



Missouri Bridge/Culvert Inventory Form

Section 1: Bridge Identification

| | |
|----------------------------------|---|
| Bridge Number: MP 271.5 | |
| Common Name: Culvert at MP 271.5 | Other Name(s): Union Pacific Railroad culvert |

Section 2: Bridge Location

| | |
|-----------------------------|--|
| County: Jackson | City or Town (vicinity): Lee's Summit |
| Legal Location: | Township: 47N Range: 31W Section: 17 |
| Route (current): Not active | Route(s) (historic): St. Louis, Kansas City & Colorado Railroad; Chicago, Rock Island & Pacific Railroad |
| Feature Crossed: Big Creek | |
| Latitude: 38.882705 | Longitude: -94.37085 |
| Coordinates: | UTM Zone: 15S Northing: 4304653.35 Easting: 381097.53 |

Section 3: Bridge History

| | | |
|--|---|--|
| Is the bridge listed in the National Register of Historic Places (NRHP)? | <input type="checkbox"/> Yes | <input checked="" type="checkbox"/> No |
| Is the bridge part of a listed historic district? | <input type="checkbox"/> Yes | <input checked="" type="checkbox"/> No |
| Has the bridge been determined eligible for the NRHP? | <input type="checkbox"/> Yes | <input checked="" type="checkbox"/> No |
| Is preservation underway? | <input type="checkbox"/> Yes | <input checked="" type="checkbox"/> No |
| Is the bridge endangered? | <input type="checkbox"/> Yes | <input checked="" type="checkbox"/> No |
| By what? | N/A | |
| Has the bridge been relocated? | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | When? N/A |
| Where from? | N/A | |
| Construction Date: c. 1903-04 | Modification Date(s): N/A | |
| Builder: The Gasconade Railway Construction Company, St. Louis | Fabricator: N/A | |

| Section 4: Bridge Design | | | |
|--|-----------------------|-------------------------------------|-----------------------|
| Overall length of bridge: | 70 ft. | Overall type of bridge: | Concrete Arch Culvert |
| Number of tracks: | 1 | Manufacturer of track: | |
| Skew: | 0 | | |
| Legal Load Condition: | Cooper E 40 | | |
| SUBSTRUCTURE | | | |
| Number of Abutments: | N/A | Abutment Material: | N/A |
| Abutment Configuration: | N/A | | |
| Number of Piers/Bents: | N/A | Pier Material: | N/A |
| Pier Configuration: | N/A | | |
| SUPERSTRUCTURE | | | |
| Bridge Type: | Concrete Arch Culvert | | |
| # of Spans: | 1 | | |
| Main Span(s) | | | |
| Main Span Material: | Concrete | | |
| # of Main Spans: | 1 | Width of Main Spans: | 12 ft. |
| Length of each Main Span: | 70 ft. | Total length of all Main Spans: | 70 ft. |
| Height over deck (<i>*for through truss & through arches</i>): | N/A | | |
| Deck material: | Ballast | Deck construction method: | For Rail |
| Wearing Surface: | Ballast | | |
| Approach Span(s) | | | |
| Approach Span Material: | None | | |
| # of Approach Spans: | 0 | Width of Approach Spans: | N/A |
| Length of each Approach Span: | N/A | Total length of all Approach Spans: | N/A |

| Section 5: Other Surveys |
|--|
| What other surveys has this bridge been a part of? |
| None |

| Section 6: Narrative) |
|---|
| Brief Description of the Bridge: |
| This reinforced concrete arch culvert is 70' in length, 10 ' in height and 12' feet wide. |
| History of the Bridge: |
| Using J. P. Frizell's actual measurements for drainage areas, the design for this 12' wide concrete culvert was taken from standardized plans for the St. Louis, Kansas City & Colorado Railroad. Along the entire line, approximately 500 culverts and cattle passes were constructed varying from 2 to 36 feet in width. |
| Significance of the Bridge: |
| Pursuant to the recommendations included in previous Phase I reports for the historic St. Louis, Kansas City & Colorado Railroad/Chicago, Rock Island & Pacific Railroad and the MOA, this concrete arch culvert appears to be eligible for listing in the NRHP under Criteria A and C and meets the 50-year age recommendation for eligibility. It retains historic integrity in order to convey significance. |
| Sources of Information: |
| See historic context for bibliography |

| Section 7: Contact Information | | | |
|---------------------------------------|---|---------------|--|
| Legal Owner: | Calvin Williford, Executive Director, Rock Island Rail Corridor Authority | | |
| Street Address 1: | 22501 Woods Chapel Road | | |
| City: | Blue Springs | State: | MO |
| | | Zip Code: | 64051 |
| Prepared By: | Cydne Millstein and Kelsey Lutz | Date: | 3/1/2017 |
| Title of Preparer: | Principal and Assistant | Organization: | Architectural & Historical Research, LLC |
| Street Address 1: | 1537 Belleview Avenue | | |
| City: | Kansas City | State: | MO |
| | | Zip Code: | 64108 |
| Email: | cydney@ahr-kc.com | Phone: | (816) 472-4154 |



Culvert at MP 271.5. Detail of the west façade, looking north, northeast (above);
View from top of structure facing west (below). Date: December 9, 2016





Missouri Bridge/Culvert Inventory Form

Section 1: Bridge Identification

| | |
|----------------------------------|---|
| Bridge Number: MP 272.2 | |
| Common Name: Culvert at MP 272.2 | Other Name(s): Union Pacific Railroad culvert |

Section 2: Bridge Location

| | | | |
|--|---------------|--|--------------------|
| County: Jackson | | City or Town (vicinity): Lee's Summit | |
| Legal Location: | Township: 47N | Range: 31W | Section: 18 |
| Route (current): Not active | | Route(s) (historic): St. Louis, Kansas City & Colorado Railroad; Chicago, Rock Island & Pacific Railroad | |
| Feature Crossed: Drainage on SW Scherer Road | | | |
| Latitude: 38.889075 | | Longitude: -94.38040333 | |
| Coordinates: | UTM Zone: 15S | Northing: 4305372.76 | Easting: 380279.57 |

Section 3: Bridge History

| | | | |
|--|--|------------------------------|--|
| Is the Bridge listed in the National Register of Historic Places (NRHP)? | | <input type="checkbox"/> Yes | <input checked="" type="checkbox"/> No |
| Is the Bridge part of a listed historic district? | | <input type="checkbox"/> Yes | <input checked="" type="checkbox"/> No |
| Has the Bridge been determined eligible for the NRHP? | | <input type="checkbox"/> Yes | <input checked="" type="checkbox"/> No |
| Is preservation underway? | | <input type="checkbox"/> Yes | <input checked="" type="checkbox"/> No |
| Is the bridge endangered? | | <input type="checkbox"/> Yes | <input checked="" type="checkbox"/> No |
| By what? N/A | | | |
| Has the Bridge been relocated? | | <input type="checkbox"/> Yes | <input checked="" type="checkbox"/> No |
| When? N/A | | | |
| Where from? N/A | | | |
| Construction Date: c. 1903-1904 | | Modification Date(s): N/A | |
| Builder: The Gasconade Railway Construction Company, St. Louis | | Fabricator: N/A | |

| Section 4: Bridge Design | | | |
|--|-----------------------|-------------------------------------|-----------------------|
| Overall length of bridge: | 35 ft. | Overall type of bridge: | Concrete Arch Culvert |
| Number of tracks: | N/A | Manufacturer of track: | N/A |
| Skew: | 0 | | |
| Legal Load Condition: | Cooper E 40 | | |
| SUBSTRUCTURE | | | |
| Number of Abutments: | 0 | Abutment Material: | N/A |
| Abutment Configuration: | N/A | | |
| Number of Piers/Bents: | 0 | Pier Material: | N/A |
| Pier Configuration: | N/A | | |
| SUPERSTRUCTURE | | | |
| Bridge Type: | Concrete Arch Culvert | | |
| # of Spans: | 1 | | |
| Main Span(s) | | | |
| Main Span Material: | Concrete | | |
| # of Main Spans: | 1 | Width of Main Spans: | 7 ft. |
| Length of each Main Span: | 35 ft. | Total length of all Main Spans: | 35 ft. |
| Height over deck (<i>*for through truss & through arches</i>): | N/A | | |
| Deck material: | Ballast | Deck construction method: | N/A |
| Wearing Surface: | Ballast | | |
| Approach Span(s) | | | |
| Approach Span Material: | None | | |
| # of Approach Spans: | 0 | Width of Approach Spans: | N/A |
| Length of each Approach Span: | N/A | Total length of all Approach Spans: | N/A |

| Section 5: Other Surveys |
|--|
| What other surveys has this bridge been a part of? |
| None |

| Section 6: Narratives | |
|---|--|
| Brief Description of the Bridge (include any rehabilitation or alterations): | |
| This concrete culvert measures 35' in length and 7' wide. | |
| History of the Bridge: | |
| Using J. P. Frizell's actual measurements for drainage areas, the design for this 7' wide concrete culvert was taken from standardized plans for the St. Louis, Kansas City & Colorado Railroad. Along the entire line, approximately 500 culverts and cattle passes were constructed varying from 2 to 36 feet in width. | |
| Significance of the Bridge with Justification: | |
| Pursuant to the recommendations included in previous Phase I reports for the historic St. Louis, Kansas City & Colorado Railroad/Chicago, Rock Island & Pacific Railroad and the MOA, this concrete arch culvert appears to be eligible for listing in the NRHP under Criteria A and C and meets the 50-year age recommendation for eligibility. It retains historic integrity in order to convey significance. | |
| Sources of Information: | |
| See historic context for bibliography. | |

| Section 7: Contact Information | | | |
|---------------------------------------|----------------------------------|---|--|
| Legal Owner: | | Calvin Williford, Executive Director, Rock Island Rail Corridor Authority | |
| Street Address 1: | | 22501 Woods Chapel Road | |
| City: | Blue Springs | State: | MO |
| | | Zip Code: | 64051 |
| Prepared By: | Cydney Millstein and Kelsey Lutz | Date: | 3/1/2017 |
| Title of Preparer: | Principal and Assistant | Organization: | Architectural & Historical Research, LLC |
| Street Address 1: | | 1537 Belleview Ave. | |
| City: | Kansas City | State: | MO |
| | | Zip Code: | 64108 |
| Email: | cydney@ahr-kc.com | Phone: | (816) 472-4154 |



Culvert at MP 272.2, Lee's Summit. General view of the east façade looking northwest.
Date: December 9, 2016.



Missouri Bridge Inventory Form

Section 1: Bridge Identification

| | |
|----------------------------------|---|
| Bridge Number: MP 273.1 | |
| Common Name: Culvert at MP 273.1 | Other Name(s): Union Pacific Railroad culvert |

Section 2: Bridge Location

| | |
|--|--|
| County: Jackson | City or Town (vicinity): Lee's Summit |
| Legal Location: | Township: 47N Range: 31W Section: 18 |
| Route (current): Not active | Route(s) (historic): St. Louis, Kansas City & Colorado Railroad; Chicago, Rock Island & Pacific Railroad |
| Feature Crossed: Drainage near SW Persels Road | |
| Latitude: 38.89644167 | Longitude: -94.39441667 |
| Coordinates: | UTM Zone: 15S Northing: 4306208.76 Easting: 379076.65 |

Section 3: Bridge History

| | | |
|--|---|--|
| Is the Bridge listed in the National Register of Historic Places (NRHP)? | <input type="checkbox"/> Yes | <input checked="" type="checkbox"/> No |
| Is the Bridge part of a listed historic district? | <input type="checkbox"/> Yes | <input checked="" type="checkbox"/> No |
| Has the Bridge been determined eligible for the NRHP? | <input type="checkbox"/> Yes | <input checked="" type="checkbox"/> No |
| Is preservation underway? | <input type="checkbox"/> Yes | <input checked="" type="checkbox"/> No |
| Is the bridge endangered? | <input type="checkbox"/> Yes | <input checked="" type="checkbox"/> No |
| By what? | N/A | |
| Has the Bridge been relocated? | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | When? N/A |
| Where from? | N/A | |
| Construction Date: | c. 1903-1904 | Modification Date: N/A |
| Builder: | The Gasconade Railway Construction Company, St. Louis | Fabricator: N/A |

| Section 4: Bridge Design | | | |
|--|-----------------------|-------------------------------------|------------------------|
| Overall length of bridge: | 50 ft. | Overall type of bridge: | Concrete Arch Culvert |
| Number of tracks: | 1 | Manufacturer of track: | Illinois Steel Company |
| Skew: | 0 | | |
| Legal Load Condition: | Cooper E 40 | | |
| SUBSTRUCTURE | | | |
| Number of Abutments: | 0 | Abutment Material: | N/A |
| Abutment Configuration: | N/A | | |
| Number of Piers/Bents: | 0 | Pier Material: | N/A |
| Pier Configuration: | N/A | | |
| SUPERSTRUCTURE | | | |
| Bridge Type: | Concrete Arch Culvert | | |
| # of Spans: | 1 | | |
| Main Span(s) | | | |
| Main Span Material: | Concrete | | |
| # of Main Spans: | 1 | Width of Main Spans: | 6 ft. |
| Length of each Main Span: | 50 ft. | Total length of all Main Spans: | 50 ft. |
| Height over deck (<i>*for through truss & through arches</i>): | N/A | | |
| Deck material: | Ballast | Deck construction method: | For rail |
| Wearing Surface: | Ballast | | |
| Approach Span(s) | | | |
| Approach Span Material: | None | | |
| # of Approach Spans: | 0 | Width of Approach Spans: | N/A |
| Length of each Approach Span: | N/A | Total length of all Approach Spans: | N/A |

| Section 5: Other Surveys |
|--|
| What other surveys has this bridge been a part of? |
| None |

| Section 6: Narratives | |
|---|--|
| Brief Description of the Bridge: | |
| This concrete culvert measures 50' in length and 6' wide. | |
| History of the Bridge: | |
| Using J. P. Frizell's actual measurements for drainage areas, the design for this 6' wide concrete culvert was taken from standardized plans for the St. Louis, Kansas City & Colorado Railroad. Along the entire line, approximately 500 culverts and cattle passes were constructed varying from 2 to 36 feet in width. | |
| Significance of the Bridge: | |
| Pursuant to the recommendations included in previous Phase I reports for the historic St. Louis, Kansas City & Colorado Railroad/Chicago, Rock Island & Pacific Railroad and the MOA, this concrete arch culvert appears to be eligible for listing in the NRHP under Criteria A and C and meets the 50-year age recommendation for eligibility. It retains historic integrity in order to convey significance. | |
| Sources of Information: | |
| See historic context for bibliography. | |

| Section 7: Contact Information | | | |
|---------------------------------------|---|---------------|--|
| Legal Owner: | Calvin Williford, Executive Director, Rock Island Rail Corridor Authority | | |
| Street Address 1: | 22501 Woods Chapel Road | | |
| City: | Blue Springs | State: | MO |
| | | Zip Code: | 64015 |
| Prepared By: | Cydne Millstein and Kelsey Lutz | Date: | 3/1/2017 |
| Title of Preparer: | Principal and assistant | Organization: | Architectural and Historical Research, LLC |
| Street Address 1: | 1537 Belleview Ave. | | |
| City: | Kansas City | State: | MO |
| | | Zip Code: | 64108 |
| Email: | cydney@ahr-kc.com | Phone: | (816) 472-4154 |



Culvert at MP 273.1, Lee's Summit. General view of the west façade looking northeast.
Date: December 9, 2016



Missouri Bridge/Culvert Inventory Form

Section 1: Bridge Identification

| | |
|----------------------------------|---|
| Bridge Number: MP 273.5 | |
| Common Name: Culvert at MP 273.5 | Other Name(s): Union Pacific Railroad culvert |

Section 2: Bridge Location

| | | | |
|--|---------------|--|--------------------|
| County: Jackson | | City or Town (vicinity): Lee's Summit | |
| Legal Location: | Township: 47N | Range: 32W | Section: 12 |
| Route (current): Not active | | Route(s) (historic): St. Louis, Kansas City & Colorado Railroad; Chicago, Rock Island & Pacific Railroad | |
| Feature Crossed: Drainage near SW Crossing Drive | | | |
| Latitude: 38.899995 | | Longitude: -94.39997167 | |
| Coordinates: | UTM Zone: 15S | Northing: 4306610.48 | Easting: 378600.95 |

Section 3: Bridge History

| | | | |
|--|--|------------------------------|--|
| Is the Bridge listed in the National Register of Historic Places (NRHP)? | | <input type="checkbox"/> Yes | <input checked="" type="checkbox"/> No |
| Is the Bridge part of a listed historic district? | | <input type="checkbox"/> Yes | <input checked="" type="checkbox"/> No |
| Has the Bridge been determined eligible for the NRHP? | | <input type="checkbox"/> Yes | <input checked="" type="checkbox"/> No |
| Is preservation underway? | | <input type="checkbox"/> Yes | <input checked="" type="checkbox"/> No |
| Is the bridge endangered? | | <input type="checkbox"/> Yes | <input checked="" type="checkbox"/> No |
| By what? N/A | | | |
| Has the Bridge been relocated? | | <input type="checkbox"/> Yes | <input checked="" type="checkbox"/> No |
| When? N/A | | | |
| Where from? N/A | | | |
| Construction Date: c. 1903-1904 | | Modification Date: N/A | |
| Builder: The Gasconade Railway Construction Company, St. Louis | | Fabricator: N/A | |

| Section 4: Bridge Design | | | |
|--|-----------------------|-------------------------------------|------------------------|
| Overall length of bridge: | 44 ft. | Overall type of bridge: | Concrete Arch Culvert |
| Number of tracks: | 1 | Manufacturer of track: | Illinois Steel Company |
| Skew: | 0 | | |
| Legal Load Condition: | Cooper E 40 | | |
| SUBSTRUCTURE | | | |
| Number of Abutments: | 0 | Abutment Material: | N/A |
| Abutment Configuration: | N/A | | |
| Number of Piers/Bents: | 0 | Pier Material: | N/A |
| Pier Configuration: | N/A | | |
| SUPERSTRUCTURE | | | |
| Bridge Type: | Concrete Arch Culvert | | |
| # of Spans: | 1 | | |
| Main Span(s) | | | |
| Main Span Material: | Concrete | | |
| # of Main Spans: | 1 | Width of Main Spans: | 2 ft. |
| Length of each Main Span: | 44 ft. | Total length of all Main Spans: | 44 ft. |
| Height over deck (<i>*for through truss & through arches</i>): | N/A | | |
| Deck material: | Ballast | Deck construction method: | For Rail |
| Wearing Surface: | Ballast | | |
| Approach Span(s) | | | |
| Approach Span Material: | None | | |
| # of Approach Spans: | 0 | Width of Approach Spans: | N/A |
| Length of each Approach Span: | N/A | Total length of all Approach Spans: | N/A |

| Section 5: Other Surveys |
|--|
| What other surveys has this bridge been a part of? |
| None |

| |
|---|
| Section 6: Narratives: |
| Brief Description of the Bridge: |
| This concrete culvert measures 44' in length and 2' wide. |
| History of the Bridge: |
| Using J. P. Frizzel's actual measurements for drainage areas, the design for this 2' wide concrete culvert was taken from standardized plans for the St. Louis, Kansas City & Colorado Railroad. Along the entire line, approximately 500 culverts and cattle passes were constructed varying from 2 to 36 feet in width. |
| Significance of the Bridge: |
| Pursuant to the recommendations included in previous Phase I reports for the historic St. Louis, Kansas City & Colorado Railroad/Chicago, Rock Island & Pacific Railroad and the MOA, this concrete arch culvert appears to be eligible for listing in the NRHP under Criteria A and C and meets the 50-year age recommendation for eligibility. It retains historic integrity in order to convey significance. |
| Sources of Information: |
| See historic context for bibliography. |

| | | | |
|---------------------------------------|---|---------------|--|
| Section 7: Contact Information | | | |
| Legal Owner: | Calvin Williford, Executive Director, Rock Island Rail Corridor Authority | | |
| Street Address 1: | 22501 Woods Chapel Road | | |
| City: | Blue Springs | State: | MO |
| | | Zip Code: | 64051 |
| Prepared By: | Cydney Millstein and Kelsey Lutz | Date: | March 2017 |
| Title of Preparer: | Principal and assistant | Organization: | Architectural & Historical Research, LLC |
| Street Address 1: | 1537 Belleview Ave. | | |
| City: | Kansas City | State: | MO |
| | | Zip Code: | 64108 |
| Email: | cydney@ahr-kc.com | Phone: | (816) 472-4154 |



Culvert at MP 273.5, Lee's Summit. View of the west façade looking northeast.
Date: December 9, 2016



Missouri Bridge/Culvert Inventory Form

Section 1: Bridge Identification

| | |
|----------------------------------|---|
| Bridge Number: MP 273.8 | |
| Common Name: Culvert at MP 273.8 | Other Name(s): Union Pacific Railroad culvert |

Section 2: Bridge Location

| | | | |
|--|---------------|--|--------------------|
| County(ies): Jackson | | City or Town (vicinity): Lee's Summit | |
| Legal Location: | Township: 47N | Range: 32W | Section: 12 |
| Route (current): Not active | | Route(s) (historic): St. Louis, Kansas City & Colorado Railroad; Chicago, Rock Island & Pacific Railroad | |
| Feature Crossed: Drainage from Cedar Creek | | | |
| Latitude: 38.90275833 | | Longitude: -94.40425 | |
| Coordinates: | UTM Zone: 15S | Northing: 4306922.84 | Easting: 378234.66 |

Section 3: Bridge History

| | | | |
|--|--|------------------------------|--|
| Is the Bridge listed in the National Register of Historic Places (NRHP)? | | <input type="checkbox"/> Yes | <input checked="" type="checkbox"/> No |
| Is the Bridge part of a listed historic district? | | <input type="checkbox"/> Yes | <input checked="" type="checkbox"/> No |
| Has the Bridge been determined eligible for the NRHP? | | <input type="checkbox"/> Yes | <input checked="" type="checkbox"/> No |
| Is preservation underway? | | <input type="checkbox"/> Yes | <input checked="" type="checkbox"/> No |
| Is the bridge endangered? | | <input type="checkbox"/> Yes | <input checked="" type="checkbox"/> No |
| By what? N/A | | | |
| Has the Bridge been relocated? | | <input type="checkbox"/> Yes | <input checked="" type="checkbox"/> No |
| When? N/A | | | |
| Where from? N/A | | | |
| Construction Date: c. 1903-04 | | Modification Date: N/A | |
| Builder: The Gasconade Railway Construction Company, St. Louis | | Fabricator: N/A | |

| Section 4: Bridge Design | | | |
|--|-----------------------|-------------------------------------|------------------------|
| Overall length of bridge: | 60 ft. | Overall type of bridge: | Concrete Arch Culvert |
| Number of tracks: | 1 | Manufacturer of track: | Illinois Steel Company |
| Skew: | 0 | | |
| Legal Load Condition: | Cooper E 40 | | |
| SUBSTRUCTURE | | | |
| Number of Abutments: | 0 | Abutment Material: | N/A |
| Abutment Configuration: | N/A | | |
| Number of Piers/Bents: | 0 | Pier Material: | N/A |
| Pier Configuration: | N/A | | |
| SUPERSTRUCTURE | | | |
| Bridge Type: | Concrete Arch Culvert | | |
| # of Spans: | 1 | | |
| Main Span(s) | | | |
| Main Span Material: | Concrete | | |
| # of Main Spans: | 1 | Width of Main Spans: | 20 ft. |
| Length of each Main Span: | 60 ft. | Total length of all Main Spans: | 60 ft. |
| Height over deck (<i>*for through truss & through arches</i>): | N/A | | |
| Deck material: | Ballast | Deck construction method: | For Rail |
| Wearing Surface: | Ballast | | |
| Approach Span(s) | | | |
| Approach Span Material: | None | | |
| # of Approach Spans: | 0 | Width of Approach Spans: | N/A |
| Length of each Approach Span: | N/A | Total length of all Approach Spans: | N/A |

| Section 5: Other Surveys |
|--|
| What other surveys has this bridge been a part of? |
| None |

| Section 6: Narratives |
|---|
| Brief Description of the Bridge: |
| This concrete culvert measures 60' in length and 20' wide. |
| History of the Bridge: |
| Using J. P. Frizzel's actual measurements for drainage areas, the design for this 20' wide concrete culvert was taken from standardized plans for the St. Louis, Kansas City & Colorado Railroad. Along the entire line, approximately 500 culverts and cattle passes were constructed varying from 2 to 36 feet in width. |
| Significance of the Bridge with Justification: |
| Pursuant to the recommendations included in previous Phase I reports for the historic St. Louis, Kansas City & Colorado Railroad/Chicago, Rock Island & Pacific Railroad and the MOA, this concrete arch culvert appears to be eligible for listing in the NRHP under Criteria A and C and meets the 50-year age recommendation for eligibility. It retains historic integrity in order to convey significance. |
| Sources of Information: |
| See historic context for bibliography. |

| Section 7: Contact Information | | | |
|---------------------------------------|---|---------------|--|
| Legal Owner: | Calvin Williford, Executive Director, Rock Island Rail Corridor Authority | | |
| Street Address 1: | 22501 Woods Chapel Road | | |
| City: | Blue Springs | State: | MO |
| | | Zip Code: | 64051 |
| Prepared By: | Cydne Millstein and Kelsey Lutz | Date: | 3/1/2017 |
| Title of Preparer: | Principal and assistant | Organization: | Architectural & Historical Research, LLC |
| Street Address 1: | 1537 Belleview Ave. | | |
| City: | Kansas City | State: | MO |
| | | Zip Code: | 64108 |
| Email: | cydney@ahr-kc.com | Phone: | (816) 472-4154 |



Culvert at MP 273.5, Lee's Summit. General view of the west façade, looking southeast (above);
General view of the west façade, looking east (below). Date: December 9, 2016





Missouri Bridge/Culvert Inventory Form

Section 1: Bridge Identification

| | |
|----------------------------------|---|
| Bridge Number: MP 274.5 | |
| Common Name: Culvert at MP 274.5 | Other Name(s): Union Pacific Railroad culvert |

Section 2: Bridge Location

| | |
|--|--|
| County(ies): Jackson | City or Town (vicinity): Lee's Summit |
| Legal Location: | Township: 47N Range: 32W Section: 11 |
| Route (current): Not active | Route(s) (historic): St. Louis, Kansas City & Colorado Railroad; Chicago, Rock Island & Pacific Railroad |
| Feature Crossed: Drainage from Cedar Creek | |
| Latitude: 38.91140833 | Longitude: -94.41761167 |
| Coordinates: | UTM Zone: 15S Northing: 4307900.71 Easting: 377090.92 |

Section 3: Bridge History

| | | |
|--|---|--|
| Is the Bridge listed in the National Register of Historic Places (NRHP)? | <input type="checkbox"/> Yes | <input checked="" type="checkbox"/> No |
| Is the Bridge part of a listed historic district? | <input type="checkbox"/> Yes | <input checked="" type="checkbox"/> No |
| Has the Bridge been determined eligible for the NRHP? | <input type="checkbox"/> Yes | <input checked="" type="checkbox"/> No |
| Is preservation underway? | <input type="checkbox"/> Yes | <input checked="" type="checkbox"/> No |
| Is the bridge endangered? | <input type="checkbox"/> Yes | <input checked="" type="checkbox"/> No |
| By what? | N/A | |
| Has the Bridge been relocated? | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | When? N/A |
| Where from? | N/A | |
| Construction Date: c. 1903-1904 | Modification Date: N/A | |
| Builder: The Gasconade Railway Construction Company, St. Louis | Fabricator: N/A | |

| Section 4: Bridge Design | | | |
|---|-----------------------|--|------------------------|
| Overall length of bridge: | 40 ft. | Overall type of bridge: | Concrete Arch Culvert |
| Number of tracks: | 1 | Manufacturer of track: | Illinois Steel Company |
| Skew: | 0 | | |
| Legal Load Condition: | Cooper E 40 | | |
| SUBSTRUCTURE | | | |
| Number of Abutments: | 0 | Abutment Material: | N/A |
| Abutment Configuration: | N/A | | |
| Number of Piers/Bents: | 0 | Pier Material: | N/A |
| Pier Configuration: | N/A | <i>Ex. Solid Shaft, Column, Column with web wall, Cantilever</i> | |
| SUPERSTRUCTURE | | | |
| Bridge Type: | Concrete Arch Culvert | | |
| # of Spans: | 1 | | |
| Main Span(s) | | | |
| Main Span Material: | Concrete | | |
| # of Main Spans: | 1 | Width of Main Spans: | 16 ft. |
| Length of each Main Span: | 40 ft. | Total length of all Main Spans: | 40 ft. |
| Height over deck (*for through truss & through arches): | N/A | | |
| Deck material: | Ballast | Deck construction method: | For Rail |
| Wearing Surface: | Ballast | | |
| Approach Span(s) | | | |
| Approach Span Material: | None | | |
| # of Approach Spans: | 0 | Width of Approach Spans: | N/A |
| Length of each Approach Span: | N/A | Total length of all Approach Spans: | N/A |

| Section 5: Other Surveys |
|--|
| What other surveys has this bridge been a part of? |
| None |

| Section 6: Narratives |
|---|
| Brief Description of the Bridge: |
| This concrete culvert measures 60' in length and 16' wide. |
| History of the Bridge: |
| Using J. P. Frizzel's actual measurements for drainage areas, the design for this 16' wide concrete culvert was taken from standardized plans for the St. Louis, Kansas City & Colorado Railroad. Along the entire line, approximately 500 culverts and cattle passes were constructed varying from 2 to 36 feet in width. |
| Significance of the Bridge with Justification: |
| Pursuant to the recommendations included in previous Phase I reports for the historic St. Louis, Kansas City & Colorado Railroad/Chicago, Rock Island & Pacific Railroad and the MOA, this concrete arch culvert appears to be eligible for listing in the NRHP under Criteria A and C and meets the 50-year age recommendation for eligibility. It retains historic integrity in order to convey significance. |
| Sources of Information: |
| See historic context for bibliography. |

| Section 7: Contact Information | | | |
|---------------------------------------|---|---------------|--|
| Legal Owner: | Calvin Williford, Executive Director, Rock Island Rail Corridor Authority | | |
| Street Address 1: | 22501 Woods Chapel Road | | |
| City: | Blue Springs | State: | MO |
| | | Zip Code: | 64051 |
| Prepared By: | Cydne Millstein and Kelsey Lutz | Date: | 3/1/2017 |
| Title of Preparer: | Principal and assistant | Organization: | Architectural & Historical Research, LLC |
| Street Address 1: | 1537 Belleview Ave. | | |
| City: | Kansas City | State: | MO |
| | | Zip Code: | 64108 |
| Email: | cydney@ahr-kc.com | Phone: | (816) 472-4154 |



Culvert at MP 274.5, Lee's Summit. General view of the west façade, looking northeast.
Date: December 6, 2016



Missouri Bridge Inventory Form

| Section 1: Bridge Identification | |
|--|--|
| Bridge Number: MP 274.8 | |
| Common Name: Bridge over SW 3 rd Street | Other Name(s): Union Pacific Railroad bridge |

| Section 2: Bridge Location | | | |
|--|--|--------------------------|--------------------|
| County: | Jackson | City or Town (vicinity): | Lee's Summit |
| Legal Location: | Township: 47 N | Range: 32 W | Section: 2 & 11 |
| Route (current): Not active | Route(s) (historic): St. Louis, Kansas City & Colorado Railroad; Chicago, Rock Island & Pacific Railroad | | |
| Feature Crossed: Roadway (SW 3 rd Street) | | | |
| Latitude: 38.91205 | | Longitude: -94.41840 | |
| Coordinates: | UTM Zone: 15S | Northing: 4307972.99 | Easting: 377023.67 |

| Section 3: Bridge History | | | |
|--|---|------------------------------|---|
| Is the Bridge listed in the National Register of Historic Places (NRHP)? | | <input type="checkbox"/> Yes | <input checked="" type="checkbox"/> No |
| Is the Bridge part of a listed historic district? | | <input type="checkbox"/> Yes | <input checked="" type="checkbox"/> No |
| Has the Bridge been determined eligible for the NRHP? | | <input type="checkbox"/> Yes | <input checked="" type="checkbox"/> No |
| Is preservation underway? | | <input type="checkbox"/> Yes | <input checked="" type="checkbox"/> No |
| Is the bridge endangered? | | <input type="checkbox"/> Yes | <input checked="" type="checkbox"/> No |
| By what? N/A | | | |
| Has the Bridge been relocated? | | <input type="checkbox"/> Yes | <input checked="" type="checkbox"/> No |
| When? N/A | | | |
| Where from? N/A | | | |
| Construction Date: After 1915 | | Modification Date: N/A | |
| Builder: unknown | Stubbs, Flick and Johnson Construction Company, Kansas City, MO (attribution) | Fabricator: | American Bridge Company, New York (attribution) |

| Section 4: Bridge Design | | | |
|--|----------------------|-------------------------------------|------------------------|
| Overall length of bridge: | 105 ft. | Overall type of bridge: | Through Plate Girder |
| Number of tracks: | 1 | Manufacturer of tracks: | Illinois Steel Company |
| Skew: | | | |
| Legal Load Condition: | Cooper E 80 | | |
| <u>SUBSTRUCTURE</u> | | | |
| Number of Abutments: | 2 | Abutment Material: | Concrete |
| Abutment Configuration: T | | | |
| Number of Piers/Bents: | 0 | Pier Material: | N/A |
| Pier Configuration: N/A | | | |
| <u>SUPERSTRUCTURE</u> | | | |
| Bridge Type: | Through Plate Girder | | |
| # of Spans: | 1 | | |
| Main Span(s) | | | |
| Main Span Material: Metal | | | |
| # of Main Spans: | 1 | Width of Main Spans: | 21 ft. |
| Length of each Main Span: | 105 ft. | Total length of all Main Spans: | 105 ft. |
| Height over deck (<i>*for through truss & through arches</i>): | | | |
| Deck material: | Ballast | Deck construction method: | For Rail |
| Wearing Surface: Ballast | | | |
| Approach Span(s) | | | |
| Approach Span Material: N/A | | | |
| # of Approach Spans: | 0 | Width of Approach Spans: | N/A |
| Length of each Approach Span: | N/A | Total length of all Approach Spans: | N/A |

| Section 5: Other Surveys |
|---|
| What other surveys has this bridge been a part of? |
| Bridgehunter.com BH 64364 |

| Section 6: Narratives |
|---|
| Brief Description of the Bridge: |
| This 105 ft. through plate girder is a single span with concrete abutments, gusset plates with solid webs connected to the floor-beams; upper corners of the plate girders are rounded. |
| History of the Bridge: |
| The original bridge at MP No. 274.8 was a 16' x 16' reinforced concrete arch. When 3 rd Street was cut in, the current bridge replaced the concrete arch sometime after 1915. Constructed for the Chicago, Rock Island & Pacific Railroad Company, the through plate girder was more than likely from a standard design for the railroad line. |
| Significance of the Bridge with Justification: |
| Pursuant to the recommendations included in previous Phase I reports for the historic St. Louis, Kansas City & Colorado Railroad/Chicago Rock Island & Pacific Railroad and the MOA, this through plate girder appears to be eligible for listing in the NRHP under Criteria A and C and meets the 50-year age recommendation for eligibility. It retains historic integrity in order to convey significance. |
| Sources of Information: |
| See historic context report for bibliography |

| Section 7: Contact Information | | | |
|---------------------------------------|---|-------------------|--|
| Legal Owner: | Calvin Williford, Executive Director, Rock Island Rail Corridor Authority | | |
| Street Address 1: | 22501 Woods Chapel Rd. | | |
| City: | Blue Springs | State: | MO |
| | | Zip Code: | 64015 |
| Prepared By: | Cydney Millstein and Kelsey Lutz | Date: | 3/12/2017 |
| Title of Preparer: | Principal and assistant | Organization: | Architectural & Historical Research, LLC |
| Street Address 1: | 1537 Belleview Avenue | Street Address 2: | |
| City: | Kansas City | State: | MO |
| | | Zip Code: | 64108 |
| Email: | cydney@ahr-kc.com | Phone: | (816) 472-4154 |



Bridge at MP 274.8, SW 3rd Street near SW Longview Road and SW Pyror Road, Lee's Summit, MO. General view facing east (above); View of deck facing southeast (below). Dates: March 7, 2017 and December 6, 2016.





Missouri Bridge Inventory Form

| | |
|---|--|
| Section 1: Bridge Identification | |
|---|--|

| | |
|----------------|-------------------------------|
| Bridge Number: | MP 276.3 |
| Common Name: | Bridge over Chipman Road |
| Other Name(s): | Union Pacific Railroad bridge |

| | |
|-----------------------------------|--|
| Section 2: Bridge Location | |
|-----------------------------------|--|

| | | | |
|------------------|------------------------|--------------------------|---|
| County(ies): | Jackson | City or Town (vicinity): | Lee's Summit |
| Legal Location: | Township: 47 N | Range: 32 W | Section: 3 |
| Route (current): | Not active | Route(s) (historic): | St. Louis, Kansas City & Colorado Railroad; Chicago, Rock Island & Pacific Railroad |
| Feature Crossed: | Roadway (Chipman Road) | | |
| Latitude: | 38.92739 | Longitude: | -94.43769 |
| Coordinates: | UTM Zone: 15S | Northing: 4309701.56 | Easting: 375377.98 |

| | |
|--|--|
| Section 3: Bridge History – <i>Please explain the details from this section further in the Section 6 narrative.</i> | |
|--|--|

| | | |
|--|---|--|
| Is the Bridge listed in the National Register of Historic Places (NRHP)? | <input type="checkbox"/> Yes | <input checked="" type="checkbox"/> No |
| Is the Bridge part of a listed historic district? | <input type="checkbox"/> Yes | <input checked="" type="checkbox"/> No |
| Has the Bridge been determined eligible for the NRHP? | <input type="checkbox"/> Yes | <input checked="" type="checkbox"/> No |
| Is preservation underway? | <input type="checkbox"/> Yes | <input checked="" type="checkbox"/> No |
| Is the bridge endangered? | <input type="checkbox"/> Yes | <input checked="" type="checkbox"/> No |
| By what? | N/A | |
| Has the Bridge been relocated? | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | When? N/A |
| Where from? | N/A | |
| Construction Date: | c. 1903 | Modification Date: N/A |
| Builder: | Gasconade Railway Construction Company, St. Louis | Fabricator: St. Louis, Kansas City & Colorado Railroad |

| Section 4: Bridge Design | | | |
|--|---------------------|-------------------------------------|--------------------------|
| Overall length of bridge: | 32 ft. | Overall type of bridge: | Reinforced Concrete Arch |
| Number of tracks: | 1 | Manufacturer of tracks: | Illinois Steel Company |
| Skew: Unknown | | | |
| Legal Load Condition: | Cooper E 40 | | |
| <u>SUBSTRUCTURE</u> | | | |
| Number of Abutments: | 2 | Abutment Material: | Concrete |
| Abutment Configuration: Wing wall | | | |
| Number of Piers/Bents: | 0 | Pier Material: | N/A |
| Pier Configuration: N/A | | | |
| <u>SUPERSTRUCTURE</u> | | | |
| Bridge Type: Reinforced Concrete Arch | | | |
| # of Spans: 1 | | | |
| Main Span(s) | | | |
| Main Span Material: | Reinforced Concrete | | |
| # of Main Spans: | 1 | Width of Main Spans: | 22 ft. |
| Length of each Main Span: | 32 ft. | Total length of all Main Spans: | 32 ft. |
| Height over deck (<i>*for through truss & through arches</i>): N/A | | | |
| Deck material: | Ballast | Deck construction method: | For Rail |
| Wearing Surface: Ballast | | | |
| Approach Span(s) | | | |
| Approach Span Material: N/A | | | |
| # of Approach Spans: | 0 | Width of Approach Spans: | N/A |
| Length of each Approach Span: | N/A | Total length of all Approach Spans: | N/A |

| Section 5: Other Surveys |
|--|
| What other surveys has this bridge been a part of? |
| Bridgehunter.com BH 48880 |

| |
|---|
| Section 6: Narrative) |
| Brief Description of the Bridge: |
| This reinforced semi-circular concrete arch bridge measuring 32 ft. x 22 ft., features concrete wing walls. |
| History of the Bridge: |
| This reinforced concrete arch bridge was designed as one of the standard semi-circular arch bridges for road crossings by the St. Louis, Kansas City & Colorado Railroad |
| Significance of the Bridge with Justification: |
| Pursuant to the recommendations included in previous Phase I reports for the historic St. Louis, Kansas City & Colorado Railroad/Chicago, Rock Island & Pacific Railroad and the MOA, this reinforced concrete arch bridge appears to be eligible for listing in the NRHP under Criteria A and C and meets the 50 year age recommendation for eligibility. It retains historic integrity in order to convey significance. |
| Sources of Information: |
| See historic context for bibliography. |

| | | | |
|---------------------------------------|---|---------------|--|
| Section 7: Contact Information | | | |
| Legal Owner: | Calvin Williford, Executive Director, Rock Island Rail Corridor Authority | | |
| Street Address 1: | 22501 Woods Chapel Rd. | | |
| City: | Blue Springs | State: | MO |
| | | Zip Code: | 64015 |
| Prepared By: | Cydney Millstein and Kelsey Lutz | Date: | 3/12/2017 |
| Title of Preparer: | Principal and assistant | Organization: | Architectural & Historical Research, LLC |
| Street Address 1: | 1537 Belleview Ave. | | |
| City: | Kansas City | State: | MO |
| | | Zip Code: | 64108 |
| Email: | cydney@ahr-kc.com | Phone: | (816) 472-4154 |



Bridge at MP 276.3, Chipman Road, Lee's Summit. View of west façade, looking east.
Date: December 6, 2016



Missouri Bridge/Culvert Inventory Form

Section 1: Bridge Identification

| | |
|--------------------------------------|---|
| Bridge Number: MP 276.4 | |
| Common Name: Cattle Pass at MP 276.4 | Other Name(s): Union Pacific Railroad cattle pass |

Section 2: Bridge Location

| | |
|-----------------------------|--|
| County: Jackson | City or Town (vicinity): Lee's Summit |
| Legal Location: | Township: 48N Range: 32W Section: 34 |
| Route (current): Not active | Route(s) (historic): St. Louis, Kansas City & Colorado Railroad; Chicago, Rock Island & Pacific Railroad |
| Feature Crossed: Embankment | |
| Latitude: 38.92881167 | Longitude: -94.437645 |
| Coordinates: | UTM Zone: 15S Northing: 4309859.27 Easting: 375384.37 |

Section 3: Bridge History

| | | |
|--|---|--|
| Is the Bridge listed in the National Register of Historic Places (NRHP)? | <input type="checkbox"/> Yes | <input checked="" type="checkbox"/> No |
| Is the Bridge part of a listed historic district? | <input type="checkbox"/> Yes | <input checked="" type="checkbox"/> No |
| Has the Bridge been determined eligible for the NRHP? | <input type="checkbox"/> Yes | <input checked="" type="checkbox"/> No |
| Is preservation underway? | <input type="checkbox"/> Yes | <input checked="" type="checkbox"/> No |
| Is the bridge endangered? | <input type="checkbox"/> Yes | <input checked="" type="checkbox"/> No |
| By what? | N/A | |
| Has the Bridge been relocated? | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | When? N/A |
| Where from? | N/A | |
| Construction Date: c. 1903-1904 | Modification Date: N/A | |
| Builder: The Gasconade Railway Construction Company, St. Louis | Fabricator: N/A | |

| Section 4: Bridge Design | | | |
|--|----------------------|-------------------------------------|------------------------|
| Overall length of bridge: | 78 ft. | Overall type of bridge: | Concrete Cattle Pass |
| Number of tracks: | 1 | Manufacturer of track: | Illinois Steel Company |
| Skew: | 0 | | |
| Legal Load Condition: | Cooper E 40 | | |
| <u>SUBSTRUCTURE</u> | | | |
| Number of Abutments: | 0 | Abutment Material: | N/A |
| Abutment Configuration: | N/A | | |
| Number of Piers/Bents: | 0 | Pier Material: | N/A |
| Pier Configuration: | N/A | | |
| <u>SUPERSTRUCTURE</u> | | | |
| Bridge Type: | Concrete Cattle Pass | | |
| # of Spans: | 1 | | |
| Main Span(s) | | | |
| Main Span Material: | Concrete | | |
| # of Main Spans: | 1 | Width of Main Spans: | 4 ft. |
| Length of each Main Span: | 78 ft. | Total length of all Main Spans: | 78 ft. |
| Height over deck (<i>*for through truss & through arches</i>): | N/A | | |
| Deck material: | Ballast | Deck construction method: | For Rail |
| Wearing Surface: | Ballast | | |
| Approach Span(s) | | | |
| Approach Span Material: | None | | |
| # of Approach Spans: | 0 | Width of Approach Spans: | N/A |
| Length of each Approach Span: | N/A | Total length of all Approach Spans: | N/A |

| Section 5: Other Surveys |
|--|
| What other surveys has this bridge been a part of? |
| None |

| Section 6: Narratives | |
|--|--|
| Brief Description of the Bridge: | |
| This concrete cattle pass measures 78' in length, 6' in height and 4' wide. | |
| History of the Bridge: | |
| The St. Louis, Kansas City & St. Louis line constructed concrete cattle passes, based on standardized plans, throughout the line. This example fits the standard design with a circular arch of 4' span and a height of 6' from floor to crown. These structures are paved with 8" of concrete and similar in design to the small culverts used throughout the line. | |
| Significance of the Bridge: | |
| Pursuant to the recommendations included in previous Phase I reports for the historic St. Louis, Kansas City & Colorado Railroad/Chicago, Rock Island & Pacific Railroad and the MOA, this concrete cattle pass appears to be eligible for listing in the NRHP under Criteria A and C and meets the 50-year age recommendation for eligibility. It retains historic integrity in order to convey significance. | |
| Sources of Information: | |
| See historic context for bibliography. | |

| Section 7: Contact Information | | | |
|---------------------------------------|---------------------------------|---|--|
| Legal Owner: | | Calvin Williford, Executive Director, Rock Island Rail Corridor Authority | |
| Street Address 1: | | 22501 Woods Chapel Road | |
| City: | Blue Springs | State: | MO |
| | | Zip Code: | 64051 |
| Prepared By: | Cydne Millstein and Kelsey Lutz | Date: | 3/1/2017 |
| Title of Preparer: | Principal and assistant | Organization: | Architectural & Historical Research, LLC |
| Street Address 1: | | 1537 Belleview Ave. | |
| City: | Kansas City | State: | MO |
| | | Zip Code: | 64108 |
| Email: | cydney@ahr-kc.com | Phone: | (816) 472-4154 |



Cattle Pass at MP 276.4, Lee's Summit. General view of west façade, looking east
Date: December 6, 2016.





Missouri Bridge/Culvert Inventory Form

Section 1: Bridge Identification

| | |
|----------------------------------|---|
| Bridge Number: MP 276.7 | |
| Common Name: Culvert at MP 276.7 | Other Name(s): Union Pacific Railroad culvert |

Section 2: Bridge Location

| | |
|--|--|
| County: Jackson | City or Town (vicinity): Lee's Summit |
| Legal Location: | Township: 48N Range: 32W Section: 34 |
| Route (current): Not active | Route(s) (historic): St. Louis, Kansas City & Colorado Railroad; Chicago, Rock Island & Pacific Railroad |
| Feature Crossed: Drainage from Cedar Creek | |
| Latitude: 38.93348 | Longitude: -94.437875 |
| Coordinates: | UTM Zone: 15S Northing: 4310377.67 Easting: 375372.60 |

Section 3: Bridge History

| | | |
|--|---|--|
| Is the Bridge listed in the National Register of Historic Places (NRHP)? | <input type="checkbox"/> Yes | <input checked="" type="checkbox"/> No |
| Is the Bridge part of a listed historic district? | <input type="checkbox"/> Yes | <input checked="" type="checkbox"/> No |
| Has the Bridge been determined eligible for the NRHP? | <input type="checkbox"/> Yes | <input checked="" type="checkbox"/> No |
| Is preservation underway? | <input type="checkbox"/> Yes | <input checked="" type="checkbox"/> No |
| Is the bridge endangered? | <input type="checkbox"/> Yes | <input checked="" type="checkbox"/> No |
| By what? | N/A | |
| Has the Bridge been relocated? | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | When? N/A |
| Where from? | N/A | |
| Construction Date: c. 1903-1904 | Modification Date: N/A | |
| Builder: The Gasconade Railway Construction Company, St. Louis | Fabricator: N/A | |

| Section 4: Bridge Design | | | |
|--|------------------|-------------------------------------|------------------|
| Overall length of bridge: | 78 ft. | Overall type of bridge: | Concrete Culvert |
| Number of tracks: | 1 | Manufacturer of track: | |
| Skew: | 0 | | |
| Legal Load Condition: | Cooper E 40 | | |
| SUBSTRUCTURE | | | |
| Number of Abutments: | 0 | Abutment Material: | N/A |
| Abutment Configuration: | N/A | | |
| Number of Piers/Bents: | 0 | Pier Material: | N/A |
| Pier Configuration: | N/A | | |
| SUPERSTRUCTURE | | | |
| Bridge Type: | Concrete Culvert | | |
| # of Spans: | 1 | | |
| Main Span(s) | | | |
| Main Span Material: | Concrete | | |
| # of Main Spans: | 1 | Width of Main Spans: | 11 ft. |
| Length of each Main Span: | 78 ft. | Total length of all Main Spans: | 78 ft. |
| Height over deck (<i>*for through truss & through arches</i>): | N/A | | |
| Deck material: | Ballast | Deck construction method: | For Rail |
| Wearing Surface: | Ballast | | |
| Approach Span(s) | | | |
| Approach Span Material: | None | | |
| # of Approach Spans: | 0 | Width of Approach Spans: | N/A |
| Length of each Approach Span: | N/A | Total length of all Approach Spans: | N/A |

| Section 5: Other Surveys |
|--|
| What other surveys has this bridge been a part of? |
| None |

| Section 6: Narratives |
|---|
| Brief Description of the Bridge: |
| This concrete culvert measures 78' in length and 11' wide. |
| History of the Bridge: |
| Using J. P. Frizzel's actual measurements for drainage areas, the design for this 11' wide concrete culvert was taken from standardized plans for the St. Louis, Kansas City & Colorado Railroad. Along the entire line, approximately 500 culverts and cattle passes were constructed varying from 2 to 36 feet in width. |
| Significance of the Bridge: |
| Pursuant to the recommendations included in previous Phase I reports for the historic St. Louis, Kansas City & Colorado Railroad/Chicago, Rock Island & Pacific Railroad and the MOA, this concrete arch culvert appears to be eligible for listing in the NRHP under Criteria A and C and meets the 50-year age recommendation for eligibility. It retains historic integrity in order to convey significance. |
| Sources of Information: |
| See historic context for bibliography. |

| Section 7: Contact Information | | | |
|---------------------------------------|---|---------------|--|
| Legal Owner: | Calvin Williford, Executive Director, Rock Island Rail Corridor Authority | | |
| Street Address 1: | 22501 Woods Chapel Road | | |
| City: | Blue Springs | State: | MO |
| | | Zip Code: | 64051 |
| Prepared By: | Cydne Millstein and Kelsey Lutz | Date: | 3/1/2017 |
| Title of Preparer: | Principal and assistant | Organization: | Architectural & Historical Research, LLC |
| Street Address 1: | 1537 Belleview Ave. | | |
| City: | Kansas City | State: | MO |
| | | Zip Code: | 64108 |
| Email: | cydney@ahr-kc.com | Phone: | (816) 472-4154 |



Culvert at MP 276.7, Lee's Summit. General view of the west façade, looking east.
Date: December 6, 2017



Missouri Bridge Inventory Form

Section 1: Bridge Identification

| | |
|---------------------------------------|--|
| Bridge Number: MP 277.0 | |
| Common Name: Little Blue River Bridge | Other Name(s): Union Pacific Railroad bridge |

Section 2: Bridge Location

| | |
|--|--|
| County: Jackson | City or Town (vicinity): Lee's Summit |
| Legal Location: | Township: 48N Range: 32W Section: 34 |
| Route (current): Not active | Route(s) (historic): St. Louis, Kansas City & Colorado Railroad; Chicago, Rock Island & Pacific Railroad |
| Feature Crossed: Water (Little Blue River) | |
| Latitude: 38.93814 | Longitude: -94.43819 |
| Coordinates: | UTM Zone: 15S Northing: 4310895.25 Easting: 375353.46 |

Section 3: Bridge History

| | | |
|--|---|--|
| Is the Bridge listed in the National Register of Historic Places (NRHP)? | <input type="checkbox"/> Yes | <input checked="" type="checkbox"/> No |
| Is the Bridge part of a listed historic district? | <input type="checkbox"/> Yes | <input checked="" type="checkbox"/> No |
| Has the Bridge been determined eligible for the NRHP? | <input type="checkbox"/> Yes | <input checked="" type="checkbox"/> No |
| Is preservation underway? | <input type="checkbox"/> Yes | <input checked="" type="checkbox"/> No |
| Is the bridge endangered? | <input type="checkbox"/> Yes | <input checked="" type="checkbox"/> No |
| By what? | N/A | |
| Has the Bridge been relocated? | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | When? N/A |
| Where from? | N/A | |
| Construction Date: 1903 | Modification Date: N/A | |
| Builder: Stubbs, Flick & Johnson Construction Company, Kansas City, MO | Fabricator: American Bridge Company, New York | |

| Section 4: Bridge Design | |
|--|---|
| Overall length of bridge: 182 ft. | Overall type of bridge: Deck Plate Girder |
| Number of tracks: 1 | Manufacturer of track: |
| Skew: | |
| Legal Load Condition: Cooper E 80 | |
| SUBSTRUCTURE | |
| Number of Abutments: 2 | Abutment Material: Concrete |
| Abutment Configuration: | |
| Number of Piers/Bents: 2 | Pier Material: Concrete |
| Pier Configuration: Solid Shaft | |
| SUPERSTRUCTURE | |
| Bridge Type: Deck Plate Girder | |
| # of Spans: 3 | |
| Main Span(s) | |
| Main Span Material: Metal | |
| # of Main Spans: 1 | Width of Main Spans: 12 ft. |
| Length of each Main Span: 80 ft. | Total length of all Main Spans: 80 ft. |
| Height over deck (<i>*for through truss & through arches</i>): N/A | |
| Deck material: Ballast | Deck construction method: For Rail |
| Wearing Surface: Ballast | |
| Approach Span(s) | |
| Approach Span Material: Metal | |
| # of Approach Spans: 2 | Width of Approach Spans: 12 ft. |
| Length of each Approach Span: 50 ft. | Total length of all Approach Spans: 100 ft. |

| Section 5: Other Surveys |
|--|
| What other surveys has this bridge been a part of? |
| Bridgehunter.com BH 43569 |

| Section 6: Narratives |
|--|
| Brief Description of the Bridge (include any rehabilitation or alterations): |
| This deck plate girder bridge features a main span measuring 80 feet and two approach spans measuring 50 feet each. |
| History of the Bridge: |
| Very similar in design to the Elm Branch Bridge in Pettis County, MO, this deck plate girder was built 1903 for the St. Louis, Kansas City & Colorado Railroad by Stubbs-Flick-Johnson Construction Company, Kansas City, MO. American Bridge Company, New York, manufactured the deck plate girders. |
| Significance of the Bridge with Justification: |
| Pursuant to the recommendations included in previous Phase I reports for the historic St. Louis, Kansas City & Colorado Railroad/Chicago, Rock Island & Pacific Railroad and the MOA, this deck plate girder bridge appears to be eligible for listing in the NRHP under Criteria A and C and meets the 50-year age recommendation for eligibility. It retains historic integrity in order to convey significance. |
| Sources of Information: |
| See historic context for bibliography |

| Section 7: Contact Information | | | |
|---------------------------------------|---|-------------------|--|
| Legal Owner: | Calvin Williford, Executive Director, Rock Island Rail Corridor Authority | | |
| Street Address 1: | 22501 Woods Chapel Rd. | | |
| City: | Blue Springs | State: | MO |
| | | Zip Code: | 64015 |
| Prepared By: | Cydney Millstein and Kelsey Lutz | Date: | 3/12/2017 |
| Title of Preparer: | Principal and Assistant | Organization: | Architectural & Historical Research, LLC |
| Street Address 1: | 1537 Belleview Ave. | Street Address 2: | |
| City: | Kansas City | State: | MO |
| | | Zip Code: | 64108 |
| Email: | cydney@ahr-kc.com | Phone: | (816) 472-4154 |



Bridge at MP 277.0 over the Little Blue River. Panorama of the west facade facing southeast (above); Detail of the west façade, looking east (below). Date: December 6, 2016.



D. V. FORM NO. 68
 DATE 10-15-15 INTERSTATE COMMERCE COMMISSION PAGE 4
 DIVISION OF VALUATION
 CARRIER Rock Island N. M. Oline FOR CARRIER
 VALUATION SECTION 15-7mo 7 12-717
 Astorley FOR I. C. C.

Steel (80) Amer Bridge Co 1903
 1- D.P. Girder Span 30'0"
 1 ply

web. 36 x 3/8 } Sm. = 780 = F50
 ICC Est Wt = 17000 #
 Carriers Record actual 18848 # ✓

Flange }
 2L 6 x 4 x 3/4 }
 1 cov. 12 x 9/16 } full length out top
 1 u 12 x 1/2 }

2.9 shoes 6" hgh
 4 Cross frames
 Top Lats 1L dbl system

Gr. 64 lufft 6 x 8 dap J 256 187
 Bridge Board # 2580 1 J 180 #
 Hardware
 Wall Plate 30 lufft 8 x 16 (320) 187

Original engineering notes from the ICC files, C. R. I. & P. RY, Val Sections. National Archives, College Park, MD, describing the deck plate girder span at MP 277.0. RG No. 134, 570, Box 683.



Missouri Bridge Inventory Form

Section 1: Bridge Identification

| | |
|--------------------------|--|
| Bridge Number: MP 277.7 | |
| Common Name: Vale Tunnel | Other Name(s): Union Pacific Railroad Tunnel No. 4, Vale, MO |

Section 2: Bridge Location

| | | | |
|-----------------------------|---------------|--|--------------------|
| County(ies): Jackson | | City or Town (vicinity): Kansas City | |
| Legal Location: | Township: 48N | Range: 32W | Section: 27 |
| Route (current): Not active | | Route(s) (historic): St. Louis, Kansas City & Colorado Railroad; Chicago, Rock Island & Pacific Railroad | |
| Feature Crossed: Embankment | | | |
| Latitude: 38.94770 | | Longitude: -94.43537 | |
| Coordinates: | UTM Zone: 15S | Northing: 4311952.34 | Easting: 375614.59 |

Section 3: Bridge History

| | | | |
|---|--|------------------------------|--|
| Is the Bridge listed in the National Register of Historic Places (NRHP)? | | <input type="checkbox"/> Yes | <input checked="" type="checkbox"/> No |
| Is the Bridge part of a listed historic district? | | <input type="checkbox"/> Yes | <input checked="" type="checkbox"/> No |
| Has the Bridge been determined eligible for the NRHP? | | <input type="checkbox"/> Yes | <input checked="" type="checkbox"/> No |
| Is preservation underway? | | <input type="checkbox"/> Yes | <input checked="" type="checkbox"/> No |
| Is the bridge endangered? | | <input type="checkbox"/> Yes | <input checked="" type="checkbox"/> No |
| By what? N/A | | | |
| Has the Bridge been relocated? | | <input type="checkbox"/> Yes | <input checked="" type="checkbox"/> No |
| When? N/A | | | |
| Where from? N/A | | | |
| Construction Date: 1903 | | Rehabilitation Date(s): N/A | |
| Builder: The Gasconade Railway Construction Company with the St. Louis, Kansas City & Colorado Railroad | | Fabricator: N/A | |

| Section 4: Bridge Design | | | |
|---|-------------|-------------------------------------|---|
| Overall length of bridge: | 453 ft. | Overall type of bridge: | Arch Tunnel |
| Number of tracks: | 1 | Manufacturer of track: | Illinois Steel Company |
| Skew: | | | |
| Legal Load Condition: | Unknown | | |
| SUBSTRUCTURE | | | |
| Number of Abutments: | 0 | Abutment Material: | N/A |
| Abutment Configuration: N/A | | | |
| Number of Piers/Bents: | 0 | Pier Material: | N/A |
| Pier Configuration: N/A | | | |
| SUPERSTRUCTURE | | | |
| Bridge Type: | Arch Tunnel | | |
| # of Spans: | 1 | | |
| Main Span(s) | | | |
| Main Span Material: | Concrete | | |
| # of Main Spans: | 1 | Width of Main Spans: | 18 ft. |
| Length of each Main Span: | 453 ft. | Total length of all Main Spans: | 453 ft. |
| Height over deck (*for through truss & through arches): N/A | | | |
| Deck material: | Ballast | Deck construction method: | For Rail |
| Wearing Surface: Ballast | | | |
| Approach Span(s) | | | |
| Approach Span Material: | N/A | and/or | Choose an item. <i>If "other" please specify.</i> |
| # of Approach Spans: | 0 | Width of Approach Spans: | N/A |
| Length of each Approach Span: | N/A | Total length of all Approach Spans: | N/A |

| Section 5: Other Surveys |
|---|
| What other surveys has this bridge been a part of? |
| Bridgehunter.com BH 21722 |

Section 6: Narratives

Brief Description of the Bridge:

The Vale Tunnel measures 453 feet in length, 18 feet wide and 28.6 feet in height. The tunnel is lined with concrete. Spaces between the lining (timber and concrete) and the tunnel section were designed to be filled with crushed stone. See drawing, below. The impression of the timber placed behind the concrete can be seen on the interior of the tunnel.

History of the Bridge:

Vale Tunnel, or Tunnel No. 4 built for the St. Louis, Kansas City & Colorado Railroad, is one of four tunnels constructed along the line. The Vale Tunnel, like the other structures, was excavated in rock. It appears that J. L. Campbell, the Chief Engineer for the Gasconade Railway Construction Company, was responsible for the design of the tunnels.

Significance of the Bridge:

Pursuant to the recommendations included in previous Phase I reports for the historic St. Louis, Kansas City & Colorado Railroad/Chicago, Rock Island & Pacific Railroad and the MOA, the Vale Tunnel appears to be eligible for listing in the NRHP under Criteria A and C and meets the 50-year age recommendation for eligibility. It retains historic integrity in order to convey significance.

Sources of Information:

See historic context for bibliography.

Section 7: Contact Information

Legal Owner: Calvin Williford, Executive Director, Rock Island Rail Corridor Authority

Street Address 1: 22501 Woods Chapel Rd.

City: Blue Springs

State: MO

Zip Code: 64015

Prepared By: Cydney Millstein and
Kelsey Lutz

Date: 3/12/2017

Title of Preparer: Principal and Assistant

Organization: Architectural & Historical Research, LLC

Street Address 1: 1537 Belleview Ave.

City: Kansas City

State: MO

Zip Code: 64108

Email: cydney@ahr-kc.com

Phone: (816) 472-4154



Vale Tunnel at MP 277.7. View of the north entrance, facing east (above); view of the south entrance, facing north (below). Date: December 6, 2016.





Vale Tunnel at MP No. 277.7. View of the interior, facing south. Date: December 6, 2016

FORM NO. 63
 10-18-15
 Rock Island
 16-mo
 INTERSTATE COMMERCE COMMISSION
 DIVISION OF VALUATION
 36
 12-717
 PAGE 129
 FOR CARRIER
 FOR I. C. C.
 A. H. Worley

Sta 715+83.5 to Sta 720+30.0
 Tunnel no 4 west of Freeburg, Mo
 ale, mo 1903

6' wide at top

East Portal.

Tunnel lined full length Conc
 Shale
 Total length 447ft 60⁰⁰ 26820⁰⁰
 2 full tales same as
 Concrete lining + portals (Concrete) 2562sq 12⁰⁰ 30744⁰⁰
 at Freeburg, Mo
 Conc Base Tunnel 57564⁰⁰ 48929⁰⁰

3' x 2'-6 sq.
 2' x 4'-0 sq.

Original engineering notes from the ICC files, C. R. I. & P. RY, Val Sections. National Archives, College Park, MD. Vale Tunnel. RG No. 134, 570, Box 683.



Missouri Bridge Inventory Form

Section 1: Bridge Identification

| | |
|---------------------------------|--|
| Bridge Number: MP 279.0 | |
| Common Name: Bridge over MO-350 | Other Name(s): Union Pacific Railroad bridge |

Section 2: Bridge Location

| | |
|---|--|
| County(ies): Jackson | City or Town (vicinity): Kansas City |
| Legal Location: | Township: 48 N Range: 32 W Section: 22 |
| Route (current): Not active | Route(s) (historic): St. Louis, Kansas City & Colorado Railroad; Chicago, Rock Island & Pacific Railroad |
| Feature Crossed: Roadway (MO Highway 350) | |
| Latitude: 39.05841 | Longitude: -94.50177 |
| Coordinates: | UTM Zone: 15S Northing: 4324331.58 Easting: 370062.99 |

Section 3: Bridge History

| | | |
|---|---|--|
| Is the Bridge listed in the National Register of Historic Places (NRHP)? | <input type="checkbox"/> Yes | <input checked="" type="checkbox"/> No |
| Is the Bridge part of a listed historic district? | <input type="checkbox"/> Yes | <input checked="" type="checkbox"/> No |
| Has the Bridge been determined eligible for the NRHP? | <input type="checkbox"/> Yes | <input checked="" type="checkbox"/> No |
| Is preservation underway? | <input type="checkbox"/> Yes | <input checked="" type="checkbox"/> No |
| Is the bridge endangered? | <input type="checkbox"/> Yes | <input checked="" type="checkbox"/> No |
| By what? | N/A | |
| Has the Bridge been relocated? | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | When? N/A |
| Where from? | N/A | |
| Construction Date: After 1915 | Modification Date: N/A | |
| Builder: Stubbs, Flick, and Johnson Construction Company, Kansas City (attribution) | Fabricator: American Bridge Company, New York (attribution) | |

| Section 4: Bridge Design | | | |
|---|-------------------|-------------------------------------|------------------------|
| Overall length of bridge: | 50 ft. | Overall type of bridge: | Deck Plate Girder |
| Number of tracks: | 1 | Manufacturer of track: | Illinois Steel Company |
| Skew: | | | |
| Legal Load Condition: | Cooper E 80 | | |
| SUBSTRUCTURE | | | |
| Number of Abutments: | 2 | Abutment Material: | Concrete |
| Abutment Configuration: T | | | |
| Number of Piers/Bents: | N/A | Pier Material: | N/A |
| Pier Configuration: N/A | | | |
| SUPERSTRUCTURE | | | |
| Bridge Type: | Deck Plate Girder | | |
| # of Spans: | 1 | | |
| Main Span(s) | | | |
| Main Span Material: | Metal | | |
| # of Main Spans: | 1 | Width of Main Spans: | 14 ft. |
| Length of each Main Span: | 46 ft. | Total length of all Main Spans: | 46 ft. |
| Height over deck (*for through truss & through arches): N/A | | | |
| Deck material: | Ballast | Deck construction method: | For Rail |
| Wearing Surface: Ballast | | | |
| Approach Span(s) | | | |
| Approach Span Material: N/A | | | |
| # of Approach Spans: | 0 | Width of Approach Spans: | N/A |
| Length of each Approach Span: | N/A | Total length of all Approach Spans: | N/A |

| Section 5: Other Surveys | |
|--|---|
| What other surveys has this bridge been a part of? | <i>This could include the Missouri Historic Bridge Inventory, local resource surveys, Bridgehunter.com, and more.</i> |
| Bridgehunter.com BH 36480 | |

| |
|---|
| Section 6: Narratives |
| Brief Description of the Bridge (include any rehabilitation or alterations). |
| This deck plate girder measures 46' in length and 14' wide, with concrete abutments. |
| History of the Bridge (including citations): |
| A concrete arch bridge measuring 20' x 16' was originally located at this MP. Sometime after 1915 when the roadway was modified, this deck plate girder was constructed. |
| Significance of the Bridge with Justification: |
| Pursuant to the recommendations included in previous Phase I reports for the historic St. Louis, Kansas City & Colorado Railroad/Chicago, Rock Island & Pacific Railroad and the MOA, this deck plate girder appears to be eligible for listing in the NRHP under Criteria A and C and meets the 50-year age recommendation for eligibility. It retains historic integrity in order to convey significance. |
| Sources of Information: |
| See historic context for bibliography |

| | | | |
|---------------------------------------|---|---------------|--|
| Section 7: Contact Information | | | |
| Legal Owner: | Calvin Williford, Executive Director, Rock Island Rail Corridor Authority | | |
| Street Address 1: | 22501 Woods Chapel Road | | |
| City: | Blue Springs | State: | MO |
| | | Zip Code: | 64015 |
| Prepared By: | Cydne Millstein and Kelsey Lutz | Date: | 3/12/2017 |
| Title of Preparer: | Principal and assistant | Organization: | Architectural & Historical Research, LLC |
| Street Address 1: | 1537 Belleview Ave. | | |
| City: | Kansas City | State: | MO |
| | | Zip Code: | 64108 |
| Email: | cydney@ahr-kc.com | Phone: | (816) 472-4154 |



Bridge at MP 279.0 at MO Highway 350. View of the south façade, facing northeast. Date: March 7, 2017.



Bridge at MP 279.0 at MO Highway 350. View of the tracks on the deck of the bridge, facing east.
Date: December 6, 2016.



Missouri Bridge Inventory Form

Section 1: Bridge Identification

| | |
|-------------------------------------|--|
| Bridge Number: MP 280.0 | |
| Common Name: Bridge over Frost Road | Other Name(s): Union Pacific Railroad bridge |

Section 2: Bridge Location

| | | | |
|---------------------------------------|----------------|--|--------------------|
| County(ies): Jackson | | City or Town (vicinity): Raytown | |
| Legal Location: | Township: 48 N | Range: 32 W | Section: 15 |
| Route (current): Not active | | Route(s) (historic): St. Louis, Kansas City & Colorado Railroad; Chicago, Rock Island & Pacific Railroad | |
| Feature Crossed: Roadway (Frost Road) | | | |
| Latitude: 38.97882 | | Longitude: -94.42996 | |
| Coordinates: | UTM Zone: 15S | Northing: 4315398.60 | Easting: 376137.64 |

Section 3: Bridge History

| | | | |
|--|--|------------------------------|--|
| Is the Bridge listed in the National Register of Historic Places (NRHP)? | | <input type="checkbox"/> Yes | <input checked="" type="checkbox"/> No |
| Is the Bridge part of a listed historic district? | | <input type="checkbox"/> Yes | <input checked="" type="checkbox"/> No |
| Has the Bridge been determined eligible for the NRHP? | | <input type="checkbox"/> Yes | <input checked="" type="checkbox"/> No |
| Is preservation underway? | | <input type="checkbox"/> Yes | <input checked="" type="checkbox"/> No |
| Is the bridge endangered? | | <input type="checkbox"/> Yes | <input checked="" type="checkbox"/> No |
| By what? | | N/A | |
| Has the Bridge been relocated? | | <input type="checkbox"/> Yes | <input checked="" type="checkbox"/> No |
| When? | | N/A | |
| Where from? | | N/A | |
| Construction Date: 1903 | | Rehabilitation Date(s): N/A | |
| Builder: Gasconade Railway Construction Company, St. Louis | | Fabricator: N/A | |

| Section 4: Bridge Design | | | |
|--|--------------------------|-------------------------------------|------------------------|
| Overall length of bridge: | 42 ft. | Overall type of bridge: | Concrete Arch |
| Number of tracks: | 1 | Manufacturer of tracks: | Illinois Steel Company |
| Skew: | Unknown | | |
| Legal Load Condition: | Cooper E 40 | | |
| SUBSTRUCTURE | | | |
| Number of Abutments: | 2 | Abutment Material: | Concrete |
| Abutment Configuration: | Wing Wall | | |
| Number of Piers/Bents: | 0 | Pier Material: | N/A |
| Pier Configuration: | N/A | | |
| SUPERSTRUCTURE | | | |
| Bridge Type: | Reinforced Concrete Arch | | |
| # of Spans: | 1 | | |
| Main Span(s) | | | |
| Main Span Material: | Concrete | | |
| # of Main Spans: | 1 | Width of Main Spans: | 18 ft. |
| Length of each Main Span: | 42 ft. | Total length of all Main Spans: | 42 ft. |
| Height over deck (<i>*for through truss & through arches</i>): | N/A | | |
| Deck material: | Ballast | Deck construction method: | For Rail |
| Wearing Surface: | Ballast | | |
| Approach Span(s) | | | |
| Approach Span Material: | N/A | | |
| # of Approach Spans: | 0 | Width of Approach Spans: | N/A |
| Length of each Approach Span: | N/A | Total length of all Approach Spans: | N/A |

| Section 5: Other Surveys |
|---|
| What other surveys has this bridge been a part of? |
| Bridgehunter.com BH 51803 |

Section 6: Narratives

Brief Description of the Bridge:

Located at Frost Road, this reinforced concrete arch subway measures 42' in length, 18' wide and 16' in height.

History of the Bridge:

J. L. Campbell, Chief Engineer for the Gasconade Railway Construction Company, may have designed the bridge for the St. Louis, Kansas City & Colorado Railroad. Campbell wrote extensively about structures for the line, specifically reinforced concrete arch bridges and culverts and included drawings for standardized structures in various publications including *The Engineering Record* that covered the construction of this railroad line.

Significance of the Bridge with Justification:

Pursuant to the recommendations included in previous Phase I reports for the historic St. Louis, Kansas City & Colorado Railroad/Chicago, Rock Island & Pacific Railroad and the MOA, this reinforced concrete arch bridge appears to be eligible for listing in the NRHP under Criteria A and C and meets the 50-year age recommendation for eligibility. It retains historic integrity in order to convey significance.

Sources of Information:

See historic context for bibliography

Section 7: Contact Information

Legal Owner: Calvin Williford, Executive Director, Rock Island Rail Corridor Authority

Street Address 1: 22501 Woods Chapel Road

City: Blue Springs

State: MO

Zip Code: 64051

Prepared By: Cydney Millstein and
Kelsey Lutz

Date: 3/1/2017

Title of Preparer: Principal and assistant

Organization: Architectural & Historical Research, LLC

Street Address 1: 1537 Belleview Ave.

City: Kansas City

State: MO

Zip Code: 64108

Email: cydney@ahr-kc.com

Phone: (816) 472-4154



Bridge at MP 280.00 over Frost Road, Raytown, MO. General view of the west façade (above) and east façade (below). Date: December 6, 2016



Bridge at MP No. 280.00 over Frost Road, Raytown, MO. View from the deck of the bridge toward Frost Road.
Date: December 6, 2016



Missouri Bridge Inventory Form

Section 1: Bridge Identification

| | |
|--|--|
| Bridge Number: MP: 280.6 | |
| Common Name: Bridge over 75 th Street | Other Name(s): Union Pacific Railroad bridge |

Section 2: Bridge Location

| | | | |
|-----------------------------|----------------|---|--------------------|
| County(ies): Jackson | | City or Town (vicinity): Raytown | |
| Legal Location: | Township: 48 N | Range: 32 W | Section: 15 |
| Route (current): Not active | | Route(s) (historic): St. Louis, Kansas City & Colorado Railroad/Chicago, Rock Island & Pacific Railroad | |
| Feature Crossed: Roadway | | | |
| Latitude: 38.98566 | | Longitude: -94.43849 | |
| Coordinates: | UTM Zone: 15S | Northing: 4316169.32 | Easting: 375410.73 |

Section 3: Bridge History

| | | | |
|--|--|------------------------------|--|
| Is the Bridge listed in the National Register of Historic Places (NRHP)? | | <input type="checkbox"/> Yes | <input checked="" type="checkbox"/> No |
| Is the Bridge part of a listed historic district? | | <input type="checkbox"/> Yes | <input checked="" type="checkbox"/> No |
| Has the Bridge been determined eligible for the NRHP? | | <input type="checkbox"/> Yes | <input checked="" type="checkbox"/> No |
| Is preservation underway? | | <input type="checkbox"/> Yes | <input checked="" type="checkbox"/> No |
| Is the bridge endangered? | | <input type="checkbox"/> Yes | <input checked="" type="checkbox"/> No |
| By what? | | N/A | |
| Has the Bridge been relocated? | | <input type="checkbox"/> Yes | <input checked="" type="checkbox"/> No |
| When? | | N/A | |
| Where from? | | N/A | |
| Construction Date: 1903 | | Rehabilitation Date(s): N/A | |
| Builder: Gasconade Railway Construction Company, St. Louis | | Fabricator: N/A | |

| Section 4: Bridge Design | | | |
|--|-----------------------------------|-------------------------------------|-----------------------------------|
| Overall length of bridge: | 20 ft. | Overall type of bridge: | Concrete and I-Beam Road Crossing |
| Number of tracks | 1 | Manufacturer of tracks: | Illinois Steel Company |
| Skew: | | | |
| Legal Load Condition: | | | |
| SUBSTRUCTURE | | | |
| Number of Abutments: | 2 | Abutment Material: | Concrete |
| Abutment Configuration: Wing Wall | | | |
| Number of Piers/Bents: | 0 | Pier Material: | N/A |
| Pier Configuration: N/A | | | |
| SUPERSTRUCTURE | | | |
| Bridge Type: | Concrete and I-Beam Road Crossing | | |
| # of Spans: | 1 | | |
| Main Span(s) | | | |
| Main Span Material: | Concrete | | |
| # of Main Spans: | 1 | Width of Main Spans: | 12 ft. |
| Length of each Main Span: | 20 ft. | Total length of all Main Spans: | 20 ft. |
| Height over deck (<i>*for through truss & through arches</i>): N/A | | | |
| Deck material: | Ballast | Deck construction method: | For Rail |
| Wearing Surface: Ballast | | | |
| Approach Span(s) | | | |
| Approach Span Material: N/A | | | |
| # of Approach Spans: | 0 | Width of Approach Spans: | N/A |
| Length of each Approach Span: | N/A | Total length of all Approach Spans: | N/A |

| Section 5: Other Surveys |
|--|
| What other surveys has this bridge been a part of? |
| Bridgehunter.com BH 51804 |

Section 6: Narratives

Brief Description of the Bridge:

This Concrete and I-Beam Solid Floor Road Crossing (bridge) measures 20' long, 12' wide and 16' in height.

History of the Bridge:

J. L. Campbell, Chief Engineer for the Gasconade Railway Construction Company, may have designed the bridge for the St. Louis, Kansas City & Colorado Railroad. Campbell wrote extensively about structures for the line, specifically reinforced concrete arch bridges and culverts and included drawings for standardized structures in various publications including *The Engineering Record* that covered the construction of this railroad line.

Significance of the Bridge:

Pursuant to the recommendations included in previous Phase I reports for the historic St. Louis, Kansas City & Colorado Railroad/Chicago, Rock Island & Pacific Railroad and the MOA, this concrete and I-Beam solid floor road crossing appears to be eligible for listing in the NRHP under Criteria A and C and meets the 50-year age recommendation for eligibility. It retains historic integrity in order to convey significance.

Sources of Information:

See historic context for bibliography.

Section 7: Contact Information

Legal Owner: Calvin Williford, Executive Director, Rock Island Rail Corridor Authority

Street Address 1: 22501 Woods Chapel Road

City: Blue Springs

State: MO

Zip Code: 64015

Prepared By: Cydney Millstein and
Kelsey Lutz

Date: 3/1/2017

Title of Preparer: Principal and assistant

Organization: Architectural & Historical Research, LLC

Street Address 1: 1537 Belleview Ave.

City: Kansas City

State: MO

Zip Code: 64108

Email: cydney@ahr-kc.com

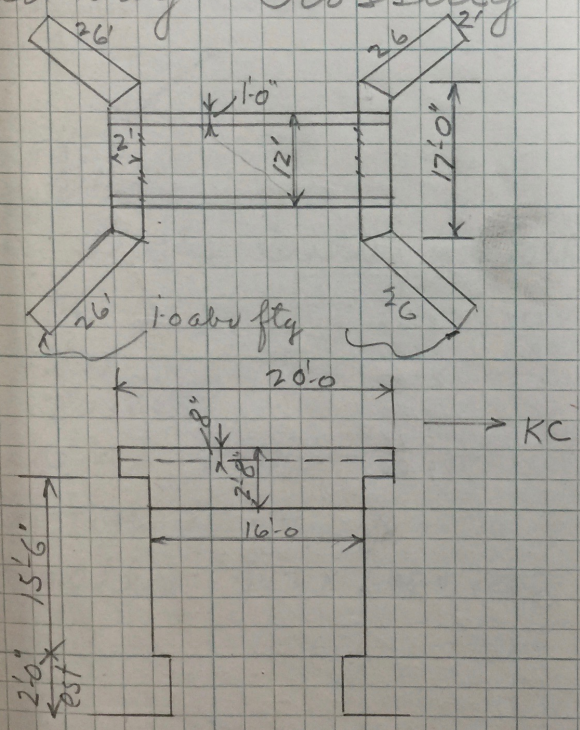
Phone: (816) 472-4154



Bridge at MP 280.6. View of west façade, looking east. Date: December 5, 2016

ta 553+30
 (60) 1'-0" x 1'-0" 16'-0"
 "pine solid
 Exc 2 x 1 1/2 x 18 Earth dry
 200 ftm 120 ftm
 2 cy 1 cy

ta 563+
 Roadway Crossing Subway



concrete Slab
 I-Beams est 8x65x20
 masonry Bars est
 Exc - solid rock
 10 cy
 460 #
 500 #
 215 #
 54 cy

Original engineering notes from the ICC files, C. R. I. & P. RY, Val Sections. National Archives, College Park, MD. Concrete Slab with I-Beam, RG No. 134, 570, Box 683.



Missouri Bridge Inventory Form

Section 1: Bridge Identification

| | |
|------------------------------|--|
| Bridge Number: MP 281.5 | |
| Common Name: Wildwood Bridge | Other Name(s): Union Pacific Railroad bridge |

Section 2: Bridge Location

| | | | |
|----------------------------|---------------|---|--------------------|
| County(ies): Jackson | | City or Town (vicinity): Raytown | |
| Legal Location: | Township: 48N | Range: 32W | Section: 9 |
| Route (current): No active | | Route(s) (historic): St. Louis, Kansas City & Colorado Railroad/Chicago, Rock Island & Pacific Railroad | |
| Feature Crossed: Terrain | | | |
| Latitude: 38.994328 | | Longitude: -94.450944 | |
| Coordinates: | UTM Zone: 15S | Northing: 4317148.40 | Easting: 374347.36 |

Section 3: Bridge History

| | | | |
|--|--|------------------------------|--|
| Is the Bridge listed in the National Register of Historic Places (NRHP)? | | <input type="checkbox"/> Yes | <input checked="" type="checkbox"/> No |
| Is the Bridge part of a listed historic district? | | <input type="checkbox"/> Yes | <input checked="" type="checkbox"/> No |
| Has the Bridge been determined eligible for the NRHP? | | <input type="checkbox"/> Yes | <input checked="" type="checkbox"/> No |
| Is preservation underway? | | <input type="checkbox"/> Yes | <input checked="" type="checkbox"/> No |
| Is the bridge endangered? | | <input type="checkbox"/> Yes | <input checked="" type="checkbox"/> No |
| By what? | | N/A | |
| Has the Bridge been relocated? | | <input type="checkbox"/> Yes | <input checked="" type="checkbox"/> No |
| When? | | N/A | |
| Where from? | | N/A | |
| Construction Date: c. 1903 | | Rehabilitation Date(s): N/A | |
| Builder: St. Louis, Kansas City & Colorado Railroad | | Fabricator: N/A | |

| Section 4: Bridge Design | | | |
|--|--------------------------|-------------------------------------|------------------------|
| Overall length of bridge: | 145 ft. | Overall type of bridge: | Timber Trestle |
| Number of tracks: | 1 | Manufacturer of track: | Illinois Steel Company |
| Skew: | | | |
| Legal Load Condition: | Unknown | | |
| SUBSTRUCTURE | | | |
| Number of Abutments: | 2 | Abutment Material: | Unknown |
| Abutment Configuration: Unknown | | | |
| Number of Piers/Bents: | 8 | Pier Material: | Timber |
| Pier Configuration: | Battered and plumb piles | | |
| SUPERSTRUCTURE | | | |
| Bridge Type: | Timber Trestle | | |
| # of Spans: | 1 | | |
| Main Span(s) | | | |
| Main Span Material: | Timber | | |
| # of Main Spans: | 1 | Width of Main Spans: | Unknown |
| Length of each Main Span: | 145 ft. | Total length of all Main Spans: | 145 ft. |
| Height over deck (<i>*for through truss & through arches</i>): N/A | | | |
| Deck material: | Wood | Deck construction method: | For Rail |
| Wearing Surface: Ballast | | | |
| Approach Span(s) | | | |
| Approach Span Material: N/A | | | |
| # of Approach Spans: | 0 | Width of Approach Spans: | N/A |
| Length of each Approach Span: | N/A | Total length of all Approach Spans: | N/A |

| Section 5: Other Surveys |
|--|
| What other surveys has this bridge been a part of? |
| Bridgehunter.com BH 48932 |

Section 6: Narratives

Brief Description of the Bridge:

This is one of the few remaining timber trestle spans on the entire rail line. Measuring 145 ft. in length, this bridge was difficult to examine due to overgrowth and precarious site conditions.

History of the Bridge:

Constructed for the St. Louis, Kansas City and Colorado Railroad, this 145' timber trestle appears to be one of the earliest extant bridges in the project study area.

Significance of the Bridge:

Pursuant to the recommendations included in previous Phase I reports for the historic St. Louis, Kansas City & Colorado Railroad/Chicago, Rock Island & Pacific Railroad and the MOA, this timber trestle bridge appears to be eligible for listing in the NRHP under Criteria A and C and meets the 50-year age recommendation for eligibility. It retains historic integrity in order to convey significance.

Sources of Information:

See historic context for bibliography

Section 7: Contact Information

Legal Owner: Calvin Williford, Executive Director, Rock Island Rail Corridor Authority

Street Address 1: 22501 Wood Chapel Road

City: Blue Springs

State: MO

Zip Code: 64015

Prepared By: Cydney Millstein and
Kelsey Lutz

Date: 3/1/2017

Title of Preparer: Principal and assistant

Organization: Architectural and Historical Research, LLC

Street Address 1: 1537 Belleview Ave.

Street Address 2: 1537 Belleview Ave.

City: Kansas City

State: MO

Zip Code: 64108

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Phone: (816) 472-4154



Bridge at MP 281.5. General view of the east façade, looking northwest (above) and a detail of the substructure, looking northwest (below). Date: December 5, 2016



Bridge at MP 281.5. View from deck looking southeast. Date: December 5, 2016

CARRIER Rock Island

VALUATION SECTION 16-mo

12-717

H. M. Stone
A. W. Worley
FOR CARRIER
FOR I. C. C.

tu 2/8+

restle over K. C. S. Ry Tracks

| Item No | No | Height | Kind | |
|---------|----|-------------------|-----------------|----------------------------------|
| 1 | 5 | 1'-0" | Ind pine | |
| 2 | } | 5'-0" | } | |
| 3 | | 12'-0" | | |
| 4 | | 14'-0" | | |
| 5 | | 21'-0" | | |
| 6 | 3 | 23'-0" | oak | |
| 7 | 12 | 20'-0" | Frame 12x12 Ind | |
| 8 | 12 | 20'-0" | " 12x12 Ind. | 1920 7Rm 1632 7Rm 960 " 816 " |
| 8 | | | | 2880 " 2448 " |
| 9 | 3 | 20'-0" | oak | |
| 10 | 5 | 19'-0" | Ind Pine | |
| 11 | } | 17'-0" | } | |
| 12 | | 15'-0" | | |
| 13 | | 8'-0" | | |
| 14 | | 1'-0" | | |

total length of Piles abv. Grd

Oaks 129'
Treated pine 565'

penetration

20'-0" (est) Oaks 20x6x12
In. pine 20x6x12

| | | | |
|---------------------|--------------|------------|------------|
| Total Oaks Piling | 129 + 120 = | 249 length | 212 length |
| Treated Pine " | 565 + 1000 = | 1565 " | 1330 " |
| ells bent 74 8 | | | |
| 20 length 8x16 S.H. | | 3413 7Rm | 2901 7Rm |
| 2 " 12x12 | | 1344 " | 1142 " |



Missouri Bridge Inventory Form

Section 1: Bridge Identification

| | |
|--|--|
| Bridge Number: MP 282.5 | |
| Common Name: Bridge over 67 th Street | Other Name(s): Union Pacific Railroad bridge |

Section 2: Bridge Location

| | |
|-----------------------------|--|
| County(ies): Jackson | City or Town (vicinity): Raytown |
| Legal Location: | Township: 48 N Range: 32 W Section: 9 |
| Route (current): Not active | Route(s) (historic): St. Louis, Kansas City & Colorado Railroad; Chicago, Rock Island & Pacific Railroad |
| Feature Crossed: Roadway | |
| Latitude: 39.00139 | Longitude: -94.46035 |
| Coordinates: | UTM Zone: 15S Northing: 4317945.16 Easting: 373545.33 |

Section 3: Bridge History

| | | |
|--|---|--|
| Is the Bridge listed in the National Register of Historic Places (NRHP)? | <input type="checkbox"/> Yes | <input checked="" type="checkbox"/> No |
| Is the Bridge part of a listed historic district? | <input type="checkbox"/> Yes | <input checked="" type="checkbox"/> No |
| Has the Bridge been determined eligible for the NRHP? | <input type="checkbox"/> Yes | <input checked="" type="checkbox"/> No |
| Is preservation underway? | <input type="checkbox"/> Yes | <input checked="" type="checkbox"/> No |
| Is the bridge endangered? | <input type="checkbox"/> Yes | <input checked="" type="checkbox"/> No |
| By what? | N/A | |
| Has the Bridge been relocated? | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | When? N/A |
| Where from? | N/A | |
| Construction Date: Unknown | Rehabilitation Date(s): Unknown | |
| Builder: Unknown | Fabricator: Unknown | |

| Section 4: Bridge Design | |
|--|--|
| Overall length of bridge: 100 ft. | Overall type of bridge: Deck Plate Girder with I-Beams |
| Number of tracks:: 1 | Manufacturer of track: |
| Skew: | |
| Legal Load Condition: Cooper E 80 | |
| SUBSTRUCTURE | |
| Number of Abutments: 2 | Abutment Material: Concrete |
| Abutment Configuration: | |
| Number of Piers/Bents: 2 | Pier Material: Concrete |
| Pier Configuration: Columns | |
| SUPERSTRUCTURE | |
| Bridge Type: Deck Plate Girder | |
| # of Spans: 1 | |
| Main Span(s) | |
| Main Span Material: Metal | |
| # of Main Spans: 1 | Width of Main Spans: 31 ft. |
| Length of each Main Span: 100 ft. | Total length of all Main Spans: 100 ft |
| Height over deck (<i>*for through truss & through arches</i>): N/A | |
| Deck material: Ballasted | Deck construction method: For Rail |
| Wearing Surface: Ballast | |
| Approach Span(s) | |
| Approach Span Material: Metal | |
| # of Approach Spans: 0 | Width of Approach Spans: N/A |
| Length of each Approach Span: | Total length of all Approach Spans: |

| Section 5: Other Surveys |
|--|
| What other surveys has this bridge been a part of? |
| Bridgehunter.com BH 53266 |

| Section 6: Narratives |
|---|
| Brief Description of the Bridge: |
| This deck plate girder measures 100' in length and 31' wide. |
| History of the Bridge: |
| As 67 th street was extended between 1964 and 1970, this bridge may have replaced an earlier deck plate girder to accommodate for the increase in clearance that was required. |
| Significance of the Bridge: |
| Because this bridge may date outside the period of significance, it is more than likely a non-contributing resource to the line. |
| Sources of Information: |
| See historic context for bibliography |

| Section 7: Contact Information | | | |
|---------------------------------------|---|---------------|--|
| Legal Owner: | Calvin Williford, Executive Director, Rock Island Rail Corridor Authority | | |
| Street Address 1: | 22501 Woods Chapel Road | | |
| City: | Blue Springs | State: | MO |
| | | Zip Code: | 64015 |
| Prepared By: | Cydney Millstein and Kelsey Lutz | Date: | March 2017 |
| Title of Preparer: | Principal and assistant | Organization: | Architectural and Historical Research, LLC |
| Street Address 1: | 1537 Belleview Ave. | | |
| City: | Kansas City | State: | MO |
| | | Zip Code: | 64108 |
| Email: | cydney@ahr-kc.com | Phone: | (816) 472-4154 |



Bridge at MP 282.5. General view of the west façade (above) and a detail of the deck and rail (below). Dates: March 6, 2017 and December 5, 2016.



Missouri Bridge Inventory Form

Section 1: Bridge Identification

| | |
|---------------------------------------|--|
| Bridge Number: MP 282.4 | |
| Common Name: Bridge over Raytown Road | Other Name(s): Union Pacific Railroad bridge |

Section 2: Bridge Location

| | |
|--|---|
| County: Jackson | City or Town (vicinity): Raytown |
| Legal Location: | Township: 49 N Range: 32 W Section: 32 |
| Route (current): Not active | Route(s) (historic): St. Louis, Kansas City & Colorado Railroad/Chicago, Rock Island & Pacific Railroad |
| Feature Crossed: Original designed for a roadway | |
| Latitude: 39.01654 | Longitude: -94.46650 |
| Coordinates: | UTM Zone: 15S Northing: 4319635.05 Easting: 373039.86 |

Section 3: Bridge History

| | | |
|--|---|--|
| Is the Bridge listed in the National Register of Historic Places (NRHP)? | <input type="checkbox"/> Yes | <input checked="" type="checkbox"/> No |
| Is the Bridge part of a listed historic district? | <input type="checkbox"/> Yes | <input checked="" type="checkbox"/> No |
| Has the Bridge been determined eligible for the NRHP? | <input type="checkbox"/> Yes | <input checked="" type="checkbox"/> No |
| Is preservation underway? | <input type="checkbox"/> Yes | <input checked="" type="checkbox"/> No |
| Is the bridge endangered? | <input type="checkbox"/> Yes | <input checked="" type="checkbox"/> No |
| By what? | N/A | |
| Has the Bridge been relocated? | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | When? N/A |
| Where from? | N/A | |
| Construction Date: c. 1903 | Rehabilitation Date(s): N/A | |
| Builder: Gasconade Railway Construction Company, St. Louis; St. Louis, Kansas City & Colorado Railroad | Fabricator: Unknown | |

| Section 4: Bridge Design | | | |
|--|---------|-------------------------------------|----------------------------|
| Overall length of bridge: | 20 ft. | Overall type of bridge: | I-Beam encased in concrete |
| Number of tracks: | 1 | Manufacturer of track: | Illinois Steel Company |
| Skew: | | | |
| Legal Load Condition: | | | |
| SUBSTRUCTURE | | | |
| Number of Abutments: | 2 | Abutment Material: | Concrete |
| Abutment Configuration: slab | | | |
| Number of Piers/Bents: | 0 | Pier Material: | N/A |
| Pier Configuration: N/A | | | |
| SUPERSTRUCTURE | | | |
| Bridge Type: I-Beam encased in concrete | | | |
| # of Spans: 1 | | | |
| Main Span(s) | | | |
| Main Span Material: Concrete | | | |
| # of Main Spans: | 1 | Width of Main Spans: | 10 ft. |
| Length of each Main Span: | 20 ft. | Total length of all Main Spans: | 20 ft. |
| Height over deck (<i>*for through truss & through arches</i>): N/A | | | |
| Deck material: | Ballast | Deck construction method: | |
| Wearing Surface: Ballast | | | |
| Approach Span(s) | | | |
| Approach Span Material: N/A | | | |
| # of Approach Spans: | 0 | Width of Approach Spans: | N/A |
| Length of each Approach Span: | N/A | Total length of all Approach Spans: | N/A |

| Section 5: Other Surveys |
|--|
| What other surveys has this bridge been a part of? |
| Bridgehunter.com BH 53056 |

| Section 6: Narratives | |
|--|--|
| Brief Description of the Bridge: | |
| Originally designed over a roadway, this bridge measures 20' in length, 10' in width and 10' in height. The roadway is no longer in use. | |
| History of the Bridge: | |
| Originally designed c. 1903 for the St. Louis, Kansas City & Colorado Railroad, this I-Beam bridge is now obsolete due to the rerouting of Raytown Road. | |
| Significance of the Bridge: | |
| Pursuant to the recommendations included in previous Phase I reports for the historic St. Louis, Kansas City & Colorado Railroad/Chicago, Rock Island & Pacific Railroad and the MOA, this I-Beam road crossing appears to be eligible for listing in the NRHP under Criteria A and C and meets the 50-year age recommendation for eligibility. It retains historic integrity in order to convey significance. | |
| Sources of Information: | |
| See historic context for bibliography. | |

| Section 7: Contact Information | | | |
|---------------------------------------|---|---------------|--|
| Legal Owner: | Calvin Williford, Executive Director, Rock Island Rail Corridor Authority | | |
| Street Address 1: | 22501 Woods Chapel Road | | |
| City: | Blue Springs | State: | MO |
| | | Zip Code: | 64015 |
| Prepared By: | Cydney Millstein and Kelsey Lutz | Date: | 3/1/2017 |
| Title of Preparer: | Principal and assistant | Organization: | Architectural and Historical Research, LLC |
| Street Address 1: | 1537 Belleview Avenue | | |
| City: | Kansas City | State: | MO |
| | | Zip Code: | 64108 |
| Email: | cydney@ahr-kc.com | Phone: | (816) 472-4154 |



Bridge at MP 282.4, Raytown, MO. General view of the west façade looking east (above); detail of the abutment and I-beam encased in concrete looking southeast (below). Date: December 5, 2016.

FORM NO. 68
 DATE 10-19-15
 CARRIER Rock Island
 VALUATION SECTION 16-Mo
 INTERSTATE COMMERCE COMMISSION
 DIVISION OF VALUATION
 12-717
 H. M. Stone
 At Worley
 PAGE 48
 ASSEMBLY FOR CARRIER
 FOR I.C.C.

u 460
 over head Bridge at Raytown Mo
 Bridge # 2827

2 abutments thus under
 enter Bents Conc. 80 cu yds 10⁰⁰ 800⁰⁰ 570⁰⁰
 Exp 60 cu yds 120 12

ills & Bldg
 80 linft 8x16 9387
 48 " " 12x12 576
 8x16s - 9750^{18M} 44⁰⁰ 429⁰⁰

ests
 16 linft 8x16 171
 55 " 12x12 5460
 12x12 - 8752^{18M} 42⁰⁰ 372⁰⁰

aps
 18 linft 8x16 192
 26 " " 12x12 2716

Original engineering notes from the ICC files, C. R. I. & P. RY, Val Sections. National Archives, College Park, MD. Bridge at MP 282.7. RG No. 134, 570, Box 683.



Missouri Bridge/Culvert Inventory Form

Section 1: Bridge Identification

| | |
|----------------------------------|---|
| Bridge Number: MP 284.4 | |
| Common Name: Culvert at MP 284.4 | Other Name(s): Union Pacific Railroad culvert |

Section 2: Bridge Location

| | |
|--|--|
| County: Jackson | City or Town (vicinity): Kansas City |
| Legal Location: | Township: 49N Range: 32W Section: 29 |
| Route (current): Not active | Route(s) (historic): St. Louis, Kansas City & Colorado Railroad; Chicago, Rock Island & Pacific Railroad |
| Feature Crossed: Runoff from Round Grove Creek | |
| Latitude: 39.0309445 | Longitude: -94.46640833 |
| Coordinates: | UTM Zone: 15 Northing: 4321233.52 Easting: 373073.56 |

Section 3: Bridge History

| | | |
|--|---|--|
| Is the Bridge listed in the National Register of Historic Places (NRHP)? | <input type="checkbox"/> Yes | <input checked="" type="checkbox"/> No |
| Is the Bridge part of a listed historic district? | <input type="checkbox"/> Yes | <input checked="" type="checkbox"/> No |
| Has the Bridge been determined eligible for the NRHP? | <input type="checkbox"/> Yes | <input checked="" type="checkbox"/> No |
| Is preservation underway? | <input type="checkbox"/> Yes | <input checked="" type="checkbox"/> No |
| Is the bridge endangered? | <input type="checkbox"/> Yes | <input checked="" type="checkbox"/> No |
| By what? | N/A | |
| Has the Bridge been relocated? | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | When? N/A |
| Where from? | N/A | |
| Construction Date: c. 1903-1904 | Modification Date: N/A | |
| Builder: The Gasconade Railway Construction Company, St. Louis | Fabricator: N/A | |

| Section 4: Bridge Design | | | |
|--|-----------------------|-------------------------------------|-----------------------|
| Overall length of bridge: | 170 ft. | Overall type of bridge: | Concrete Arch Culvert |
| Number of tracks: | 1 | Manufacturer of track: | |
| Skew: | 0 | | |
| Legal Load Condition: | Cooper E 40 | | |
| SUBSTRUCTURE | | | |
| Number of Abutments: | 0 | Abutment Material: | N/A |
| Abutment Configuration: | N/A | | |
| Number of Piers/Bents: | 0 | Pier Material: | N/A |
| Pier Configuration: | N/A | | |
| SUPERSTRUCTURE | | | |
| Bridge Type: | Concrete Arch Culvert | | |
| # of Spans: | 1 | | |
| Main Span(s) | | | |
| Main Span Material: | Concrete | | |
| # of Main Spans: | 1 | Width of Main Spans: | 16 ft. |
| Length of each Main Span: | 170 ft. | Total length of all Main Spans: | 170 ft. |
| Height over deck (<i>*for through truss & through arches</i>): | N/A | | |
| Deck material: | Ballast | Deck construction method: | For Rail |
| Wearing Surface: | Ballast | | |
| Approach Span(s) | | | |
| Approach Span Material: | None | | |
| # of Approach Spans: | 0 | Width of Approach Spans: | N/A |
| Length of each Approach Span: | N/A | Total length of all Approach Spans: | N/A |

| Section 5: Other Surveys |
|--|
| What other surveys has this bridge been a part of? |
| None |

| |
|---|
| Section 6: Narratives: |
| Brief Description of the Bridge: |
| This concrete culvert measures 170' in length and 16' wide. |
| History of the Bridge: |
| Using J. P. Frizzel's actual measurements for drainage areas, the design for this 16' wide concrete culvert was taken from standardized plans for the St. Louis, Kansas City & Colorado Railroad. Along the entire line, approximately 500 culverts and cattle passes were constructed varying from 2 to 36 feet in width. |
| Significance of the Bridge: |
| Pursuant to the recommendations included in previous Phase I reports for the historic St. Louis, Kansas City & Colorado Railroad/Chicago, Rock Island & Pacific Railroad and the MOA, this concrete arch culvert appears to be eligible for listing in the NRHP under Criteria A and C and meets the 50-year age recommendation for eligibility. It retains historic integrity in order to convey significance. |
| Sources of Information: |
| See historic narrative for bibliography. |

| | | | |
|---------------------------------------|---|-------------------|--|
| Section 7: Contact Information | | | |
| Legal Owner: | Calvin Williford, Executive Director, Rock Island Rail Corridor Authority | | |
| Street Address 1: | 22501 Woods Chapel Road | | |
| City: | Blue Springs | State: | MO |
| | | Zip Code: | 64051 |
| Prepared By: | Cydne Millstein and Kelsey Lutz | Date: | 3/1/2017 |
| Title of Preparer: | Principal and assistant | Organization: | Architectural and Historical Research, LLC |
| Street Address 1: | 1537 Belleview Ave. | Street Address 2: | 1537 Belleview Ave. |
| City: | Kansas City | State: | MO |
| | | Zip Code: | 64108 |
| Email: | cydney@ahr-kc.com | Phone: | (816) 472-4154 |



Culvert at MP 284.4, Kansas City. General views of the west façade, looking northeast.
Date: December 5, 2016





Missouri Bridge Inventory Form

Section 1: Bridge Identification

| | |
|--|--|
| Bridge Number: MP 285.0 | |
| Common Name: Bridge over 47 th Street | Other Name(s): Union Pacific Railroad bridge |

Section 2: Bridge Location

| | |
|--|--|
| County(ies): Jackson | City or Town (vicinity): Kansas City |
| Legal Location: | Township: 49 N Range: 32 W Section: 29 |
| Route (current): Not active | Route(s) (historic): St. Louis, Kansas City & Colorado Railroad; Chicago, Rock Island & Pacific Railroad |
| Feature Crossed: Roadway (47 th Street) | |
| Latitude: 39.03594 | Longitude: -94.47072 |
| Coordinates: | UTM Zone: 15S Northing: 4321793.94 Easting: 372709.31 |

Section 3: Bridge History

| | | |
|--|---|--|
| Is the Bridge listed in the National Register of Historic Places (NRHP)? | <input type="checkbox"/> Yes | <input checked="" type="checkbox"/> No |
| Is the Bridge part of a listed historic district? | <input type="checkbox"/> Yes | <input checked="" type="checkbox"/> No |
| Has the Bridge been determined eligible for the NRHP? | <input type="checkbox"/> Yes | <input checked="" type="checkbox"/> No |
| Is preservation underway? | <input type="checkbox"/> Yes | <input checked="" type="checkbox"/> No |
| Is the bridge endangered? | <input type="checkbox"/> Yes | <input checked="" type="checkbox"/> No |
| By what? | N/A | |
| Has the Bridge been relocated? | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | When? N/A |
| Where from? | N/A | |
| Construction Date: c. 1903 | Modification Date: N/A | |
| Builder: Stubbs, Flick, Johnson Construction Company, Kansas City | Fabricator: American Bridge Company, New York | |

| Section 4: Bridge Design | | | |
|--|-------------------|-------------------------------------|---|
| Overall length of bridge: | 43 ft. | Overall type of bridge: | Deck Plate Girder |
| Number of tracks: | 1 | Manufacturer of track: | Illinois Steel Company |
| Skew: | 0 | | |
| Legal Load Condition: | Cooper E 80 | | |
| SUBSTRUCTURE | | | |
| Number of Abutments: | 2 | Abutment Material: | Concrete |
| Abutment Configuration: | T | | |
| Number of Piers/Bents: | 2 | Pier Material: | Concrete |
| Pier Configuration: | T | | |
| SUPERSTRUCTURE | | | |
| Bridge Type: | Deck Plate Girder | | |
| # of Spans: | 1 | | |
| Main Span(s) | | | |
| Main Span Material: | Metal | | |
| # of Main Spans: | 1 | Width of Main Spans: | Click here to enter text. |
| Length of each Main Span: | 43 ft. | Total length of all Main Spans: | 43 ft. |
| Height over deck (<i>*for through truss & through arches</i>): | N/A | | |
| Deck material: | Ballast | Deck construction method: | For Rail |
| Wearing Surface: | Ballast | | |
| Approach Span(s) | | | |
| Approach Span Material: | None | | |
| # of Approach Spans: | 0 | Width of Approach Spans: | N/A |
| Length of each Approach Span: | N/A | Total length of all Approach Spans: | N/A |

| Section 5: Other Surveys |
|--|
| What other surveys has this bridge been a part of? |
| Bridgehunter.com BH 48932 |

| Section 6: Narratives |
|---|
| Brief Description of the Bridge: |
| This deck plate girder bridge measures 43' in length and features concrete piers and abutments. |
| History of the Bridge: |
| Stubbs, Flick and Johnson Construction Company, Kansas City constructed the bridge manufactured by American Bridge Company, New York. Construction date c. 1903 for the St. Louis, Kansas City & Colorado Railroad. |
| Significance of the Bridge: |
| Pursuant to the recommendations included in previous Phase I reports for the historic St. Louis, Kansas City & Colorado Railroad/Chicago, Rock Island & Pacific Railroad and the MOA, this deck plate girder appears to be eligible for listing in the NRHP under Criteria A and C and meets the 50-year age recommendation for eligibility. It retains historic integrity in order to convey significance. |
| Sources of Information: |
| See historic context for bibliography |

| Section 7: Contact Information | | | |
|---------------------------------------|--|---------------|--|
| Legal Owner: | Calvin Williford, Executive Director, Rock Island Corridor Authority | | |
| Street Address 1: | 22501 Woods Chapel Road : | | |
| City: | Blue Springs | State: | MO Zip Code: 64051 |
| Prepared By: | Cydne Millstein and Kelsey Lutz | Date: | 3/1/2017 |
| Title of Preparer: | Principal and assistant | Organization: | Architectural & Historical Research, LLC |
| Street Address 1: | 1537 Belleview Avenue | | |
| City: | Kansas City | State: | MO Zip Code: 64108 |
| Email: | cydney@ahr-kc.com | Phone: | (816) 472-4154 |



Bridge at MP 285.0, Raytown, MO. General view of the west façade, facing east (above); view of the deck and piers, facing north (below). Date: February 7, 2017





Missouri Bridge Inventory Form

Section 1: Bridge Identification

| | | | |
|----------------|-------------------------------|----------------|-------------------------------|
| Bridge Number: | MP 285.2 | | |
| Common Name: | Bridge over Blue Ridge Cutoff | Other Name(s): | Union Pacific Railroad bridge |

Section 2: Bridge Location

| | | | |
|------------------|-----------------------------|--------------------------|---|
| County: | Jackson | City or Town (vicinity): | Kansas City |
| Legal Location: | Township: 49 N | Range: 32 W | Section: 29 |
| Route (current): | Not active | Route(s) (historic): | St. Louis, Kansas City & Colorado Railroad; Chicago, Rock Island & Pacific Railroad |
| Feature Crossed: | Roadway (Blue Ridge Cutoff) | | |
| Latitude: | 39.03997 | Longitude: | -94.47609 |
| Coordinates: | UTM Zone: 15S | Northing: 4322248.72 | Easting: 372251.77 |

Section 3: Bridge History

| | | |
|--|---|---|
| Is the Bridge listed in the National Register of Historic Places (NRHP)? | <input type="checkbox"/> Yes | <input checked="" type="checkbox"/> No |
| Is the Bridge part of a listed historic district? | <input type="checkbox"/> Yes | <input checked="" type="checkbox"/> No |
| Has the Bridge been determined eligible for the NRHP? | <input type="checkbox"/> Yes | <input checked="" type="checkbox"/> No |
| Is preservation underway? | <input type="checkbox"/> Yes | <input checked="" type="checkbox"/> No |
| Is the bridge endangered? | <input type="checkbox"/> Yes | <input checked="" type="checkbox"/> No |
| By what? | N/A | |
| Has the Bridge been relocated? | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | When? N/A |
| Where from? | N/A | |
| Construction Date: | c. 1903 | Modification Date(s): N/A |
| Builder: | Stubbs, Flick, Johnson Construction Company, Kansas City | Fabricator: American Bridge Company, New York |

| Section 4: Bridge Design | | | |
|--|----------------------|-------------------------------------|------------------------|
| Overall length of bridge: | 96 ft. | Overall type of bridge: | Through Plate Girder |
| Number of tracks: | 1 | Manufacturer of track: | Illinois Steel Company |
| Skew: | | | |
| Legal Load Condition: | Cooper E 80 | | |
| SUBSTRUCTURE | | | |
| Number of Abutments: | 2 | Abutment Material: | Concrete |
| Abutment Configuration: T | | | |
| Number of Piers/Bents: | 4 | Pier Material: | Concrete |
| Pier Configuration: Piers | | | |
| SUPERSTRUCTURE | | | |
| Bridge Type: | Through Plate Girder | | |
| # of Spans: | 1 | | |
| Main Span(s) | | | |
| Main Span Material: | Metal | | |
| # of Main Spans: | 1 | Width of Main Spans: | Unknown |
| Length of each Main Span: | 96 ft. | Total length of all Main Spans: | 96 ft. |
| Height over deck (<i>*for through truss & through arches</i>): | | | |
| Deck material: | Ballast | Deck construction method: | For Rail |
| Wearing Surface: Ballast | | | |
| Approach Span(s) | | | |
| Approach Span Material: | N/A | | |
| # of Approach Spans: | 0 | Width of Approach Spans: | N/A |
| Length of each Approach Span: | N/A | Total length of all Approach Spans: | N/A |

| Section 5: Other Surveys |
|--|
| What other surveys has this bridge been a part of? |
| Bridgehunter.com BH 36481 |

| |
|--|
| Section 6: Narratives: |
| Brief Description of the Bridge: |
| This through plate girder bridge measure 96' in length and features concrete piers and abutments. |
| History of the Bridge: |
| Constructed c. 1903 by Stubbs, Flick and Johnson Construction Company, Kansas City and manufactured by the American Bridge Company, this through plate girder is one of two of its type on the line west of Versailles, MO. |
| Significance of the Bridge: |
| Pursuant to the recommendations included in previous Phase I reports for the historic St. Louis, Kansas City & Colorado Railroad/Chicago, Rock Island & Pacific Railroad and the MOA, this through plate girder appears to be eligible for listing in the NRHP under Criteria A and C and meets the 50-year age recommendation for eligibility. It retains historic integrity in order to convey significance. |
| Sources of Information: |
| See historic context for bibliography |

| | | | |
|---------------------------------------|---|---------------|--|
| Section 7: Contact Information | | | |
| Legal Owner: | Calvin Williford, Executive Director, Rock Island Rail Corridor Authority | | |
| Street Address 1: | 22501 Woods Chapel Road | | |
| City: | Blue Springs | State: | MO |
| | | Zip Code: | 64051 |
| Prepared By: | Cydney Millstein and Kelsey Lutz | Date: | 3/1/2017 |
| Title of Preparer: | Principal and assistant | Organization: | Architectural & Historical Research, LLC |
| Street Address 1: | 1537 Belleview Ave. | | |
| City: | Kansas City | State: | MO |
| | | Zip Code: | 64108 |
| Email: | cydney@ahr-kc.com | Phone: | (816) 472-4154 |



Bridge at MP 285.2, Raytown, MO. General view of the south façade; view facing north (above);
general view of the south façade; view facing northeast (below). Date: February 7, 2017





Bridge at MP 285.2, Raytown, MO. General view of the deck; view facing west (above); general view of the tracks and deck; view facing east (below).
Date: February 7, 2017.





Missouri Bridge Inventory Form

Section 1: Bridge Identification

| | |
|--|--|
| Bridge Number: MP 285.5 | |
| Common Name: Bridge over Sportsman Drive | Other Name(s): Union Pacific Railroad bridge |

Section 2: Bridge Location

| | |
|--|--|
| County: Jackson | City or Town (vicinity): Kansas City |
| Legal Location: | Township: 49N Range: 32W Section: 30 |
| Route (current): Not active | Route(s) (historic): St. Louis, Kansas City & Colorado Railroad; Chicago, Rock Island & Pacific Railroad |
| Feature Crossed: Roadway (Sportsman Drive) | |
| Latitude: 39.042919 | Longitude: -94.480667 |
| Coordinates: | UTM Zone: 15S Northing: 4322582.44 Easting: 371860.96 |

Section 3: Bridge History

| | | |
|--|---|--|
| Is the Bridge listed in the National Register of Historic Places (NRHP)? | <input type="checkbox"/> Yes | <input checked="" type="checkbox"/> No |
| Is the Bridge part of a listed historic district? | <input type="checkbox"/> Yes | <input checked="" type="checkbox"/> No |
| Has the Bridge been determined eligible for the NRHP? | <input type="checkbox"/> Yes | <input checked="" type="checkbox"/> No |
| Is preservation underway? | <input type="checkbox"/> Yes | <input checked="" type="checkbox"/> No |
| Is the bridge endangered? | <input type="checkbox"/> Yes | <input checked="" type="checkbox"/> No |
| By what? | N/A | |
| Has the Bridge been relocated? | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | When? N/A |
| Where from? | N/A | |
| Construction Date: Unknown | Modification Date: N/A | |
| Builder: Unknown | Fabricator: Unknown or N/A | |

| Section 4: Bridge Design | | | |
|--|------------------------------------|-------------------------------------|------------------------------------|
| Overall length of bridge: | 148 ft. | Overall type of bridge: | Steel Box Girder with sloping webs |
| Number of tracks: | 1 | Manufacturer of track: | |
| Skew: | 0 | | |
| Legal Load Condition: | Cooper E 72 | | |
| SUBSTRUCTURE | | | |
| Number of Abutments: | 2 | Abutment Material: | Concrete |
| Abutment Configuration: | T | | |
| Number of Piers/Bents: | | Pier Material: | |
| Pier Configuration: | | | |
| SUPERSTRUCTURE | | | |
| Bridge Type: | Steel Box Girder with sloping webs | | |
| # of Spans: | 1 | | |
| Main Span(s) | | | |
| Main Span Material: | | | |
| # of Main Spans: | 1 | Width of Main Spans: | |
| Length of each Main Span: | 148 ft. | Total length of all Main Spans: | 148 ft. |
| Height over deck (<i>*for through truss & through arches</i>): | N/A | | |
| Deck material: | Ballast | Deck construction method: | For Rail |
| Wearing Surface: | Ballast | | |
| Approach Span(s) | | | |
| Approach Span Material: | N/A | | |
| # of Approach Spans: | 0 | Width of Approach Spans: | N/A |
| Length of each Approach Span: | N/A | Total length of all Approach Spans: | N/A |

| Section 5: Other Surveys |
|--|
| What other surveys has this bridge been a part of? |
| None |

Section 6: Narratives

Brief Description of the Bridge:

This steel box girder bridge with sloping webs measures 148' in length.

History of the Bridge:

It appears that this contemporary bridge replaced an historic span.

Significance of the Bridge:

Due to its age, this bridge is considered a non-contributing resource to the historic railroad line.

Sources of Information:

See historic context for bibliography

Section 7: Contact Information

Legal Owner: Calvin Williford, Executive Director, Rock Island Rail Corridor Authority

Street Address 1: 22501 Woods Chapel Road

City: Blue Springs

State: MO

Zip Code: 64015

Prepared By: Cydney Millstein and
Kelsey Lutz

Date: 3/1/2017

Title of Preparer: Principal and assistant

Organization: Architectural & Historical Research, LLC

Street Address 1: 1537 Belleview Ave.

City: Kansas City

State: MO

Zip Code: 64108

Email: cydney@ahr-kc.com

Phone: (816) 472-4154



Bridge No. 285.5, Kansas City, MO. General view of the east façade, facing northwest (above); View of the deck facing north (below). Date: February 7, 2017



Missouri Bridge/Culvert Inventory Form

Section 1: Bridge Identification

| | |
|--|---|
| Bridge Number: MP 286.2 | |
| Common Name: Concrete Arch Culvert with Flume and Weir at MP 286.2 | Other Name(s): Union Pacific Railroad concrete arch culvert with flume and weir |

Section 2: Bridge Location

| | | | |
|-----------------------------|---------------|--|--------------------|
| County(ies): Jackson | | City or Town (vicinity): Kansas City | |
| Legal Location: | Township: 49N | Range: 32W | Section: 19 |
| Route (current): Not active | | Route(s) (historic): St. Louis, Kansas City & Colorado Railroad; Chicago, Rock Island & Pacific Railroad | |
| Feature Crossed: Drainage | | | |
| Latitude: 39.04847783 | | Longitude: -94.49105 | |
| Coordinates: | UTM Zone: 15S | Northing: 4323214.04 | Easting: 370972.48 |

Section 3: Bridge History

| | | | |
|--|--|------------------------------|--|
| Is the Bridge listed in the National Register of Historic Places (NRHP)? | | <input type="checkbox"/> Yes | <input checked="" type="checkbox"/> No |
| Is the Bridge part of a listed historic district? | | <input type="checkbox"/> Yes | <input checked="" type="checkbox"/> No |
| Has the Bridge been determined eligible for the NRHP? | | <input type="checkbox"/> Yes | <input checked="" type="checkbox"/> No |
| Is preservation underway? | | <input type="checkbox"/> Yes | <input checked="" type="checkbox"/> No |
| Is the bridge endangered? | | <input type="checkbox"/> Yes | <input checked="" type="checkbox"/> No |
| By what? | | N/A | |
| Has the Bridge been relocated? | | <input type="checkbox"/> Yes | <input checked="" type="checkbox"/> No |
| When? | | N/A | |
| Where from? | | N/A | |
| Construction Date: c. 1903-1904 | | Modification Date: N/A | |
| Builder: The Gasconade Railway Construction Company, St. Louis | | Fabricator: N/A | |

| Section 4: Bridge Design | | | |
|--|---|-------------------------------------|---|
| Overall length of bridge: | 128 ft. | Overall type of bridge: | Concrete Arch Culvert with Flume and Weir |
| Number of tracks: | 1 | Manufacturer of track: | Illinois Steel Company |
| Skew: | 0 | | |
| Legal Load Condition: | Cooper E 40 | | |
| <u>SUBSTRUCTURE</u> | | | |
| Number of Abutments: | 0 | Abutment Material: | N/A |
| Abutment Configuration: | N/A | | |
| Number of Piers/Bents: | 0 | Pier Material: | N/A |
| Pier Configuration: | N/A | | |
| <u>SUPERSTRUCTURE</u> | | | |
| Bridge Type: | Concrete Arch Culvert with Flume and Weir | | |
| # of Spans: | 1 | | |
| Main Span(s) | | | |
| Main Span Material: | Concrete | | |
| # of Main Spans: | 1 | Width of Main Spans: | 7 ft. |
| Length of each Main Span: | 128 ft. | Total length of all Main Spans: | 128 ft. |
| Height over deck (<i>*for through truss & through arches</i>): | N/A | | |
| Deck material: | Ballast | Deck construction method: | For Rail |
| Wearing Surface: | Ballast | | |
| Approach Span(s) | | | |
| Approach Span Material: | None | | |
| # of Approach Spans: | 0 | Width of Approach Spans: | N/A |
| Length of each Approach Span: | N/A | Total length of all Approach Spans: | N/A |

| Section 5: Other Surveys |
|--|
| What other surveys has this bridge been a part of? |
| None |

Section 6: Narratives**Brief Description of the Bridge:**

This concrete culvert, with flume and weir, measures 128' in length and 7' wide.

History of the Bridge:

Using J. P. Frizell's actual measurements for drainage areas, the design for this 7' wide concrete culvert with flume and weir was taken from standardized plans for the St. Louis, Kansas City & Colorado Railroad. Along the entire line, approximately 500 culverts and cattle passes were constructed varying from 2 to 36 feet in width.

Significance of the Bridge:

Pursuant to the recommendations included in previous Phase I reports for the historic St. Louis, Kansas City & Colorado Railroad/Chicago, Rock Island & Pacific Railroad and the MOA, this concrete culvert (with flume and weir) appears to be eligible for listing in the NRHP under Criteria A and C and meets the 50-year age recommendation for eligibility. It retains historic integrity in order to convey significance.

Sources of Information:

See historic context for bibliography.

Section 7: Contact Information

Legal Owner: Calvin Williford, Executive Director, Rock Island Rail Corridor Authority

Street Address 1: 22501 Woods Chapel Road

City: Blue Springs

State: MO

Zip Code: 64051

Prepared By: Cydney Millstein and Kelsey Lutz

Date: 3/1/2017

Title of Preparer: Principal and assistant

Organization: Architectural & Historical Research, LLC

Street Address 1: 1537 Belleview Ave.

City: Kansas City

State: MO

Zip Code: 64108

Email: cydney@ahr-kc.com

Phone: (816) 472-4154



Culvert and Flume at MP 286.2, Kansas City. General view facing east, southeast (above); view from rail corridor facing southwest (below). Date: February 7, 2017



Weir at MP 286.2, Kansas City. General view facing south. Date: February 7, 2017



Missouri Bridge/Culvert Inventory Form

Section 1: Bridge Identification

| | |
|----------------------------------|---|
| Bridge Number: MP 286.5 | |
| Common Name: Culvert at MP 286.5 | Other Name(s): Union Pacific Railroad culvert |

Section 2: Bridge Location

| | | | |
|-----------------------------|---------------|--|--------------------|
| County: Jackson | | City or Town (vicinity): Kansas City | |
| Legal Location: | Township: 49N | Range: 32W | Section: 19 |
| Route (current): Not active | | Route(s) (historic): St. Louis, Kansas City & Colorado Railroad; Chicago, Rock Island & Pacific Railroad | |
| Feature Crossed: Drainage | | | |
| Latitude: 39.05101383 | | Longitude: -94.49531667 | |
| Coordinates: | UTM Zone: 15S | Northing: 4323501.55 | Easting: 370607.87 |

Section 3: Bridge History

| | | | |
|--|--|------------------------------|--|
| Is the Bridge listed in the National Register of Historic Places (NRHP)? | | <input type="checkbox"/> Yes | <input checked="" type="checkbox"/> No |
| Is the Bridge part of a listed historic district? | | <input type="checkbox"/> Yes | <input checked="" type="checkbox"/> No |
| Has the Bridge been determined eligible for the NRHP? | | <input type="checkbox"/> Yes | <input checked="" type="checkbox"/> No |
| Is preservation underway? | | <input type="checkbox"/> Yes | <input checked="" type="checkbox"/> No |
| Is the bridge endangered? | | <input type="checkbox"/> Yes | <input checked="" type="checkbox"/> No |
| By what? | | N/A | |
| Has the Bridge been relocated? | | <input type="checkbox"/> Yes | <input checked="" type="checkbox"/> No |
| When? | | N/A | |
| Where from? | | N/A | |
| Construction Date: c. 1903-1904 | | Modification Date(s): N/A | |
| Builder: The Gasconade Railway Construction Company, St. Louis | | Fabricator: N/A | |

| Section 4: Bridge Design | | | |
|--|-----------------------|-------------------------------------|------------------------|
| Overall length of bridge: | 29 ft. | Overall type of bridge: | Concrete Arch Culvert |
| Number of tracks: | 1 | Manufacturer of track: | Illinois Steel Company |
| Skew: | 0 | | |
| Legal Load Condition: | Cooper E 40 | | |
| SUBSTRUCTURE | | | |
| Number of Abutments: | 0 | Abutment Material: | N/A |
| Abutment Configuration: | N/A | | |
| Number of Piers/Bents: | 0 | Pier Material: | N/A |
| Pier Configuration: | N/A | | |
| SUPERSTRUCTURE | | | |
| Bridge Type: | Concrete Arch Culvert | | |
| # of Spans: | 1 | | |
| Main Span(s) | | | |
| Main Span Material: | Concrete | | |
| # of Main Spans: | 1 | Width of Main Spans: | 7 ft. |
| Length of each Main Span: | 29 ft. | Total length of all Main Spans: | 29 ft. |
| Height over deck (<i>*for through truss & through arches</i>): | N/A | | |
| Deck material: | Ballast | Deck construction method: | For Rail |
| Wearing Surface: | Ballast | | |
| Approach Span(s) | | | |
| Approach Span Material: | None | | |
| # of Approach Spans: | 0 | Width of Approach Spans: | N/A |
| Length of each Approach Span: | N/A | Total length of all Approach Spans: | N/A |

| Section 5: Other Surveys |
|--|
| What other surveys has this bridge been a part of? |
| None |

| Section 6: Narratives |
|---|
| Brief Description of the Bridge: |
| This concrete culvert measures 29' in length and 7' wide. |
| History of the Bridge: |
| Using J. P. Frizzel's actual measurements for drainage areas, the design for this 7' wide concrete culvert was taken from standardized plans for the St. Louis, Kansas City & Colorado Railroad. Along the entire line, approximately 500 culverts and cattle passes were constructed varying from 2 to 36 feet in width. |
| Significance of the Bridge with Justification: |
| Pursuant to the recommendations included in previous Phase I reports for the historic St. Louis, Kansas City & Colorado Railroad/Chicago, Rock Island & Pacific Railroad and the MOA, this concrete arch culvert appears to be eligible for listing in the NRHP under Criteria A and C and meets the 50-year age recommendation for eligibility. It retains historic integrity in order to convey significance. |
| Sources of Information: |
| See historic context for bibliography. |

| Section 7: Contact Information | | | |
|---------------------------------------|---|---------------|--|
| Legal Owner: | Calvin Williford, Executive Director, Rock Island Rail Corridor Authority | | |
| Street Address 1: | 22501 Woods Chapel Road | | |
| City: | Blue Springs | State: | MO |
| | | Zip Code: | 64051 |
| Prepared By: | Cydney Millstein and Kelsey Lutz | Date: | 3/1/2017 |
| Title of Preparer: | Principal and assistant | Organization: | Architectural & Historical Research, LLC |
| Street Address 1: | 1537 Belleview Ave. | | |
| City: | Kansas City | State: | MO |
| | | Zip Code: | 64108 |
| Email: | cydney@ahr-kc.com | Phone: | (816) 472-4154 |



Culvert at MP 286.5, Kansas City. General view of west façade looking southeast. Date: February 7, 2017



Missouri Bridge Inventory Form

Section 1: Bridge Identification

| | |
|---|--|
| Bridge Number: MP 287.0 | |
| Common Name: Bridge over East Stadium Drive | Other Name(s): Union Pacific Railroad bridge |

Section 2: Bridge Location

| | | | |
|---|--|--------------------------------------|--------------------|
| County(ies): Jackson | | City or Town (vicinity): Kansas City | |
| Legal Location: | Township: 49N | Range: 33W | Section: 24 |
| Route (current): Not active | Route(s) (historic): St. Louis, Kansas City & Colorado Railroad; Chicago, Rock Island & Pacific Railroad | | |
| Feature Crossed: Roadway (East Stadium Drive) | | | |
| Latitude: 39.05721 | | Longitude: -94.50083 | |
| Coordinates: | UTM Zone: 15S | Northing: 4324197.06 | Easting: 370142.13 |

Section 3: Bridge History

| | | |
|--|------------------------------|--|
| Is the Bridge listed in the National Register of Historic Places (NRHP)? | <input type="checkbox"/> Yes | <input checked="" type="checkbox"/> No |
| Is the Bridge part of a listed historic district? | <input type="checkbox"/> Yes | <input checked="" type="checkbox"/> No |
| Has the Bridge been determined eligible for the NRHP? | <input type="checkbox"/> Yes | <input checked="" type="checkbox"/> No |
| Is preservation underway? | <input type="checkbox"/> Yes | <input checked="" type="checkbox"/> No |
| Is the bridge endangered? | <input type="checkbox"/> Yes | <input checked="" type="checkbox"/> No |
| By what? | N/A | |
| Has the Bridge been relocated? | <input type="checkbox"/> Yes | <input checked="" type="checkbox"/> No |
| When? | N/A | |
| Where from? | N/A | |
| Construction Date: 1903 | Modification Date(s): 1904 | |
| Builder: Gasconade Railway Construction Company, St. Louis | Fabricator: N/A | |

| Section 4: Bridge Design | | | |
|--|-------------------------------|-------------------------------------|-------------------------------|
| Overall length of bridge: | 24 ft. | Overall type of bridge: | Concrete Slab and I-Beam/Arch |
| Number of tracks: | 1 | Manufacturer of track: | Illinois Steel Company |
| Skew: | | | |
| Legal Load Condition: | Cooper E 40 | | |
| SUBSTRUCTURE | | | |
| Number of Abutments: | 2 | Abutment Material: | Concrete |
| Abutment Configuration: Wing Wall | | | |
| Number of Piers/Bents: | 0 | Pier Material: | N/A |
| Pier Configuration: N/A | | | |
| SUPERSTRUCTURE | | | |
| Bridge Type: | Concrete Slab and I-beam/Arch | | |
| # of Spans: | 1 | | |
| Main Span(s) | | | |
| Main Span Material: | Concrete | | |
| # of Main Spans: | 1 | Width of Main Spans: | ? ft. |
| Length of each Main Span: | 24 ft. | Total length of all Main Spans: | 24 ft. |
| Height over deck (<i>*for through truss & through arches</i>): N/A | | | |
| Deck material: | Ballast | Deck construction method: | For Rail |
| Wearing Surface: Ballast | | | |
| Approach Span(s) | | | |
| Approach Span Material: N/A | | | |
| # of Approach Spans: | 0 | Width of Approach Spans: | N/A |
| Length of each Approach Span: | N/A | Total length of all Approach Spans: | N/A |
| Section 5: Other Surveys | | | |
| What other surveys has this bridge been a part of? | | | |
| Bridgehunter.com BH 43766 | | | |

Section 6: Narratives

Brief Description of the Bridge:

This concrete and I-beam span with an overhead arch (modification) measures 24' long. A concrete monolith slab measuring 22" deep contains eight, 20", 65lb. I-Beams, together with corrugated steel reinforcing bars. The top of the monolith is troughed to a depth of 9" and a layer of sand 3" deep is spread over the concrete to act as a cushion. Ties are laid on the sand and filled with rock ballast. The elliptical arch was added in 1904 to accommodate an increase of grade by eight feet at a railroad crossing in the immediate area. At this time, an arch was built up over the flat span and the filling put in above the arch without disturbing the original span. Wing walls were built up and cut to accommodate the increased height of the bank.

History of the Bridge:

Originally constructed for the St. Louis, Kansas City & Colorado Railroad, this concrete and I-beam span was modified by the Chicago, Rock Island & Pacific Railroad in 1904 when the line was further developed and expanded west to Kansas City.

Significance of the Bridge with Justification:

Pursuant to the recommendations included in previous Phase I reports for the historic St. Louis, Kansas City & Colorado Railroad/Chicago, Rock Island & Pacific Railroad and the MOA, this concrete and I-Beam span appears to be eligible for listing in the NRHP under Criteria A and C and meets the 50-year age recommendation for eligibility. It retains historic integrity in order to convey significance.

Sources of Information:

See historic context report for bibliography

Section 7: Contact Information

Legal Owner: Calvin Williford, Executive Director, Rock Island Rail Corridor Authority

Street Address 1: 22501 Wood Chapel Rd.

City: Blue Springs

State: MO

Zip Code: 64015

Prepared By: Cydney Millstein and
Kelsey Lutz

Date: 3/1/2017

Title of Preparer: Principal and assistant

Organization: Architectural & Historical Research, LLC.

Street Address 1: 1537 Belleview Ave.

Street Address 2:

City: Kansas City

State: MO

Zip Code: 64108

Email: cydney@ahr-kc.com

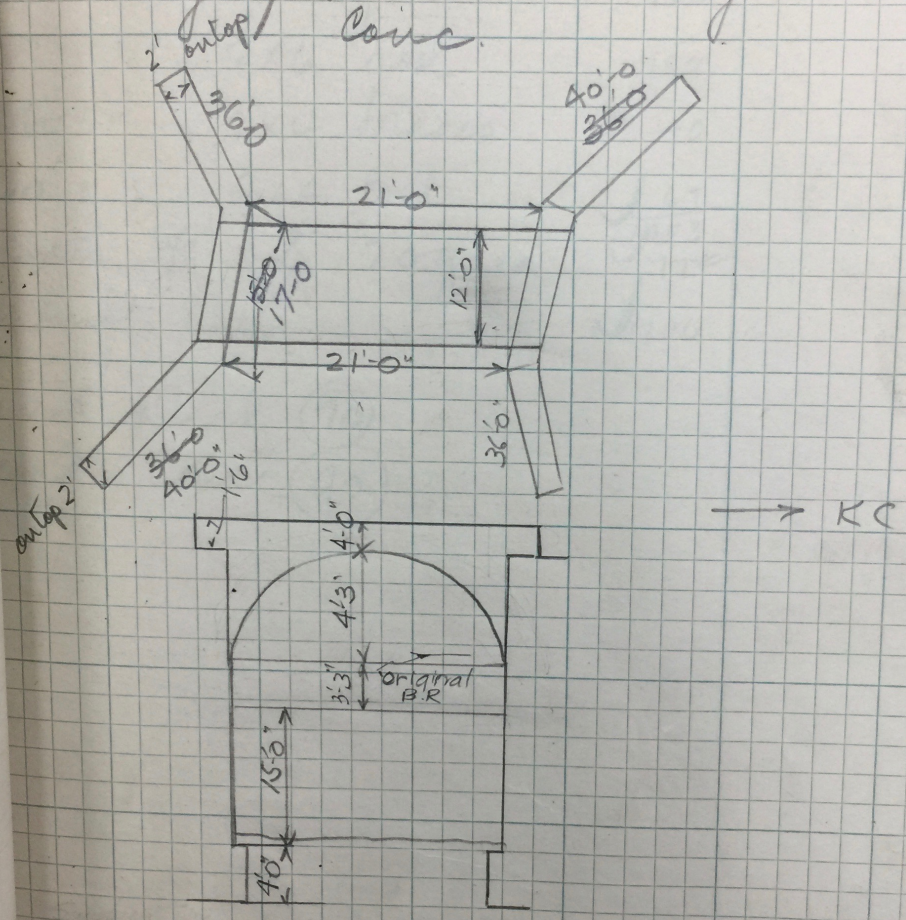
Phone: (816) 472-4154



Bridge at MP 287.0, Kansas City, MO. General view of the east façade looking west (above); general view of the west façade looking east (below). Date: February 7, 2017



Sta 227
 Sub way for Road way underneath
 Conc.



- conc 5'0" dg for fly
- 2 loose Rock 2'-6" dep ✓ 200 Cu yds
- 2 Earth dry 2'-6" " ✓ 200 " "
- concrete ✓ 650 " "
- Reinforcing steel ✓ 1000 lbs
- F-beam ✓ 16800 " "

Original engineering notes from the ICC files, C. R. I. & P. RY, Val Sections. National Archives, College Park, MD. Bridge at MP 287.0. RG No. 134, 570, Box 683. Engineer's marks indicate the location of the original bridge beam below the arch.