

## Terminal Railroad Association Collection

Inventory of Eads Bridge Drawings at Washington University  
Processed by Catherine Forslund, 1995

### Section 4: Drawings 301-400

- TR-301                    Tunnel connecting Illinois & St. Louis Bridge with western railways, section through retaining walls at open approach at various stations  
Scale: 1 inch=4 feet and 1 inch=16 feet  
Size: 36x22
- TR-302                    Tunnel connecting Illinois & St. Louis Bridge with western railways, details of Spruce Street bridge  
Scale: 1 inch=4 feet  
Size: 36x13
- TR-303                    Tunnel connecting Illinois & St. Louis Bridge with western railways, section through retaining walls at open approach at various stations, appears to duplicate TR-301  
Scale: 1 inch=4 feet and 1 inch=16 feet  
Size: 36x20
- TR-304                    Cross-section of proposed floor--St. Louis Bridge  
Scale: 1 1/2 inch=1 foot  
Size: 22x10
- TR-305                    Western approach, foundation of pier no. 5 and stairhouses  
Scale: 1/4 inch=1 foot  
Date: 8/18/1871  
Microfilmed  
Size: 20x18
- TR-306                    Full size sections of rails for tramways  
Date: 1/11/1873; received at St. Louis, 2/10/1874 by Walter Katte (Engineer, Keystone Bridge Co.)  
Size: 14x12
- TR-307                    Full size sections of rails for tramways  
Date: 2/10/1874  
Size: 16x12
- TR-308                    Cross-section of tunnel no. 1  
Scale: 3/8 inch=1 foot

- Date: 2/10/1871  
Size: 16x12
- TR-309            Tunnel no. 5  
Scale: 3/8 inch=1 foot  
Date: 2/9/1871  
Size: 18x27
- TR-310            Tunnel no. 5  
Size: 19x27
- TR-311            Tunnel no. 4, section through cast iron beam  
Scale; 3/8 inch=1 foot  
Size: 21x21
- TR-312            Unidentified, appears to be various views of bridge  
Size: 30x32 (fragile and damaged; drawing breaks off on left side and upper left corner, in pieces, middle section missing)
- TR-313            Tunnel of Illinois & St. Louis Bridge  
Scale: 3/8 inch=1 foot  
Date: 2/9/1871  
Size: 29x19
- TR-314            Unidentified, cross-section lines of bridge joists, tunnel arch and bridge braces outlined on grid  
Size: 16x22
- TR-315            Unidentified, cross-section lines of bridge struts, tunnel arch, tunnel wall and bridge braces  
Size: 18x23
- TR-316            Section of St. Louis Bridge & Tunnel  
Scale: 1 inch=1 foot  
Signed: H.P. Taussig, C.E.  
Size: 20x31
- TR-317            Part of tunnel drawing  
Size: 10x17 (damaged; drawing breaks off in middle)
- TR-318            Unidentified, aerial view of downtown St. Louis, city blocks 180, 164, and 424, with lines showing location of tracks or tunnels  
Size: 26x18

- TR-319                   Castings for various pipes  
Size: 16x27 (damaged; drawing breaks off at what appears to be the middle)
- TR-320                   Unidentified, schematic of East St. Louis side of Bridge showing ground acquired by condemnation and purchase  
Size: 18x18 (damaged; drawing breaks off on right side, possibly middle)
- TR-321                   Section of Tunnel at Post Office showing proposed new brick wall  
Scale: 1/8 inch=1 foot  
Date: none but note "see later drawing same number June 23, 1892"  
Microfilmed  
Size: 63x20 (folded and in pieces)
- TR-322                   Unidentified, possibly a section of bracing  
Scale: 1/5 inch=1 foot  
Size: 14x11
- TR-323                   Unidentified, negative photo print of side view of land approach to bridge  
Size: 21x9
- TR-324                   Unidentified, various lines at bents 1-5  
Size: 55x21 (damaged; drawing breaks off at upper left, folded)
- TR-325                   Isometrical views of abutment mouldings  
Size: 23x14 (in pieces)
- TR-326                   Unidentified, various lines at bents 1-5  
Date: received 4/11/1873  
Size: 54x20 (damaged; drawing breaks off on right side, in two pieces)
- TR-327                   Cross-section of tunnel at 8th & Olive Streets  
Scale: 1/2 inch=1 foot  
Date: 1/22/1942  
Size: 36x24
- TR-328                   Unidentified, appears to be cross-section of pier  
Size: 13x9
- TR-329                   Unidentified, appears to be cross section of tunnel  
Size: 18x17
- TR-330                   #54: Cross-section near pier  
Scale: 1/2 inch=1 foot  
Size: 25x56 (folded)

- TR-331                    Details of cast steel frame for tunnel stack fan, sheet 6  
Scale: 3/4 inch & 3 inches=1 foot  
Date: 6/21/1915  
Size: 21x22
- TR-332                    200 Steel track stringers for St. Louis Bridge & Tunnel R.R., Order no.  
4355, Card no. 8239, Edge Moor Iron Works  
Scale: 1 1/2 inch=1 foot  
Date: 4/20/1888  
Microfilmed  
Size: 27x36 (fragile and damaged on edges)
- TR-333                    East St. Louis approach, line B south, bents 43-45 & 49-50  
Size: 42x28
- TR-334                    East St. Louis approach, line B south, bents 2-4  
Size: 42x29
- TR-335                    East St. Louis approach, cross-section, centre post, span 2  
Size: 42x30
- TR-336                    East St. Louis approach, 1/2 sections of bents 2-3  
Size: 43x31
- TR-337                    East St. Louis approach, line A south, bent 4  
Size: 42x30
- TR-338                    East St. Louis approach, sections at truss posts, various spans  
Size: 42x31
- TR-339                    East St. Louis approach, transverse section at bents  
Size: 42x30
- TR-340                    East St. Louis approach, transvers section at bent 27  
Size: 42x29
- TR-341                    East St. Louis approach, line A south, bent 21  
Size: 42x30
- TR-342                    East St. Louis approach, line B south, bents 22-23  
Size: 42x31
- TR-343                    East St. Louis approach, line B south, bents 23-25  
Size: 42x29

- TR-344 East St. Louis approach, 1/2 section at bent 31  
Size: 42x30
- TR-345 East St. Louis approach, line B south, bents 31 & 33  
Size: 42x29
- TR-346 East St. Louis approach, line C, bents 31-33  
Size: 42x29
- TR-347 East St. Louis approach, 1/2 section at bent 32  
Size: 42x30
- TR-348 East St. Louis approach, 1/2 section at bent 33  
Size: 42x30
- TR-349 East St. Louis approach, line A south, bent 33  
Size: 42x26
- TR-350 East St. Louis approach, transverse section, bent 37  
Size: 42x27
- TR-351 East St. Louis approach, line A, bents 42-43  
Size: 42x22
- TR-352 Plate III, showing the strains in the braces (of centre span)  
Size: 20x27
- TR-353 Plate III, showing the strains in the braces (of side spans)  
Size: 20x27
- TR-354 Plate II, showing the influence of temperature on the upper and lower  
member of a rib of centre span  
Size: 20x27
- TR-355 Plate II, showing the influence of temperature on the upper and lower members  
of a rib of side spans  
Size: 20x27
- TR-356 Diagram showing the influence of temperature on the ribs of central span  
Size: 18x26 (damaged; drawing breaks off on all four edges)
- TR-357 Plate III, showing the strains in the braces  
Size: 17x26 (damaged; drawing breaks off at right, left, and bottom edges)

- TR-358                    Diagram showing the influence of variable loads on the members of central arch (515 feet span)  
Size: 18x24
- TR-359                    Diagram showing strains in side spans  
Size: 16x21
- TR-360                    Unidentified, appears to be partial diagram showing some type of compression and tension  
Size: 20x9 (damaged, this is only middle section of complete diagram)
- TR-361                    Diagrams showing the influence of variable loads on the ribs (remainder of title missing)  
Size: 19x26 (damaged; drawing breaks off at upper right, left, and bottom edge)
- TR-362                    Diagrams showing the influence of temperature on the members of central span  
Size: 19x26
- TR-363                    Unidentified, lower portion of TR-360  
Size: 20x16 (damaged; drawing breaks off at top, see TR-360 for middle section of drawing)
- TR-364                    Plate I, showing the influence of variable loads on the ribs of ??? (remainder of title missing)  
Size: 20x26 (damaged; drawing breaks off at upper right and right edge)
- TR-365                    #43: Iron wind truss of upper roadway in side span, for details see #42  
Scale: 1 inch=12 feet  
Date: 1/26/1871  
Signed: Eads  
Size: 27x20
- TR-366                    #43 (revised): Iron wind truss of upper roadway in side span, for details see #42  
Scale: 1 inch=12 feet  
Date: 3/23/1872  
Signed: Eads  
Size: 27x20
- TR-367                    #40: Eye plates connecting struts with steel pins and wrought iron nuts & washers for steel pins, including list of eye plates  
Scale: 1/8 and 1/4 full size  
Date: 1/31/1871  
Signed: Eads

Size: 27x20

- TR-368 #39: Wrought iron tension rods between struts, with attached sheet listing bracing above railway (3/30/1872)  
Scale: 18 inch=1 foot, 1/8 and 1/4 full size  
Date: 1/23/1871  
Signed: Eads  
Size: 27x20
- TR-369 #38 (revised): Showing mode of supporting railway at joints (0-7) and (37-44) middle span and (0-6) and (35-42) side spans  
Scale: 1/2 and 1/8 full size  
Date: 7/28/1871  
Signed: Eads  
Size: 27x20 (damaged; with torn upper left corner)
- TR-370 #34: Struts made of 7" channel bars (96 struts required), with attached sheet listing struts made of 7" channel bars (3/30/1872)  
Date: 12/31/1870; received at St. Louis, 1/5/1871  
by Walter Katte  
Signed: Eads  
Size: 27x20
- TR-371 #33: Struts made of 6" channel bars (172 struts required), with attached sheet listing struts made of 6" channel bars (3/30/1872)  
Date: 12/31/1870; received at St. Louis, 1/5/1871 by Walter Katte  
Signed: Eads  
Size: 27x20
- TR-372 #32 (revised): Support of cross beam of lower roadway at joints nos. 31 & 32 (side spans)  
Scale: 1/8 full size  
Date: 7/28/1871  
Signed: Eads  
Size: 27x20
- TR-373 #31: Showing mode of supporting the cross beams of railroad on joints 9 & 10 of side spans  
Scale: 1/8 inch=1 inch  
Date: 6/29/1871  
Signed: Eads  
Size: 27x20
- TR-374 #29 (revised): Suspension rods

- Scale: 1/4 full size  
Date: 8/1/1871  
Signed: Eads  
Size: 27x20
- TR-375            #28 (revised): Constuction of railway track in centre part of spans  
Scale: 1/8 full size  
Signed: Eads  
Size: 27x20
- TR-376            #23: Skewback tubes and pins for side spans  
Scale: 1/8 and 1/4 full size  
Date: 10/17/1870  
Signed: Eads  
Size: 27x20
- TR-377            #24: Wrought iron bars for braces of side spans  
Scale: 1/12 full size  
Date: 9/26/1870  
Signed: Eads  
Size: 27x20
- TR-378            #25: Horizontal stays between steel ribs of side spans (revised)  
Date: 6/30/1872  
Size: 27x20
- TR-379            #27A (revised): Full size section of wrought iron longitudinal beam and  
steel rail used in construction of railway  
Date: 7/27/1871  
Signed: Eads  
Size: 27x20
- TR-380            #27B (revised): Full size section of wrought iron cross beam used in  
construction of railway  
Date: 7/27/1871  
Signed: Eads  
Size: 27x20
- TR-381            #43a: Plan showing location of sleeve nuts for tension rods and elevation  
of wind truss for side spans  
Scale: 1 inch=12 feet  
Date: 4/10/1872  
Signed: Eads

Size: 27x20

- TR-382 #51: Mode of supporting the struts on joints 0 & 42 side spans and 0 & 44 centre span  
Scale: 1/4 full size  
Date: 1/26/1871  
Signed: Eads  
Size: 27x20
- TR-383 #46 (revised): Showing mode of supporting the railway on joints 7 & 34 of side spans and 8 & 36 centre span  
Scale: 1/8 full size  
Date: 7/31/1871  
Signed: Eads  
Size 27x20
- TR-384 #47 (revised): Support of cross beam of lower roadway at joint no. 8 (side span)  
Scale: 1/8 full size  
Date: 8/7/1871  
Signed: Eads  
Size: 27x20
- TR-385 #48 (revised): Showing mode of supporting the railway at joint 33 (side span)  
Scale: 1/8 full size  
Date: 8/11/1871  
Signed: Eads  
Size: 27x20
- TR-386 #49 (revised): Showing mode of supporting the railway at joints 9 & 35 (centre span)  
Scale: 1/8 full size  
Date: 8/12/1871  
Signed: Eads  
Size: 27x20
- TR-387 #64a: Girders between towers (2 girders required)  
Scale: 1 inch=2 feet and 1/8 full size  
Date: 7/13/1872  
Signed: Eads  
Size: 35x12

- TR-388                    #70: Lateral stiffening of upper member of outer ribs in centre part of spans, with 3 drawings attached showing details and revisions of #70  
Scale: 1/2 inch=1 foot and 1/4 full size  
Date: 7/24/1872, some revisions dated later  
Signed: Eads  
Size: 27x20
- TR-389                    #71: Cross beams of lower roadway in centre part of spans, with attached revision drawing  
Scale: 1/16 full size  
Date: 10/25/1872, revision dated 5/13/1873  
Signed: Eads  
Size: 27x20
- TR-390                    #74: Diagrams showing lengths of tubes and braces near centres of spans  
Scale: 1 inch=4 feet  
Date: 2/5/1873  
Signed: Eads  
Size: 27x20
- TR-391                    #73: Adjusting arrangement in central tubes for side spans  
Scale: 1/4 full size  
Date: 2/3/1873  
Signed: Eads  
Size: 34x18
- TR-392                    #22 (revised): Steel sleeve couplings connecting tubes of side spans  
Scale: 1/4 full size  
Date: 11/17/1870  
Signed: Eads  
Size: 27x20
- TR-393                    #21: Tension rods between steel ribs of side spans with connecting straps and bolts (steel)  
Scale: 1/8 full size  
Date: 10/13/1870  
Signed: Eads  
Size: 27x20
- TR-394                    #20: Eye plate washers for side spans (steel)  
Scale: 1/4 full size  
Date: 10/14/1870

Signed: Eads  
Size: 27x20

- TR-395 #19: Tubes for side spans  
Scale: 1/4 and 1/8 full size  
Date: 8/12/1870  
Signed: Eads  
Size: 27x20
- TR-396 #18: Steel pins for lower members of side spans (336 pins exclusive skewback pins), duplicate  
Scale: 1/4 full size  
Date: 7/18/1870  
Signed: Eads  
Size: 27x19
- TR-397 #17: Steel pins for upper members of side spans (328 pins exclusive of skewback pins), duplicate  
Scale: 1/4 full size  
Date: 10/4/1870  
Signed: Eads  
Size: 25x19
- TR-398 #16 (revised): Sections of staves used for tubes in side spans  
Date: 5/25/1871, copy 5/29/1871  
Size: 29x18
- TR-399 #16: Sections of staves used for tubes in side spans, copy of tracing  
Date: 7/8/1870  
Signed: Eads  
Size: 26x18
- TR-400 #15: Horizontal stays between steel ribs of middle span (revised)  
Date: 6/21/1872  
Size: 27x20