Record Series Number

The materials listed in this document are available for research at the University of Illinois Archives. For more information, email illinois.edu or search http://www.library.illinois.edu/archives/archon for the record series number.

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Engineering
Civil Engineering
Railway Engineering Photographs

Box 1: Plates 1-105

- 1 5; 11 15 Railway Engineering buildings, labs and facilities at the University of Illinois
- 6 10 Missing
- 16 26 Steam locomotive testing at the Locomotive Testing Lab, I.C. 2-8-0
- 27 41 Construction of Locomotive Testing Laboratory
- 42 59 Boiler Testing
- 60 62 Locomotive drive-wheel testing
- 63 Locomotive Lab with students
- 64 99 Missing
- 100 105 Wheel testing

Box 2: Plates 106 - 219

- 106 107 Wheel testing
- 108
- 109 119 Missing
- 120 150, 155 Electric Railway Testing Car, operation, equipment, and test results
- 151-154 Missing
- 156 159 Missing
- 160 169 Electric Railway circuit diagrams
- 170 172 Testing devices
- 173 199 Missing
- 200 Big Four Railroad Locomotive and caboose
- 201 203 Missing
- 204 207
- 208 210 Missing
- 211 219 Truck and bogie testing

Box 3: Plates 220 - 313

- 220 227 Truck and bogie testing
- 228 250 I.C. Railroad Dynomometer Car, design, equipment and methods of testing
- 251 254 Piston rod diagrams
- 255 274 Missing
- 275 313 Track maintenance, with emphasis on cross-tie treatment and installation, with views of the C.V. & Q.R.R. timber treating plant
- Box 4: Plates 320 460
- 314 319 Missing

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320 - 379 Signal diagrams and circuits
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380 - 399 Missing

400 - 444 Railway water towers, design, examples, refinements

445 - 449 Missing

450 - 460 Peoria and Eastern Railway (Big Four) Shops, Urbana, views

Box 5: Plates 461 - 541

461 - 506 Peoria and Eastern Railway Shops, Urbana, views, diagrams, operations. Photos appear to be ca. early 1920's.

507 - 509 Missing

510 - 541 I.C. locomotives (steam) and locomotive shops (operations, design)

Box 6: (legal size) Plates 550 - 652

542 - 549 Missing

550; 553 - 652 Rail joint testing (pressure, strength, durability)

551 - 552 Missing

Box 7: Plates 653 - 728

653 - 659 (1 - 20) Rail joint testing

660 - 722; 724-728 Wheel strength, wheel testing

723 Missing

Box 8: Plates 729 - 834

729 - 740 Wheel strength testing

741 - 749 Missing

750 - 764 Historic steam locomotives (Rocket, Best Friend of Charleston)

765 - 769 Missing

770 - 774 Early track and roadbed, one Florida East Coast Railway steam locomotive, ca. 1910

775 - 777; 779 - 789 Air and handbrake design diagrams and examples

790 - 799 Missing

800 - 812 Steam locomotive boiler design

813 - 814 Wreck, passenger train, wooden equipment, may be Wabash R.R.

815

816 - 819 Missing

820 - 834 Coupler design and testing

Box 9: (legal size) Plates 835 - 933 and lantern slides

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835 - 836; 838 - 848 Truck testing, load capacity, endurance, design (841 Big Four R.R. wooden box car)

849 - 853 Traction locomotives and cars, Illinois Traction Systems

854 - 868 Rail and machine testing, testing processes and diagrams

869 - 874 Missing

875 - 890 Coal, types, testing as locomotive fuel

891 - 894 Missing

895 - 899 I.C. 2-8-0 Steam locomotive

900 - 908 Momentum, weight/speed tests

909 Missing

910 - 916 Rail bonds and electrical connections

917 - 922 Track location and curvature, abutments

923 View of IR Engine #431 in Locomotive Testing Lab

924 - 928 Interior of University of Illinois electric test car

929 Students on line survey, Illinois Traction System Lines

930 - 933

47 lantern slides of the design, operations and results of tests made by an I.C. R.R. dynomometer car (may be as late as 1940)

Box 10:

Illinois Central Railroad Engines, 1900- (6 prints)

Troy, Ohio derailment, April 1900 (2 prints)

Test car instrumentation in CB& QRR dynamometer car, May 1902

Railway testing laboratory construction and fittings (later Aeronautical Engineering Lab A), ca. 1905 (8 prints)

Electrical engineering test car, ca. 1910 (8 prints)

Dynamometer car #3, manufacturer's metal plate, 1914

Interiors and recording instruments test mechanisms, 8 8 x 10 plates, ca. 1914

Japanese test car paper test mechanisms 13, 6 x 8 plates, 1914

Illinois Central test car 17, 1 plate (3 prints)

Locomotive Testing apparatus and crew (7 prints)

Brake shoe testing, 1 illustration

Test car exteriors, 6 x 8 plate

Draw bar pull apparatus, 2, 2 x 3 plates

Test apparatus, 2, 6 x 8 plates

Gear box, 8 x 10 plate

NYNH&M railroad locomotive # 3500, 25 prints, blueprints, datasheets, August 1926

Baldwin locomotive works engine # 6000, 8 prints

Delaware and Hudson locomotive # 1400, 2 prints, September - December 1926

Recording machines and sketch of Dudley Dynagraph, 7 mounted prints

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