Design Character Study
Maplewood Community Design Review Board Meeting
January 24, 2012

Highway 36/English Street Interchange Improvements
Design Character Study

- Establish Design Direction for the Corridor’s Primary Elements:
  - Roadway Bridge: (English Street over Hwy 36)
  - Pedestrian Bridge: (Bruce Vento Trail over Hwy 36)
  - Retaining Walls
  - Noise Barrier
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Proposed Improvements

Highway 36/English Street Interchange Improvements
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- **Two Precedents** *(design relevance)*

1. Highway 36 Corridor Improvements:
   - Rice Street
   - Margaret Street
   - McKnight Road

2. Existing Railroad Bridge @ Bruce Vento Trail
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Hwy 36 Corridor
Margaret Street – North St. Paul
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Hwy 36 Corridor
McKnight Road – North St. Paul
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- Hwy. 36 Improvements Design Attributes:
  - Arched forms
  - Structure monochromatic (tan color) @ Rice
  - Subtle/limited detailing and texturing @ Rice
  - Structure multiple colors/textures (tan/red brick) @ Margaret and McKnight
  - Pedestrian accommodations
  - Ornamental Lighting
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- **Existing RR (Trail) Bridge Design Attributes:**
  - Dominant vertical columns at abutment corner which projects above trail surface elevation
  - Columns have multiple faces/planes
  - No other detailing – smooth surfaces
  - Structure monochromatic (gray)
  - Functional chain link fencing
  - No lighting
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English Street over Hwy. 36
Roadway Bridge Design Concepts
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Roadway Bridge Design
Concept A - Match Rice Street Bridge
Design Character Study

Roadway Bridge Design

Concept B - Cues from Exist RR Bridge
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Roadway Bridge Design
Concept C - RR Cues with end column brick columns
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Roadway Bridge Design

Concept D - RR Bridge cues with Margaret St. Bridge brick accents
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Roadway Bridge Design
Section at Center Pier

Highway 36/English Street Interchange Improvements
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Roadway Bridge Design
Section at End Pier (Concept B)

Highway 36/English Street Interchange Improvements
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Roadway Bridge Design
Alternate with Brick Accents
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City of Maplewood logo

Paint dark bronze

Simple metal railing, paint dark bronze

2’ x 4’ block pattern with ‘limestone’ textured finish

Color to match Rice St. Bridge

Lighting (match Legacy style)

Ornamental Railings

Rice Street Bridge

Abutments and Wing Walls

Bride Design Elements
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Bruce Vento Trail over Hwy. 36
Pedestrian Bridge Design Concepts
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Pedestrian Bridge Design

Elevation - Concept B
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Pedestrian Bridge Design
Center Pier and End Pier Sections
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2’ x 4’ block pattern with ‘limestone’ textured finish
Color to match Rice St. Bridge

Retaining Walls
Wing Walls and Abutments
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Noise Barrier
Example A - Rice Street Interchange
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Noise Barrier
Example B: I-494 west of Lake Rd.
Earth Berm and Plantings
Gervais Ave. Improvements - Viking Dr.