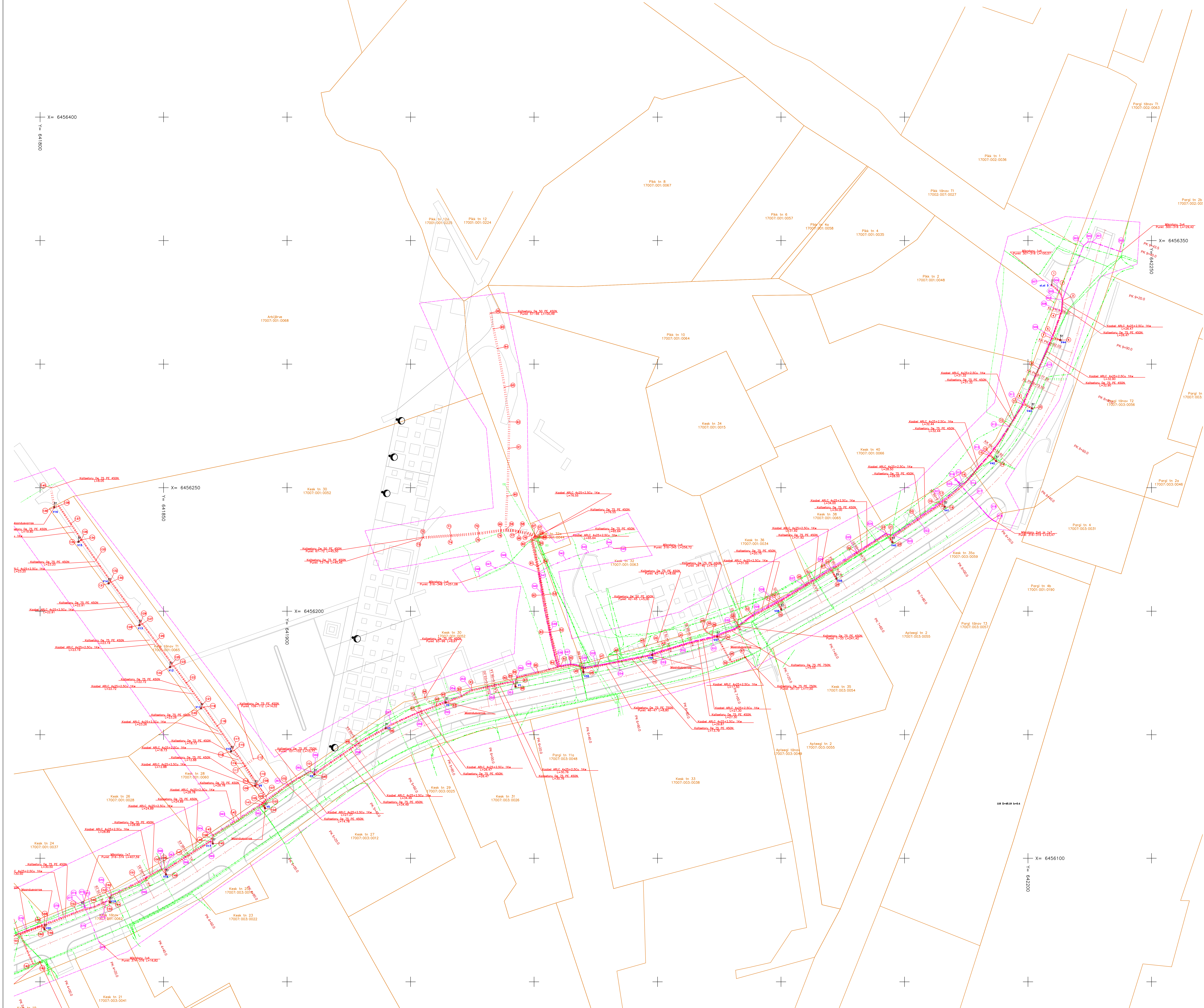


Table 1. <i>Meriones libanensis</i> isozyme profiles				
Point	Allele	Frequency	Number of individuals	% of Meriones (n=61)
1	100-05435.045	0.4217	258	4.21
2	100-05435.045	0.4217	258	4.21
3	100-05435.045	0.4217	258	4.21
4	100-05435.045	0.4217	258	4.21
5	100-05435.045	0.4217	258	4.21
6	100-05435.045	0.4217	258	4.21
7	100-05435.045	0.4217	258	4.21
8	100-05435.045	0.4217	258	4.21
9	100-05435.045	0.4217	258	4.21
10	100-05435.045	0.4217	258	4.21
11	100-05435.045	0.4217	258	4.21
12	100-05435.045	0.4217	258	4.21
13	100-05435.045	0.4217	258	4.21
14	100-05435.045	0.4217	258	4.21
15	100-05435.045	0.4217	258	4.21
16	100-05435.045	0.4217	258	4.21
17	100-05435.045	0.4217	258	4.21
18	100-05435.045	0.4217	258	4.21
19	100-05435.045	0.4217	258	4.21
20	100-05435.045	0.4217	258	4.21
21	100-05435.045	0.4217	258	4.21
22	100-05435.045	0.4217	258	4.21
23	100-05435.045	0.4217	258	4.21
24	100-05435.045	0.4217	258	4.21
25	100-05435.045	0.4217	258	4.21
26	100-05435.045	0.4217	258	4.21
27	100-05435.045	0.4217	258	4.21
28	100-05435.045	0.4217	258	4.21
29	100-05435.045	0.4217	258	4.21
30	100-05435.045	0.4217	258	4.21
31	100-05435.045	0.4217	258	4.21
32	100-05435.045	0.4217	258	4.21
33	100-05435.045	0.4217	258	4.21
34	100-05435.045	0.4217	258	4.21
35	100-05435.045	0.4217	258	4.21
36	100-05435.045	0.4217	258	4.21
37	100-05435.045	0.4217	258	4.21
38	100-05435.045	0.4217	258	4.21
39	100-05435.045	0.4217	258	4.21
40	100-05435.045	0.4217	258	4.21
41	100-05435.045	0.4217	258	4.21
42	100-05435.045	0.4217	258	4.21
43	100-05435.045	0.4217	258	4.21
44	100-05435.045	0.4217	258	4.21
45	100-05435.045	0.4217	258	4.21
46	100-05435.045	0.4217	258	4.21
47	100-05435.045	0.4217	258	4.21
48	100-05435.045	0.4217	258	4.21
49	100-05435.045	0.4217	258	4.21
50	100-05435.045	0.4217	258	4.21
51	100-05435.045	0.4217	258	4.21
52	100-05435.045	0.4217	258	4.21
53	100-05435.045	0.4217	258	4.21
54	100-05435.045	0.4217	258	4.21
55	100-05435.045	0.4217	258	4.21
56	100-05435.045	0.4217	258	4.21
57	100-05435.045	0.4217	258	4.21
58	100-05435.045	0.4217	258	4.21
59	100-05435.045	0.4217	258	4.21
60	100-05435.045	0.4217	258	4.21
61	100-05435.045	0.4217	258	4.21
62	100-05435.045	0.4217	258	4.21
63	100-05435.045	0.4217	258	4.21
64	100-05435.045	0.4217	258	4.21
65	100-05435.045	0.4217	258	4.21
66	100-05435.045	0.4217	258	4.21
67	100-05435.045	0.4217	258	4.21
68	100-05435.045	0.4217	258	4.21
69	100-05435.045	0.4217	258	4.21
70	100-05435.045	0.4217	258	4.21
71	100-05435.045	0.4217	258	4.21
72	100-05435.045	0.4217	258	4.21
73	100-05435.045	0.4217	258	4.21
74	100-05435.045	0.4217	258	4.21
75	100-05435.045	0.4217	258	4.21
76	100-05435.045	0.4217	258	4.21
77	100-05435.045	0.4217	258	4.21
78	100-05435.045	0.4217	258	4.21
79	100-05435.045	0.4217	258	4.21
80	100-05435.045	0.4217	258	4.21
81	100-05435.045	0.4217	258	4.21
82	100-05435.045	0.4217	258	4.21
83	100-05435.045	0.4217	258	4.21
84	100-05435.045	0.4217	258	4.21
85	100-05435.045	0.4217	258	4.21
86	100-05435.045	0.4217	258	4.21
87	100-05435.045	0.4217	258	4.21
88	100-05435.045	0.4217	258	4.21
89	100-05435.045	0.4217	258	4.21
90	100-05435.045	0.4217	258	4.21
91	100-05435.045	0.4217	258	4.21
92	100-05435.045	0.4217	258	4.21
93	100-05435.045	0.4217	258	4.21
94	100-05435.045	0.4217	258	4.21
95	100-05435.045	0.4217	258	4.21
96	100-05435.045	0.4217	258	4.21
97	100-05435.045	0.4217	258	4.21
98	100-05435.045	0.4217	258	4.21
99	100-05435.045	0.4217	258	4.21
100	100-05435.045	0.4217	258	4.21
Meriones 1 to 100				

Table 2. <i>Sagittularia striata</i> isozyme profiles				
Waystation	Allele	Frequency	Time	Temp
V1	100-05610.026	0.1619	20.0	25.0
V2	100-05610.026	0.1619	20.0	25.0
V3	100-05610.026	0.1619	20.0	25.0
V4	100-05610.026	0.1619	20.0	25.0
V5	100-05610.026	0.1619	20.0	25.0
V6	100-05610.026	0.1619	20.0	25.0
V7	100-05610.026	0.1619	20.0	25.0
V8	100-05610.026	0.1619	20.0	25.0
V9	100-05610.026	0.1619	20.0	25.0
V10	100-05610.026	0.1619	20.0	25.0
V11	100-05610.026	0.1619	20.0	25.0
V12	100-05610.026	0.1619	20.0	25.0
V13	100-05610.026	0.1619	20.0	25.0
V14	100-05610.026	0.1619	20.0	25.0
V15	100-05610.026	0.1619	20.0	25.0
V16	100-05610.026	0.1619	20.0	25.0
V17	100-05610.026	0.1619	20.0	25.0
V18	100-05610.026	0.1619	20.0	25.0
V19	100-05610.026	0.1619	20.0	25.0
V20	100-05610.026	0.1619	20.0	25.0
V21	100-05610.026	0.1619	20.0	25.0
V22	100-05610.026	0.1619	20.0	25.0
V23	100-05610.026	0.1619	20.0	25.0
V24	100-05610.026	0.1619	20.0	25.0
V25	100-05610.026	0.1619	20.0	25.0
V26	100-05610.026	0.1619	20.0	25.0
V27	100-05610.026	0.1619	20.0	25.0
V28	100-05610.026	0.1619	20.0	25.0
V29	100-05610.026	0.1619	20.0	25.0
V30	100-05610.026	0.1619	20.0	25.0
V31	100-05610.026	0.1619	20.0	25.0
V32	100-05610.026	0.1619	20.0	25.0
V33	100-05610.026	0.1619	20.0	25.0
V34	100-05610.026	0.1619	20.0	25.0
V35	100-05610.026	0.1619	20.0	25.0
V36	100-05610.026	0.1619	20.0	25.0
V37	100-05610.026	0.1619	20.0	25.0
V38	100-05610.026	0.1619	20.0	25.0
V39	100-05610.026	0.1619	20.0	25.0
V40	100-05610.026	0.1619	20.0	25.0
V41	100-05610.026	0.1619	20.0	25.0
V42	100-05610.026	0.1619	20.0	25.0
V43	100-05610.026	0.1619	20.0	25.0
V44	100-05610.026	0.1619	20.0	25.0
V45	100-05610.026	0.1619	20.0	25.0
V46	100-05610.026	0.1619	20.0	25.0
V47	100-05610.026	0.1619	20.0	25.0
V48	100-05610.026	0.1619	20.0	25.0
V49	100-05610.026	0.1619	20.0	25.0
V50	100-05610.026	0.1619	20.0	25.0
V51	100-05610.026	0.1619	20.0	25.0
V52	100-05610.026	0.1619	20.0	25.0
V53	100-05610.026	0.1619	20.0	25.0
V54	100-05610.026	0.1619	20.0	25.0
V55	100-05610.026	0.1619	20.0	25.0
V56	100-05610.026	0.1619	20.0	25.0
V57	100-05610.026	0.1619	20.0	25.0
V58	100-05610.026	0.1619	20.0	25.0
V59	100-05610.026	0.1619	20.0	25.0
V60	100-05610.026	0.1619	20.0	25.0
V61	100-05610.026	0.1619	20.0	25.0
V62	100-05610.026	0.1619	20.0	25.0
V63	100-05610.026	0.1619	20.0	25.0
V64	100-05610.026	0.1619	20.0	25.0
V65	100-05610.026	0.1619	20.0	25.0
V66	100-05610.026	0.1619	20.0	25.0
V67	100-05610.026	0.1619	20.0	25.0
V68	100-05610.026	0.1619	20.0	25.0
V69	100-05610.026	0.1619	20.0	25.0
V70	100-05610.026	0.1619	20.0	25.0
V71	100-05610.026	0.1619	20.0	25.0
V72	100-05610.026	0.1619	20.0	25.0
V73	100-05610.026	0.1619	20.0	25.0
V74	100-05610.026	0.1619	20.0	25.0
V75	100-05610.026	0.1619	20.0	25.0
V76	100-05610.026	0.1619	20.0	25.0
V77	100-05610.026	0.1619	20.0	25.0
V78	100-05610.026	0.1619	20.0	25.0
V79	100-05610.026	0.1619	20.0	25.0
V80	100-05610.026	0.1619	20.0	25.0
V81	100-05610.026	0.1619	20.0	25.0
V82	100-05610.026	0.1619	20.0	25.0
V83	100-05610.026	0.1619	20.0	25.0
V84	100-05610.026	0.1619	20.0	25.0
V85	100-05610.026	0.1619	20.0	25.0
V86	100-05610.026	0.1619	20.0	25.0
V87	100-05610.026	0.1619	20.0	25.0
V88	100-05610.026	0.1619	20.0	25.0
V89	100-05610.026	0.1619	20.0	25.0
V90	100-05610.026	0.1619	20.0	25.0
V91	100-05610.026	0.1619	20.0	25.0
V92	100-05610.026	0.1619	20.0	25.0
V93	100-05610.026	0.1619	20.0	25.0
V94	100-05610.026	0.1619	20.0	25.0
V95	100-05610.026	0.1619	20.0	25.0
V96	100-05610.026	0.1619	20.0	25.0
V97	100-05610.026	0.1619	20.0	25.0
V98	100-05610.026	0.1619	20.0	25.0
V99	100-05610.026	0.1619	20.0	25.0
V100	100-05610.026	0.1619	20.0	25.0

TG020		TARTUMAA ELVA KESK TN		2019		 TAR BEDI
				M = 1 : 500		
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MTR EG000462				Leht 1 Lehti 2		