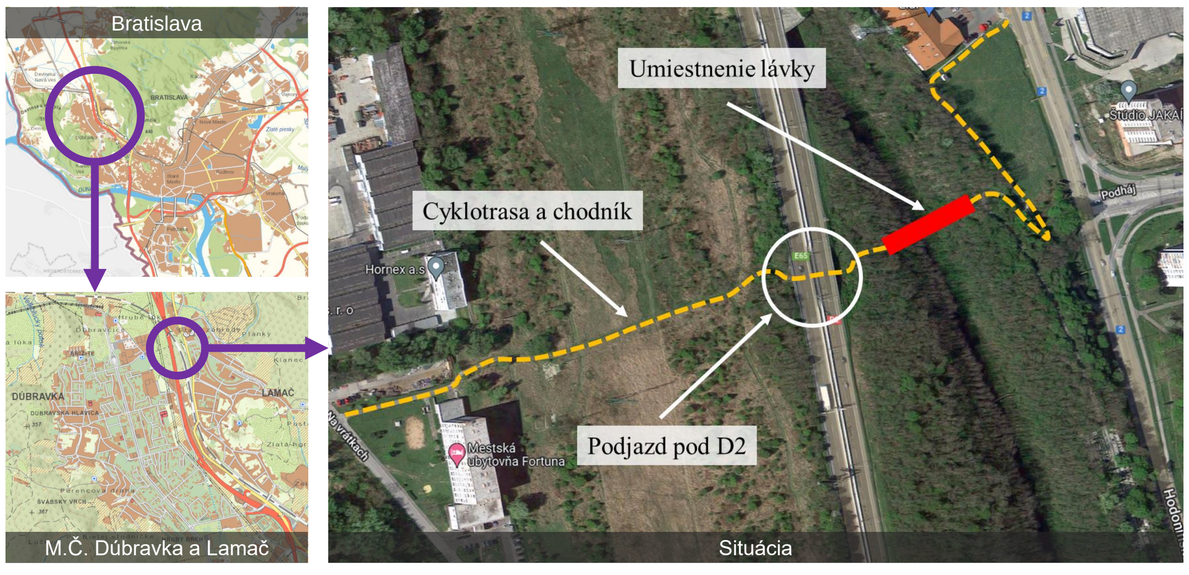
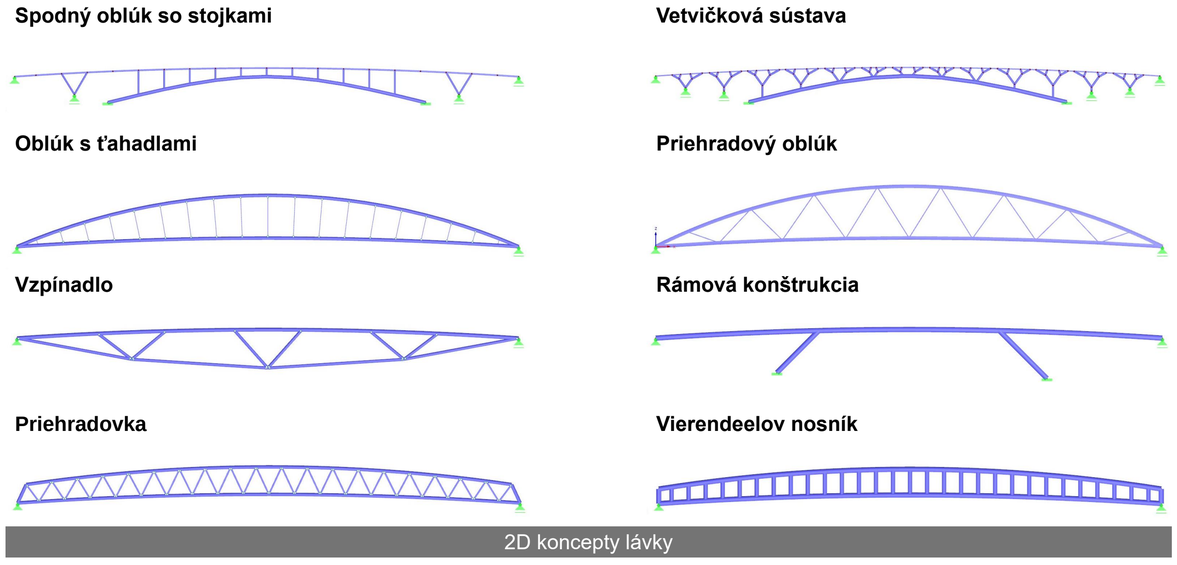
UMIESTNENIE STAVBY:



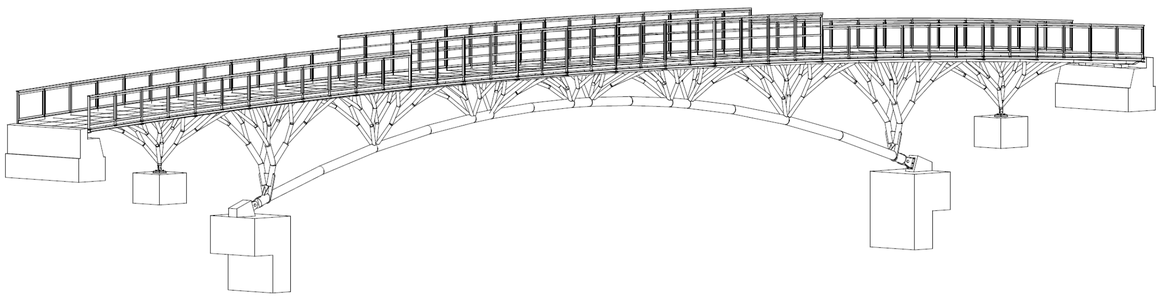
M.Č. Dúbravka a Lamač | Situácia

KONCEPČNÉ NÁVRHY GEOMETRIE LÁVKY:

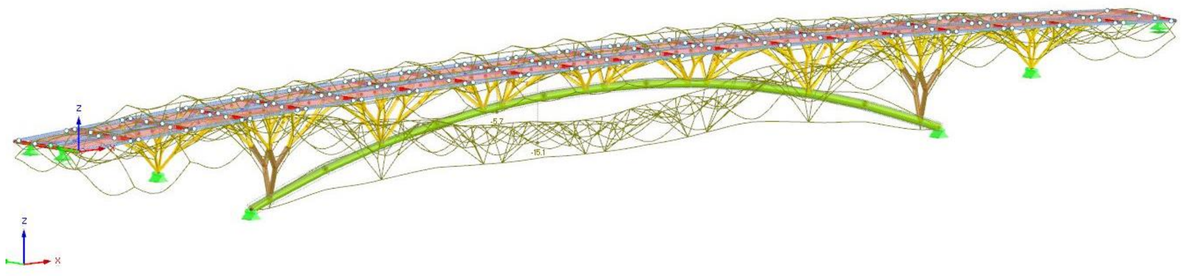


2D koncepty lávky

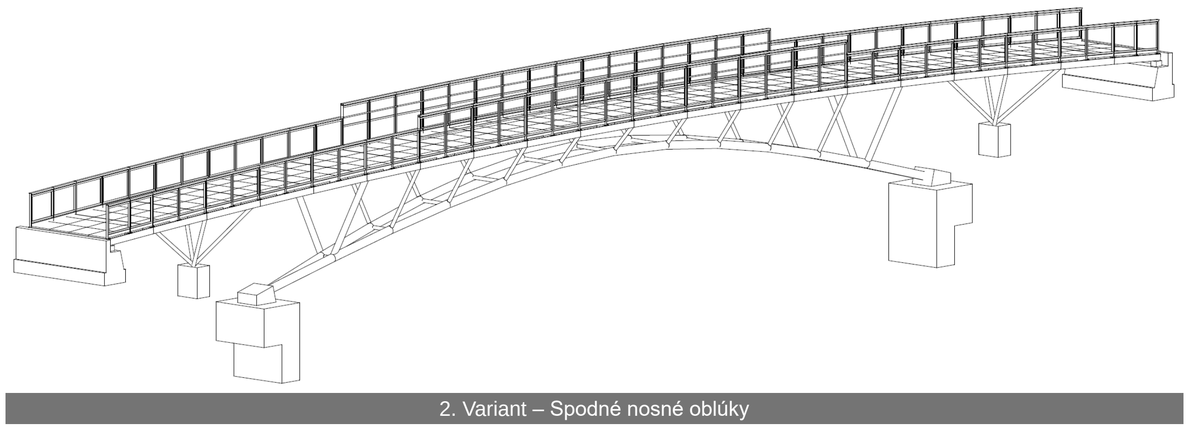
VARIANTNÉ RIEŠENIA:



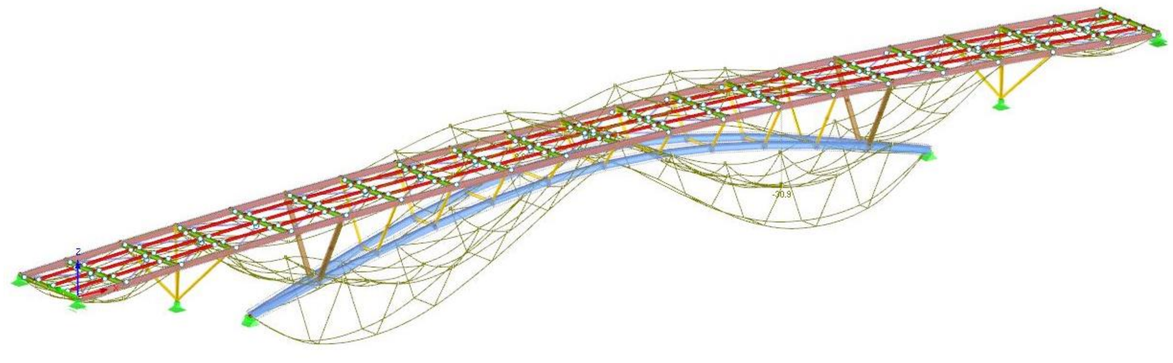
1. Variant – Vetvičková sústava so spodným nosným oblúkom



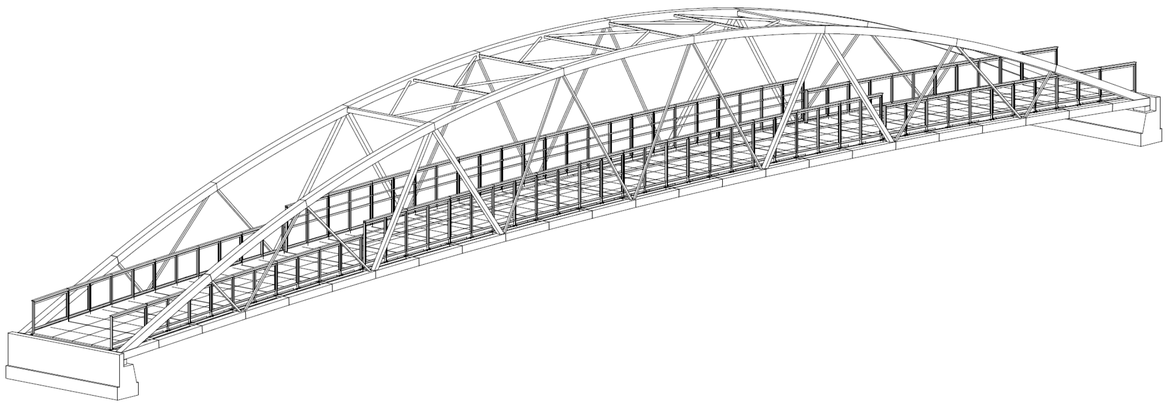
Deformácia od častej kombinácie MSP – u_z = 15,1 mm



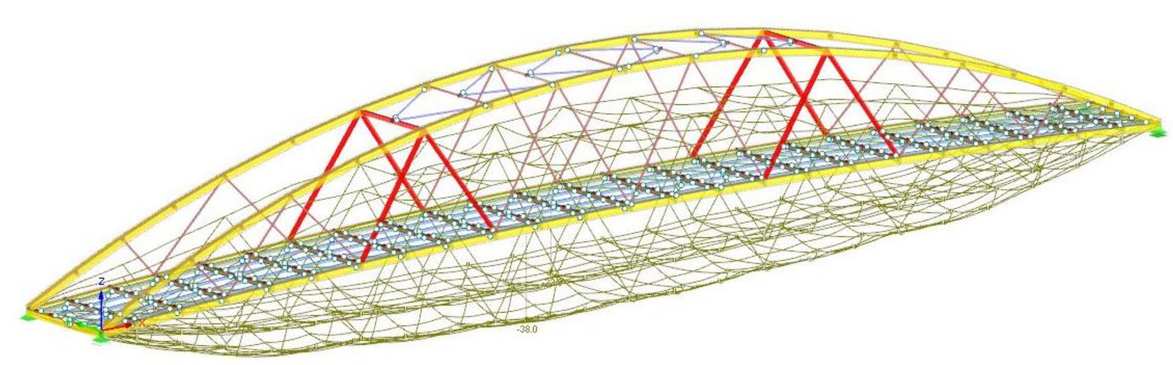
2. Variant – Spodné nosné oblúky



Deformácia od častej kombinácie MSP – u_z = 30,9 mm

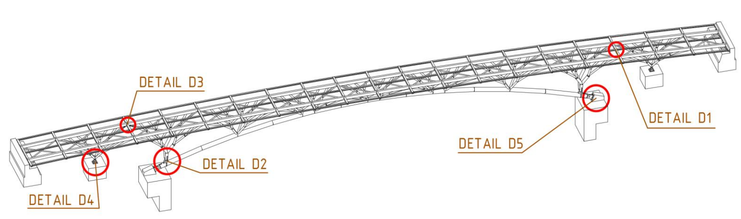


3. Variant – Priehradové oblúky

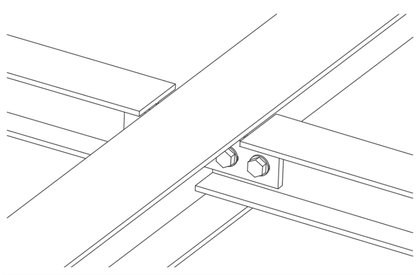


Deformácia od častej kombinácie MSP – u_z = 38 mm

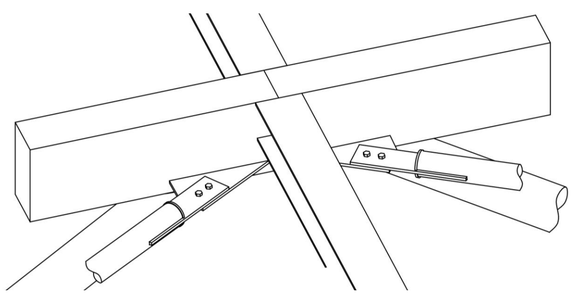
PRÍPOJE:

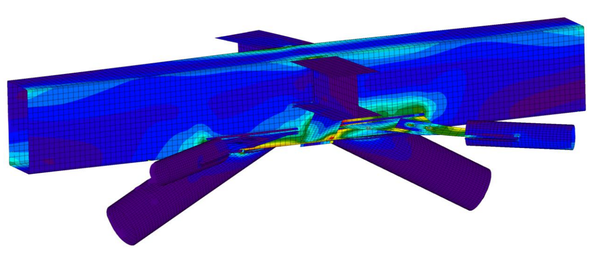


Umiestnenie detailov

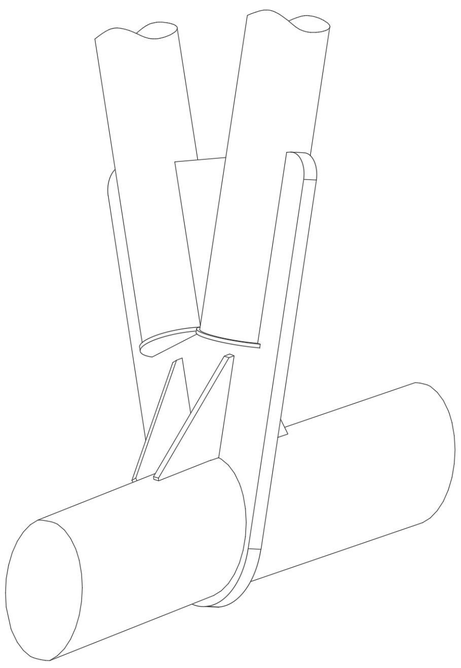


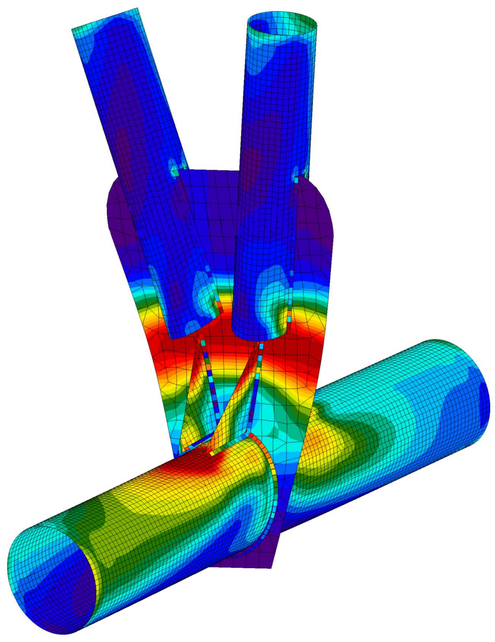
Detail D1 – Spoj pozdĺžnika na priečnik



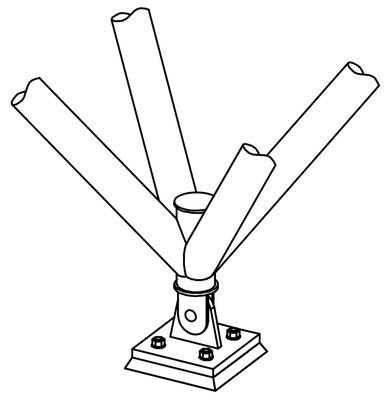


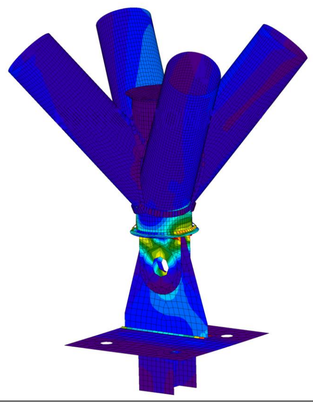
Detail D3 – Spoj priečnikov, stojok a stužidiel na hlavný nosník



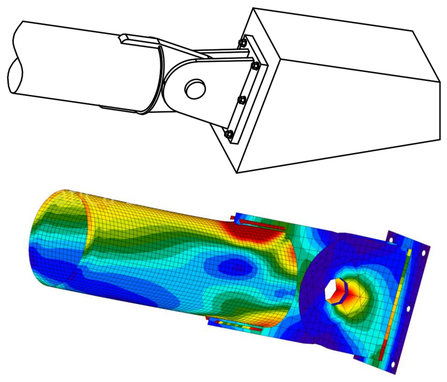


Detail D2 – Spoj prvých stojok na oblúk





Detail D4 – Kotvenie stojok



Detail D5 – Kotvenie oblúka

POROVNANIE VARIANTOV:

Porovnanie variantov - navrhnuté na využitie 80 až 90 % na MSÚ				
		1. variant	2. variant	3. variant
Druh konštrukcie	**Typ zaťaženia**	**Vetvičková sústava**	**Spodné oblúky**	**Priehradové oblúky**
Hmotnosť konštrukcie [kg]	**Spojité**	25059	30177	51,865
	Bodové			
Utot - MSP častá kombinácia [mm]	**Spojité**	17,3	31	38
	Bodové	18,4	31,8	36,5
Frekvencia 1. vl. tvaru [Hz]	**Spojité**	2,19	2,800	1,543
	Bodové			

Pedagóg: doc. Ing. Magdaléna Štujberová, PhD.
Poslucháč: Bc. Roman Červenka

Akademický rok: 2021/2022
Študijný program: I-NKS

DIPLOMOVÁ PRÁCA
Návrh lávky pre peších ponad železničnú trať