Introduction
position of ecoduct on interstate 70, mile post 187.4
Introduction
wildlife variety
Landscape and Ecology
dense forest area - open area

lines across wildlife crossing: vegetation and water
Architectural & Adaptability Concept

curve A

+ 

curve B

= 

surface
Landscape and ecology
1) Zone with drywalls of the locally available rock debris against the concrete wall
2) Tree stumps and snags
3) Zone with shrubs as a guiding structure containing Populus tremuloides, Pinus contorta and a underbush of Vaccinium scoparium
4) Zone with a vegetation of herbs and grasses
5) Zone with a wet swampy strip next to the stream on the ecoduct
6) Zone with the stream and the pool
7) Zone with a small hill
8) Observation point
9) Zone with a dry short heather vegetation and open spaces
10) Zone with drywalls of the locally available rock debris against the concrete wall
ha-ha and fences

fence concept

same vegetation on top of the ha-ha as the bottom to create a smooth transition

ha-ha concept
longitudinal section
longitudinal section
Visitors and The Wild Life Crossing

impression of the visitor’s centre

conceptual section of visitor’s centre and observatory
Architectural & Adaptability Concept

curve A

+ =

curve B

surface
adaptable structure examples

- landscape 1, span 60m.
- 4 lane road
- clearance 5.5m.

- landscape 2, span 40m.
- 4 lane road
- clearance 7m.

- landscape 3, span 100m.
- 6 lane road
- clearance 5.5m.
1) desired crossing path
2) required clearance height
3) required clearance width
4) contour line for shell edge
5) contour line for shell bottom
6) desired crossing path
7) required clearance height
8) required clearance width
9) contour line for shell edge

design parameters
structural section, during construction
concrete form structure plan
structural model of HYPAR concrete form
Cost Effective Design

- Lightweight structure with minimal stress surfaces
- Minimal amount of material
- Flexible formwork out of prefab mass-customized elements
- Reduce the execution time and the on site preparation