

Roadway view showing US 42 northbound exit ramp to half diamond interchange



View from Wolf Pen Branch Road looking west at Bridgepointe southern entrance



Option A5: Painted Steel Box Girder



Option B5: Weathering Steel I-Girder



Option C5: Creek Stone Textured Fascia



Option A6: narrow cross section - turf shoulder



Option B6: narrow cross section - with sidewalks behind barrier curb



Option C6: splitter island for traffic calming with sidewalks and buffer area



## AAT Meeting #4: Structures

July 21, 2005

### Design Concepts:

The matrix on the inside page of this handout arrays the design concepts into three distinct alternatives. Illustrations were prepared from six distinct viewpoints (across the top) to show what each of the three concepts (down the side) would look like in context with adjoining neighborhoods as well as from the roadway.

Concept A – illustrates structures with a straight deck beam and a minimal profile.

Concept B – illustrates structures with a haunched bridge span, and a moderate amount of complexity to the shape of the structure.

Concept C – illustrates structures with an open spandrel arch, or adding a high degree of complexity to the shape of the structure.

*Note that the view of Wolf Pen Branch Road is directed towards the view of the neighborhood, not the view from the roadway.*

**Bridges and elevated roadways** are needed in three places along the Section 4 alignment: two smaller structures at Wolf Pen Branch Road and at the northbound exit to US 42 (as part of the half-diamond interchange) and a larger structure that will cross both Harrod's Creek and River Road.

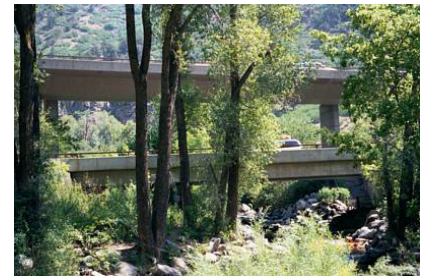
Additional small scaled structure(s) may be needed as part of the multi-use pathway linking the Ohio River Bridge with River Road. The approach to the Ohio River Bridge over Transylvania Beach Road will be designed in tandem with the design of the Ohio River Bridge (Section 5).

### Context Sensitive Solutions

There are a number of key principles that should be considered when designing bridges and elevated roadways to ensure that they blend with the existing design context of an area.

The structures within Section 4 are all within or adjacent to historic districts and sites (Allison Barrickman House, Drumanard, Country Estates of River Road) and significant cultural landscapes (the River Road Corridor, a state scenic byway). Context sensitive solutions are needed to address the following design goals:

- Create a design that is in scale and accordance with its historic and cultural setting;
- Create a design that is in harmony with the natural environment of its site; and
- Where feasible, utilize authentic regional forms and materials that reflect the surrounding context but do not create false impressions about the time and place within which this project is being built.



I-70, Colorado



Cherokee Park Overpasses



Connecticut Avenue Bridge over Rock Creek Parkway, Washington, D.C.

*Examples of a straight deck beam bridge along I-70 in Colorado designed to protect existing vegetation; a pair of haunched bridges with stone face in Cherokee Park, Louisville; and an open spandrel arched bridge over Rock Creek in Washington D.C.*

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#### Section 4 East End Approach

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Aerial view showing location of alignment near the Harbor at Harrod's Creek and River Road



View between buildings in The Harbor at Harrod's Creek and renderings



View from pool deck in The Harbor at Harrod's Creek and renderings



View from marina parking lot in The Harbor at Harrod's Creek and renderings



View of River Road crossing and renderings



Option A: Straight Deck Beam



A1



A2



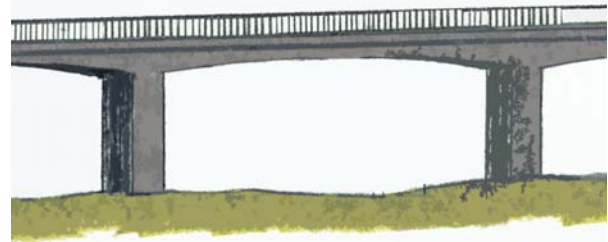
A3



A4



Option B: Haunched Deck



B1



B2



B3



B4



Option C: Open Spandrel Arch



C1



C2



C3



C4

