

RELACION TEKNIK

**STUDIM PROJEKTIM PER OBJEKTIN:
SISTEMIM ASFALTIM I RRUGES SE FSHATIT
KOKREVE FAZA-I, NJESIA ADMINISTRATIVE
HOTOLISHT, L=2 700ml
BASHKIA LIBRAZHD**

PROJEKT ZBATIMI

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*** Tirane 2022 ***

1. GJENDJA EKZISTUESE

Fshati Kokreve ben pjese ne Njesine Administrative Hotolish ,Bashkia Librazhd. Ky fshat shtrihet ne veri-lindje te qytetit Librazhd rreth 9.8km larg qendres se qytetit .

Ky projekt perfshin sistemimin dhe asfaltimin e rruges se fshatit Kokreve nga rruga nacionale LIBRAZHD - KORCE (nenkalimi i hekurudhes) deri ne progresiven CS107 +2 700.00 ml. Gjatesia totale e rruges eshte 2 700 ml me gjeresi asfaltike B=4m

Horografia e pergjithshme e zones

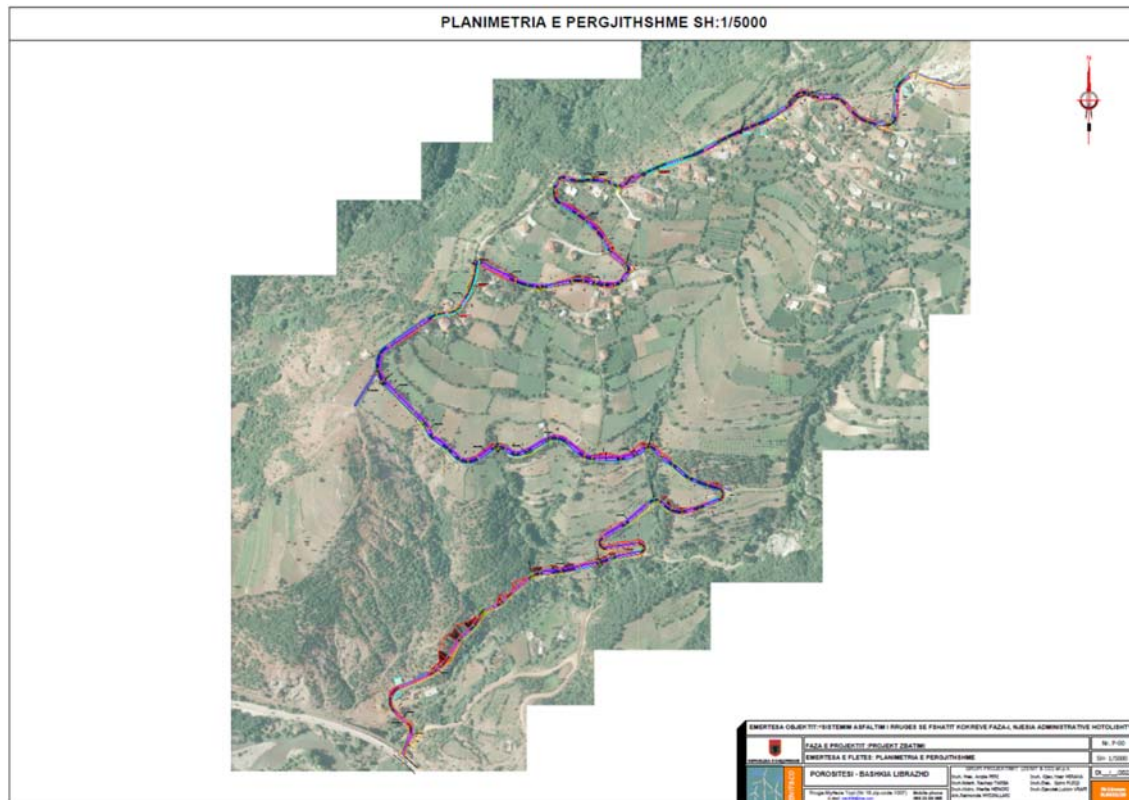
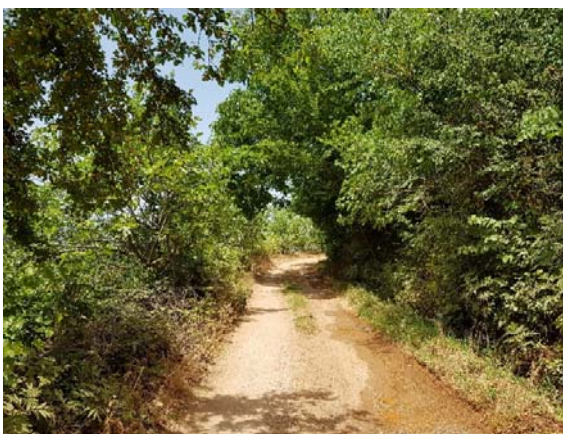


FOTO TE GJENDJES EKZISTUESE





2. OBJEKTIVAT E PROJEKTIT

Klasifikimi i terrenit eshte variable pergjate rruges duke qene midis terrenit kodrinore dhe terreneve malore.

Duke patur parasysh projektimin gjeometrik te rruges rruga do te kete nje gjeresi prej 4 m me bankine 0.5 m ne nje ane dhe kunete betoni 0.5m ne anen tjeter.

Qellimi i pergjithshem i projektuesit ishte te permiresonte rrugen, gjurmen ekzistuese te rruges duke minimizuar shpronasimet dhe ndikimet e mundshme, dhe ne fakt jane propozuar rregullime te vogla te gjeometrise horizontale dhe asaj vertikale.

Persa i perket niveletes vertikale pjerresia eshte pothuajse e njejte me pjerrtine e rruges ekzistuese.

Nderhyrjet e projektit: konsistojne ne rikonstruksionin, zgjerimin dhe sistemimin e rruges ne fjale.

Zgjerimet konsistojne kryesisht ne hapjen dhe sistemimin e skarpatave, pasi rruga ekzistuese paraqitet teper e ngushte.

Nderhyrja ne skarpata ben qe shumica e mureve te parashikuara ne kete projekt te jene mure prites me lartesi qe varion nga 1m deri ne 2m lartesi.

Jane parashikuar nderhyrje te cilat konsistojne ne:

- Sistemimin e ujrave te shiut sipas nje rrjeti te mirepercaktuar me vepra arti ,kanale dhe tombino te cilat shmangin permbytjen e rruges si dhe mbrojne rrugen nga gerryerja apo shkarjet.
- Mbrojtjen e rruges me mure betoni kryesisht mure prites per shkak te zgjerimit te skarpatave ,por edhe mure betoni mbajtes.
- Kanali anesore eshte i veshur me beton dhe i pranishem pothuajse gjate gjithe gjatesise se rruges ,kjo pasi rruga eshte rruge malore me prani te madhe te perrenjve dhe lugjeve te cilat sjellin sasi te konsiderueshme ujrash.
- Tombinot jane vendosur duke patur parasysh sasine e ujrave qe do te kaloje ne to dhe terrenit ku ato do te shkarkojne.

Parametrat gjeometrike te rruges do jene:

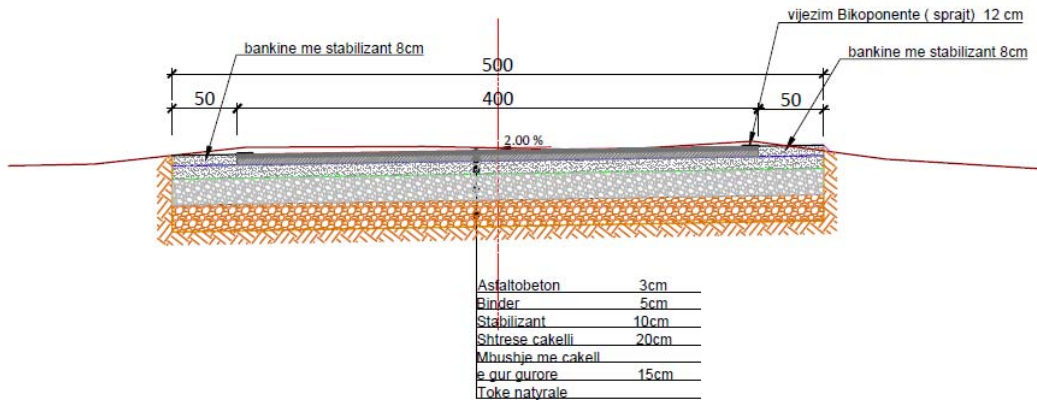
- ✓ *Gjatesia totale e rruges $L=2\ 700\ m$*
- ✓ *Gjeresia e pjeses kaluese $B=4m$*
- ✓ *Gjeresia e pergjithshme e kurores se rruges 5 m.*
- ✓ *Pjerresia gjatesore 0.1-15.9%.*

Paketa e shtresave rrugore, referuar gjendjes se shtresave dhe nenshtresave te tyre do jete:

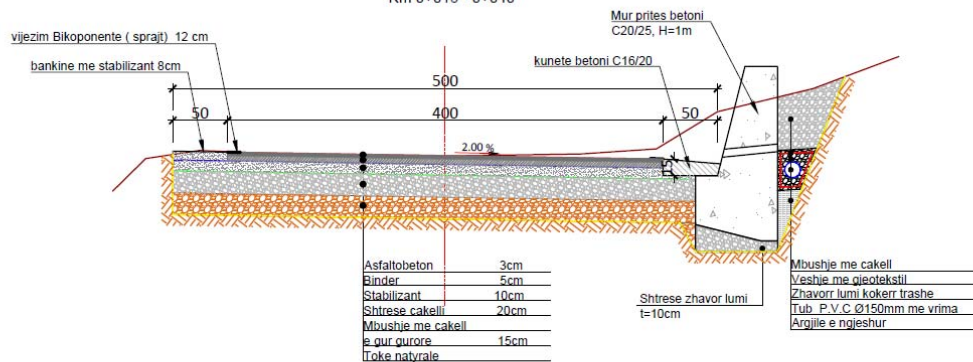
- ✓ *Tapet- 3cm ;*
- ✓ *Binder 5cm;*
- ✓ *Stabilizant 10cm;*
- ✓ *Cakell 20cm;*
- ✓ *Shtrese cakelli 15cm*

Tipet e profilave terthore jane si me poshte:

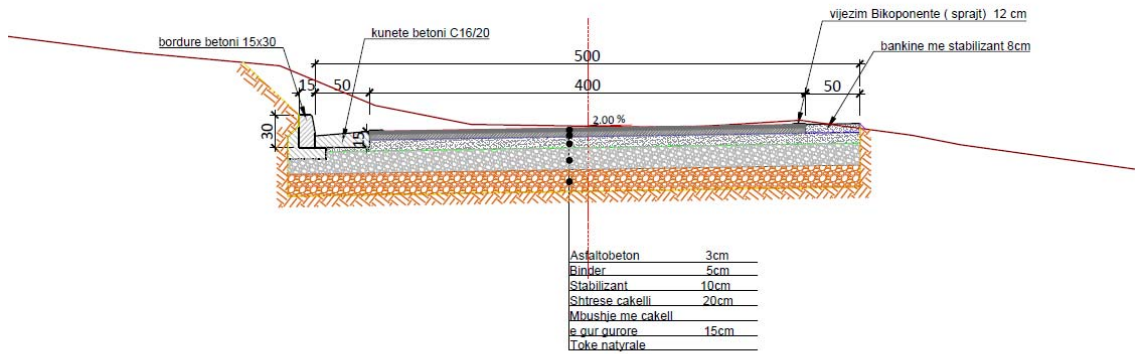
Profil Tip 1
Km 0+000 - 0+016
Km 0+040 - 0+125



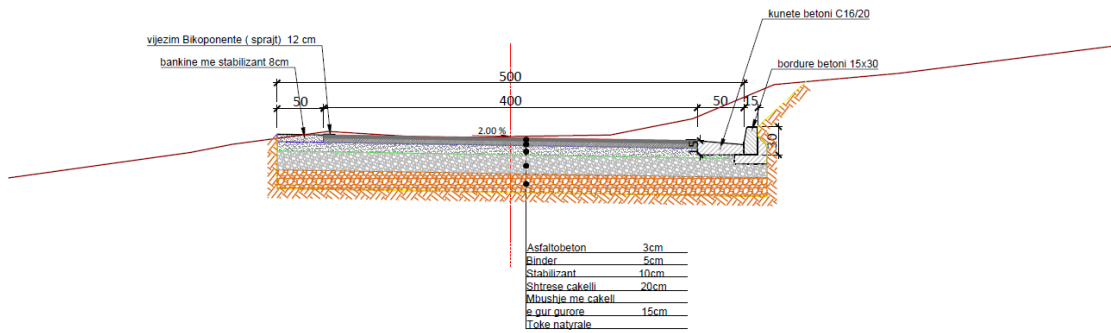
Profil Tip 2
Km 0+016 - 0+040



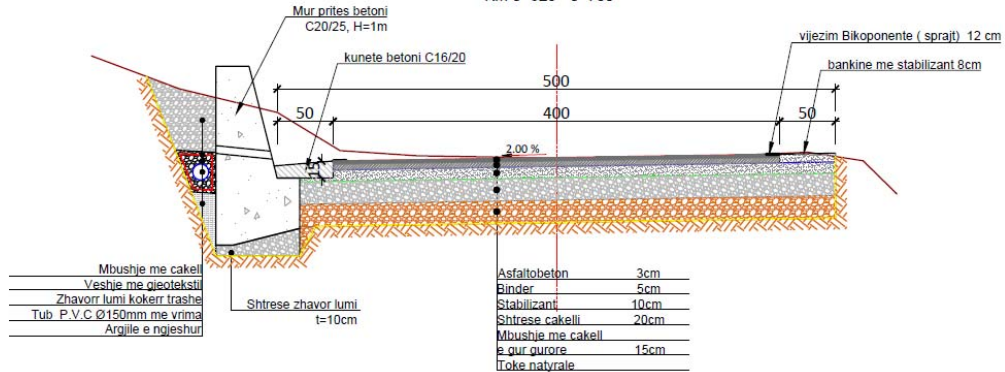
Profil Tip 3
 Km 0+125 - 0+550
 Km 0+700 - 0+825

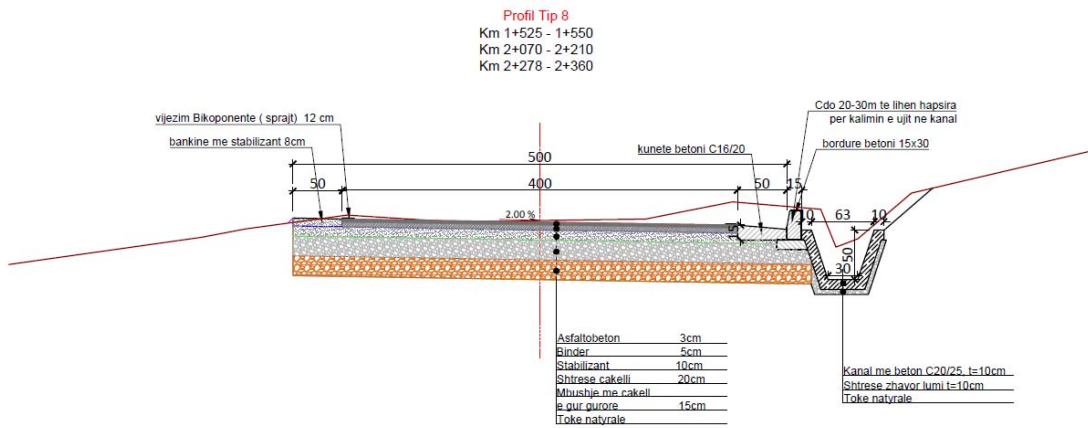
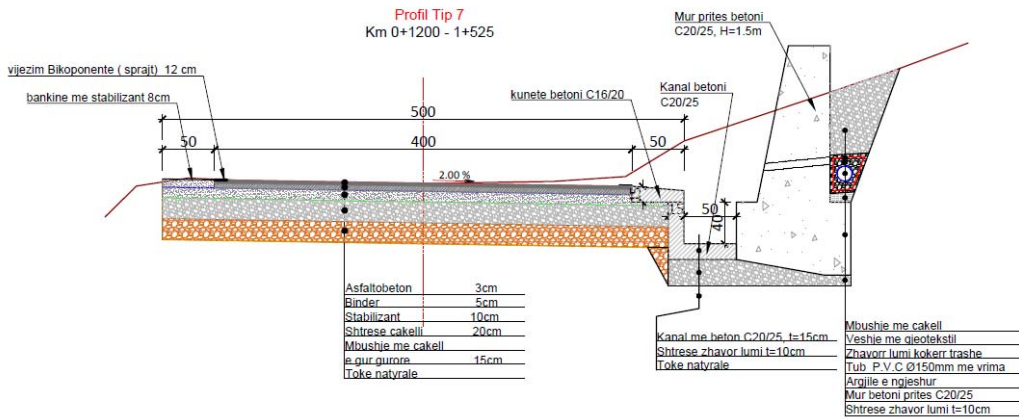
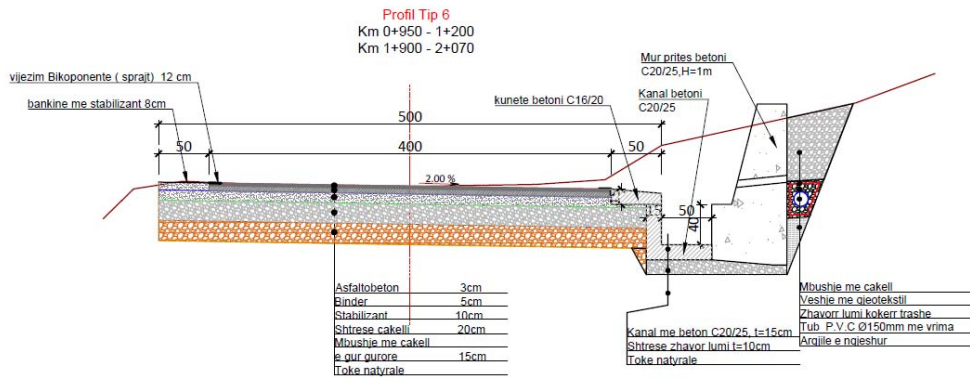


Profil Tip 4
 Km 0+550 - 0+625
 Km 0+825 - 0+950
 Km 2+360 - 2+690



Profil Tip 5
 Km 0+625 - 0+700





3. KLIMA DHE HIDROLOGJIA

3.1 Pershkrimi i Projektit

Grupi i projektimit do të verifikojë nese eshte arritur siguria për rrugën dhe për përdoruesit në rastin e përmytjeve të rënda. Kjo nënkupton vlerësimin e ekzistences se studimit te përmytjeve, nga studimi hidrologjik dhe, me pas, te projektohen strukturat e drenazhit që mund të përballojnë shkarkimin .

Studimi eshte bere ne perputhje me **"Manualin per Projektimin e Rrugeve Shqiptare MPRrSh4,MPRrSh5.1"** dhe manuale te tjera te standardeve te projektimit te rrugeve.

3.2 Klima

Klima e zones eshte klime tipike mesdhetare. Periudha e veres eshte me e ngrohte ne kete zone.

Rreshjet vjetore jane afersisht 900 mm ne rreth 134 dite. Muajt Qershor, Korrik, Gusht dhe Mars perfshijne rreth 17% te rreshjeve totale vjetore.

Temperaturat mesatare mujore dhe te dhenat e rreshjeve nga stacioni pluviometrik i Elbasanit jane paraqitur ne tabelat e figurat e meposhtme.

Tabela1 Rreshjet Mujore te Stacionit te Elbasanit

Muaji	Jan	Shk	Mar	Pri	Maj	Qer	Kor	Gus	Sht	Tet	Nen	Dhj	Vjetore
Precipitimi (mm)	75	105	99	75	48	48	18	36	69	75	129	87	864
Precipitimi mesatar	12	13	14	13	13	11	6	7	7	11	13	14	134

Source: worldweatheronline

Figura1 Grafiku i Rreshjeve Mujore te Stacionit te Elbasanit

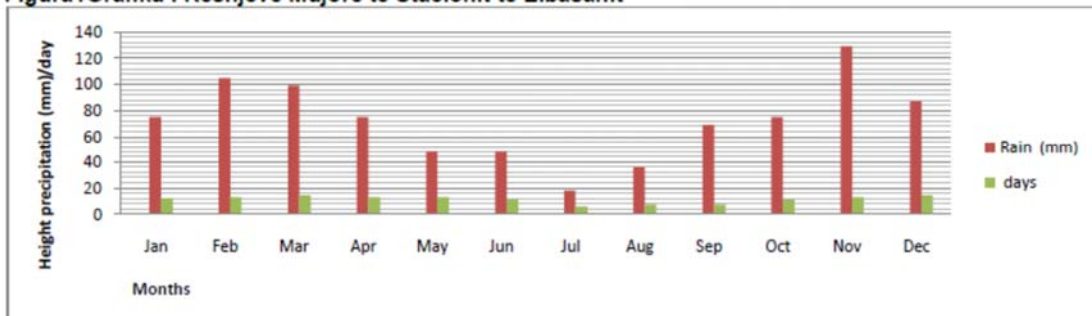
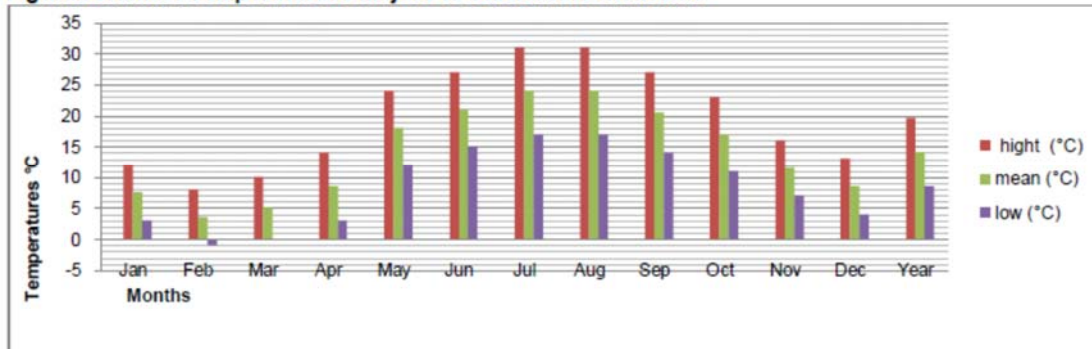


Tabela 2 Temperaturat Mujore te Stacionit te Elbasanit

Muaji	Jan	Shk	Mar	Pri	Maj	Qer	Kor	Gus	Sht	Tet	Nen	Dhj	Vjetore
Mes Temp Larte (°C)	12.0	8.0	10.0	14.0	24.0	27.0	31.0	31.0	27.0	23.0	16.0	13.0	19.7
Mes Temp Norm (°C)	7.5	3.5	5.0	8.5	18.0	21.0	24.0	24.0	20.5	17.0	11.5	8.5	14.1
Mes Temp Ulet (°C)	3.0	-1.0	0.0	3.0	12.0	15.0	17.0	17.0	14.0	11.0	7.0	4.0	8.5

Source: worldweatheronline

Figura2Grafiku i Temperaturave Mujore te Stacionit te Elbasanit



Temperaturat mesatare maksimale eshte 31°C ne muajt Korrik dhe Gusht, minimumi bie ne -1°C ne muajin Shkurt.

4. POPULLSIA DHE INFRASTRUKTURA

Fshati Kokreve ka nje popullsi prej rreth 850 banore. Popullsia në këtë zonë është popullsi autoktone e një zone rurale në zhvillim. Deri më sot ne kete fshat janë bërë investime jo te mjaftueshme në infrastrukturë prandaj sistemimi dhe asfaltimi i kesaj rruge eshte i domosdoshem per kete zone.

Me ndertimin e kesaj rruge kjo zone do te kete mundesi te promovojë prodhimet e saj bujqesore dhe blektoriale , duke qene e baraslarguar edhe me qytetin e Prrenjasis , kjo zone mund te perdore kete te fundit per shitjen e prodhimeve bujqesore dhe blektorale.

Natyrë e qete dhe piktoreske do te terhiqte nje numer te madh pushuesish jo vetem shqiptare por edhe te huaj te cilet vitet e fundit e frekuentojne shpesh kete zone. Te gjitha keto do te ndikonin ne rritjen e te ardhurave dhe mireqenien e kesaj zone.

5. STRUKTURAT E DRENAZHIT

Ne rrugen ekzistuese mungon nje sistem racional drenazhimi. Rrjedhjet e ujrave nuk kalojne ne linjat e drenazhin por shperndahen ne rruge duke shkaktuar demtim te rruges dhe ne disa raste edhe shkarje te saj . Tombinot ekzistuese jane me diameter te vogel dhe nuk perballojne prurjet , ne shumice e rasteve keto tombino nuk kane portale hyrje dalje dhe jane te mbushura me dhera per arsye te vendosjes se tyre pa nje projekt konkret.

Ne projekt jane percaktuar vendosja e veprave te artit, tombino rrethore, veshje kanali me beton ,portale etj.

5.1 Vlersimi i rrjedhjes per intersektimin me rrugen

Sasia e ujit qe do te drenazhohet per meter linear te rruges llogaritet nepermjet formules:

$$Q = \Sigma(C * A) * i$$

ku :

- Q = shkarkimi ne m³/s;
- C = koeficienti i rrjedhjes;

- A = brez me gjatesi l = 1m me nje gjeresi prej:
- l = 200m per toke natyrale, shume njesi te bashkuara (C = 0.20);
- l = 5.00 m hapësira e sipërfaqes se rruges (Kr = 0.85) ;
- i = intensiteti i reshjeve te shiut per interval perseritjeje prej 10 vitesh dhe kohezgjatje te stuhise (tc) 10 minuta (113 mm/h) per rrjedhjen e mbledhur nga ana e sipërme e drenazhit dhe prej 5 minutash (160 mm/h) per ato te kunetave

Te dhenat njesi per shkarkimin jane

- 1.53 l/m per rrjedhje te sipërme, duke mbledhur 200 mts gjersi baseni duke futur ketu edhe gjersine e rruges.
- 0.22 l/m per kuneta.

5.2 Projektimi Hidraulik i Tombinove

Kapaciteti hidraulik i nje tombinoje eshte llogaritur nga ekuacioni i energjise potenciale. Teorema e Bernulit pohon se prurja totale ne seksionin e fillimit eshte e barabarte me prurjen hidraulike te seksionit te poshtem plus humbjet e presionit te perqendruara ose te shperndara pergjate tombinos:

$$H_m = H_v + \Delta H$$

Ku:

- H_m = Prurja totale e rrjedhjes se sipërme
- H_v = Prurja totale e rrjedhjes se poshteme
- ΔH = Humbjet midis seksioneve

Duke zhvilluar ekuacionin e mesiperm, mund te shkruajme:

$$\Delta h = \Delta y + \Delta z = \frac{Q^2}{2gA^2} \left(K_e + L \frac{2g}{R^{4/3} K^2} + 1 \right)$$

ku:

- Δh = diferenca ndermjet sipërfaqes se ujit dhe nivelit te poshtem te kanalit, ne m ;
- Δy = diferenca ndermjet sipërfaqes se ujit se sipërme dhe te poshtme, ne m;
- Δz = diferenca ndermjet kuotes se poshtme te kanalit midis dy seksioneve, ne m ($\Delta z = iL$) ;
- Q = prurja m³/s ;
- g = nxitimi i renies se lire ne m/s² ;
- A = sipërfaqe e lagies ne m²;
- R = rrezja hidraulike in m;
- K = Koeficienti i ferkimit se ashpersise se Gauckler-Strickler, qe i korrespondon kefcientit te ashpersise Manining $n = 0,015$;
- $K_e = 0,50$ humbje prurjes se perqendruar ne grykederdhjen e tombinos per $V=0$ dhe $0,60$ per $V>0$
- L = gjatesia e tombinos, m.

5.3 Drenazhimi Anesor

Per kanalizimet gjatesore te rruges, jane parashikuar strukturat e meposhtme:
Kapaciteti hidraulik i kanalit trapezoidal jepet nga:

$$V = (1.49/n)R^{2/3}S^{1/2}$$

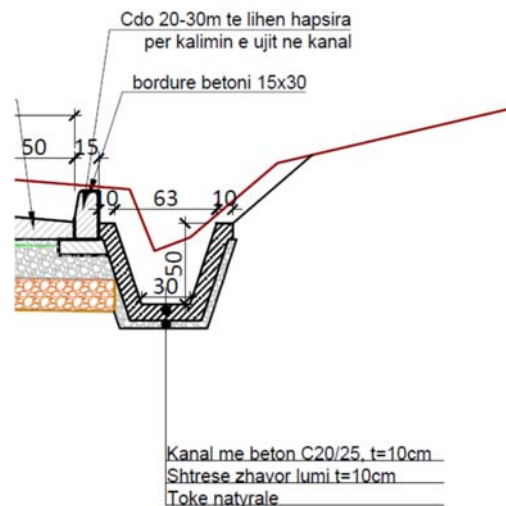
Ku:

- **v**= shpejtesia (m/s)
- **n**= koeficienti Manning e ashpersise se kanalit:
 - . 0.03 per kanalin e betonit
 - . 0.06 per kanalin trapezoidal
- **S**= pjerresia e vijes se energjise (m/m)
- **R**= Rrezja Hidraulike = **A/P**

ku:

- . **A**= siperfaqja e seksionit terthor te ujit
 - . **P**= perimetri i lagur
- Shpejtesia e rrjedhjes per kanalet e dheut varion midis 0.66 dhe 3.69m/s per kanale trapezoidale 0.50/1.00x0.50 dhe midis 1.05 dhe 5.86m/s.

Kanali anesore



6. STUDIMI TOPOGRAFIK

6.1 Hyrje

Ne kete kapitull jane pershkruar te gjitha punimet topogjeodezike te kryera ne interes te pergatitjes se projektit per sistemimin e rruges se fahatit Kokreve. Keto punime kane filluar me ndertimin e nje bazamenti Gjeodezik ne plan dhe ne lartesi, i cili do te sherbeje per te mbeshtetur rilevimin topografik te zones, per studimin, projektimin dhe zbatimin e punimeve te ndertimit te kesaj rruge.

Rruga e projektuar fillon ne nenkalimin e hekurudhes rreth 9.8km larg qytetit te Librazhdit ne aksin Librazhd – Korce dhe perfundon ne qender te fshatit Kokreve. Ne kete segment ajo arrin gjatesine prej 4 960 m.

Ky material perfshin te dhenat e rrjetit mbeshtetes, metodat e aplikuara te matjeve si dhe tipet e instrumentave qe jane perdorur.

Rilevimi eshte kryer nga shoqeria, ZENIT&CO, dhe gjate ndertimit te bazamentit Gjeodezik dhe rilevimit te zones eshte perdorur marres GNSS (GPS) dhe Total Station.

Procedura standarte e studimit qe u ndoq, konsiston ne vendosjen me pare te Bazes ne nje pike referimi te rrjetit dhe me pas dy skuadra te vecanta do te fillojne te punojne ne te dy drejtimet. Te dhenat rregjistrohen ne memorien e instrumentit dhe me pas shkarkohen cdo dite nepermjet programit per tu perpunuar. Nepermjet vleresimit te pare te te dhenave, ne rast te ndonje gabim te mundshem do te riperseritet studimi.

Ne rajonin e dhene eshte ndertuar rrjeti gjeodezik shteteror nga Instituti Topografik i Ushtrise nga viti 1970 - 1985. Gabimi i pergjithshem i percaktimit te pozicionit te pikave te ketij rrjeti eshte $MT=\pm 0.12m$.

Kete gabim te rrjetit ekzistues Shteteror ne do ta mbartim vetem ne nje pike te bazamentit tone, pasi edhe origjina e matjeve per studimin tone eshte mbeshtetur ne nje pike te rendit te dyte (1735.7 m) te rrjetit te triangolacionit shteterore e cila ndodhej ne mesin e segmentit tone dhe ne nje distance rreth 500 ml (vije ajrore) nga brezi i mare ne studim.

Gjate rikonicionit fushore para zhvillimit te matjeve eshte vertetuar ekzistenca e kesaj pike Triangolacioni.

Metoda e perdorur per lidhjen e bazamentit gjeodezik te ndertuar pergjate ketij segmenti ishte ajo direkte, pasi ne piken e rendit e dyte ne vendosem marresin GNSS, dhe u vazhdua me matjen e pikave te rrjetit te ndertuar ne objekt.

Pas transformimit te koordinatave (planimetrike dhe naltimetrike) ne sistem shteteror u be korrigjimi i rrjetit GPS, duke pranuar si koordinata origjine koordinatat e nxjerra nga katalogu i rrjetit gjeodezik shteteror per kete pike te rendit te dyte.

6.2 Rrjeti mbeshtetes

Rrjeti gjeodezik i ndertuar eshte pershtatur shtrirjes se zones se projektimit. Duke u bazuar ne shtrirjen e rajonit te punimeve, karakterin e relievit dhe teknologjine e instrumentave qe disponojme, menduam se forma me e pershtatshme e rrjetit gjeodezik eshte poligonometria e shtrire.

Nga ana tjetër në përshtatje me kushtet topografike të territorit ku do të ndërtohet rrjeti dhe duke iu referuar parametrave të saktësisë që sigurojnë instrumentat e zgjedhur, menduam që gjatësinë mesatare të brinjëve të rrjetit kryesorë ta konsiderojmë 1000-2000m.

Për projektimin e rrjetit u shfrytëzuan material hartografike si hartat topografike ushtarake 1:25 000 dhe ortofoto 2015.

6.3 Matjet

Për vendosjen e centrave u shfrytëzuan veprat e artit (ura, tombino etj) si objekte me jetëgjatësi të madhe dhe vende të qëndrueshme nga pikepamja gjeologjike.

Në këto objekte u përdoren gozhde betoni.

Fiksimi i pikave të tjera u realizua me kunjë hekuri të cilat u ngulën në thellësinë 50 cm. Kujat e hekurit u lyen me bojë në pjesën e sipërme të tyre, si dhe u vendos numri për identifikimin e tyre.

Vlerësimi i rrjetit dhe parametrat e arritur të saktësisë

Gabimi i realizuar në përcaktimin e pozicionit planimetrik ndërmjet dy pikave të afërta të rrjetit gjeodezik arrin në 2 – 4 cm. Pikat e këtij rrjeti shërbyen si pika referencë për dendësimin e mëtejshëm të rrjetit.

Përcaktimi i pozicionit naltimetrik të pikave është bërë duke shfrytëzuar pikat e rrjetit gjeodezik shtetëror me kuote të njohur. Në këto pika dhe në të gjitha pikat e rrjetit mbështetës gjeodezik, janë kryer matje me GPS. Me këto të dhëna janë kryer llogaritjet e disniveleve dhe transformimi në sistemin shtetëror. Gabimi i përcaktimit të pozicionit naltimetrik të pikave arrin në 2 – 5 cm.

Instrumentat e përdorur dhe karakteristikat e tyre

Për realizimin e punimeve topo-gjeodezike në këtë segment rrugorë është përdorur marres.

GPS SOKKIA GRX2

Gabimi në pozicion planimetrik $\pm 2-3$ cm

Gabimi në kuote $\pm 2-3$ cm



Per Total Station Trimble M3

Gabimi gjatesor $Ml = 2mm + 2ppm$ per brinje nga 400 – 1000 m



TRIMBLE M3 TOTAL STATION	
REFLECTOR MEASUREMENT	COMMUNICATIONS
Range with standard prism	Communications ports: 1 x serial (RS-232C), 3 x USB (Host and client) and 1 x Bluetooth
Level reflectance	Wireless communications: Integrated Bluetooth
With reflector offset 0 mm x 5 mm (2 in x 2 in)	POWER
1" (25.4 mm)	Autonomous: 2 x AA battery (not included)
2" (50.8 mm)	Output voltage: 8.4 V DC
3" (76.2 mm)	Operating time:
With angle prism 0.25 mm (0.2 in)	1" (25.4 mm): approx. 1.2 hours (continuous distance/angle measurement)
1" (25.4 mm)	3" (76.2 mm): approx. 20 hours (continuous distance/angle measurement)
2" (50.8 mm)	5" (127 mm): approx. 20 hours (continuous distance/angle measurement)
3" (76.2 mm)	10" (254 mm): approx. 20 hours (continuous distance/angle measurement)
4" (101.6 mm)	15" (381 mm): approx. 20 hours (continuous distance/angle measurement)
5" (127 mm)	20" (508 mm): approx. 20 hours (continuous distance/angle measurement)
6" (152.4 mm)	25" (635 mm): approx. 20 hours (continuous distance/angle measurement)
8" (203.2 mm)	30" (762 mm): approx. 20 hours (continuous distance/angle measurement)
10" (254 mm)	35" (889 mm): approx. 20 hours (continuous distance/angle measurement)
15" (381 mm)	40" (1016 mm): approx. 20 hours (continuous distance/angle measurement)
20" (508 mm)	45" (1143 mm): approx. 20 hours (continuous distance/angle measurement)
25" (635 mm)	50" (1270 mm): approx. 20 hours (continuous distance/angle measurement)
30" (762 mm)	55" (1397 mm): approx. 20 hours (continuous distance/angle measurement)
35" (889 mm)	60" (1524 mm): approx. 20 hours (continuous distance/angle measurement)
40" (1016 mm)	65" (1651 mm): approx. 20 hours (continuous distance/angle measurement)
45" (1143 mm)	70" (1778 mm): approx. 20 hours (continuous distance/angle measurement)
50" (1270 mm)	75" (1905 mm): approx. 20 hours (continuous distance/angle measurement)
55" (1397 mm)	80" (2032 mm): approx. 20 hours (continuous distance/angle measurement)
60" (1524 mm)	85" (2159 mm): approx. 20 hours (continuous distance/angle measurement)
65" (1651 mm)	90" (2286 mm): approx. 20 hours (continuous distance/angle measurement)
70" (1778 mm)	95" (2413 mm): approx. 20 hours (continuous distance/angle measurement)
75" (1905 mm)	100" (2540 mm): approx. 20 hours (continuous distance/angle measurement)
80" (2032 mm)	105" (2667 mm): approx. 20 hours (continuous distance/angle measurement)
85" (2159 mm)	110" (2794 mm): approx. 20 hours (continuous distance/angle measurement)
90" (2286 mm)	115" (2921 mm): approx. 20 hours (continuous distance/angle measurement)
95" (2413 mm)	120" (3048 mm): approx. 20 hours (continuous distance/angle measurement)
100" (2540 mm)	125" (3175 mm): approx. 20 hours (continuous distance/angle measurement)
105" (2667 mm)	130" (3302 mm): approx. 20 hours (continuous distance/angle measurement)
110" (2794 mm)	135" (3429 mm): approx. 20 hours (continuous distance/angle measurement)
115" (2921 mm)	140" (3556 mm): approx. 20 hours (continuous distance/angle measurement)
120" (3048 mm)	145" (3683 mm): approx. 20 hours (continuous distance/angle measurement)
125" (3175 mm)	150" (3810 mm): approx. 20 hours (continuous distance/angle measurement)
130" (3302 mm)	155" (3937 mm): approx. 20 hours (continuous distance/angle measurement)
135" (3429 mm)	160" (4064 mm): approx. 20 hours (continuous distance/angle measurement)
140" (3556 mm)	165" (4191 mm): approx. 20 hours (continuous distance/angle measurement)
145" (3683 mm)	170" (4318 mm): approx. 20 hours (continuous distance/angle measurement)
150" (3810 mm)	175" (4445 mm): approx. 20 hours (continuous distance/angle measurement)
155" (3937 mm)	180" (4572 mm): approx. 20 hours (continuous distance/angle measurement)
160" (4064 mm)	185" (4699 mm): approx. 20 hours (continuous distance/angle measurement)
165" (4191 mm)	190" (4826 mm): approx. 20 hours (continuous distance/angle measurement)
170" (4318 mm)	195" (4953 mm): approx. 20 hours (continuous distance/angle measurement)
175" (4445 mm)	200" (5080 mm): approx. 20 hours (continuous distance/angle measurement)
180" (4572 mm)	205" (5207 mm): approx. 20 hours (continuous distance/angle measurement)
185" (4699 mm)	210" (5334 mm): approx. 20 hours (continuous distance/angle measurement)
190" (4826 mm)	215" (5461 mm): approx. 20 hours (continuous distance/angle measurement)
195" (4953 mm)	220" (5588 mm): approx. 20 hours (continuous distance/angle measurement)
200" (5080 mm)	225" (5715 mm): approx. 20 hours (continuous distance/angle measurement)
205" (5207 mm)	230" (5842 mm): approx. 20 hours (continuous distance/angle measurement)
210" (5334 mm)	235" (5969 mm): approx. 20 hours (continuous distance/angle measurement)
215" (5461 mm)	240" (6096 mm): approx. 20 hours (continuous distance/angle measurement)
220" (5588 mm)	245" (6223 mm): approx. 20 hours (continuous distance/angle measurement)
225" (5715 mm)	250" (6350 mm): approx. 20 hours (continuous distance/angle measurement)
230" (5842 mm)	255" (6477 mm): approx. 20 hours (continuous distance/angle measurement)
235" (5969 mm)	260" (6604 mm): approx. 20 hours (continuous distance/angle measurement)
240" (6096 mm)	265" (6731 mm): approx. 20 hours (continuous distance/angle measurement)
245" (6223 mm)	270" (6858 mm): approx. 20 hours (continuous distance/angle measurement)
250" (6350 mm)	275" (6985 mm): approx. 20 hours (continuous distance/angle measurement)
255" (6477 mm)	280" (7112 mm): approx. 20 hours (continuous distance/angle measurement)
260" (6604 mm)	285" (7239 mm): approx. 20 hours (continuous distance/angle measurement)
265" (6731 mm)	290" (7366 mm): approx. 20 hours (continuous distance/angle measurement)
270" (6858 mm)	295" (7493 mm): approx. 20 hours (continuous distance/angle measurement)
275" (6985 mm)	300" (7620 mm): approx. 20 hours (continuous distance/angle measurement)
280" (7112 mm)	305" (7747 mm): approx. 20 hours (continuous distance/angle measurement)
285" (7239 mm)	310" (7874 mm): approx. 20 hours (continuous distance/angle measurement)
290" (7366 mm)	315" (8001 mm): approx. 20 hours (continuous distance/angle measurement)
295" (7493 mm)	320" (8128 mm): approx. 20 hours (continuous distance/angle measurement)
300" (7620 mm)	325" (8255 mm): approx. 20 hours (continuous distance/angle measurement)
305" (7747 mm)	330" (8382 mm): approx. 20 hours (continuous distance/angle measurement)
310" (7874 mm)	335" (8509 mm): approx. 20 hours (continuous distance/angle measurement)
315" (8001 mm)	340" (8636 mm): approx. 20 hours (continuous distance/angle measurement)
320" (8128 mm)	345" (8763 mm): approx. 20 hours (continuous distance/angle measurement)
325" (8255 mm)	350" (8890 mm): approx. 20 hours (continuous distance/angle measurement)
330" (8382 mm)	355" (9017 mm): approx. 20 hours (continuous distance/angle measurement)
335" (8509 mm)	360" (9144 mm): approx. 20 hours (continuous distance/angle measurement)
340" (8636 mm)	365" (9271 mm): approx. 20 hours (continuous distance/angle measurement)
345" (8763 mm)	370" (9398 mm): approx. 20 hours (continuous distance/angle measurement)
350" (8890 mm)	375" (9525 mm): approx. 20 hours (continuous distance/angle measurement)
355" (9017 mm)	380" (9652 mm): approx. 20 hours (continuous distance/angle measurement)
360" (9144 mm)	385" (9779 mm): approx. 20 hours (continuous distance/angle measurement)
365" (9271 mm)	390" (9906 mm): approx. 20 hours (continuous distance/angle measurement)
370" (9398 mm)	395" (10033 mm): approx. 20 hours (continuous distance/angle measurement)
375" (9525 mm)	400" (10160 mm): approx. 20 hours (continuous distance/angle measurement)
380" (9652 mm)	405" (10287 mm): approx. 20 hours (continuous distance/angle measurement)
385" (9779 mm)	410" (10414 mm): approx. 20 hours (continuous distance/angle measurement)
390" (9906 mm)	415" (10541 mm): approx. 20 hours (continuous distance/angle measurement)
395" (10033 mm)	420" (10668 mm): approx. 20 hours (continuous distance/angle measurement)
400" (10160 mm)	425" (10795 mm): approx. 20 hours (continuous distance/angle measurement)
405" (10287 mm)	430" (10922 mm): approx. 20 hours (continuous distance/angle measurement)
410" (10414 mm)	435" (11049 mm): approx. 20 hours (continuous distance/angle measurement)
415" (10541 mm)	440" (11176 mm): approx. 20 hours (continuous distance/angle measurement)
420" (10668 mm)	445" (11303 mm): approx. 20 hours (continuous distance/angle measurement)
425" (10795 mm)	450" (11430 mm): approx. 20 hours (continuous distance/angle measurement)
430" (10922 mm)	455" (11557 mm): approx. 20 hours (continuous distance/angle measurement)
435" (11049 mm)	460" (11684 mm): approx. 20 hours (continuous distance/angle measurement)
440" (11176 mm)	465" (11811 mm): approx. 20 hours (continuous distance/angle measurement)
445" (11303 mm)	470" (11938 mm): approx. 20 hours (continuous distance/angle measurement)
450" (11430 mm)	475" (12065 mm): approx. 20 hours (continuous distance/angle measurement)
455" (11557 mm)	480" (12192 mm): approx. 20 hours (continuous distance/angle measurement)
460" (11684 mm)	485" (12319 mm): approx. 20 hours (continuous distance/angle measurement)
465" (11811 mm)	490" (12446 mm): approx. 20 hours (continuous distance/angle measurement)
470" (11938 mm)	495" (12573 mm): approx. 20 hours (continuous distance/angle measurement)
475" (12065 mm)	500" (12700 mm): approx. 20 hours (continuous distance/angle measurement)
480" (12192 mm)	505" (12827 mm): approx. 20 hours (continuous distance/angle measurement)
485" (12319 mm)	510" (12954 mm): approx. 20 hours (continuous distance/angle measurement)
490" (12446 mm)	515" (13081 mm): approx. 20 hours (continuous distance/angle measurement)
495" (12573 mm)	520" (13208 mm): approx. 20 hours (continuous distance/angle measurement)
500" (12700 mm)	525" (13335 mm): approx. 20 hours (continuous distance/angle measurement)
505" (12827 mm)	530" (13462 mm): approx. 20 hours (continuous distance/angle measurement)
510" (12954 mm)	535" (13589 mm): approx. 20 hours (continuous distance/angle measurement)
515" (13081 mm)	540" (13716 mm): approx. 20 hours (continuous distance/angle measurement)
520" (13208 mm)	545" (13843 mm): approx. 20 hours (continuous distance/angle measurement)
525" (13335 mm)	550" (13970 mm): approx. 20 hours (continuous distance/angle measurement)
530" (13462 mm)	555" (14097 mm): approx. 20 hours (continuous distance/angle measurement)
535" (13589 mm)	560" (14224 mm): approx. 20 hours (continuous distance/angle measurement)
540" (13716 mm)	565" (14351 mm): approx. 20 hours (continuous distance/angle measurement)
545" (13843 mm)	570" (14478 mm): approx. 20 hours (continuous distance/angle measurement)
550" (13970 mm)	575" (14605 mm): approx. 20 hours (continuous distance/angle measurement)
555" (14097 mm)	580" (14732 mm): approx. 20 hours (continuous distance/angle measurement)
560" (14224 mm)	585" (14859 mm): approx. 20 hours (continuous distance/angle measurement)
565" (14351 mm)	590" (14986 mm): approx. 20 hours (continuous distance/angle measurement)
570" (14478 mm)	595" (15113 mm): approx. 20 hours (continuous distance/angle measurement)
575" (14605 mm)	600" (15240 mm): approx. 20 hours (continuous distance/angle measurement)
580" (14732 mm)	605" (15367 mm): approx. 20 hours (continuous distance/angle measurement)
585" (14859 mm)	610" (15494 mm): approx. 20 hours (continuous distance/angle measurement)
590" (14986 mm)	615" (15621 mm): approx. 20 hours (continuous distance/angle measurement)
595" (15113 mm)	620" (15748 mm): approx. 20 hours (continuous distance/angle measurement)
600" (15240 mm)	625" (15875 mm): approx. 20 hours (continuous distance/angle measurement)
605" (15367 mm)	630" (16002 mm): approx. 20 hours (continuous distance/angle measurement)
610" (15494 mm)	635" (16129 mm): approx. 20 hours (continuous distance/angle measurement)
615" (15621 mm)	640" (16256 mm): approx. 20 hours (continuous distance/angle measurement)
620" (15748 mm)	645" (16383 mm): approx. 20 hours (continuous distance/angle measurement)
625" (15875 mm)	650" (16510 mm): approx. 20 hours (continuous distance/angle measurement)
630" (16002 mm)	655" (16637 mm): approx. 20 hours (continuous distance/angle measurement)
635" (16129 mm)	660" (16764 mm): approx. 20 hours (continuous distance/angle measurement)
640" (16256 mm)	665" (16891 mm): approx. 20 hours (continuous distance/angle measurement)
645" (16383 mm)	670" (17018 mm): approx. 20 hours (continuous distance/angle measurement)
650" (16510 mm)	675" (17145 mm): approx. 20 hours (continuous distance/angle measurement)
655" (16637 mm)	680" (17272 mm): approx. 20 hours (continuous distance/angle measurement)
660" (16764 mm)	685" (17399 mm): approx. 20 hours (continuous distance/angle measurement)
665" (16891 mm)	690" (17526 mm): approx. 20 hours (continuous distance/angle measurement)
670" (17018 mm)	695" (17653 mm): approx. 20 hours (continuous distance/angle measurement)
675" (17145 mm)	700" (17780 mm): approx. 20 hours (continuous distance/angle measurement)
680" (17272 mm)	705" (17907 mm): approx. 20 hours (continuous distance/angle measurement)
685" (17399 mm)	710" (18034 mm): approx. 20 hours (continuous distance/angle measurement)
690" (17526 mm)	715" (18161 mm): approx. 20 hours (continuous distance/angle measurement)
695" (17653 mm)	720" (18288 mm): approx. 20 hours (continuous distance/angle measurement)
700" (17780 mm)	725" (18415 mm): approx. 20 hours (continuous distance/angle measurement)
705" (17907 mm)	730" (18542 mm): approx. 20 hours (continuous distance/angle measurement)
710" (18034 mm)	735" (18669 mm): approx. 20 hours (continuous distance/angle measurement)
715" (18161 mm)	740" (18796 mm): approx. 20 hours (continuous distance/angle measurement)
720" (18288 mm)	745" (18923 mm): approx. 20 hours (continuous distance/angle measurement)
725" (18415 mm)	750" (19050 mm): approx. 20 hours (continuous distance/angle measurement)
730" (18542 mm)	755" (19177 mm): approx. 20 hours (continuous distance/angle measurement)
735" (18669 mm)	760" (19304 mm): approx. 20 hours (continuous distance/angle measurement)
740" (18796 mm)	765" (19431 mm): approx. 20 hours (continuous distance/angle measurement)
745" (18923 mm)	770" (19558 mm): approx. 20 hours (continuous distance/angle measurement)
750" (19050 mm)	775" (19685 mm): approx. 20 hours (continuous distance/angle measurement)
755" (19177 mm)	780" (19812 mm): approx. 20 hours (continuous distance/angle measurement)
760" (19304 mm)	785" (19939 mm): approx. 20 hours (continuous distance/angle measurement)
765" (19431 mm)	790" (20066 mm): approx. 20 hours (continuous distance/angle measurement)
770" (19558 mm)	795" (20193 mm): approx. 20 hours (continuous distance/angle measurement)
775" (19685 mm)	800" (20320 mm): approx. 20 hours (continuous distance/angle measurement)
780" (19812 mm)	805" (20447 mm): approx. 20 hours (continuous distance/angle measurement)
785" (19939 mm)	810" (20574 mm): approx. 20 hours (continuous distance/angle measurement)
790" (20066 mm)	815" (20701 mm): approx. 20 hours (continuous distance/angle measurement)
795" (20193 mm)	820" (20828 mm): approx. 20 hours (continuous distance/angle measurement)
800" (20320 mm)	825" (20955 mm): approx. 20 hours (continuous distance/angle measurement)
805" (20447 mm)	830" (21082 mm): approx. 20 hours (continuous distance/angle measurement)
810" (20574 mm)	835" (21209 mm): approx. 20 hours (continuous distance/angle measurement)
815" (20701 mm)	840" (21336 mm): approx. 20 hours (continuous distance/angle measurement)
820" (20828 mm)	845" (21463 mm): approx. 20 hours (continuous distance/angle measurement)
825" (20955 mm)	850" (21590 mm): approx. 20 hours (continuous distance/angle measurement)
830" (21082 mm)	855" (21717 mm): approx. 20 hours (continuous distance/angle measurement)
835" (21209 mm)	860" (21844 mm): approx. 20 hours (continuous distance/angle measurement)
840" (21336 mm)	865" (21971 mm): approx. 20 hours (continuous distance/angle measurement)
845" (21463 mm)	870" (22098 mm): approx. 20 hours (continuous distance/angle measurement)
850" (21590 mm)	875" (22225 mm): approx. 20 hours (continuous distance/angle measurement)
855" (21717 mm)	880" (22352 mm): approx. 20 hours (continuous distance/angle measurement)
860" (21844 mm)	885" (22479 mm): approx. 20 hours (continuous distance/angle measurement)
865" (21971 mm)	890" (22606 mm): approx. 20 hours (continuous distance/angle measurement)
870" (22098 mm)	895" (22733 mm): approx. 20 hours (continuous distance/angle measurement)
875" (22225 mm)	900" (22860 mm): approx. 20 hours (continuous distance/angle measurement)
880" (22352 mm)	905" (22987 mm): approx. 20 hours (continuous distance/angle measurement)
885" (22479 mm)	910" (23114 mm): approx. 20 hours (continuous distance/angle measurement)
890" (22606 mm)	915" (23241 mm): approx. 20 hours (continuous distance/angle measurement)
895" (22733 mm)	920" (23368 mm): approx. 20 hours (continuous distance/angle measurement)
900" (22860 mm)	925" (23495 mm): approx. 20 hours (continuous distance/angle measurement)
905" (22987 mm)	930" (23622 mm): approx. 20 hours (continuous distance/angle measurement)
910" (23114 mm)	935" (23749 mm): approx. 20 hours (continuous distance/angle measurement)
915" (23241 mm)	940" (23876 mm): approx. 20 hours (continuous distance/angle measurement)
920" (23368 mm)	945" (24003 mm): approx. 20 hours (continuous distance/angle measurement)
925" (23495 mm)	950" (24130 mm): approx. 20 hours (continuous distance/angle measurement)
930" (23622 mm)	955" (24257 mm): approx. 20 hours (continuous distance/angle measurement)
935" (23749 mm)	960" (24384 mm): approx. 20 hours (continuous distance/angle measurement)
940" (23876 mm)	965" (24511 mm): approx. 20 hours (continuous distance/angle measurement)
945" (24003 mm)	970" (24638 mm): approx. 20 hours (continuous distance/angle measurement)
950" (24130 mm)	975" (24765 mm): approx. 20 hours (continuous distance/angle measurement)
955" (24257 mm)	980" (24892 mm): approx. 20 hours (continuous distance/angle measurement)
960" (24384 mm)	985" (25019 mm): approx. 20 hours (continuous distance/angle measurement)
965" (24511 mm)	990" (25146 mm): approx. 20 hours (continuous distance/angle measurement)
970" (24638 mm)	995" (25273 mm): approx. 20 hours (continuous distance/angle measurement)
975" (24765 mm)	1000" (25400 mm): approx. 20 hours (continuous distance/angle measurement)

Gabimi kendor $mQ = 3''$

Cdo pike e rjetit gjeodezik te ndertuar eshte shoqeruar me monografine e saj, e cila jep informacion per vendndodhjen gjeografike te pikes, numrin dhe koordinatat e saj ne sistemin shteteror.

Shoqeria "ZENIT&CO" sh.p.k
Drejtues Ligjore
Arqile Peri