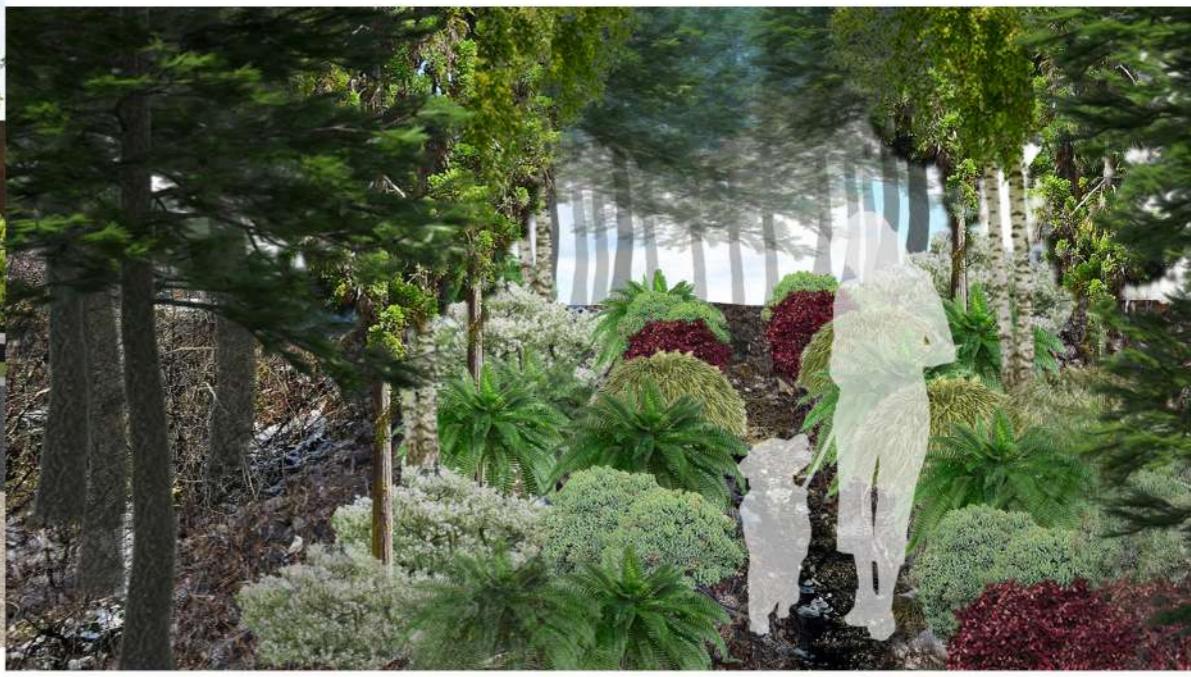




CONNECTIONS AND PROMENADES INTERVENTIONS IN LIBČICE NAD VLTAVOU



ATELIER REHWALDT
STUDENT: KAWTAR HAOUDI
LA PROGRAM AT4 ZS 2023 – 2024

SUMMARY

0.ASSIGNMENT

1.ANALYSIS

2.CONCEPT

3. MASTER PLAN

4. 3D VISUALISATION OF THE PROJECT

5.DESIGN

I. THE CEMETERY

1.CONCEPT

2.VEGETATION PLAN

3.PLANTS AND MATERIALS

4.SECTIONS

5. DETAILS

6.3D VISUALISATION

II. THE SQUARE

1.CONCEPT

2.VEGETATION PLAN

3.SECTION

4.3D VISUALISATION

III. THE HILL

1.CONCEPT

2.VEGETATION PLAN

IV. THE SPACE IN-BETWEEN

1.CONCEPT

2.VEGETATION PLAN

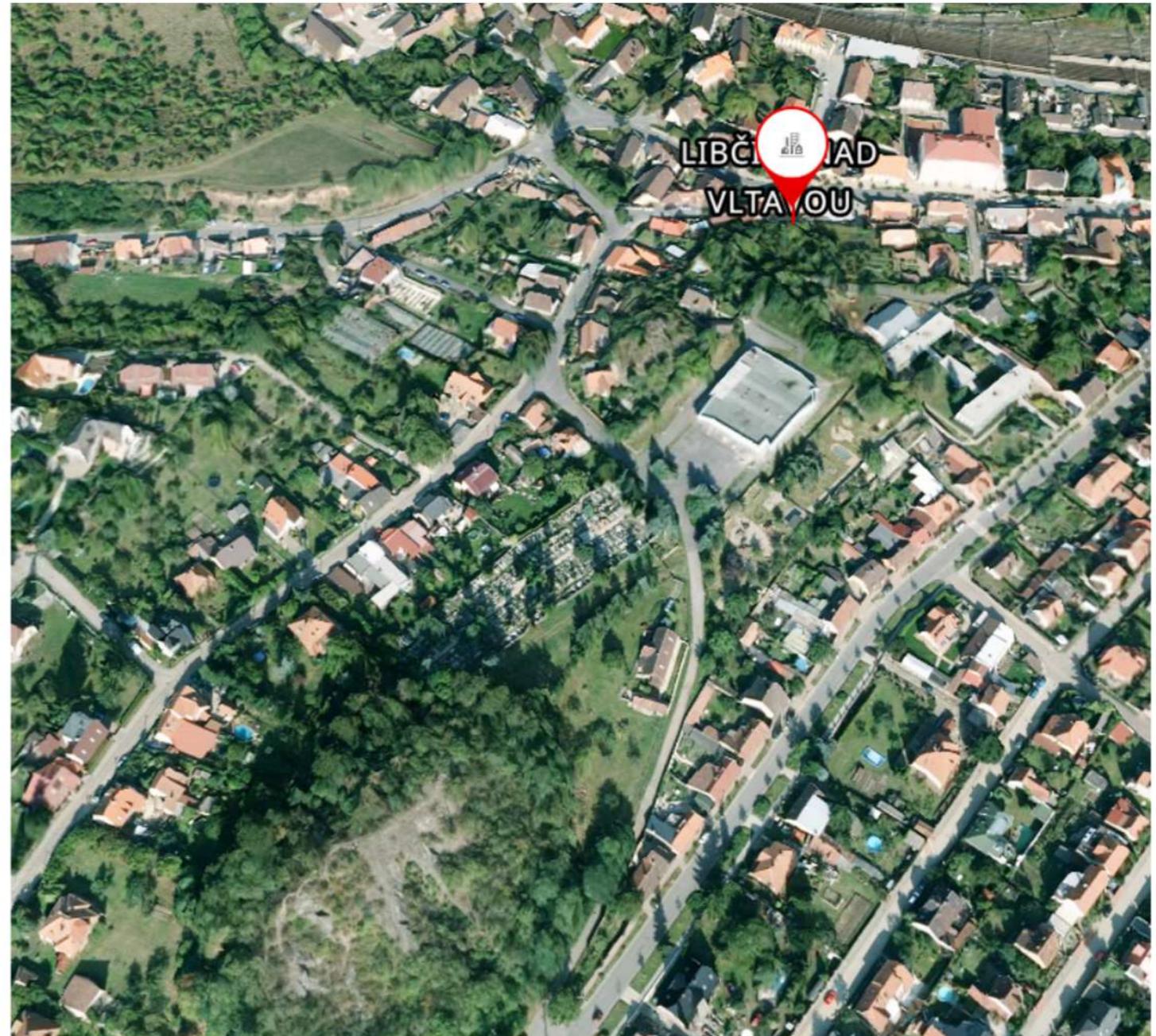
0. ASSIGNMENT

Libcice cemetery is in Libčice nad Vltavou town, which is a few kilometers outside Prague.

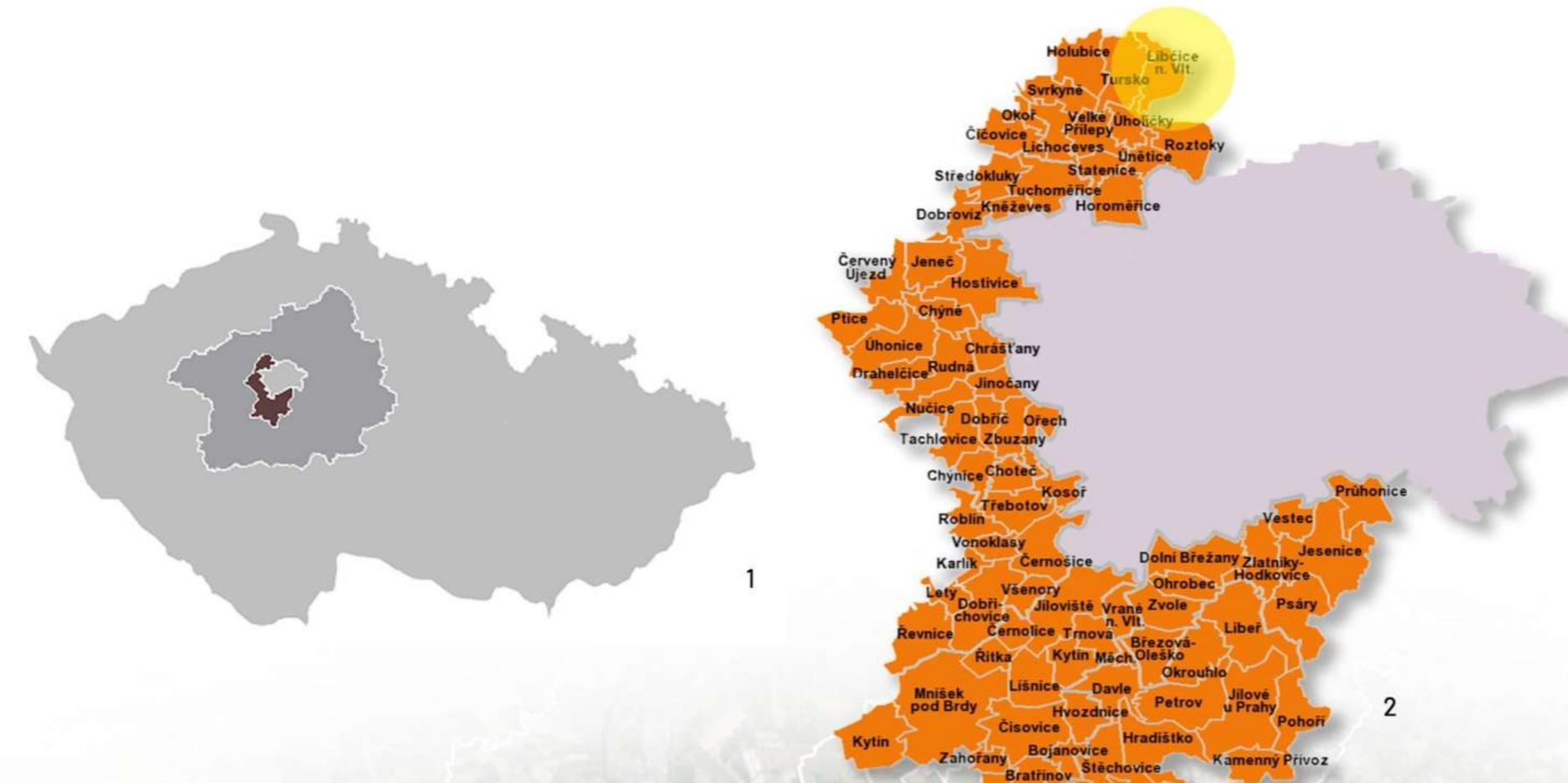
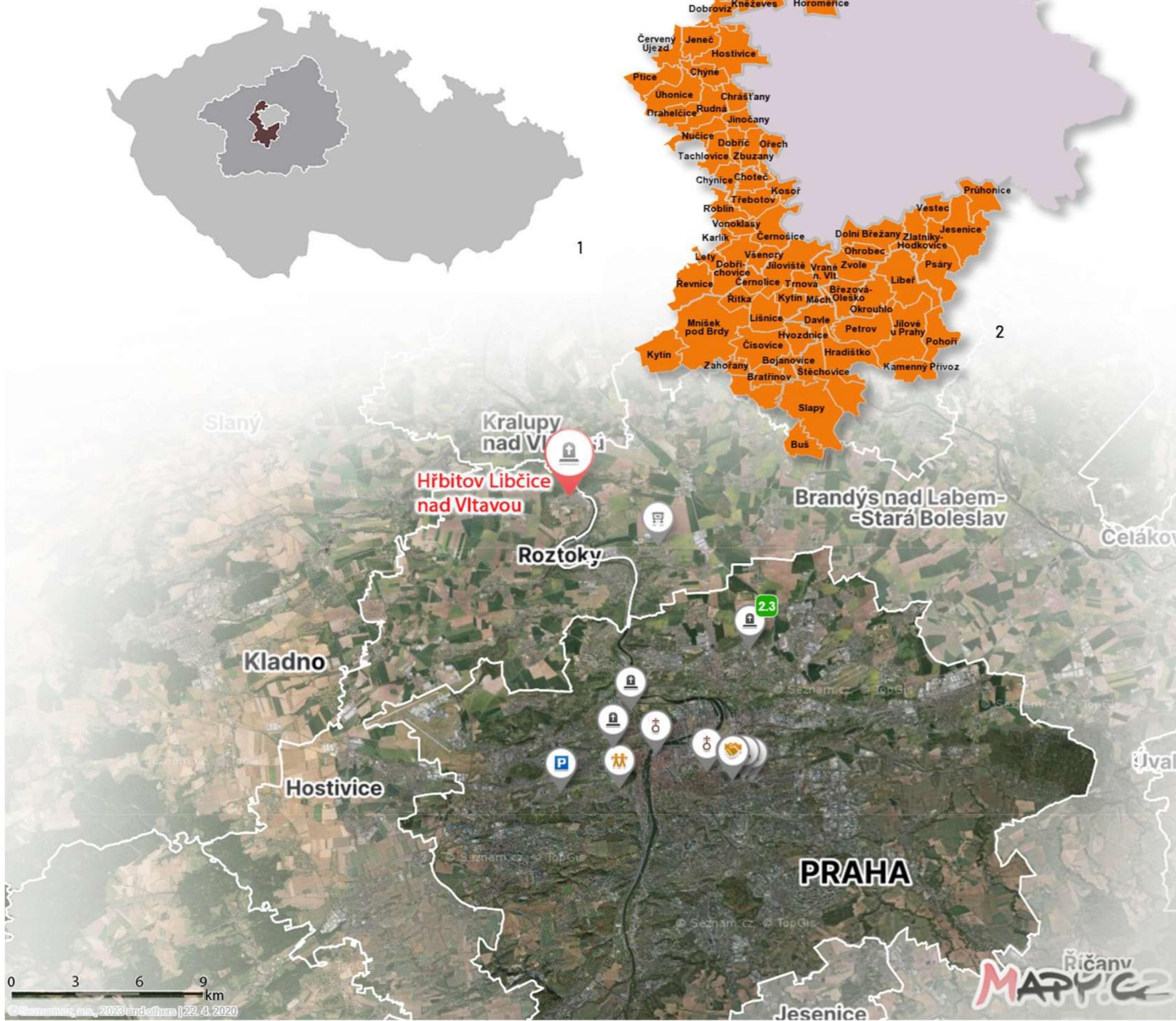
The current state of the site (conflict between graves and greenery which is in a bad state, unrepresentative entrance, unused plots) has a lot of potential for future revitalization.

The aim of this project is to intervene on the site and transform it so that the vegetation is anew and the cemetery is connected to its environment: the adjacent plot and the hill where I will also intervene, and to turn the parking lot in front of it into a square that can be used in different ways by the community.

Furthermore, the space between the train station and the Church of Saint Bartholomew also has potential for different functions, and so I am also working on it so that it is more open and facilitating the connection to the first site.



1. ANALYSIS: GROUP WORK WITH TEREZA CERNIKOVA, ALZBETA MALOVANA, JANA BEZRUKOVA AND KAROLINA MYSKOVA



1

2

LOCATION



4

The cemetery is in the town of Libčice nad Vltavou, which is located in the Central Bohemian Region, in the Prague-West district, and falls under the administrative district of the municipality with extended jurisdiction of Černošice. It's about 13 km from the center of Prague, in the north, on the left bank of the Vltava River following its curve.

The total area of the town is 7.10 km² and consists of the cadastral territories of Libčice nad Vltavou, Letky and Chýnov.

Sources:
<https://www.libcice.cz/mesto-a-urad/o-meste/zakladni-informace>
https://cs.wikipedia.org/wiki/Lib%C4%8Dice_nad_Vltavou

1: https://fr.wikipedia.org/wiki/Lib%C4%8Dice_nad_Vltavou#/media/Fichier:Libcice_nad_Vltavou_PZ_CZ.png

2 : https://en.wikipedia.org/wiki/Prague-West_District#/media/File:Prague-West_District_2008_names_PZ_CZ.png

3,4: <https://en.mapy.cz/>

WIDER CONNECTIONS



The town is the result of the union of three municipalities: Libčice, Chýnov, and Letky, in 1924.

The layout is linear, following the curve of the river and the railway which divides the town into two parts.

There are two main axes:
The first one, linking between the villages of Libčice and Letky, and the second one, going through the valley from Chýnov to Libčice.

The important landmarks in the town are:
- The church of St. Bartholomew, a Baroque church built in 1763-69.
- The Evangelic Church, built between 1863-67. Many other villages were assigned to it, as it is the only Czech Brethren evangelical church in the area.
- Area Srouvareni, where two historic buildings were revitalized into multifunctional spaces - the Boiler Room and the Coal Mill.

Sources:

- <https://www.libcice.cz/mesto-a-urad/o-meste/urbanismus/>
- https://en.wikipedia.org/wiki/Lib%C4%8Dice_nad_Vltavou
- <https://en.mapy.cz/zakladni?source=base&id=1864288&x=14.3630980&y=50.1999359&z=17>
- <https://www.libcice.cz/mesto-a-urad/o-meste/soucasnost/>

HISTORY

1st military mapping (1764-1766)

The first mention of Libčice (actually Libšice) appears in the foundation document of the Břevnov monastery dated 993.

In it, Prince Boleslav donates the village of Libšice, fields, forest and a part of the river to the second monastery in Břevnov.



0

600

m

HISTORY

3rd military mapping (1877-1880)

LEGEND

— Railways

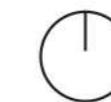
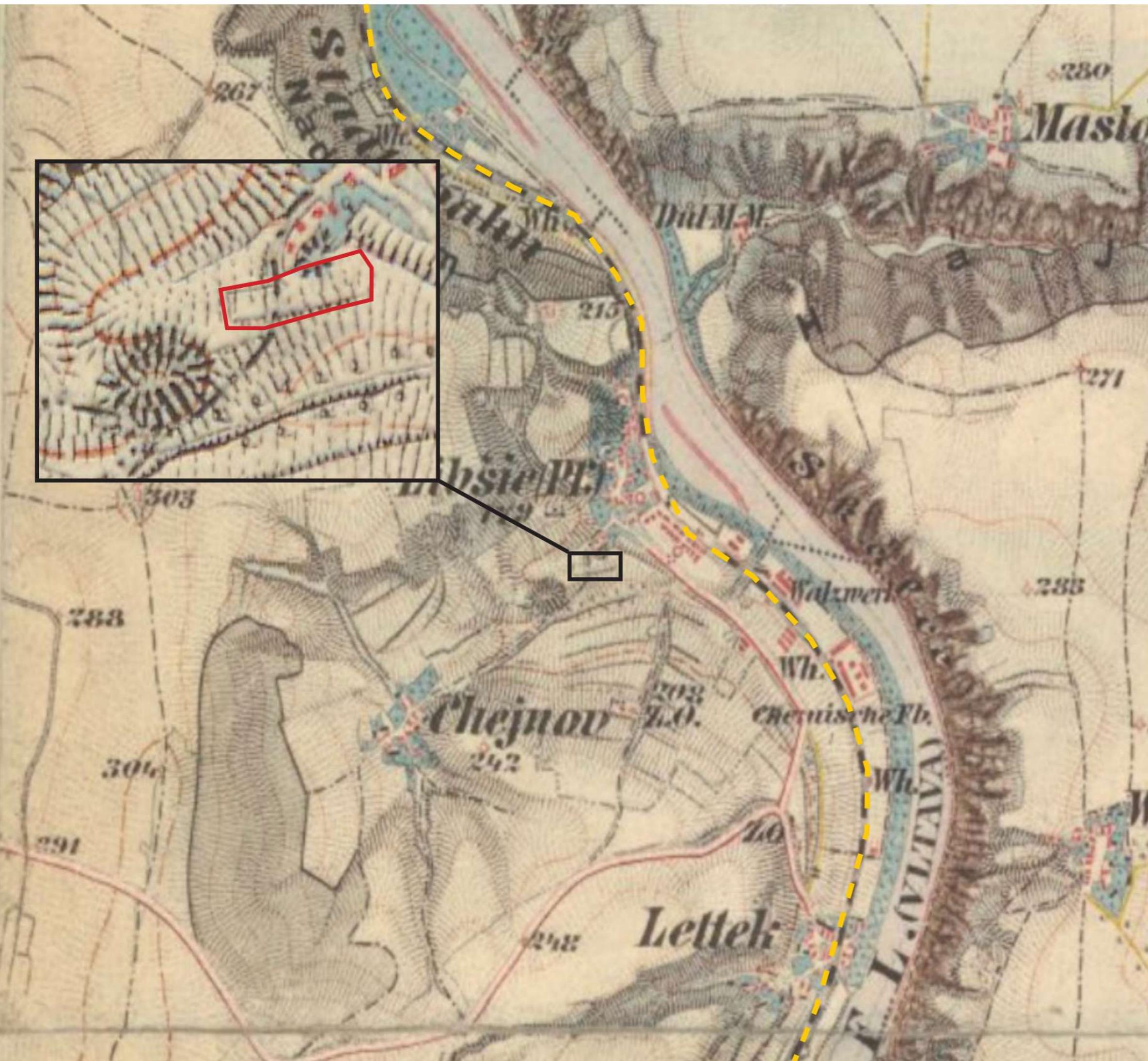
— Cemetery border

Originally an agricultural area, it began to **develop industrially in the mid-19th century** thanks to the existence of the railway.

Libčice was significantly influenced by the development of local factories. After 1850, **the Dresden Railway** was laid through the Vltava valley.

Later on, ironworks (production of fasteners) were established on the vast river floodplain on the banks of the Vltava, and brickworks soon followed (together with the extraction of brick raw materials in the adjacent areas).

In the 1920s Libčice was a local industrial centre, with a pawnshop, a building society, an ironworks, two brickworks and two chemical plants.



0

600

m



HISTORY

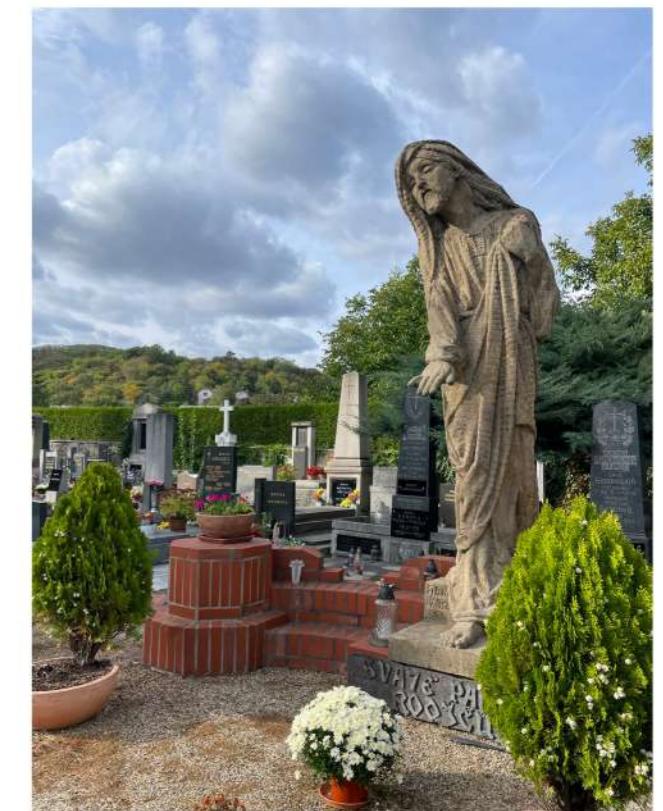
Catholic Cemetery

LEGEND

Cemetery border

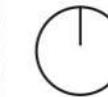
For capacity reasons, a new cemetery was established in 1854 under the Kameníček hill in the middle of the town, which is still in use today.

Sculpture of Christ



The author is the famous sculptor František Bílek and he created the work in 1908.

Christ is depicted descending into the cave where the dead Lazarus is buried. He is depicted with his right leg outstretched and his right arm extended.



0

50

m

source: <https://mapy.cz/>

HISTORY
Catholic Cemetery

LEGEND

Cemetery border

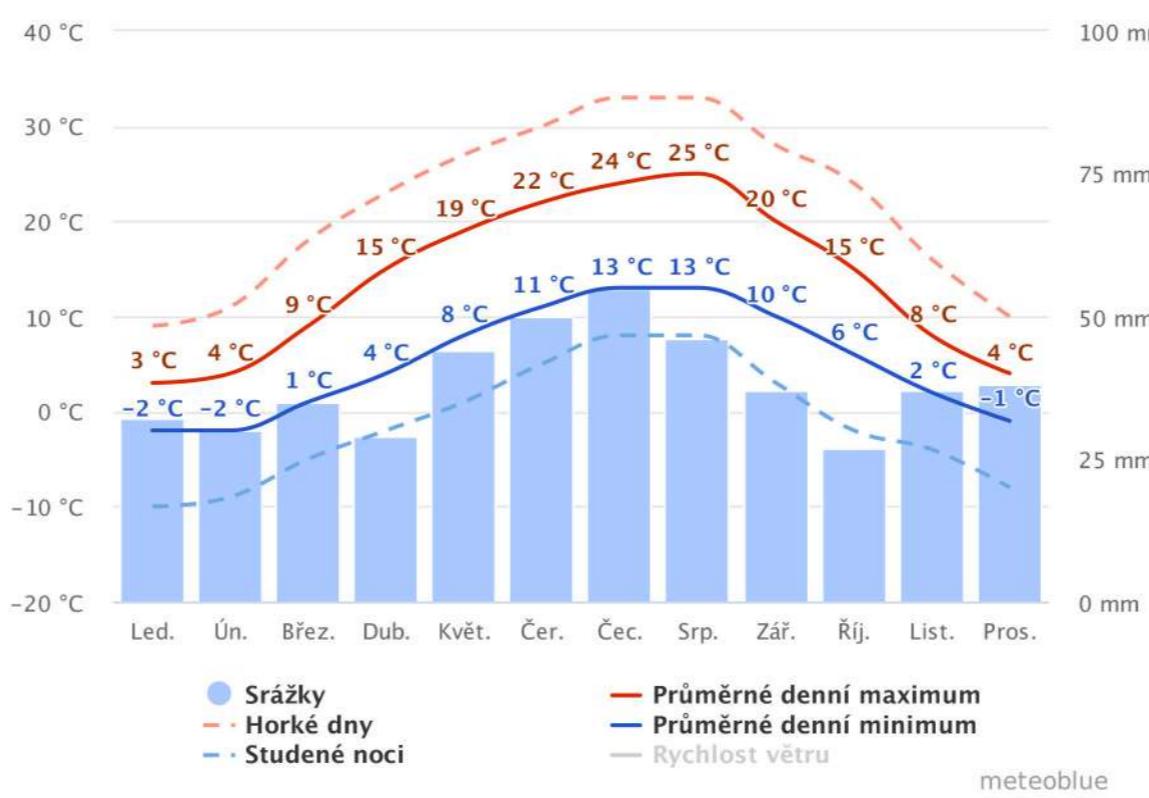
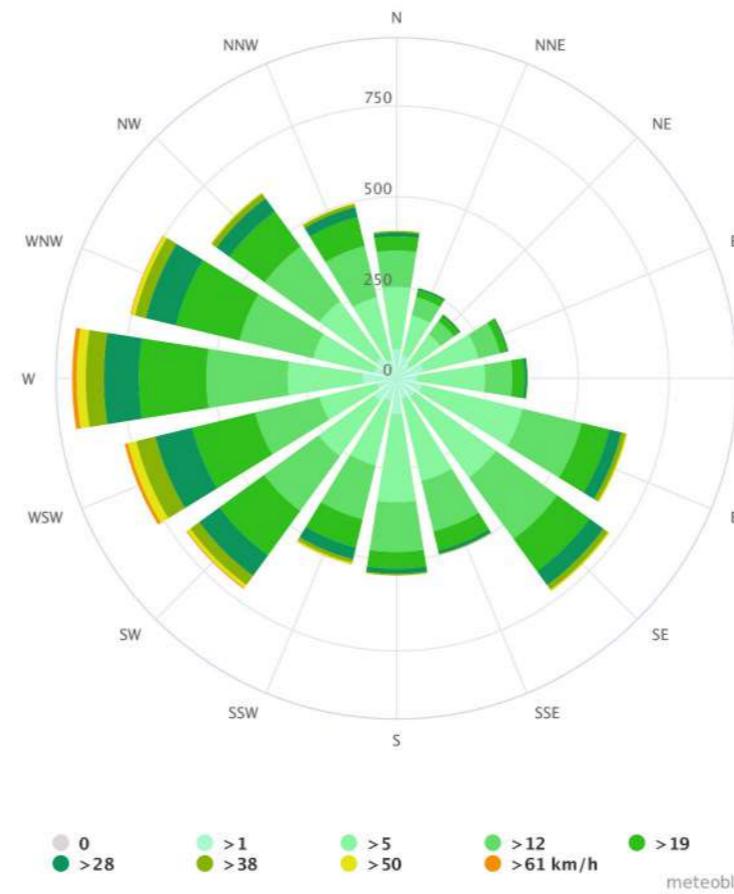
Couple of years ago, new columbarium has been added to extend the capacity of the cemetery.



source: <https://mapy.cz/>

CLIMATE

Libčice nad Vltavou is located in a warm climatic area. West winds prevail here. Spring is relatively short, warm to moderately warm, summer is warm, long and dry, autumn is relatively short, warm to moderately warm, winter is short, dry to very dry.



LEGEND



Libčice nad Vltavou

warm climatic area

Source: <https://geoportal.gov.cz/web/guest/map>, https://www.meteoblue.com/cs/po%C4%8Das%C3%AD/t%C3%BDden/lib%c4%8dice-nad-vltavou_%c4%8cesko_3071980, <http://moravske-karpaty.cz/prirodni-pomery/klima/klimaticke-oblasti-dle-e-quitta-1971/>

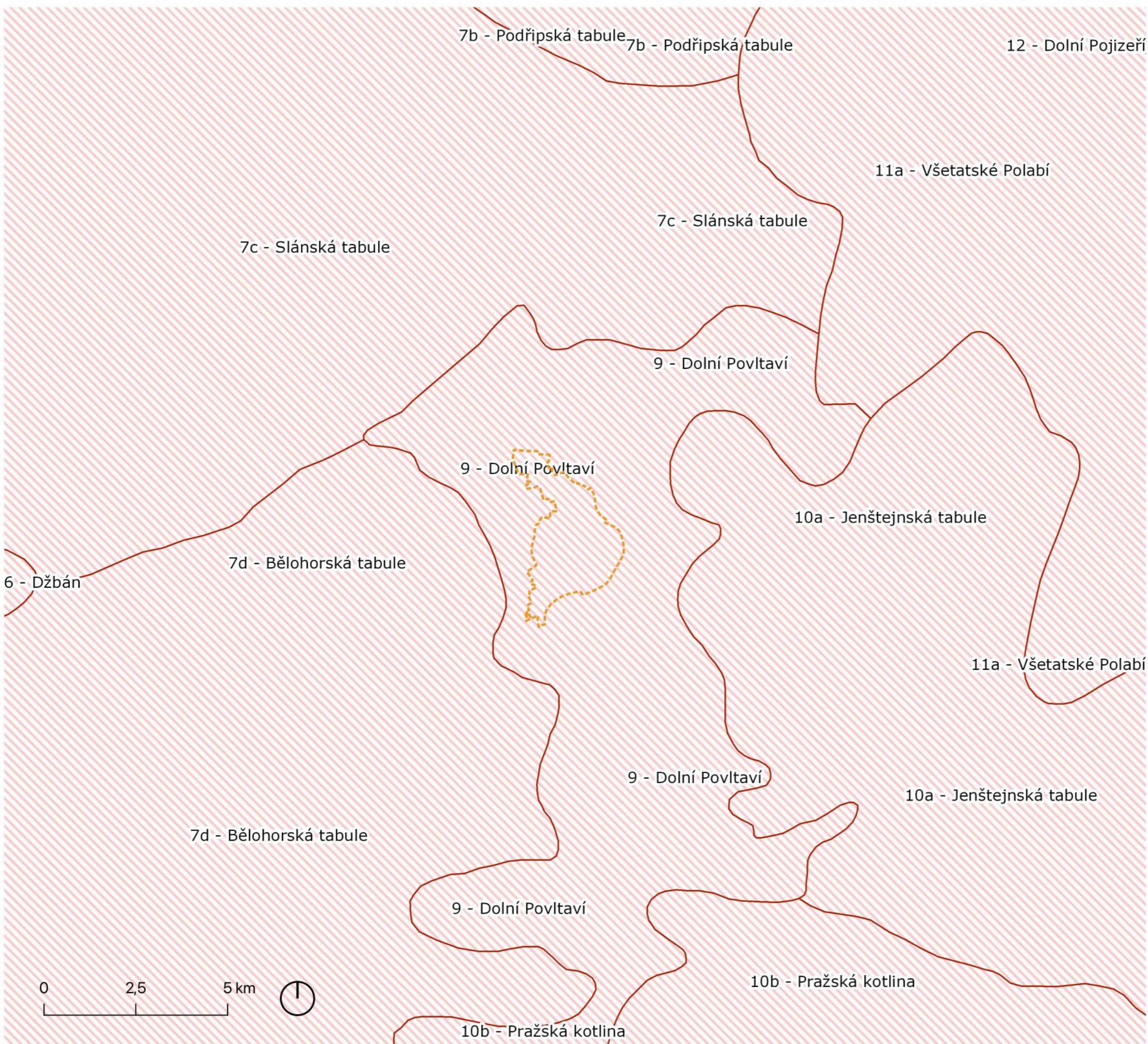
PHYTogeOGRAPHY

LEGEND



Libčice nad Vltavou

Libčice nad Vltavou is located in the phytogeographical area of the Czech thermophyte (area of thermophilic flora), which is characterized by planar (lowland) and collinear (hilly) vegetation levels. The town lies in the Dolní Povltaví region, characteristically shaped by the Vltava River.



Vltava, Dolní Povltaví, Libčice nad Vltavou



<https://www.facebook.com/photo/?fbid=4724853637573474&set=p.4724853637573474>

Source: <https://geoportal.gov.cz/web/guest/map?openNode=Bio-geographical%20regions&keywordList=inspire>

RELIEF

LEGEND



Libčice nad Vltavou

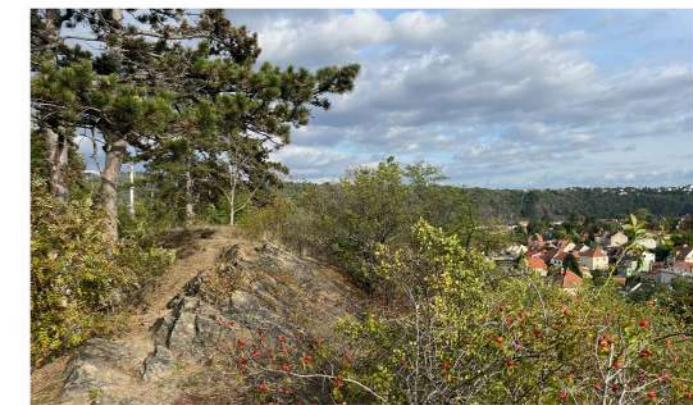


catholic cemetery

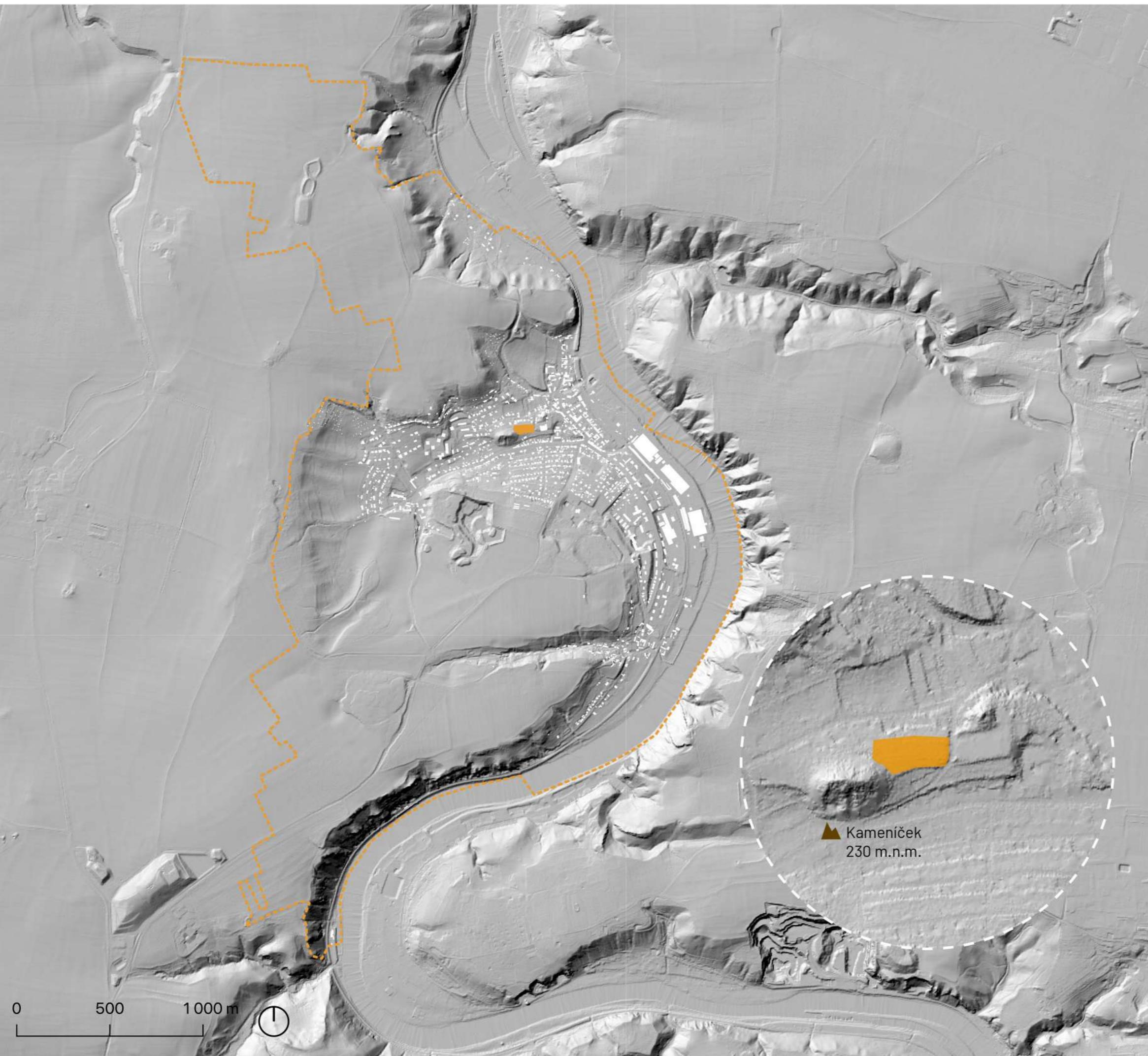


Kameníček

Kameníček, 230 m. n. m.



Libčice nad Vltavou is located in a very dramatic terrain shaped by the Vltava River. The slopes are interwoven with small streams that flow into the river. The town lies in the bed of a now extinct stream. An interesting formation is the Kameníček peak, which is located near the Catholic cemetery. It offers a nice view of the town. The Catholic cemetery lies on mostly flat terrain, which ascends gently towards the west.



WATERCOURSES

LEGEND



Libčice nad Vltavou



catholic cemetery



watercourse



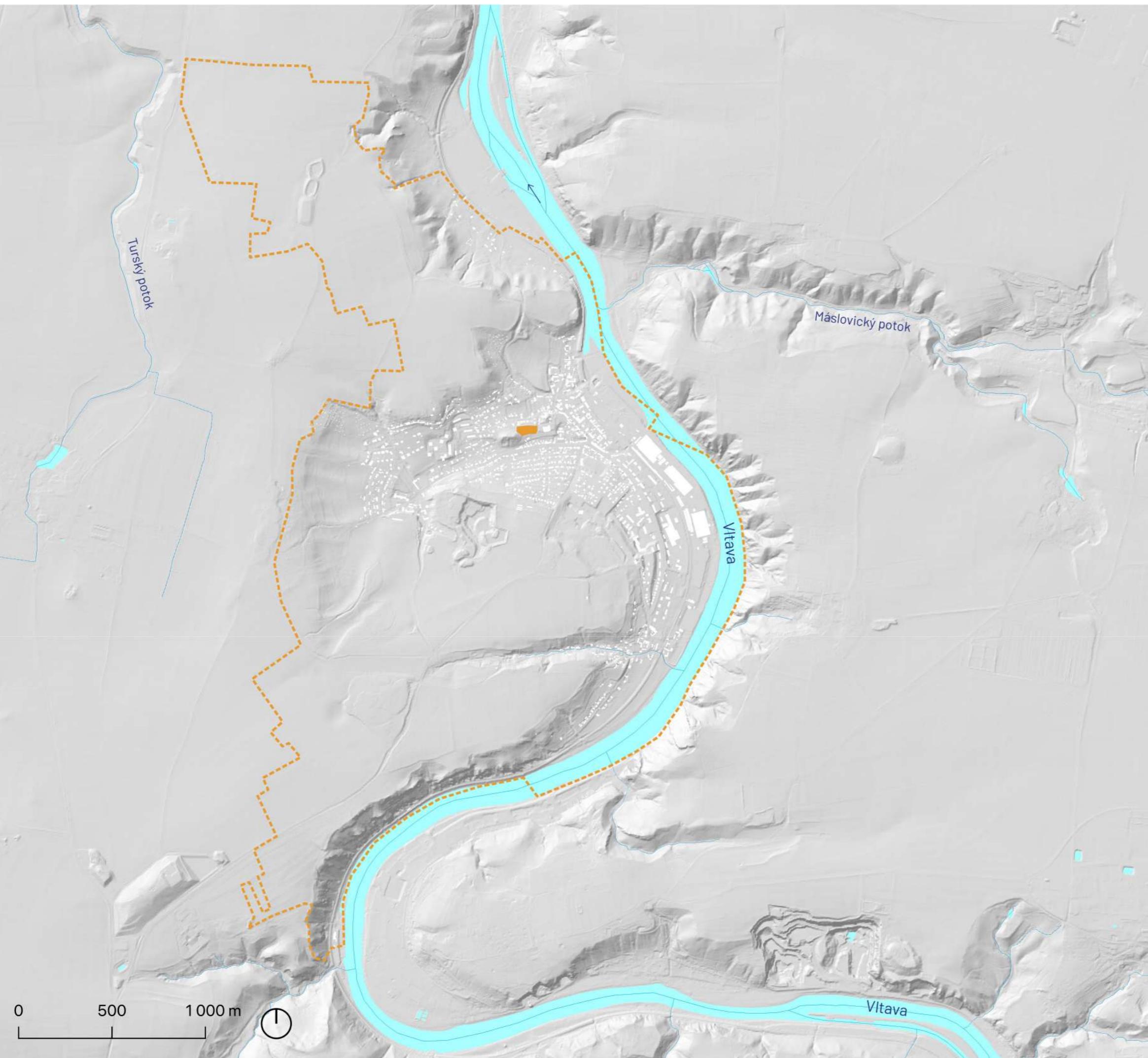
water bodies

The main watercourse that shapes the landscape surrounding Libčice nad Vltavou is the Vltava River. Apart from it, there are no other large rivers flowing through the area, only smaller streams that flow from steep slopes into the river. In the valley where the Catholic cemetery is located, there used to be a stream that has been dammed up, so no watercourse flows through the area nowadays.

Vltava



https://libcickekrizovatky.cz/content/uploads/2018/06/cyklo_6127.jpg



Source: <https://ags.cuzk.cz/geoprohlizec/>

FLOOD-PRONE AREAS

LEGEND



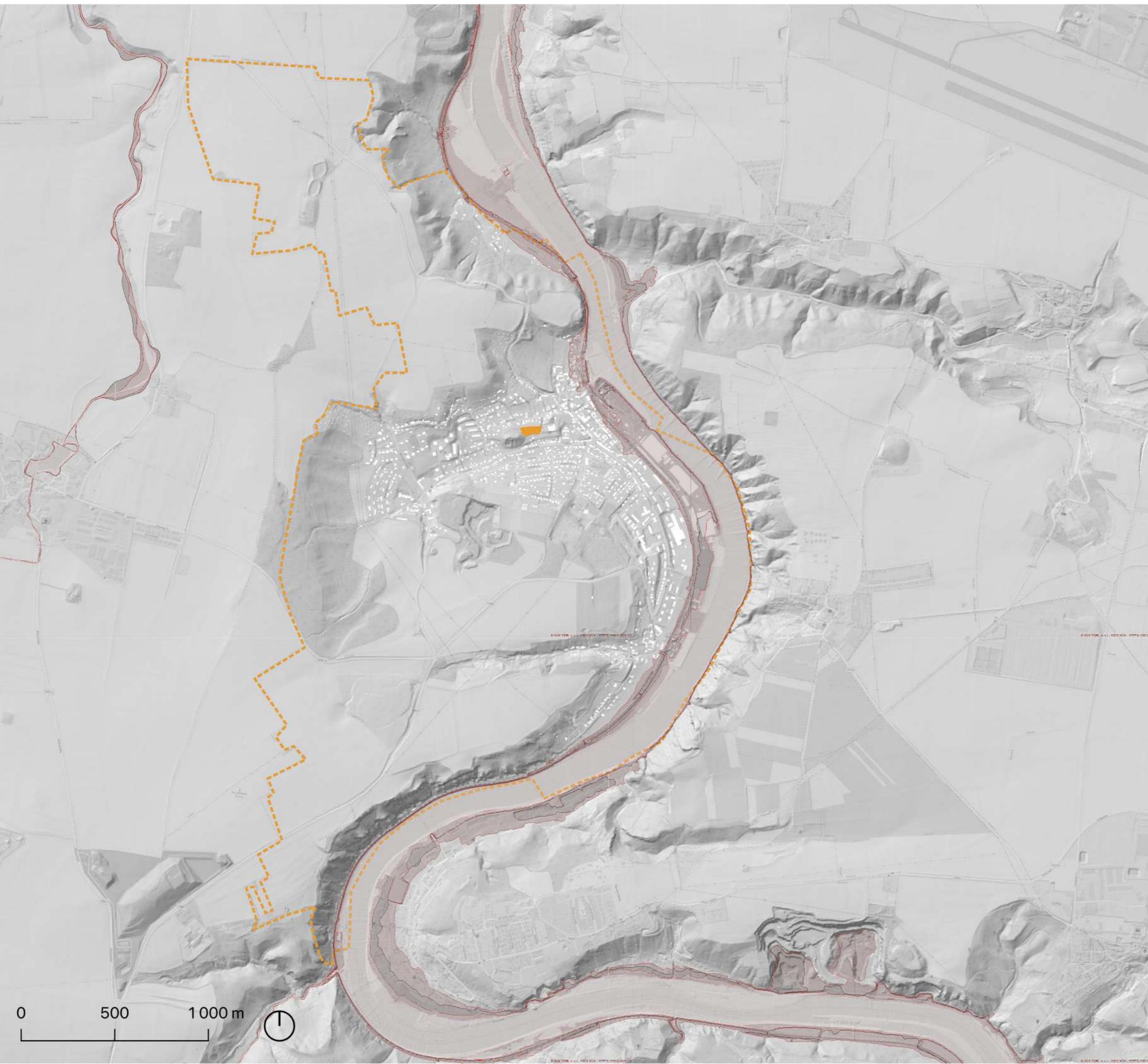
Libčice nad Vltavou



catholic cemetery

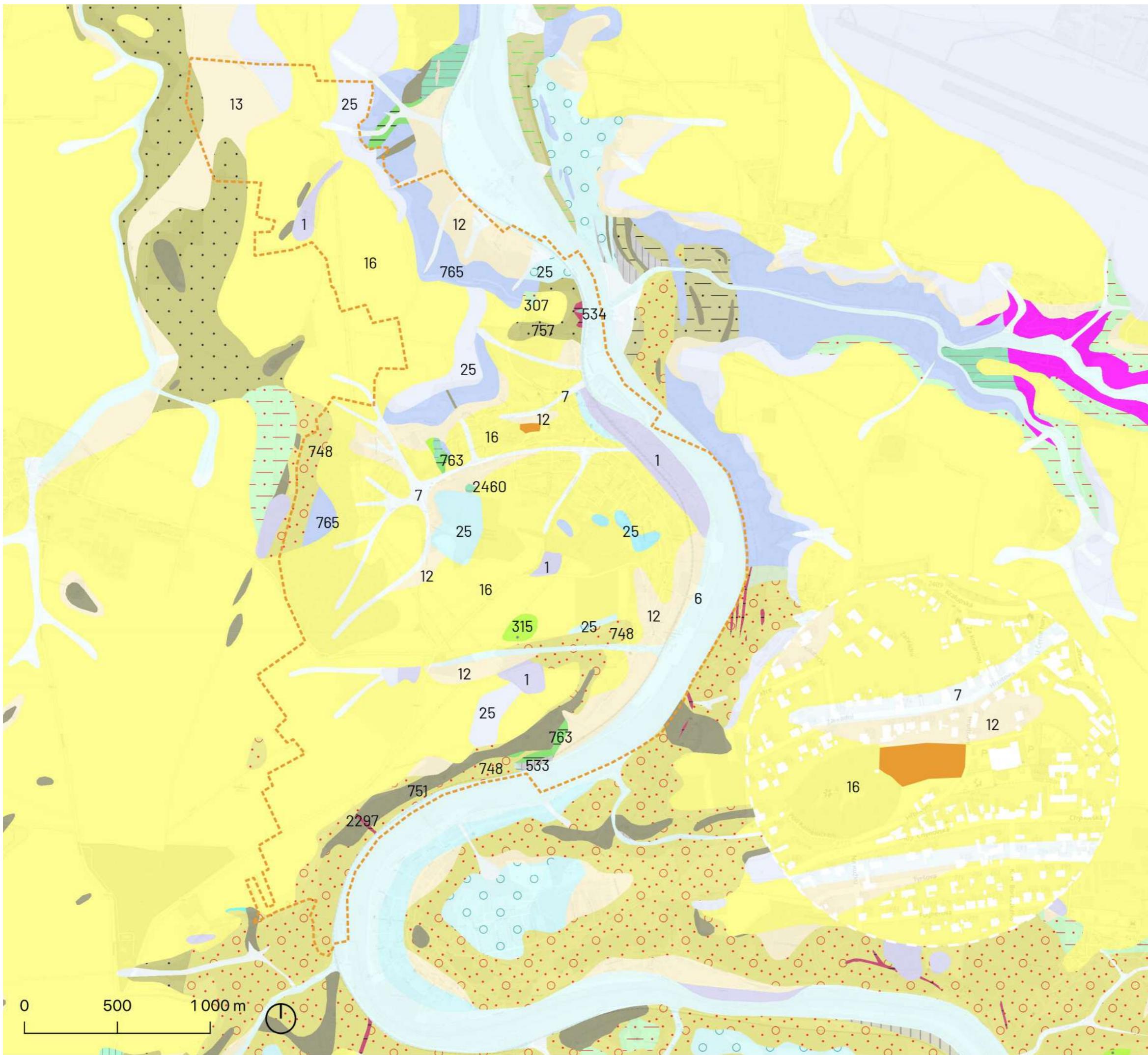


flood-prone areas



During floods, the Vltava spills into its surroundings and floods mainly its immediate surroundings (floodplain) up to the railway border. The city is protected, but the industrial areas along the river are mainly at risk.

Source: https://heis.vuv.cz/data/webmap/isapi.dll?map=isvs_zapluz&lon=14.3697892&lat=50.1888727&scale=30240



GEOLOGY

LEGEND



Libčice nad Vltavou

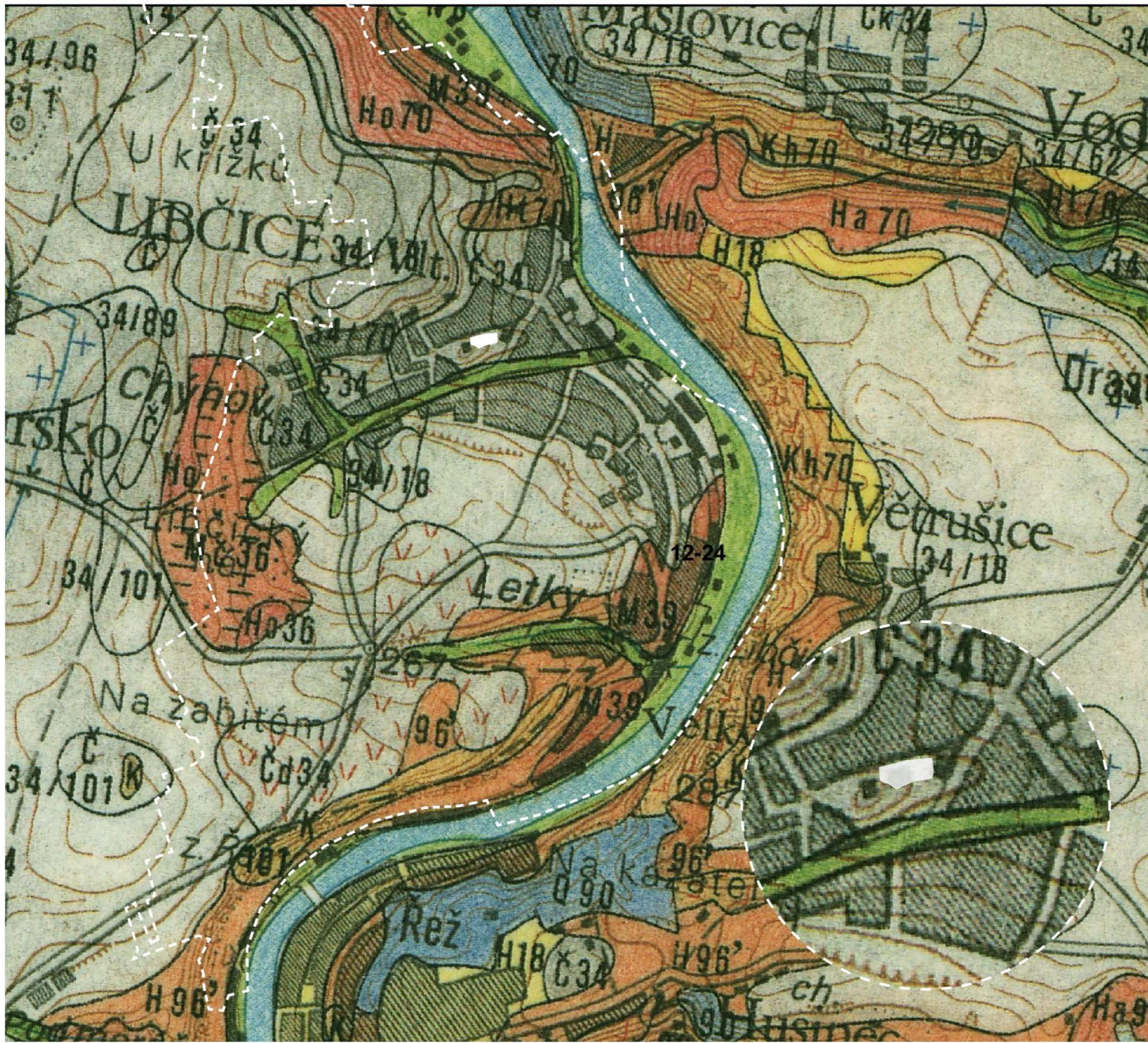


catholic cemetery

- | | |
|------|--|
| 6 | alluvial sediment |
| 7 | mixed sediment |
| 12 | sandy-loamy sediment |
| 13 | stony to clayey-stony sediment |
| 16 | loess and loess clay |
| 25 | sand, gravel |
| 307 | sandy claystones to spongolitic claystones, locally silicified (opuka) |
| 315 | sandstones quartz, clay, glauconitic |
| 533 | limestones, calcareous shales, siliceous rock, clayey and siliceous shales, sometimes volcanogenic admixture |
| 534 | granulates, granitic and ashy tuffs, volcanic breccias |
| 748 | greywacke, siltstone |
| 751 | siliceous rock |
| 757 | phytic greywacke and shale |
| 763 | basalt, andesite-basalt |
| 765 | basalt, andesite-basalt, tuffs |
| 2297 | quartz diorite, tonalite |
| 2460 | basalt |

The Catholic cemetery is located on loess bedrock, in the vicinity there is sandy-clay sediment and mixed sediment indicating the occurrence of a watercourse in the past.

Source: <https://mapy.geology.cz/geocr50/>



SOIL TYPES

LEGEND

	Libčice nad Vltavou
	catholic cemetery
	Č - chernozem (černozem)
	Čd - degraded chernozem
	N - alluvial soil (nivní půdy)
	M - haplic luvisol (hnědozem)
	Mc - haplic luvisol/chernozem
	H - brown soil (hnědá půda)
	K - ranker

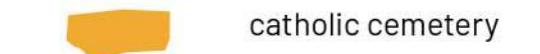
In most of the area there is fertile chernozem typical for loess subsoil in warm climatic areas. The Catholic cemetery is also located on chernozem.

POTENTIAL NATURAL VEGETATION

LEGEND



Libčice nad Vltavou



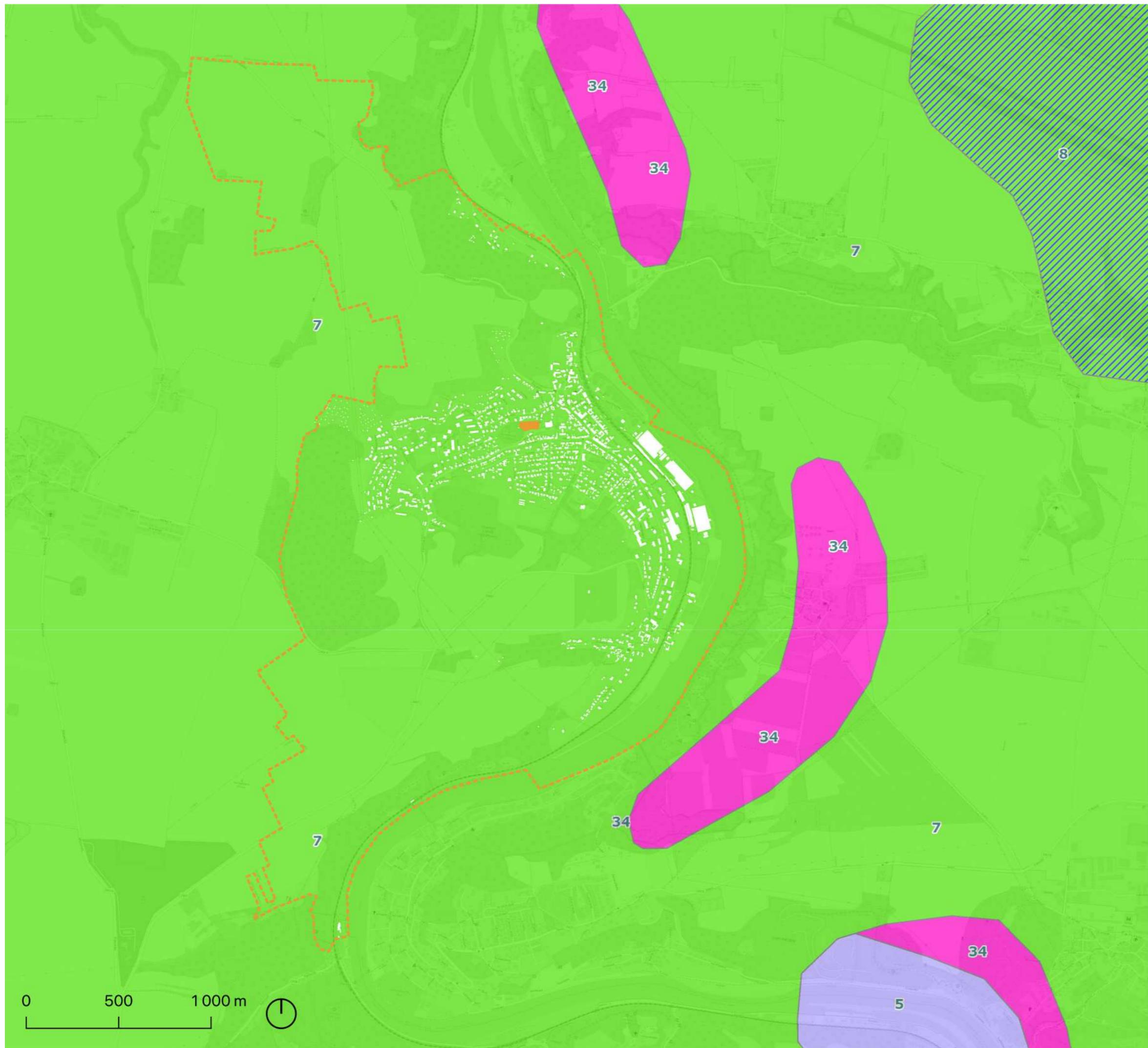
catholic cemetery



Čermýšová dubohabřina



Břeková doubrava



Čermýšová dubohabřina (oak-hornbeam) represents a climax vegetation on moderately moist, meso- to eutrophic soils of the haplic luvisol type in the lowlands and hilly stage of the Bohemian Highlands. The communities of natural composition have mostly an involved tree and herb layer. The composition of the tree layer depends on the management method. In the tall stands, dub zimní (*Quercus petraea*) and dub letní (*Quercus robur*) predominate, while in the coppice stands, habr (*Carpinus betulus*) dominates. Other tree species include *Tilia cordata*, *Acer pseudoplatanus*, *Fraxinus excelsior*, *Fagus sylvatica* and *Betula pendula*. In the shrub layer, tree species are regularly represented, which are most often associated with the common líška obecná (*Corylus avellana*), hloh ostrotrnný (*Crataegus oxyacantha*), svída krvavá (*Cornus sanguinea*), etc.

Source: map: <https://geoportal.gov.cz/web/guest/map?openNode=Land%20cover&key-wordList=inspire>, text: <https://kolowrat.webnode.cz/news/mc-cernysova-dubohabrina/>

PROTECTED AREAS

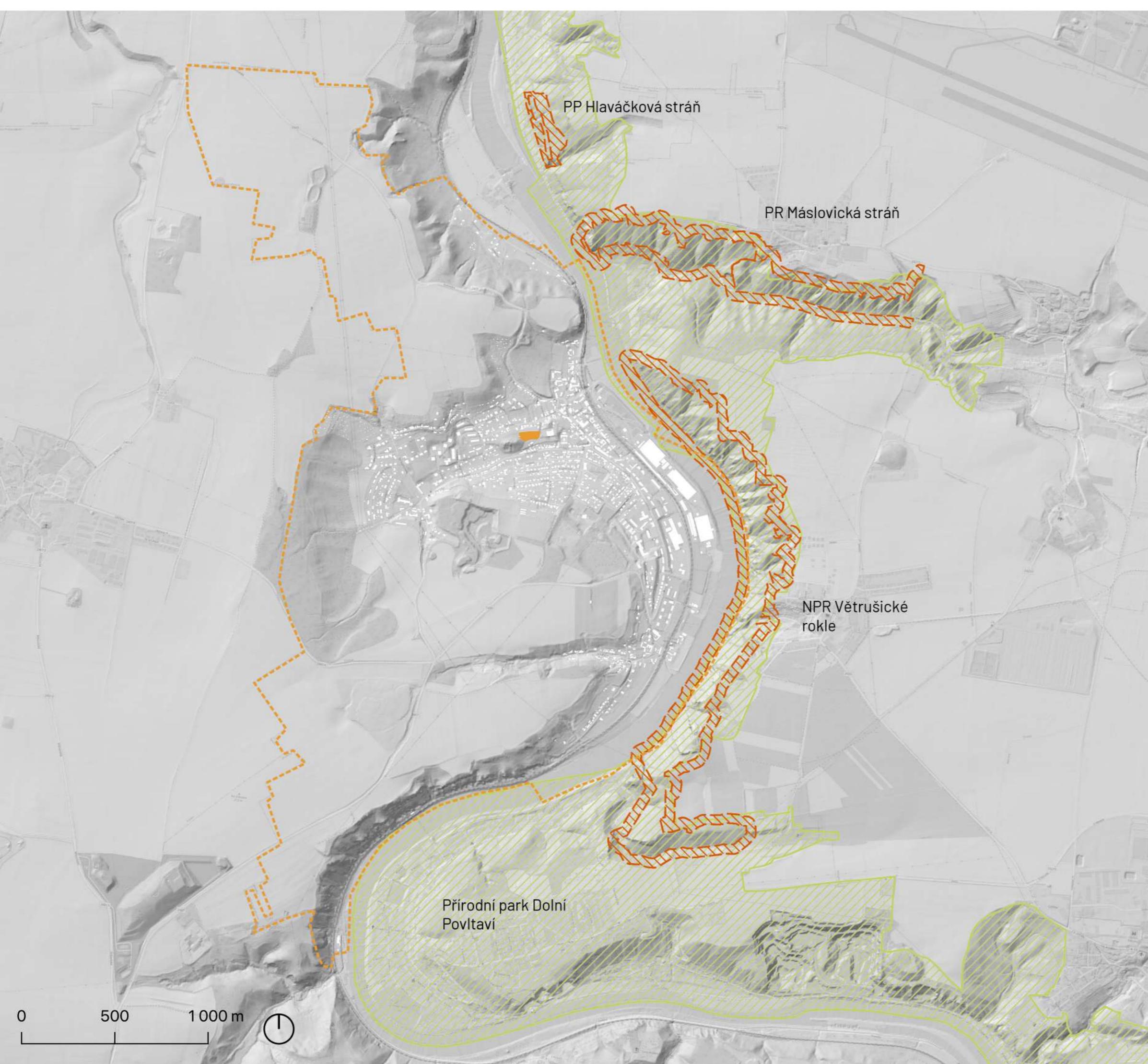
LEGEND



Libčice nad Vltavou



catholic cemetery



In the vicinity of Libčice nad Vltavou you can find the Dolní Povltaví Nature Park, the Větrušické Gorges National Nature Reserve, the Máslovická stráň Nature Reserve and the Hlaváčkova stráň Nature Monument.

Nature park Dolní Povltaví



<https://viaczechia.cz/wp-content/uploads/via-czechia-dolni-povltavi-1.jpg>

NPR Větrušické rokle

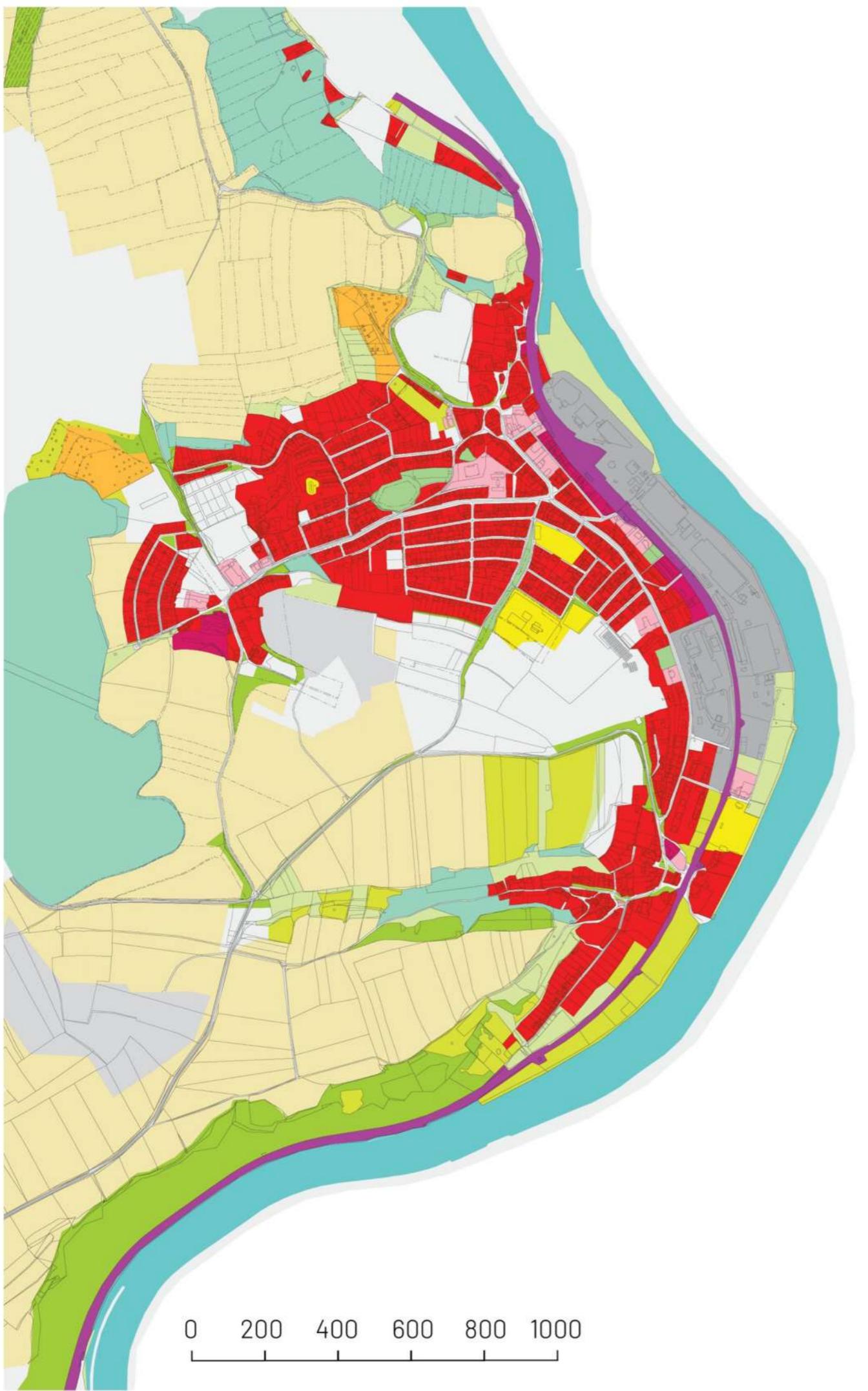


https://old.ochranaprirody.cz/res/archiv/306/037762_05_190151.jpg?seek=1467184540

Source: <https://geoportal.gov.cz/web/guest/map>

LAND USE

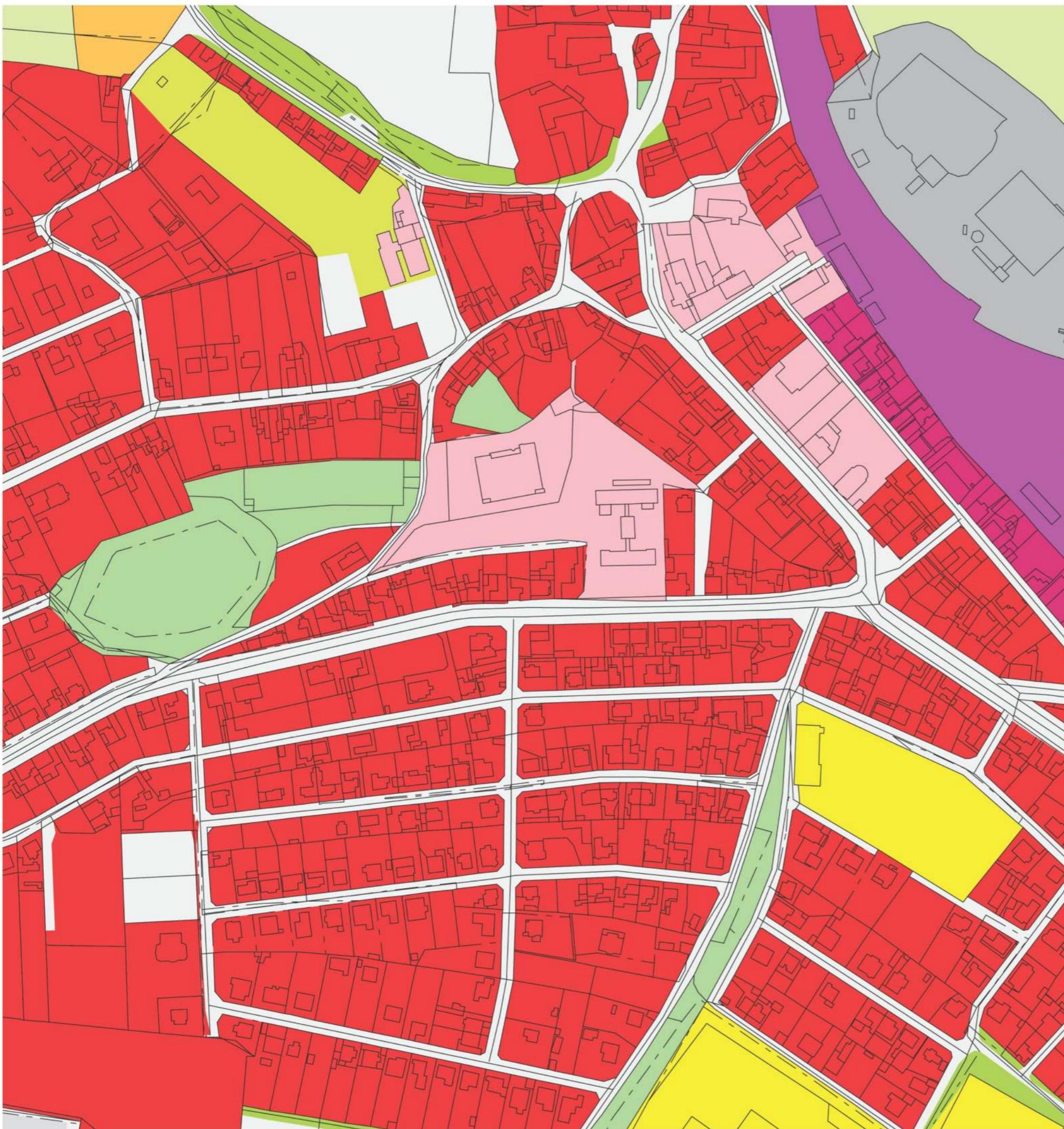
The city consists mainly of residential areas. Worth mentioning is the industrial area along the river Vltava.



- RESIDENTIAL AREA
- MIXED USE
- CIVIC FACILITIES
- LANDFILL AND MINING
- QUIET PRODUCTION AND WAREHOUSING
- GARDEN COLONIES
- SPORTS AND RECREATION
- RAILROAD
- FORESTS
- ORCHARDS AND GARDENS
- PARKS AND CEMETERIES
- MEADOWS AND PASTURES
- OTHER GREEN AREAS
- FERTILE SOIL

LAND USE

The cemetery is surrounded by residential lots, with the exception of the police station placed opposite the entrance of the cemetery.



RESIDENTIAL AREA

MIXED USE

CIVIC FACILITIES

LANDFILL AND MINING

QUIET PRODUCTION AND WAREHOUSING

GARDEN COLONIES

SPORTS AND RECREATION

RAILROAD

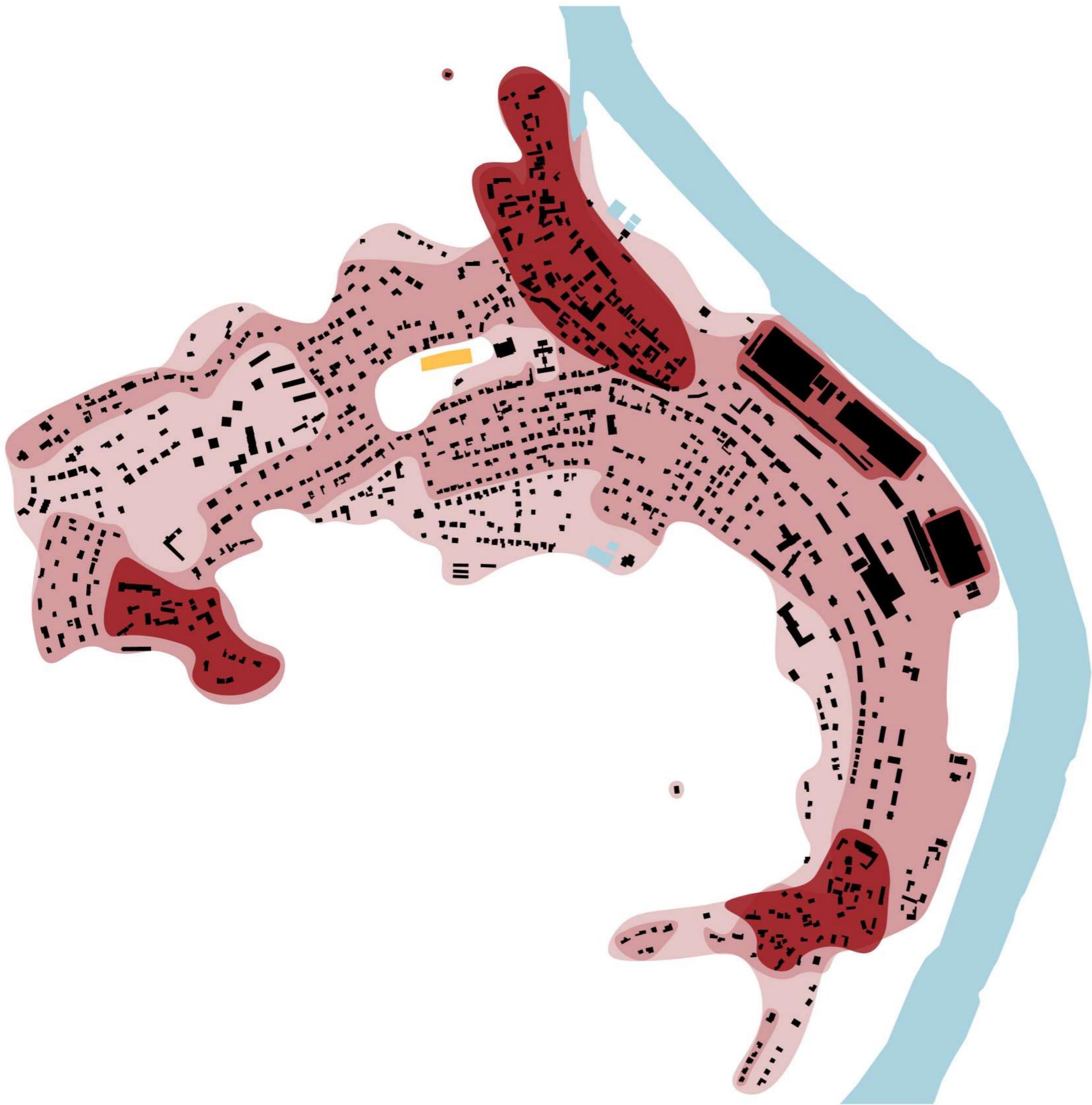
PARKS AND CEMETERIES

ORCHARDS AND GARDENS

0

200

URBAN DEVELOPMENT



The merger of the three neighbouring villages of Libšice, Letek and Chejnov created the town of Libčice nad Vltavou in 1924. In the 1920s Libčice was a local industrial centre, with a pawnshop, a building cooperative, an ironworks, two brickworks and two chemical plants. The town was not affected by the process of suburbanisation, which would have caused a significant increase in population, and so there have been no significant changes since the 1990s.

	UNTILL 1768
	UNTILL 1878
	UNTILL 1963
	UNTILL TODAY
	CATHOLIC CEMETERY EST. 1854

TRANSPORTATION AND ROADS



Rail station

Bus stop

Sources:
<https://www.libcice.cz/mesto-a-urad/o-meste/soucasnost/>
<https://en.mapy.cz/>

TRANSPORTATION



LEGEND

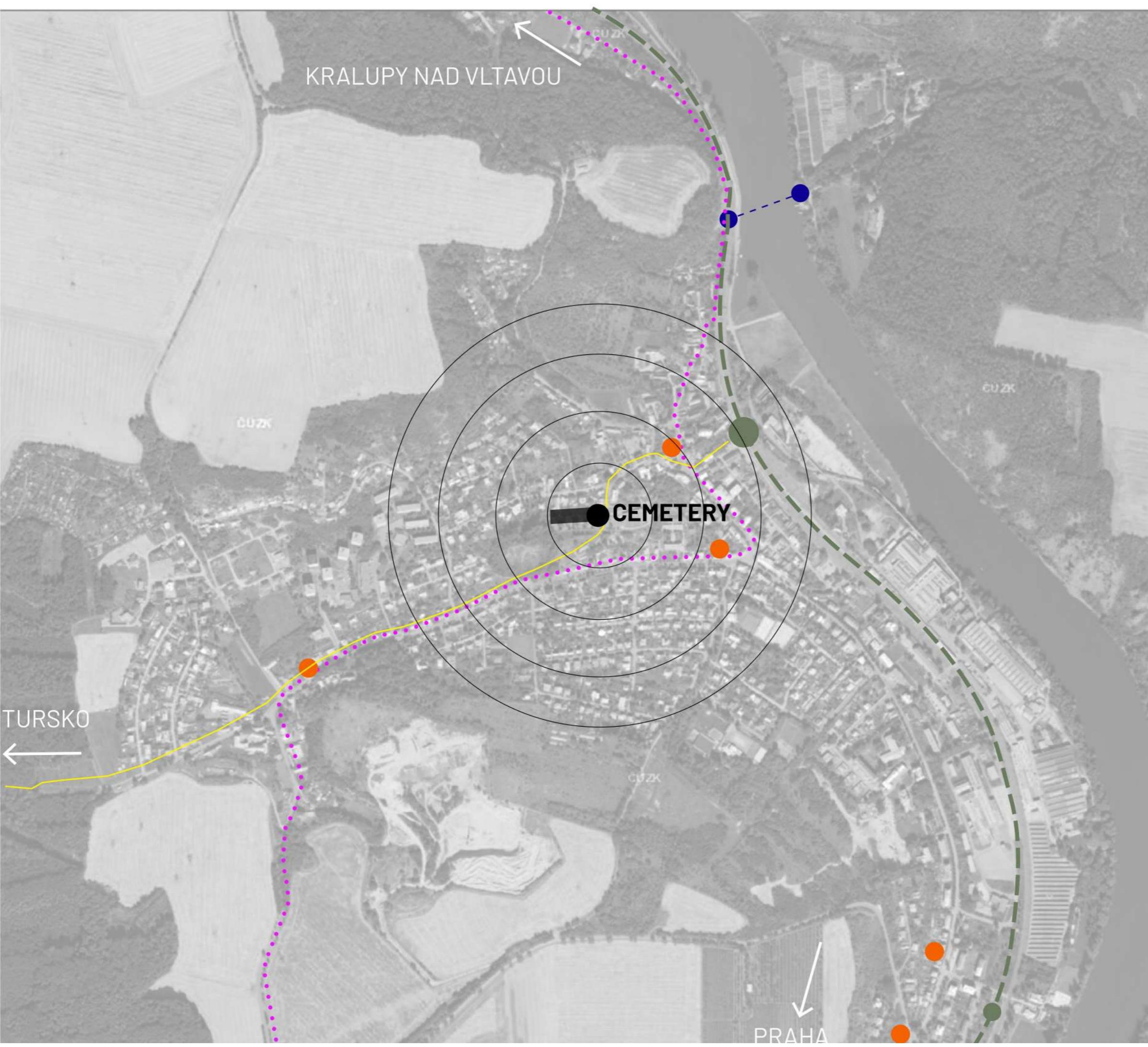
- train**
- boat**
- turistic route**
- bicycle path**
- train station**
- bus station**
- boat station**



1:7500

Resources:
<https://mapy.cz/turisticka>
<https://ags.cuzk.cz/geoprohlizec/>

TRANSPORTATION



TRAIN - PRAGUE

23:12 8.10. ne	Celkový čas 26 min, vzdálenost 21 km
08.9566 1.2 ↗ ⏲ 51 Kč	Odjezd býv.vlás ⚠️
23:12 Praha Masarykovo n. ⚡	
23:38 Libčice n.Vltavou	
▼ Detaily spojení	Detaily Sdílet Záložka Vložit do kalendáře
cena 51 Kč	Do košíku
0:30 9.10. po	Celkový čas 30 min, vzdálenost 21 km
08.9560 ↗ ⏲ 51 Kč	Odjezd býv.vlás ⚠️
0:30 Praha M.N. ⚡	
1:00 Libčice n.Vltavou	
▼ Detaily spojení	Detaily Sdílet Záložka Vložit do kalendáře
cena 51 Kč	Do košíku
4:42 9.10. po	Celkový čas 26 min, vzdálenost 21 km
08.9502 1.2 ↗ ⏲ 51 Kč	Odjezd býv.vlás ⚠️
4:42 Praha Masarykovo n. ⚡	
5:08 Libčice n.Vltavou	
▼ Detaily spojení	Detaily Sdílet Záložka Vložit do kalendáře
cena 51 Kč	Do košíku
5:12 9.10. po	Celkový čas 26 min, vzdálenost 21 km
08.9604 1.2 ↗ ⏲ 51 Kč	Odjezd býv.vlás ⚠️
5:12 Praha Masarykovo n. ⚡	
5:38 Libčice n.Vltavou	
▼ Detaily spojení	Detaily Sdílet Záložka Vložit do kalendáře
cena 51 Kč	Do košíku

TRAIN - KRALUPY NAD VLTAVOU

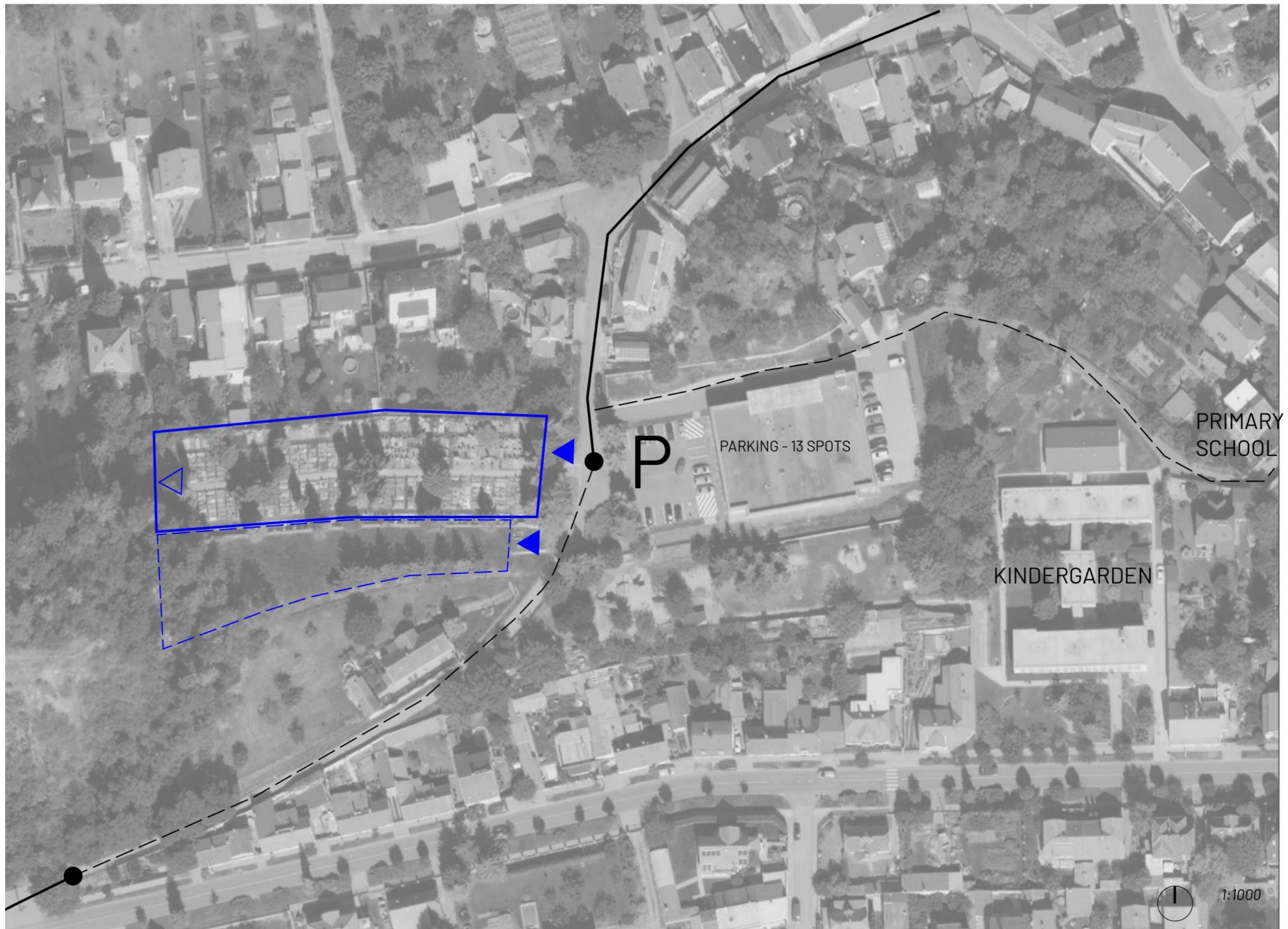
5:08 9.10. po	Celkový čas 7 min, vzdálenost 6 km
08.9502 1.2 ↗ ⏲ 24 Kč	Odjezd býv.vlás ⚠️
5:08 Libčice n.Vltavou	
5:15 Kralupy n.Vltavou	
▼ Detaily spojení	Detaily Sdílet Záložka Vložit do kalendáře
cena 24 Kč	Do košíku

BUS - PRAGUE

5:51 9.10. po	Celkový čas 29 min, vzdálenost 18 km
Bus 456	AUTODOPRAVA LAMER s.r.o.
Odjezd býv.vlás ⚠️	
5:51 Libčice n.Vlt., Chyňov	
5:56 Tursko	
Bus 318 ↗	ESACIA AUTO Klínovec s.r.o.
Odjezd býv.vlás ⚠️	
5:57 Tursko	
6:20 Praha, Bořislavka	
▼ Detaily spojení	Detaily Sdílet Záložka Vložit do kalendáře

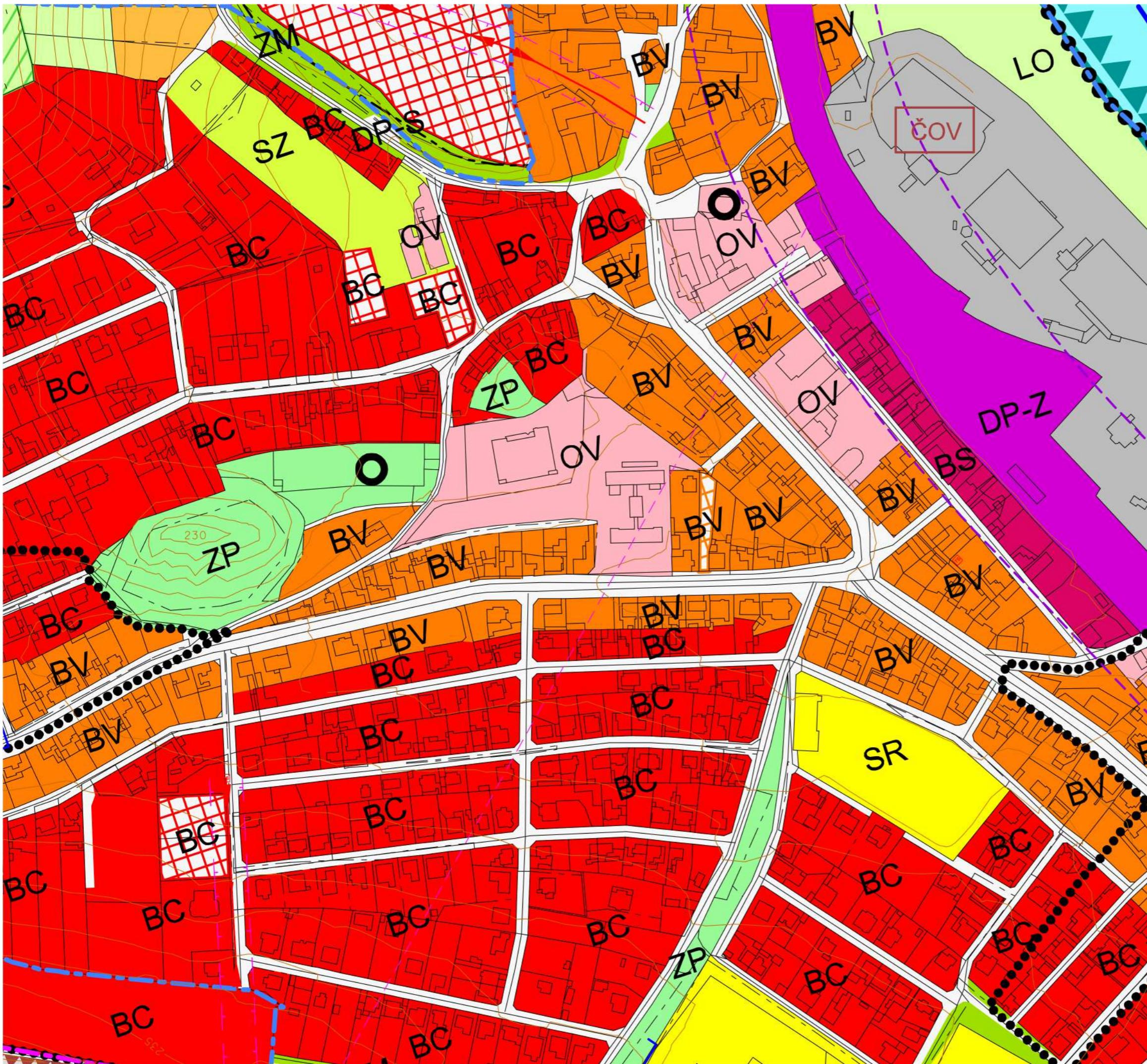
Resources:

<https://mapy.cz/turisticka>
<https://idos.idnes.cz/vlakyautobusymhdvse>
<https://ags.cuzk.cz/geopohlizec/>



Resources:
<https://mapy.cz/turistica>
<https://ags.cuzk.cz/geopohlizec/>

TERRITORIAL PLAN



Resources:
<https://www.libcice.cz/mesto-a-urad/uzemni-plan/>



1:2500

LEGEND

BC		čistě obytné území
BV		všeobecně obytné území
BS		smíšené území
OV		občanské (veřejné) vybavení
TV		plochy technického vybavení
DT		deponie a těžba
VS		nerušící výroba a skladování
IR		individuální rekreace (vč. chatových)
SR		sportovní a rekreační plochy
DP-S		dopravní plochy silniční
DP-Z		dopravní plochy železniční
LE		lesy
SZ		sady a zahrady
ZP		parky a hřbitovy
LO		louky a pastviny
ZM		ostatní mimolesní zelen (přírodní)
OP		orná půda
ZR		území k rekultivaci
•••••		doprovodná zelen komunikaci

- : hranice řešeného území
- : hranice katastrálního území
- : hranice současně zastavěného území
- - -**: návrh zastavitelného území

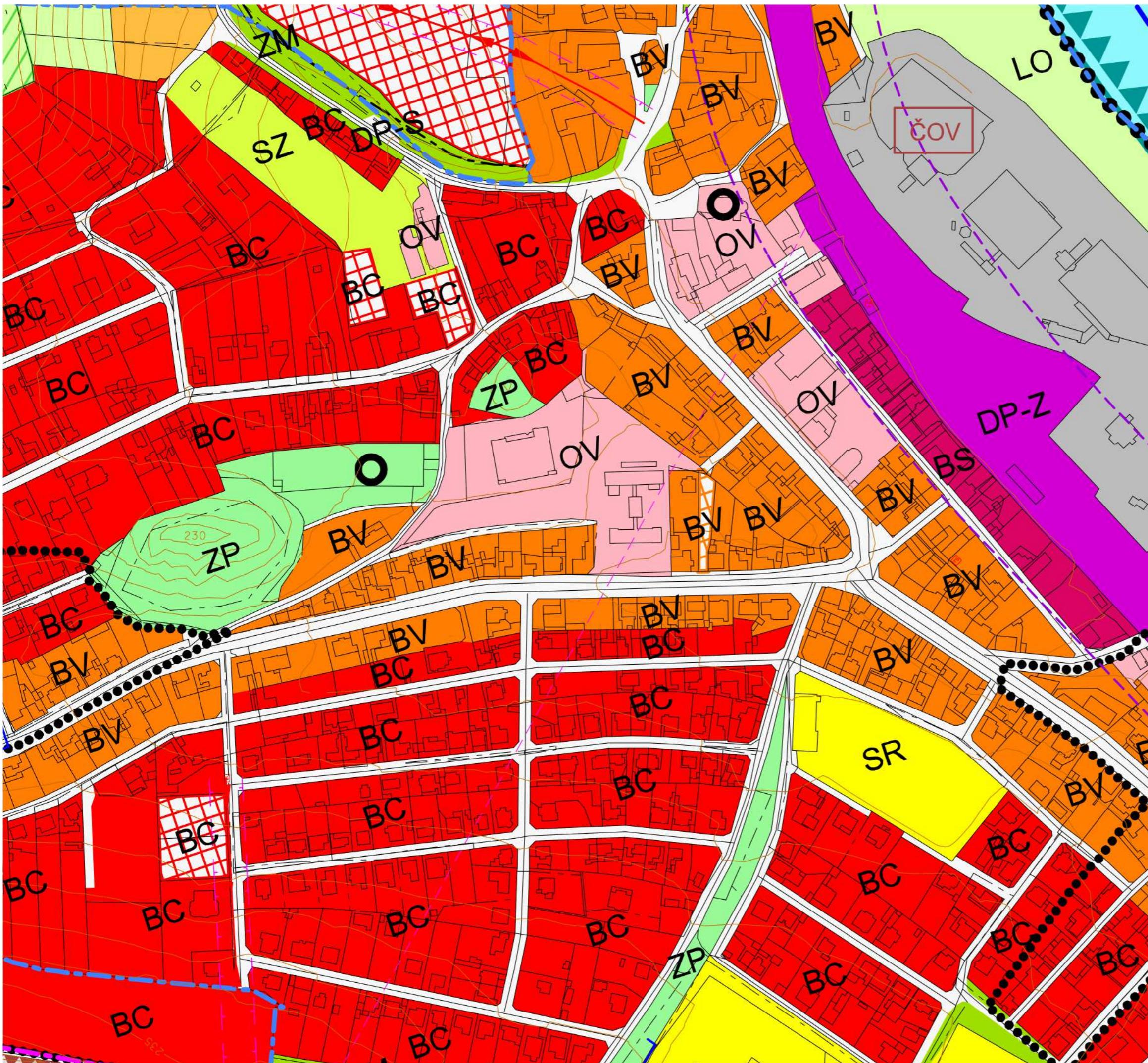
TERRITORIAL PLAN

LEGEND

- [Symbol: grey rectangle] komunikace III. třídy
- [Symbol: white rectangle] ostatní komunikace (místní, účelové a jiné cesty)
- [Symbol: dashed line] ochranné pásmo komunikací
- [Symbol: dashed line with purple dots] ochranné pásmo železnice
- [Symbol: dashed line with red arrow] hluková izofona $L_{Aeq,D} 60 \text{ dB}$ - letiště Vodochody
- [Symbol: red arrow] vedení VVN 110 kV
- [Symbol: red arrow] vedení VN 22 kV
- [Symbol: dashed line with black dots] ochranné pásmo vedení VVN 110 kV a VN
- [Symbol: orange line] VTL plynovod
- [Symbol: dashed line with orange dots] bezpečnostní pásmo VTL plynovodu
- [Symbol: pink line] RR
- [Symbol: radioreléový paprsek]
- [Symbol: teal triangle] nadregionální biocentrum
- [Symbol: green diagonal lines] lokální biocentrum, lokální biokoridor funkční
- [Symbol: green double arrow] lokální biokoridor navržený
- [Symbol: green triangle] hranice ochr. pásma nadregionálního biok.
- [Symbol: black circle] nemovité kulturní památky popř. soubory
- [Symbol: grey shaded area] mohylové pohřebiště
- [Symbol: blue line] vodovodní přivaděč
- [Symbol: blue line with dots] stávající vodojem
- [Symbol: red rectangle] ČOV
- [Symbol: cyan rectangle] vodní toky
- [Symbol: blue dashed line] hranice záplavového území Q 100
- [Symbol: dashed line] plavební dráha
- [Symbol: red hatched area] dobývací prostor a CHLÚ
- [Symbol: red diagonal lines] ložiska výhradní
- [Symbol: green diagonal lines] území s ekologickou zátěží (odkaliště Šrot)
- [Symbol: green dashed line] ochranné pásmo lesa
- [Symbol: blue dotted line] přívoz

1:2500

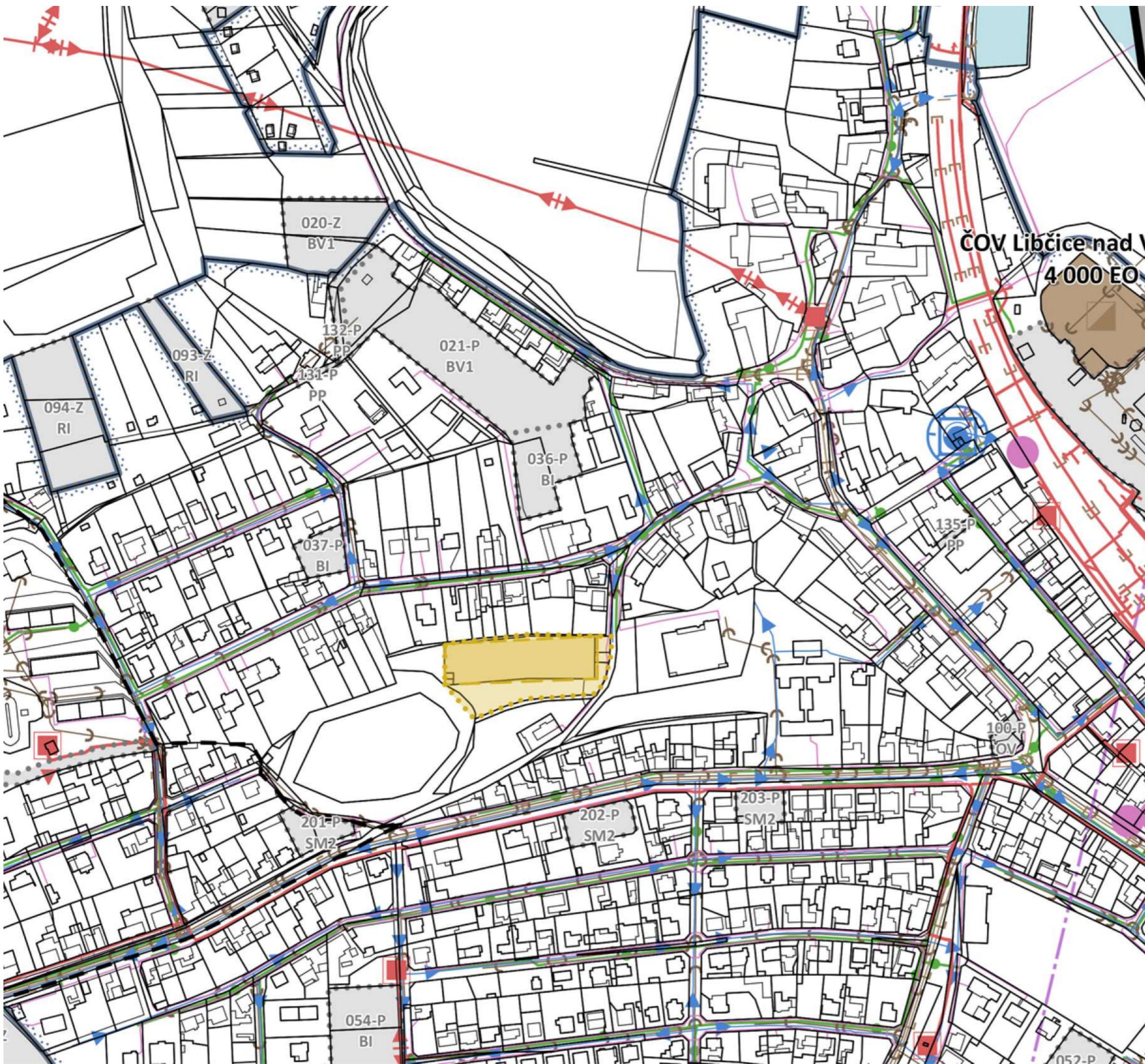
Resources:
<https://www.libcice.cz/mesto-a-urad/uzemni-plan/>



Technical infrastructure

LEGEND

- vodní zdroj podzemní vody
- investice do půdy – plošné
- nadzemní elektrické vedení VVN 110 kV
- nadzemní elektrické vedení VN 22 kV
- podzemní elektrické vedení VN 22 kV
- distribuční trafostanice
- VTL plynovod
- STL plynovod
- katodová ochrana plynovodu
- technologický objekt na plynovodu
- technologický objekt na plynovodu
- vodovodní řad
- čerpací stanice vodovodu
- technologický objekt zásobování vodou
- kanalizační stoka – splašková
- kanalizační stoka – dešťová
- čistírna odpadních vod
- radiové směrové spoje
- kabelové elektronické komunikační vedení
- elektronické komunikační zařízení



1:5000

OCHRANNÁ PÁSMA SÍTÍ TECH. VYBAVENÍ

(ČSN 73 6005 – Prostorové uspořádání sítí technického vybavení)

Vodovod a kanalizace

DN ≤ 500 1,5 m
DN > 500 2,5 m

Pokud dno potrubí bude uloženo ve větší hloubce než 2,5m a DN potrubí bude ≥ 200, pak ochranné pásmo bude 3,5m.

Elektřina

vzdušné vedení 1 kV – 35kV vodič bez izolace 7 m
s izolací základní 2 m
závěsná kabelová vedení 1 m
35 kV – 110 kV vodič bez izolace 12 m
s izolací základní 5 m
110 kV – 220 kV 15 m
220 kV – 440 kV 20 m
> 440 kV 30 m
podzemní vedení \leq 110 kV 1 m
> 110 kV 3 m
trafostanice 20 m

Plyn

VTL DN ≤ 100 15 m
VVTL DN ≤ 300 100 m
DN ≤ 250 20 m
DN ≤ 500 150 m
DN > 250 40 m
DN > 500 200 m
V zastavěném území NTL, STL 1 m
Technologické objekty, ostatní 4 m
Reg. stanice VTL 10 m
Reg. stanice VVTL 20 m

CZT

rozvod a výroba tepla 2,5 m

Telekomunikace

podzemní vedení 2m (někdy i 3m)

Strojní provádění výkopů je možné vykonávat pouze do vzdálenosti 1 m od vyznačené polohy podzemního vedení.

Pokud stavba nebo stavební činnost zasahuje do ochranného pásmo vedení, je třeba požádat o písemný souhlas vlastníka nebo provozovatele tohoto zařízení na základě §46, odst. (8) a (11) Zákona č. 458/2000 Sb.

NETWORK PROTECTION BANDS TECHNICAL EQUIPMENT

(ČSN 73 6005 – Spatial arrangement of networks of technical equipment)

Water supply and sewerage

DN ≤ 500 1,5 m
DN > 500 2,5 m

If the bottom of the pipeline will be laid at a depth greater than 2.5m and the DN of the pipeline will be \geq 200, then the protective zone will be 3.5 m.

Electricity

overhead line 1 kV – 35 kV conductor without insulation 7 m
with basic insulation 2 m
suspended cable lines 1 m
35 kV – 110 kV conductor without insulation 12 m
with basic insulation 5 m
110 kV – 220 kV 15 m
220 kV – 440 kV 20 m
> 440 kV 30 m
underground line \leq 110 kV 1 m
> 110 kV 3 m
substation 20 m

Gas

VTL DN ≤ 100 15 m
VVTL DN ≤ 300 100 m
DN ≤ 250 20 m
DN ≤ 500 150 m
DN > 250 40 m
DN > 500 200 m
In the built-up area of NTL, STL 1 m
Technological objects, others 4 m
Reg. VTL station 10 m
Reg. VVTL station 20 m

CZT

distribution and heat production 2,5 m

Telecommunication

underground line 2m (sometimes even 3m)

Excavation by machine can only be carried out up to a distance of 1 m from the marked position of the underground line.

If construction or construction activity interferes with the protection zone of the line, it is necessary request the written consent of the owner or operator of this facility on the basis of §46, paragraph (8) and (11) of Act No. 458/2000 Coll.

LEGEND



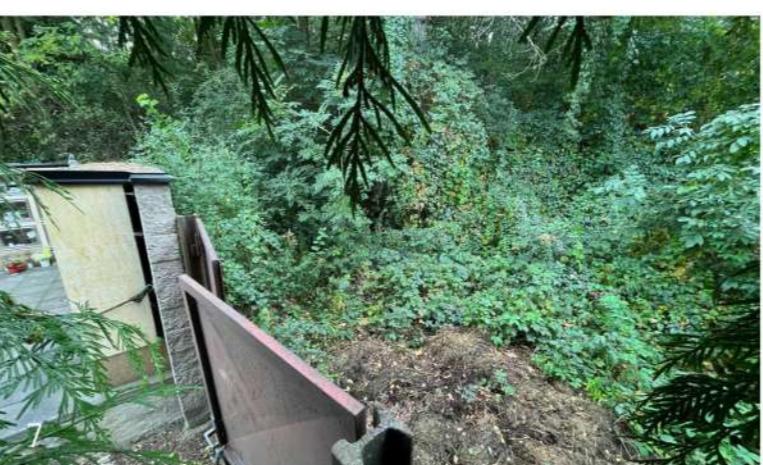
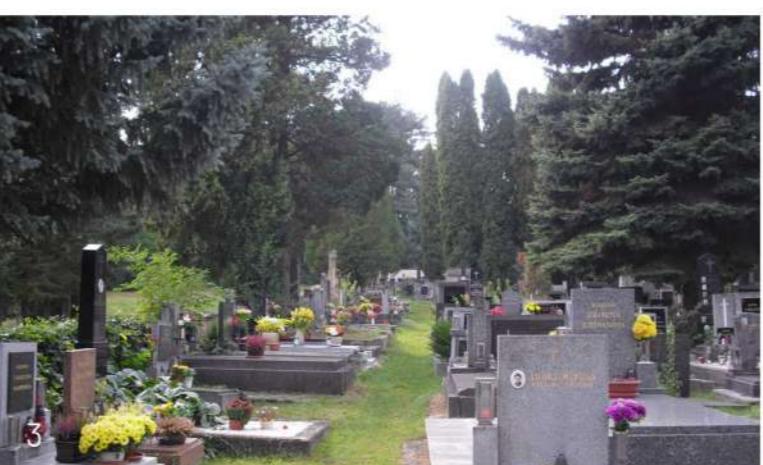
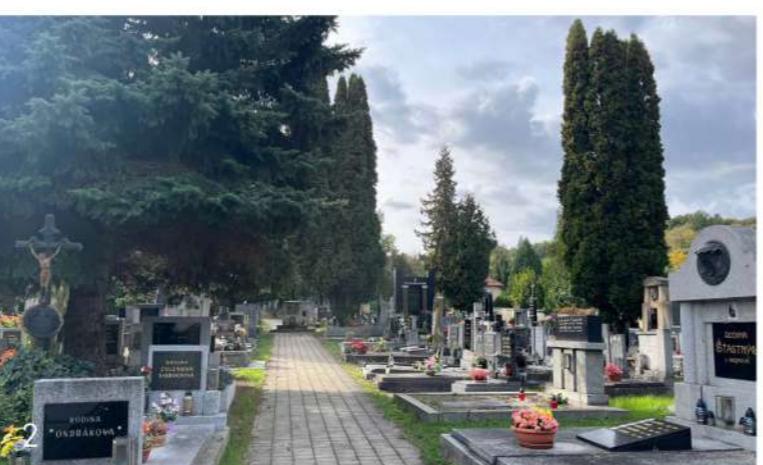
LEGENDA

- HROB
- VOLNÉ MÍSTO K PRONAJMUTÍ
- HROB S NEUHRAZENÝM NÁJMEM
- VÝZNAMNÝ HROB
- PANORAMA HŘBITOVA



1:500

PHOTODOCUMENTATION



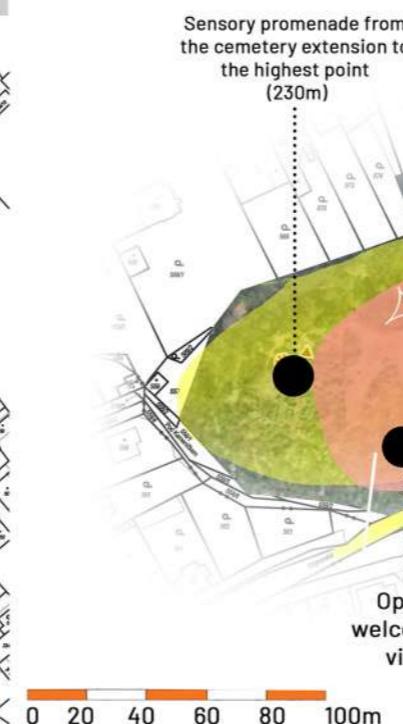
2. CONCEPT

Interventions



Program

QUIET AND
CONTEMPLATIVE
ENVIRONMENT

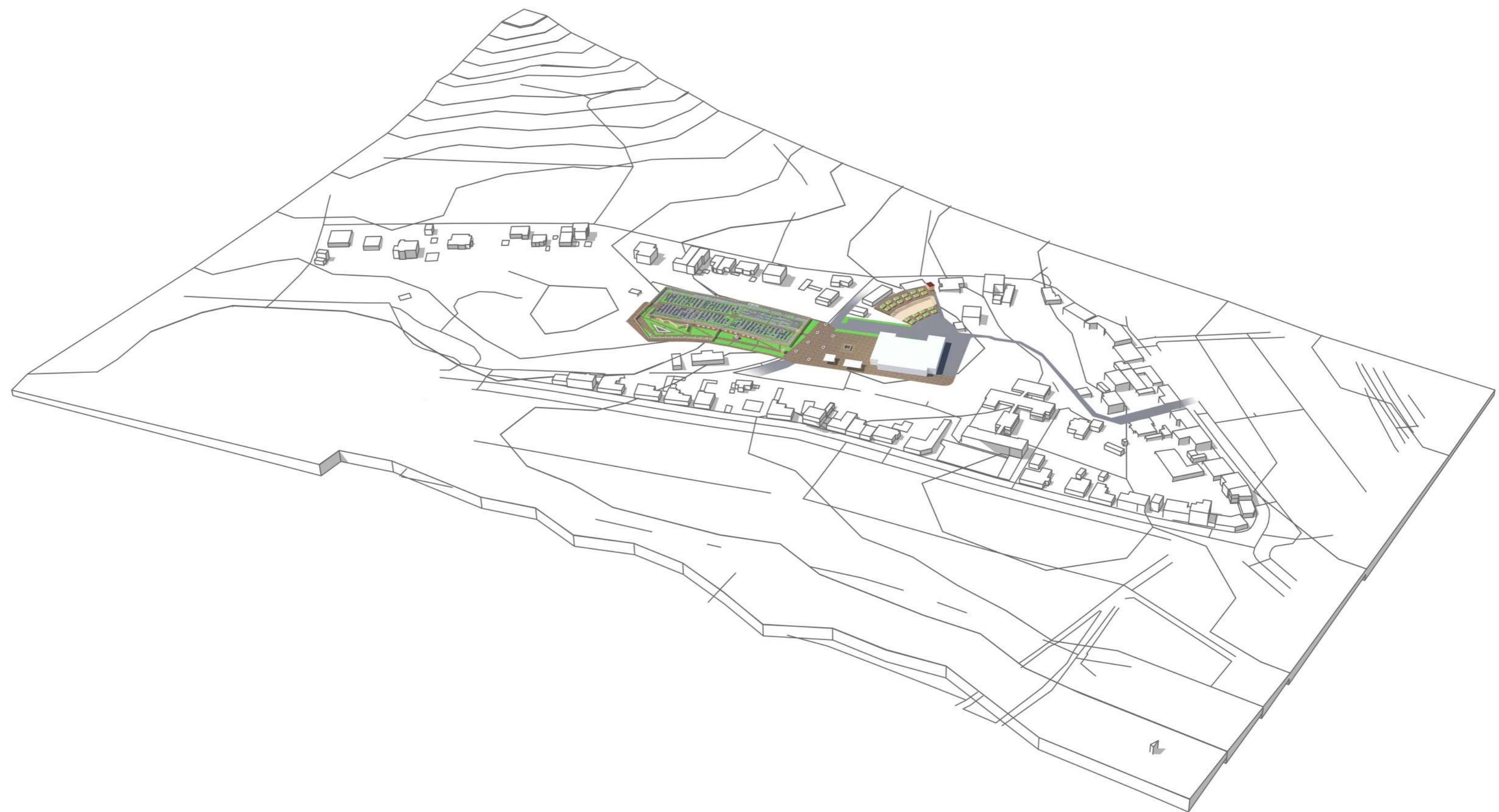


3. MASTER PLAN

1:1500



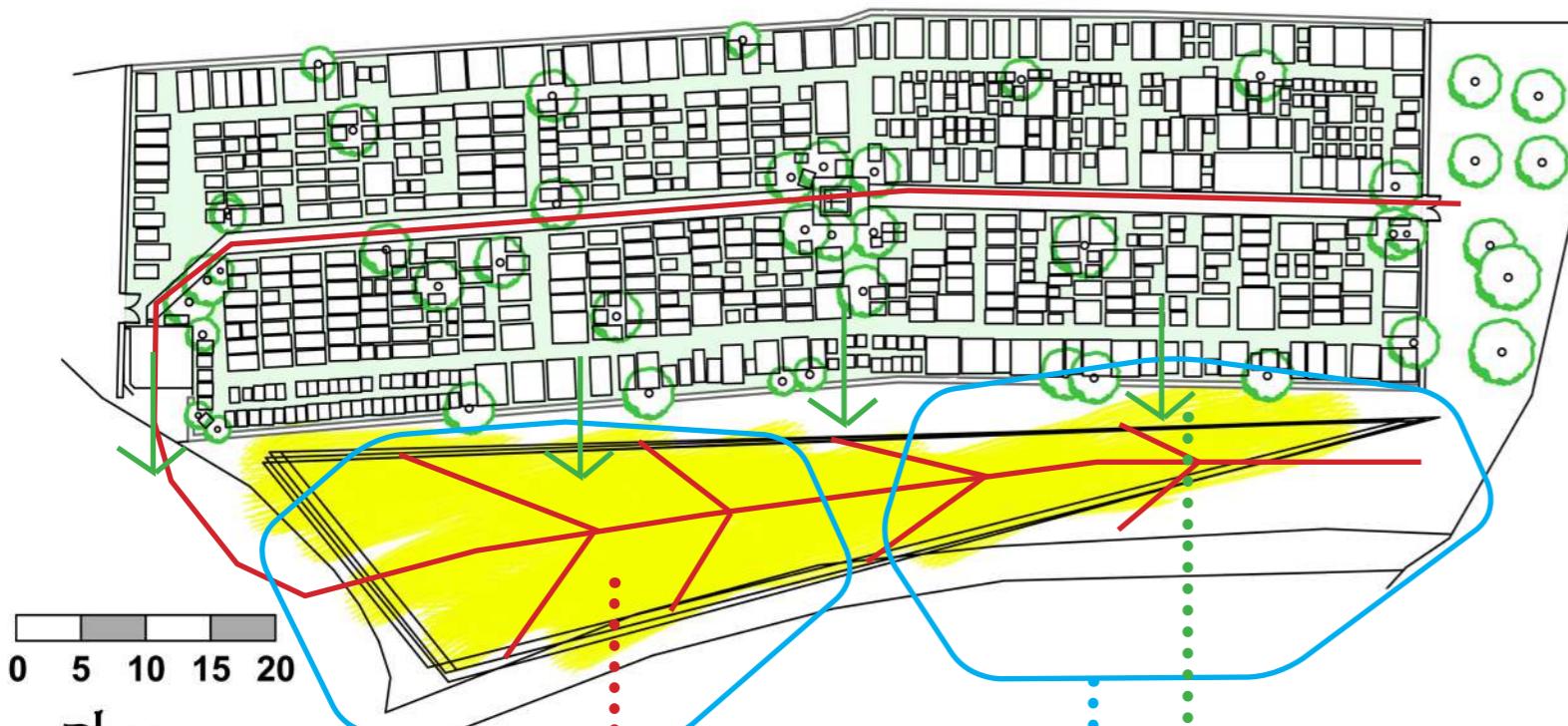
4. 3D VISUALISATION OF THE PROJECT



5. DESIGN

I. THE CEMETERY

1. CONCEPT: MORE THAN A CEMETERY



Plot:

- * Following the form of the plot, triangular, and dividing it by intersecting lines inspired by leaves textures.
- * Having the plot accessed from the cemetery to strengthen the connection between the two.
- * Dividing the plot into two spaces: cemetery extension with gates, and public space that is always open.
- * Adding new functions: columbarium, spaces offering opportunities to play, sit, linger and socialize.
- * Keeping a main path like the cemetery but offering more paths so that people can have different choices of walking every time.
- * Having dominant features as people walk, like a fountain and a sculpture, for the eyes to rest for a while.



Cemetery:

- * Revitalizing the cemetery by choosing vegetation that is varied and attracts wildlife.

- * A flowery garden all year long, with alternating vegetation.

- * A place to relax and take your time, not just to visit someone.

- * Planting following alternating and repeated patterns.

- * Engaging the five senses for a full positive sensory experience of the site:

- ** Sight: Diverse colours, heights, sizes, shapes and habits: (straight standing, creeping, or hanging), water features.

- ** Touch: Different surfaces and textures, sculptures, water features with the water flowing over hands.

- ** Smell: Fragrances and aromas, strong scented plants

- ** Sound: Water elements (trickling water), wind rustling through leaves, flowers attracting wildlife, bird baths.

- ** Taste: fresh herbs and edible flowers.

2. VEGETATION PLAN



SOUND



SCENT



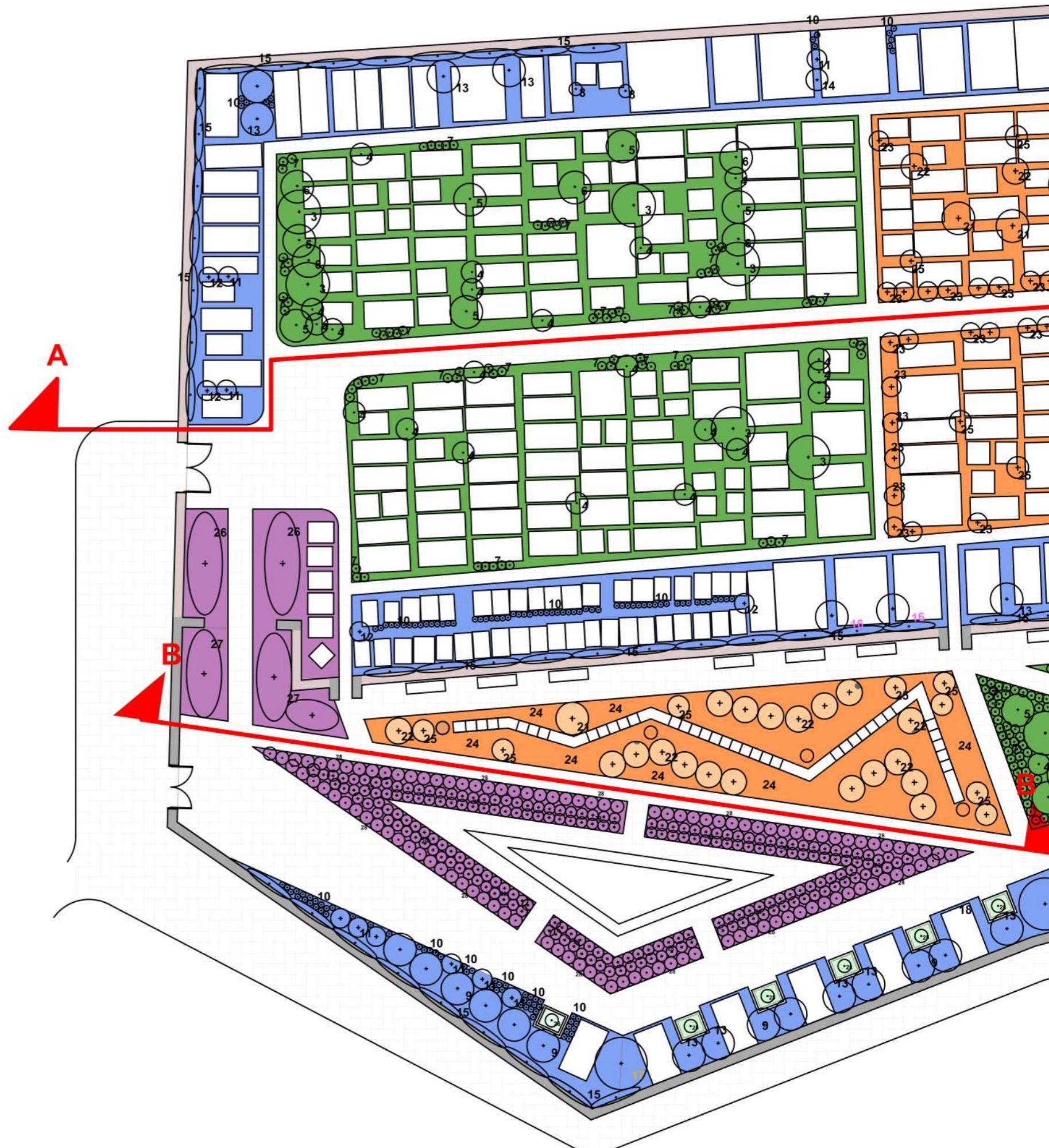
TOUCH



TASTE



SIGHT





3. PLANTS AND MATERIALS

SCENT

1.*Wisteria floribunda Kuchi Beni*



2.*Jasminum officinale*



3.*Buddleja davidii Nanho blue*



4.*Viburnum bodn. Dawn*



5.*Syringa meyeri Palibin*



6.*Ceanothus Victoria*



7.*Acorus gramineus Ogon*



SIGHT

2.*Jasminum officinale*



8.*Achillea millefolium mixed colours*



9.*Viburnum davidii*



10.*Allium Globemaster, Gladiator*



11.*Hosta Blue mouse ears*



12.*Hosta Guacamole*



1.*Wisteria floribunda Kuchi Beni*



13.*Mahonia aquifolium Blackfoot*



14.*Cornus canadensis*



15.*Rosa Eden*



16.*Cornus alba Sibirica*



17.*Cornus stolonifera Flaviramea*



18.*Buddleja globosa*



19.*Acer palmatum Shishigashira*



20.*Acer palmatum Sango Kaku*



28.*Erica carnea Ice Princess*



TOUCH

21.*Cotinus coggygria* Young Lady



22.*Cortaderia selloana* Pumila



23.*Stachys byzantina*



24.*Sagina subulata* mossgreen



25.*Pennisetum alopecuroides* Black Beauty



7.*Acorus gramineus* Ogon



SOUND

26.*Fargesia nitida* Black Pearl



27.*Phyllostachys aureos.* Spectabilis



28.*Erica carnea* Ice Princess



29.*Hakonechloa macra*



TASTE

30.*Amelanchier lamarckii*



31.*Rosmarinus officinalis* Alcalde Cold Hardy



32.*Mentha x piperita*



33.*Chamaemelum nobile*



34.*Thymus citriodorus*



35.*Thymus praecox* Coccineus



36.*Acer platanoides* Globosum



Permeable resin bound pavement

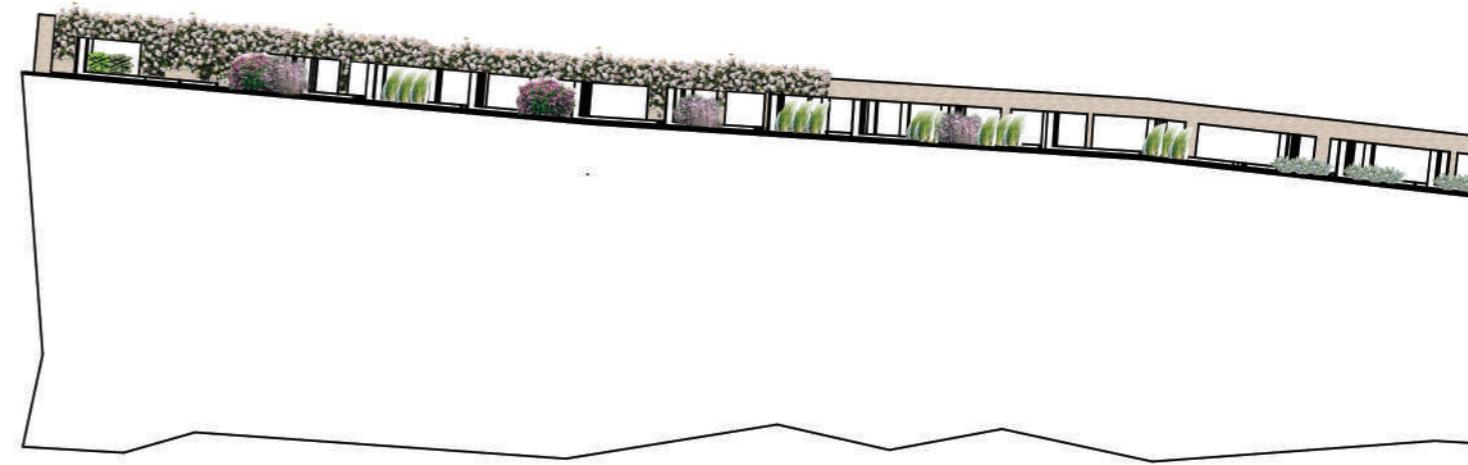
Permeable, low maintenance
resin bound that has no loose
aggregate, but a good slip
resistance to ensure safety
while walking.



PLANT NAME COMMON	PLANT NAME LATIN + CULTIVARS	HABIT	HEIGHT	SPREAD	EVERGREEN
1, Wisteria	<i>Wisteria floribunda</i> 'Kuchi-Beni'	climber	3m	2m	
2, Jasmine	<i>Jasminum officinale</i>	climber	4-8m	4-8m	yes
3, Butterfly bush	<i>Buddleja davidii</i> 'Nanho blue'	shrub	2-3m	2-4m	
4, Arrowwood	<i>Viburnum bodn.</i> 'Dawn'	shrub	1.5-2m	1-1.5m	
5, Korean Lilac (dwarf)	<i>Syringa meyeri</i> 'Palibin'	shrub	1.2m	1.5-2m	
6, California lilac	<i>Ceanothus</i> 'Victoria'	shrub	2m	2.5m	yes
7, Japanese sweet flag	<i>Acorus gramineus</i> 'Ogon'	clump	30-50cm	30-50cm	yes
2, Jasmine	<i>Jasminum officinale</i>	climber	4-8m	4-8m	yes
8, Yarrow	<i>Achillea millefolium</i> (mixed colours)	herb	30-60cm	60cm	
9, David viburnum	<i>Viburnum davidii</i>	low shrub	1m	1.5m	yes
10, Flowering onion	<i>Allium</i> 'Globemaster', 'Gladiator'	bulb	70-90cm	n/a (25cm flw)	
11, Plantain lily 'Blue mouse ears'	<i>Hosta</i> 'Blue mouse ears'	clump	10-60cm	25-90cm	
12, Plantain lily 'Guacamole'	<i>Hosta</i> 'Guacamole'	clump	10-60cm	25-90cm	
1, Wisteria	<i>Wisteria floribunda</i> 'Kuchi-Beni'	climber	3m	2m	
13, Oregon grape	<i>Mahonia aquifolium</i> 'Blackfoot'	shrub	50-100cm	1-1.5m	yes
14, Creeping dogwood	<i>Cornus canadensis</i>	spreading	15cm	1m	
15, Climbing rose	<i>Rosa</i> Eden	climber	150-300cm	150-180cm	
16, Tatarian dogwood	<i>Cornus alba</i> 'Sibirica'	shrub	120-210cm	90-150cm	
17, Golden-Twig Dogwood	<i>Cornus stolonifera</i> 'Flaviramea'	shrub	150-240cm	150-240cm	
18, Orange ball tree	<i>Buddleja globosa</i>	shrub	4m	1-3m	
19, Japanese maple 'Shishigashira'	<i>Acer palmatum</i> 'Shishigashira'	shrub - tree	130-250cm	100-180cm	
20, Japanese maple 'Sango-Kaku'	<i>Acer palmatum</i> 'Sango-Kaku'	shrub - tree	610-760cm	460-610cm	
28, Heather	<i>Erica carnea</i> 'Ice Princess'	low shrub	15cm	60cm	yes
36, Globe Norway Maple	<i>Acer platanoides</i> 'Globosum'	tree	3-5m	3-5m	
21, Smokebush	<i>Cotinus coggygria</i> 'Young Lady'	shrub	120-180cm	120-180cm	
22, Pampas grass (dwarf)	<i>Cortaderia selloana</i> 'Pumila'	grass	180cm	120cm	yes
23, Lamb's ears	<i>Stachys byzantina</i>	spreading	20cm	30-90cm	yes
24, Irish moss	<i>Sagina subulata</i> 'mossgreen'	spreading	5cm	???	yes
25, Chinese fountain grass	<i>Pennisetum alopecuroides</i> 'Black Beauty'	clump	1m	1m	
7, Japanese sweet flag	<i>Acorus gramineus</i> 'Ogon'	clump	30-50cm	30-50cm	yes
26, Fountain bamboo	<i>Fargesia nitida</i> 'Black Pearl'	clump	3-4m	1-2m	yes
27, Fishpole bamboo	<i>Phyllostachys aureos.</i> 'Spectabilis'	spreading	5-7m	5m	yes
28, Heather	<i>Erica carnea</i> 'Ice Princess'	low shrub	15cm	60cm	yes
29, Japanese forest grass	<i>Hakonechloa macra</i>	clump	50cm	50cm	
30, Juneberry	<i>Amelanchier lamarckii</i>	tree/shrub	8-12m	4-8m	
31, Rosemary	<i>Rosmarinus officinalis</i> 'Alcalde Cold Hardy'	shrub	80cm	60cm	yes
32, Peppermint	<i>Mentha x piperita</i>	spreading	40cm	60cm	yes
33, Roman chamomile	<i>Chamaemelum nobile</i>	herb	15cm	30cm	yes
34, Lemon thyme	<i>Thymus citriodorus</i>	herb	15-30cm	30-60cm	yes
35, Red creeping thyme	<i>Thymus praecox</i> 'Coccineus'	shrub	5-8cm	25-30cm	yes

4. SECTIONS

SECTION AA



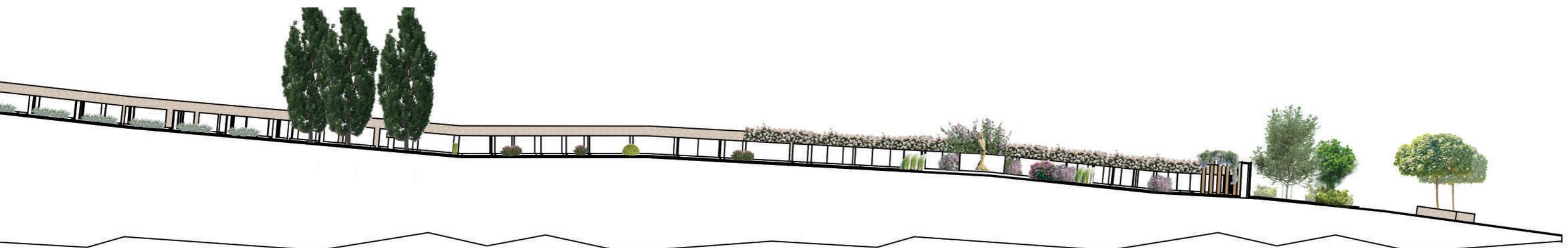
SECTION BB



SECTION CC



1:200



1:100

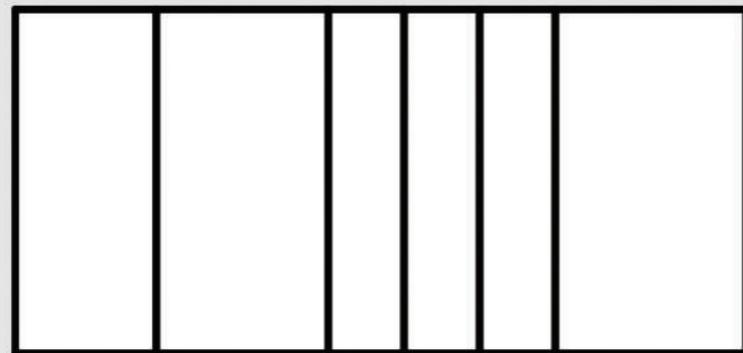


1:100



5. DETAILS

PLAN

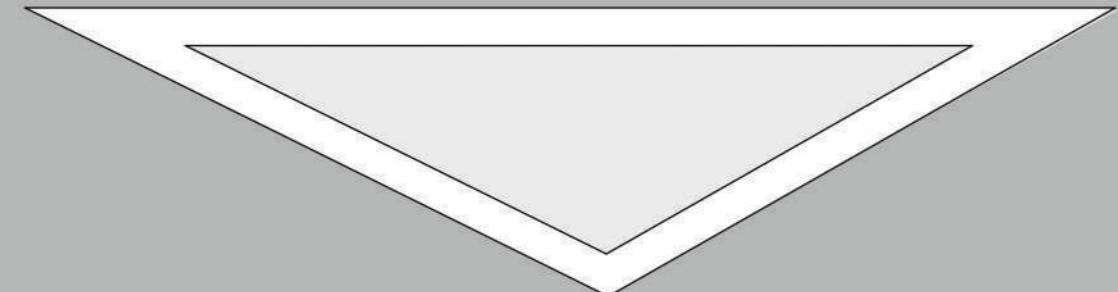


1:20

Sculpture

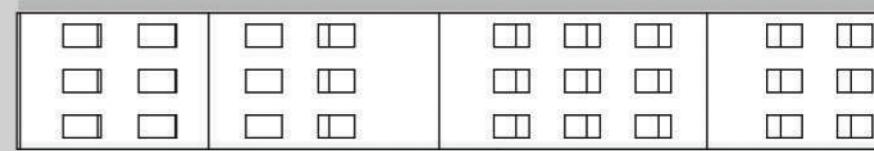
Wall

Bird fountain



1:100

SEC



1:100

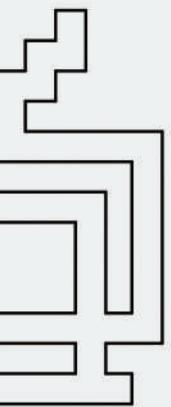


1:10

Fountain

CTION

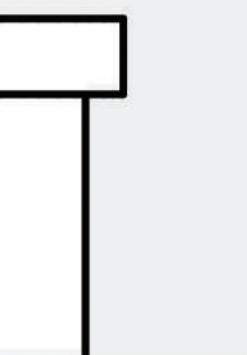
3D VIEW



1:50



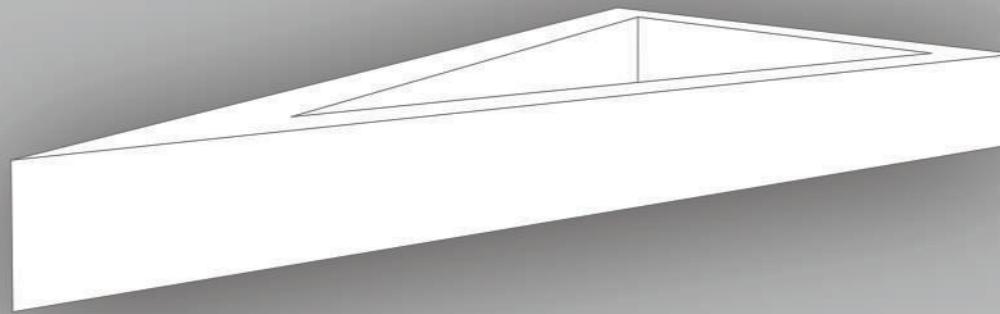
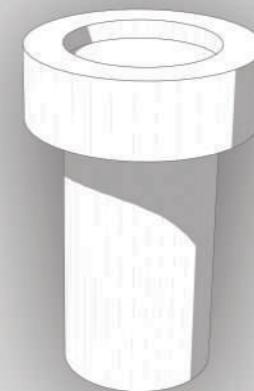
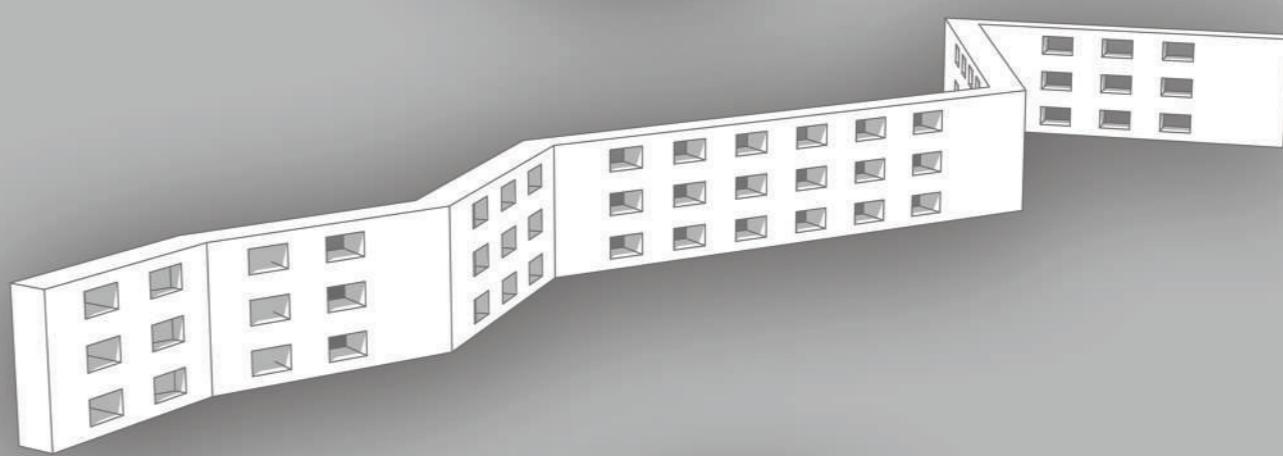
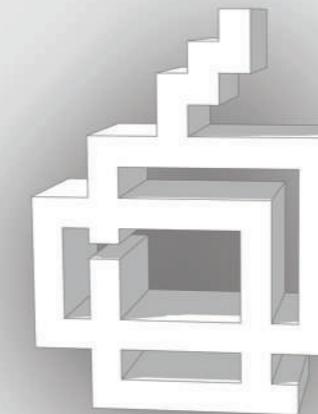
1:100



1:20



1:100



6. 3D VISUALISATION



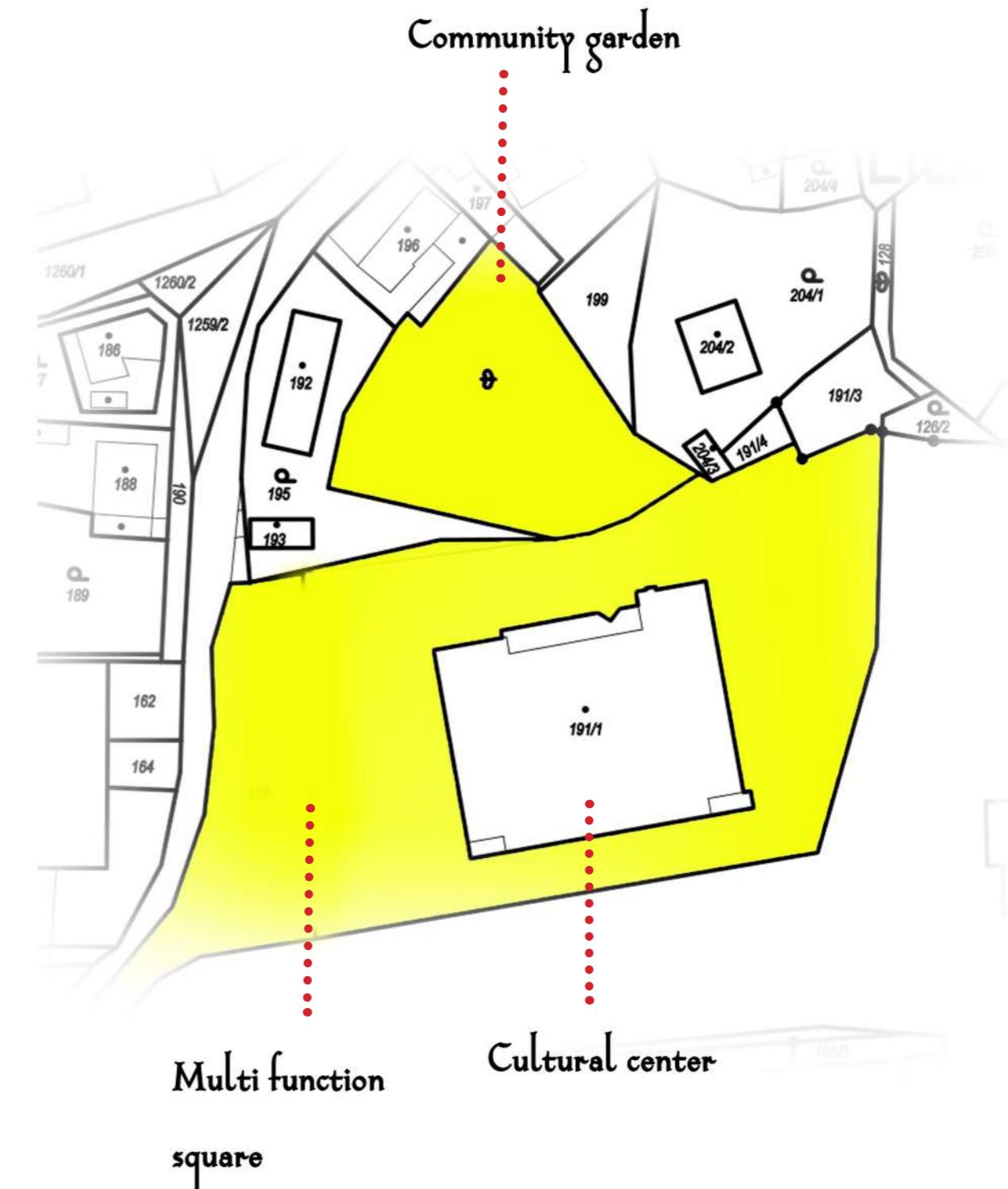


II. THE SQUARE

1. CONCEPT: A CHANGING OF FUNCTIONS

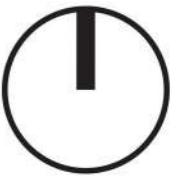
The space in front of the cultural center, previously the police station, is converted into a multifunctional public square where people can meet, gather, organise outdoor temporary events, and participate in the community garden. It can also be a transitional space before entering the cemetery.

The road between the square and the cemetery is for pedestrians mostly, but cars can pass by. The fact that there are no distinct limits to the road accentuates the seamless connection between the two spaces.



2. VEGETATION PLAN

1:500



36. *Acer platanoides Globosum*



3. SECTION DD

1:200



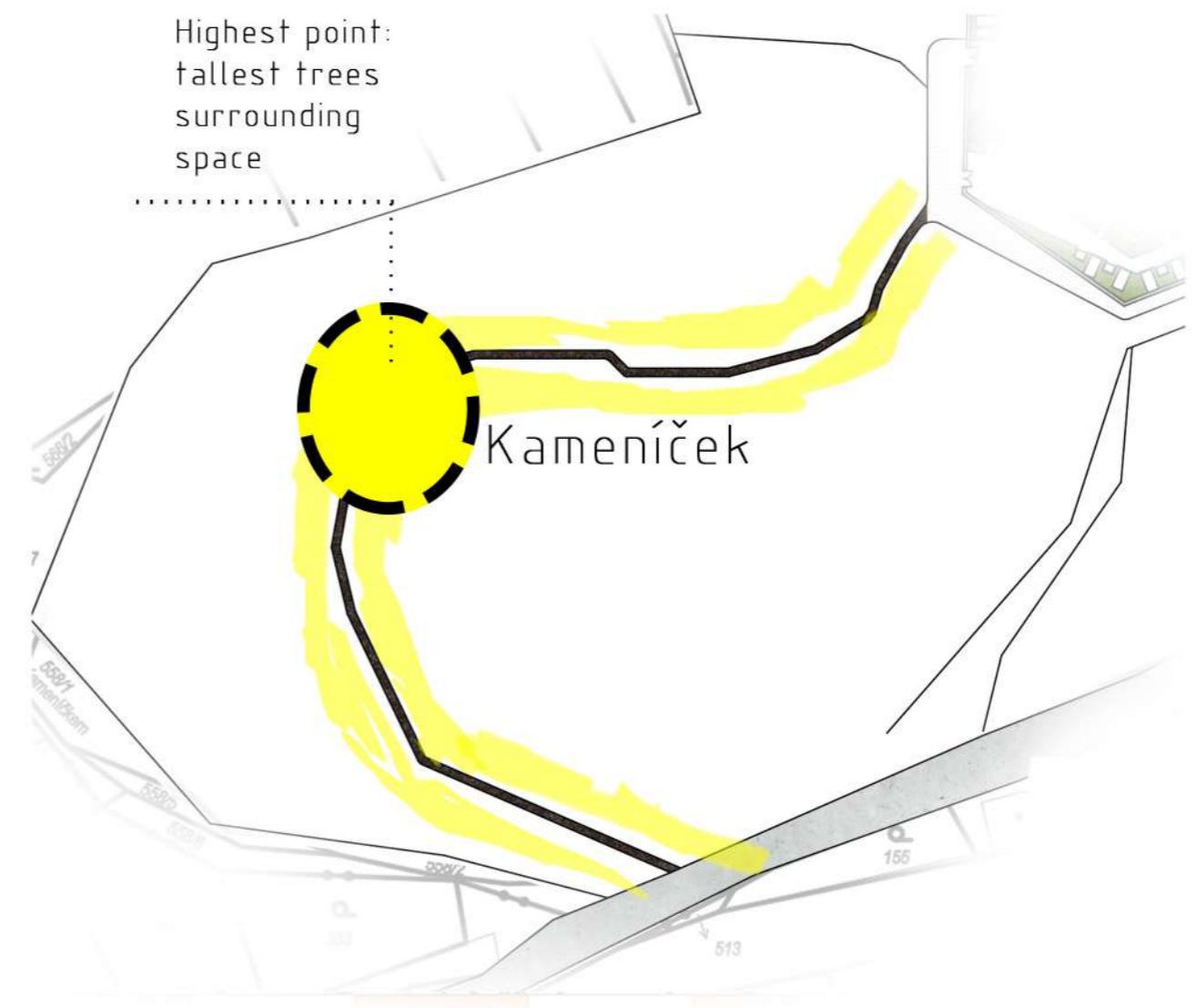
4. 3D VISUALISATION



III. THE HILL

1. CONCEPT: AN IMMERSIVE QUIET WALK

The walk on the hill is characterized by specific plants that offer features as seasons pass by, they are also a continuation of the walk from the cemetery and its extension. To continue the connection to it, the trees facing the cemetery will be clear stemmed and spaced sufficiently so that they do not block the view. For a quiet, isolated rest on the highest point, the trees there will be the tallest.



2. VEGETATION PLAN

1:300

PLANT NAME COMMON	PLANT NAME LATIN + CULTIVARS	HABIT	HEIGHT	SPREAD	EVERGREEN	SEASONALITY (BEST FEATURES)			
						SPRING	SUMMER	AUTUMN	WINTER
37, Japanese garden juniper	<i>Juniperus procumbens</i>	v low shrub	15-30cm	2-4m	yes				
38, Sacred bamboo	<i>Nandina domestica</i> 'Firepower'	shrub	50cm	50cm	semi				
39, Japanese forest grass	<i>Hakonechloa macra</i>	clump	50cm	50cm					
40, Burkwood osmanthus	<i>Osmanthus burkwoodii</i>	shrub	2.5-4m	2.5-4m	yes				
41, Himalayan birch	<i>Betula utilis</i> 'Jacquemontii'	med tree	15m	8m					
42, Sugi	<i>Cryptomeria japonica</i> 'Elegans'	small tree	6m	6m	yes				
43, Scots pine	<i>Pinus sylvestris</i>	large tree	30m	6-12m	yes				
44, Japanese tassel fern	<i>Polystichum polyblepharum</i>	fern	60-90cm	60-90cm	yes				

37. *Juniperus procumbens*



38. *Nandina domestica* Firepower



39. *Hakonechloa macra*



40. *Osmanthus burkwoodii*



44. *Polystichum polyblepharum*



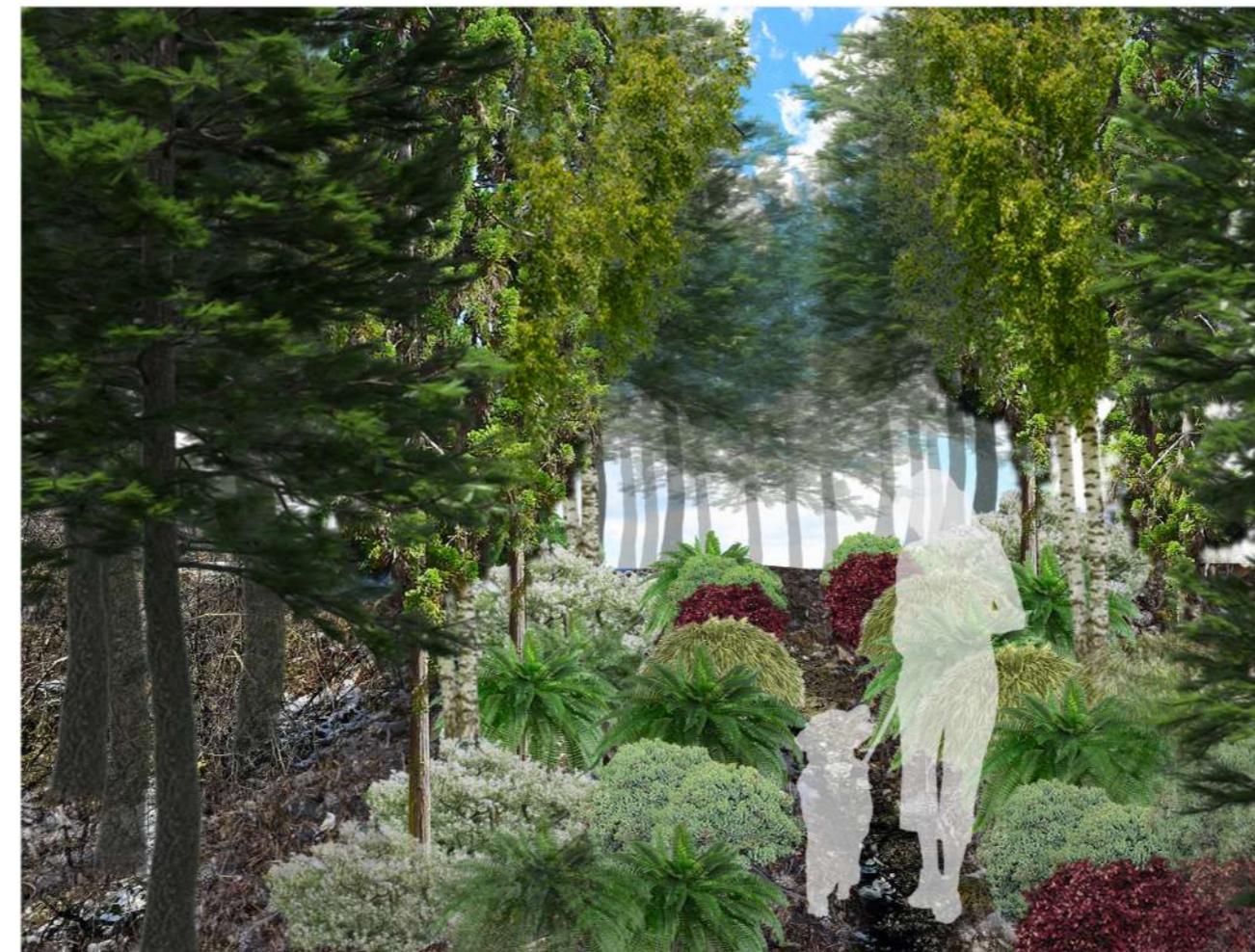
41. *Betula utilis* Jacquemontii



42. *Cryptomeria japonica* Elegans



43. *Pinus sylvestris*



INTER
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INTER



IV. THE SPACE IN-BETWEEN

1. CONCEPT: LIFE BETWEEN BUILDINGS

The space between the church and the train station has a lot of potential: it can be functional but also offer opportunities to sit, wait for the train or the church schedule, enjoy the weather and the nature, and also a space to go through and continue the road towards the cemetery and the hill.



2. VEGETATION PLAN

1:600



36. *Acer platanoides Globosum*



45. *Liquidambar styraciflua worplesdon*



46. *Pyrus Calleryana Bradford*



PLANT NAME COMMON	PLANT NAME LATIN + CULTIVARS	HABIT	HEIGHT	SPREAD	EVERGREEN	SEASONALITY (BEST FEATURES)			
						SPRING	SUMMER	AUTUMN	WINTER
45, Sweet gum 'Worplesdon'	<i>Liquidambar styraciflua 'worplesdon'</i>	tree	9,1-15,2m	7,6-12,2m					
46, Callery pear	<i>Pyrus Calleryana 'Bradford'</i>	tree	9,1-15,2m	6,1-10,7m					

