

CHIEF ENGINEER  
 Subject Files 81-477  
 Box/Location Inventory

Box no.	Inclusive file nos.	Location
1.	1-01 -- 6-13.	19.C.2.2F
2.	6-13-01 -- 6-67.	19.C.2.3B
3.	6-68 -- 8-13.	19.C.2.4F
4.	8-14 -- 9-26-02-1.	19.C.2.5B
5.	9-26-02 -- 9-29-03 (Part II).	19.C.2.6F
6.	9-29-03 (Part III) -- 9-32.	19.C.2.7B
7.	9-34 -- 9-72.	19.C.2.8F
8.	9-73 -- 10-06-01.	19.C.2.9B
9.	10-07-01 -- 10-24-01.	19.C.2.10F
10.	10-25 -- 10-26-06.	19.C.3.1B
11.	10-27-1 -- 10-35-01.	19.C.3.2F
12.	10-35-03 -- 11-02-V.	19.C.3.3B
13.	11-02-VI -- 11-07-02.	19.C.3.4F
14.	11-08 -- 15-16.	19.C.3.5B
15.	16-10 -- 26-6.	19.C.3.6F
16.	26-7 -- 38-5.	19.C.3.7B
17.	38-6 -- 82.	19.C.3.8F
18.	82-01 -- 89-07-01.	19.C.3.9B
19.	90 -- 100-30.	19.C.3.10F
20.	102-01 -- 102-16.	19.C.4.1B
21.	102-16-1 -- 104-2.	19.C.4.2F
22.	105 -- 105-05.	19.C.4.3B
23.	106-1 -- 130.	19.C.4.4F (File 114-2: SEE Box 59.)
24.	131 -- 145-03 (F2).	19.C.4.5B
25.	145-03 (F3) -- 153.	19.C.4.6F
26.	154 -- 161 (F3).	19.C.4.7B
27.	161 (F4) -- 165-03.	19.C.4.8F
28.	165-06 -- 176.	19.C.4.9B
29.	177 -- 199-01.	19.C.4.10F
30.	199-5 -- 201-20.	19.C.5.1B
31.	202-02 -- 204-02.	19.C.5.2F
32.	204-03 -- 215-02.	19.C.5.3B
33.	215-03 -- 218.	19.C.5.4F
34.	220 -- 224-04.	19.C.5.5B
35.	224-04-1 -- 228-09.	19.C.5.6F
36.	228-10 -- 241-04.	19.C.5.7B
37.	243 -- 247-3 (part).	19.C.5.8F
38.	247-3 (cont.) -- 258-3.	19.C.5.9B
39.	258-5 -- 262-04.	19.C.5.10F
40.	262-05 -- 283.	19.C.6.1B

CHIEF ENGINEER  
Subject Files #1-477  
Box/Location Inventory

Box no.	Inclusive file nos.	Location
41.	283-02 -- 294.	19.C.6.2F
42.	295 -- 322.	19.C.6.3B
43.	323 -- 325-1-B (F1).	19.C.6.4F
44.	325-1-B (F2) -- 325-3.	19.C.6.5B
45.	325-4 -- 332.	19.C.6.6F
46.	334 -- 350.	19.C.6.7B
47.	350-01 -- 354-5-2.	19.C.6.8F
48.	354-5-3 -- 362-1967-6-12.	19.C.6.9B
49.	362-1967-7-6 -- 365-01.	19.C.6.10F
50.	366 -- 383.	19.C.7.1B
51.	383-01 -- 393.	19.C.7.2F
52.	394 -- 401.	19.C.7.3B
53.	402 -- 405-1.	19.C.7.4F
54.	406 -- 409.	19.C.7.5B
55.	410 -- 421.	19.C.7.6F
56.	423 -- 432-02.	19.C.7.7B
57.	433 -- 439.	19.C.7.8F
58.	440 -- 453.	19.C.7.9B
59.	457 -- 477; 114-2.	19.C.7.10F

CHIEF ENGINEER  
 Subject Files #1-477  
 File Inventory

1.

File no.	Title	Date Span	No. Folders
1-01.	Engineering: Survey of Industry Research and Development. (Also John Budd's article, "Engineering Careers in Railroads.")	1955-1956	1
2-02.	Right-of-Way: General. (See also File #312).	1921-1970	6
2-03.	Soil Testing.	1956-1966	1
2-04.	Beautification Program.	1966	1
3-91.	Slide Protection Fences (See also File 330).	1933-1969	2
5-01.	Tunnels: General (Includes blue prints and information on infra-red lights to control icicles).	1902-1964	8
5-02.	Tunnels: Clearances, General.	1925-1940	2
5-03.	Franklin Tunnel.	1937-1954	1
6-03.	Bridge Ties and Timbers (see also File 331.1).	1964-1969	1
6-06.	Bridges and Culverts (see also File 331.1).	1960-1969	1
6-06-02.	Fire Protection Equipment: Water Barrels (see also File .030.1).	1956-1961	1
6-07.	Bridge Department: General (Salaries).1912-1968		1
6-08.	Bridges: Instructions for Annual Inspection; Irrigation culvert contracts.	1958-1969	1
6-08-01.	Bridges and Culverts jointly maintained: Contracts and Private Crossings.	1933-1935	1
6-10.	Bridge Material.	1960-1965	1
6-13.	Draw Bridges U.S. Army Corps of Engineers Regulations).	1923-1969	4
6-13-01.	Bridge Clearance Hearing, Missouri River at Omaha: U.S. Army Corps of Engineers.	1960-1962	3
6-15.	Bridges in Canada: Board of Railway Commissioners for Canada.	1954-1960	1
6-17.	Bridges: Painting (National Highway Research Program Report).	1966-1970	2

CHIEF ENGINEER  
 Subject Files 81-477  
 File Inventory

2.

File no.	Title	Date Span	No. Folders
6-22.	Bridges: Lighting (Diagrams).	1937-1963	1
6-28.	Bridges: Timber Guard Rail.	1950-1968	1
6-31.	Concrete Trestles.	1935-1967	1
6-32.	Pile and Frame Trestles.	1958-1966	1
6-40.	Bridges: Speed & Load Restrictions.	1962-1966	1
6-64.	Bridges and Culverts.	1964	2
6-65.	Bridges and Culverts.	1965	2
6-66.	Bridges and Culverts.	1966	2
6-67.	Bridges and Culverts.	1967	2
6-68.	Bridges and Culverts.	1968	2
6-69.	Bridges and Culverts.	1969	2
8-01.	Tie and Timber Treating Plants: General.	1965-1969	1
8-01-01.	Tie Treating Plants: Joint Use.	1934-1952	1
8-4.	Ties: General (see also File 341).	1964-1970	4
8-05.	Use of 9 foot Cross Ties.	1948-1967	1
8-06.	Tie Dating Nails.	1952-1969	1
8-07.	Tie Renewals: General (see also File 341).	1961-1970	3
8-07-A.	Tie Renewals: Survey of Reasons Why Renewed.	1963-1968	1
8-07-1.	Annual Tie Renewals.	1959-1970	2
8-08.	Laminated Cross Ties for test.	1958-1959	1
8-09.	Treated Ties: General.	1959-1969	1
8-13.	Tie Treating Plants: General.	1923-1969	2
8-14.	Treated Test Ties (Various locations including Stone Arch Bridges Mpls).	1948-1957	1
8-15.	Test Tie Installations.	-1961	1
8-16.	Laminated Wood Cross Tie: Design Fabrication Tests.	1930-1959	1
8-17.	Vapor Drying of Ties by Santa Fe Ry. in Texas.	1955-1960	6
8-18.	Hillyard Tie Treating Plant: General.	1955-1963	1
8-19.	Somers Tie Treating Plant: General.	1954-1969	2

CHIEF ENGINEER  
 Subject Files ill-477  
 File Inventory

File no.	Title	Date Span	No. Folders
8-20.	Cars for Loading Ties: Diagrams for Flat Cars: General.	1931-1970	1
8-22.	Sealing Split and Checked Ties.	1953-1960	1
8-23.	Treated and Untreated Cross Ties in Track, by Valuation Sections: General.	1953-1965	
8-23-1.	Treated and Untreated Cross Ties in Track by Valuation Sections.	1960-1957	1
8-24.	Test of Green Oak Treated Ties.	1960	1
8-25.	Marking Ties to Indicate Top Side.	1942-1960	1
8-26.	Tie Plugs and Tie Plug Inserter.	1960-1970	1
8-27.	Dating of Cross Ties.	1961-1969	1
9-03.	Rail Patents: Sandberg Sorbitic Process and Silicon Process March 22, 1912, includes a letter to James J. Hill, regarding new rail invention by Warden Hellstrom.	1912-1958	1
9-25	Rail: Colorado Fuel & Iron Co.	1958-1966	1
9-26-02-1.	Statements of 110# Rail in Track on Route of Empire Builder and Secondary Main Lines.	1955-1956	
9-26-01.	Rail: Manganese and Intermediate Manganese.	1922-1963	2
9-26-02.	Rail: Inspection of 110# rail in G.N. & C.B.Q. Track.	1932-1947	1
9-26-03.	Rail: 1128 and switch material.	1938-1965	3
9-26-04.	Rail: 131# and switch material (Burlington) Rail: Torsion Resisting Rail.	1945-1968	2
9-26-05.	Rail: Rail and Switch Material 115#.	1948-1965	3
9-29.	Rail: General (See also File 342).	1961-1969	3
9-29-01.	Rail: Loading on Flat Cars.	1958-1969	1
9-29-03.	Continuous Welding of Rail: Part II.	1950-1955	2
9-29-03.	Continuous Welding of Rail: Part III.	1956-1961	3
9-29-3.	Continuous Welding of Rail: Part IV	1962-1965	4
9-29-3.	Continuous Welded Rail: Part V.	1966-1970	2
	Jack Knife Tests: Final Report, Nolan, N.D.	1958	

CHIEF ENGINEER  
 Subject Files #1-477  
 File Inventory

File no.	Title	Date Span	No. Folders
9-29-03-1.	Roller Assembly	1963-1969	1
9-29-03.	Thermit Welding (see also File 342.124- Process first used in USA in 1902)	1937	1
9-29-04.	Continuous Welded Rail: Matisa Equipment Corporation Process (Glued rail joints).	1956-1968	4
9-29-05.	Welding Heat Treated Rail.	1958-1967	1
9-32.	Rail Failures: Instructions to Track Men.	1962-1970	2
9-34.	Rail Relaying: (Proposed new 115th rail Territory Map: Seattle to St. Paul): General.	1960-1969	1
9-34-1.	Relaying: General: Rail purchased statements (Parts I & II filed with Maintenance of Way 81920)	1959-1967	1
9-34-2.	Relaying Instructions: Specifications: Correspondence.	1961-1970	1
9-39.	Spur Tracks, Laws: British Columbia (Side & Industry Tracks, General Order #15, Passing Tracks General, Logging and Industrial Roads).	1953-1969	1
9-39-01.	Fire Protection for Oil Sidings.	1952-1967	1
9-40.	Joint Tracks and Joint Facilities, General: Bills, statements, etc.	1943-1968	1
9-47.	Tracks, Branch Lines: Abandonment and Renewal of Tracks - (map of lines abandoned since 1926).	1945-1969	1
9-65.	Rail Anchors, Part III: Applicators, General.	1958-1970	1
9-66.	Heat Treated Rail, Part V.	1958-1968	2
9-68.	Rail On Hand, Part I: American Brake Shoe Co.; Ramapo Alax Corp. Plant, Superior (see Part II).	1961-1967	1
9-68.	Rail On Hand, Part II.	1967-1970	1
9-70.	Second Hand Rail: General (see also #342).	1959-1969	1
9-71.	Sale of Second Hand and Scrap Rail (Photos of Track Take-up Equipment).	1961-1970	3
9-72.	High Silicon Rail.	1960-1969	1
9-73.	Scrap Rail.	1959-1969	1

CHIEF ENGINEER  
 Subject Files #1-477  
 File Inventory

5.

File no.	Title	Date Span	No. Folders
9-74.	Value of Rail On Hand.	1959-1969	1
9-75.	Failed Rail: General.	1959-1969	2
9-75-1.	Rail Failures: Annual Reports by G.N. Ry. and others.	1950-1968	
9-80.	Rail End Hardening: Heat Treating of Rail Ends, General.	1960-1970	1
9-81.	Transposing Rail: General.	1958-1970	1
9-81-1.	Transposition of Rails and Curves on System.	1967-1969	
9-82.	Test of Rail Steel with Columbium Added.	1959-1968	1
10-05.	Tie Plates: General.	1966	1
10-05-1.	Tie Plates and Spacers: General.	1959-1969	1
10-05-2.	Repunching Tie Plates.	1960-1970	1
10-05-3.	Mill Inspection Reports of Tie Plates.	1963-1969	1
10-05-4.	Rubber Tie Plates Testing (material sample included).	1959-1968	1
10-06-01.	Tie Pads: General Advertising.	1956-1970	2
10-07-1.	Track Bolts: General (See also #342.42).	1938-1969	1
10-8-1.	Inspection Reports of Track Bolts.	1966-1969	2
10-09.	Bolts, Frog.	1961-1966	1
10-11-01.	Switch Stands: General.	1937-1967	1
10-11-02.	Switch Stands: Buda.	1933-1960	1
10-11-03.	Repair Switch Stands: American Brake Shoe Co.	1960-1965	
10-13.	Split Switches: Turnouts (See also File 8342.5).	1960-1969	1
10-13-01.	Mechanical Switchment.	1957	1
10-14.	Switch Keys.	1956	1
10-15.	Switch Locks: Facing Point Switches.	1953-1970	1
10-20-01.	Frogs: Locomotive Finished Material Co.	1928-1936	1
10-20.	Frogs and Blockings, Part IV.	1951-1969	1
10-21.	Switches: Puzzle and Slip.	1913-1964	1
10-22.	Crossing Frog Record (See also File #324).	1937-1969	

CHIEF ENGINEER  
 Subject Files #1-477  
 File Inventory

6.

File no.	Title	Date Span	No. Folders
10-24.	Crossing Frogs, Parts II & III: General.	1930-1968	2
10-24-1.	Frogs: General.	1920-1968	
10-25.	Crossings & Switch Frogs: Rail- bound Manganese Frogs; Insert Frogs (See also File #324).	1908-1970	2
10-25-1.	Manganese Frogs: General.	1909-1968	2
10-26.	Track Spikes: General.	1902-1969	3
10-26-02.	Track Spikes: Patent by Geo. B. Anthanisen.	1932-1949	
10-26-03.	Track Spikes: Elastic Switch Material (1128).	1936-1965	
10-26-4.	Spike Driving and Bolt Tightening Machines: Spike Puller (Former Maintenance of Nay #1760-4).	1912-1969	2
10-26-05.	Test Installation of Rail Lock Spikes: Cascade Division (M.P. 1686.66 to 1688.54, July 1962).	1956-1967	
10-26-06.	Test Track Chisels and Spike Mauls: General.	1924-1965	
10-27-1.	Guard Rails (And Foot Guards): General.	1910-1964	2
10-27.	Guard Rails and Blocks: General.	1902-1968	3
10-28,	Inner Guard Rail on Bridges, (See also File #6-44).	1908-1967	2
10-29.	Derails: Drawings and Pictures.	1900-1969	3
10-31-02.	Anti-Creepers (see also File #342.44).	1952-1967	1
10-33-1,	Rail Braces and Rail Chairs: General (see also files 815-07 and #342.4).	1953-1969	1
10-33-2.	Flange Rail Chairs (see also 1342.4).	1956-1967	1
10-35-01-A.	Angle Bars and Rail Joints: General.	1958-1970	3
10-35-03.	Angle Bars: General.	1951-1969	1
10-35-07.	Angle Bars, Forged: Nelson & Fort Shepard Ry. (for 56# and 60# rail: Plan #3100-73-01).	1961-1962	
10-35-09.	Angle Bars for 112# Rail.	1946-1963	1
10-35-10.	Angle Bars for 131# Rail.	1939-1965	1

CHIEF ENGINEER  
 Subject Files #1-477  
 File Inventory

File no.	Title	Date Span	No. Folders.
10-35-11.	Reformed Angle Bars (Photos and Drawings).	1963-1968	
10-39.	Angle Bars Offset (see also File #342.41).	1958-1969	1
10-41.	Rail Joints: Miscellaneous.	1958-1964	1
10-42.	Rail Bonding of Joints: Insulated. (see also File #342.41).	1952-1966	1
10-42-1.	Tests of Insulated Rail Joints.	1957-1969	1
10-42-2.	Test Installation: end Delrin Posts (Insulators).	1964	
10-42-3.	Investigation and Development of Insulated Joints in Cooperation with <del>3</del> H Co. (Includes material Sample: "Scotchply").	1968	
10-52.	Switch Material (110#) and Track Material.	1961-1970	1
10-52-1.	Switch Points: General.	1957-1969	1
10-54.	Gauge Plates: General.	1940-1963	1
10-56.	Test of Switch Point: Special Manganese Tipped Samsen.	1966-1969	1
11-1-A.	Portable Gravel Convegars: Gravel Processing Plant.	1958-1968	1
11-01-01.	Washed Sand and Gravel: Engine Sand Test.	1951-1968	
11-02.	Survey of Ballast Pits Owned and Used by Railway.	1956-1967	
11-02-G.	Geology and Sand and Gravel Deposits of Minot Area. (Land Erosion-Maps).	1956-1961	
11-02-V.	Gravel Pits: General (including Charts and Maps).	1961-1965	
11-02-11.	Gravel Pits: General (including Charts and Maps).	1966-1970	3
11-02-02.	Gravel Pits: Exploration for Gravel.	1912-1968	1
11-1-04.	Rock Ballast.	1953-1968	1
11-01-04.1.	Rocks: Tests and Analyses, etc.	1945-1968	2
11-07.	Ballasting and Bankwidening Specifications: General. (especially ballasting by Sledding Process).	1956-1969	
11-07-A.	Patent Information on Ballast Sleds and Plows: Association of American Railroads.	1960-1965	

CHIEF ENGINEER  
 Subject Files 81-477  
 File Inventory

File no.	Title	Date Span	No. Folders
11-07-B.	Patent Information: Ultrasonic Testing Equipment (AAR).	1960-1965	1
11-07-01.	Grouting Machinery: Pictures.	1960-1965	1
11-07-02.	Ballast Profiles.	1956-1959	3
11-08.	Ballast Cleaning.	1960-1968	1
11-09.	Ballasting and Tracklaying: Specifications. (includes Diagram of G.N. Tracklaying Record and Map).	1913-1960	1
11-12.	Grading: General.	1918-1955	1
13-01.	Right of Way Fences: Miscellaneous.	1949-1968	1
13-07.	Fence Posts: General.	1957-1965	1
13-13.	Cattle Guards.	1957-1962	1
14-01.	Snow Sheds: General.	1969	1
14-03.	Snow Fences: General. (includes Photos and Drawings.	1960-1969	1
14-10.	Snow Blowers, Thawing Outfits, and Air Compressors: General.	1959-1969	
14-10-1.	Test of Infra-red Switch Heater: Westminster St., St. Paul.	1960-1965	1
14-10-2.	Test of Switch Heaters.	1962-1969	1
14-11.	Snow Plows, Snow Handling Equipment and Snow melters.	1962-1969	1
15-03.	Signs.	1949-1955	2
15-03-01.	Signs: Equipment, Flanger, Culvert, Shop, and Scotchlite.	1953-1960	1
15-06.	Crossing Gates: Drawings.	1913-1960	1
15-08.	Whistle Posts: Track Signs (State codes on whistles and bell-ringing at crossings).	1917-1969	
15-16.	Grade Separation, Highways, etc.: State of Minnesota Planning Board (Natural Resources).	1934-1965	
16-05.	Loading Platforms, Grain Loading Platforms, and Grain Loading Platforms Canada.	1960-1968	
16-05-1.	Depots: General (includes drawings of prefabricated buildings).	1961-1970	

CHIEF ENGINEER  
 Subject Files #1-477  
 File Inventory

File no.	Title	Date Span	No. Folders
16-10.	Freight Houses: General, Piggy-Back Loading, and Loading Ramps.	1960-1967	1
16-11.	Furniture and Fixtures: General.	1963-1969	1
16-12-1.	New General Office Bldg.: General (Part 3).	1966-1969	2
16-12-01.3.	New General Office Bldg.: Elevators.	1962-1970	1
16-13-02.	Ice Manufacturing Machinery and Refrigeration Equipment.	1966	1
17.	Tool Cars: B & B Department.	1943-1965	1
17-01.	Roadway Buildings, regarding Signal Maintainer's Cottages, Hand Car Houses, and Planting Trees at Section Houses.	1956-1968	1
17-03.	Aluminum Use in Buildings, etc.	1957-1968	1
18-6.	Engineer Water Service: General.	1965-1970	1
18-14.	Wells: Water Supply, Well Drillers, Misc.: General,	1942-1970	1
18-16.	Water Tanks: General.	1953-1966	1
18-18.	Well Drilling Outfit: General.	1958	1
18-25.	Drinking Water: Concrete Cisterns at Section Headquarters for storing drinking water.	1956-1969	
18-25-01.	Water Containers on motor cars: General.	1954-1964	1
19-02.	Fuel Oil Stations: General.	1956-1970	1
19-09.	Diesel Fuel Oil Storage.	1957-1969	1
20-02.	Power Houses: General (includes Table of Energy use of various locations).	1952-1967	1
20-05.	Engine Houses: General.	1955-1967	1
20-06.	Engine Terminals.	1943-1967	1
20-13.	Sand Houses, Sand Tanks, and Sand Pipes.	1948-1965	1
21-01.	Grain Elevators: General.	1952-1964	1
26-01.	Communications.	1967-1970	2
26-03.	Radios with Work Equipment.	1960-1968	1
26-4.	Communications: "Walkie-Talkies".	1956-1969	1
26-5.	Radar.	1966	
26-6.	Communications Technicians.	1959-1969	

CHIEF ENGINEER  
 Subject Files #1-477  
 File Inventory

10.

File no.	Title	Date Span	No. Polders
26-7.	Mobile Radio Telephones.	1967	1
26-8.	Architectural, Electrical and Mechanical Draftsmen (pay scales by classes).	1967-1969	1
27-05.	Signal Department: Misc. Reports.	1961-1970	1
27-07.	Interlocking: Miscellaneous (see file 564).	1949-1970	1
27-08.	Signal Department.	1957-1970	2
27-09.	Train Order Signals, Train Order Stands: Signal Study for G.N. Ry. Co. between Mpls. and Breckenridge.	1952-1964	2
27-10.	Block Signals: General.	1937-1968	1
27-11.	Signal Book of Rules.	1967	1
27-15.	Microwave.	1960-1968	1
31-01.	Electrical Development: Misc.	1958-1969	1
31-02.	Rural Electrification.	1951-1962	1
32.	Pipe Lines: Portal Pipe Line Co.	1962-1970	1
32-1.	Contract Documents for Pipe Line Construction.	1962	2
34-1.	License for Electricians, Pipefitters, etc.	1964-1969	1
37-2.	Tie Adzing and Boring Machines: General.	1951-1965	1
37-3.	Roadway Machines: General.	1966-1969	2
38.	Dragline Equipment Detector.	1936-1970	1
38-04.	Track Tools: General.	1959-1970	1
38-5.	Track Jacks: General.	1954-1966	1
38-6.	Nordberg Power Track Jack.	1959-1966	1
38-8.	Tie Tamping Machines: General.	1942-1965	1
38-9.	Trackliners: General (Track-kleeners).	1957-1970	1
38-10.	Gasoline Hammers, Drop Hammer Block: General.	1959-1962	1
38-11.	Kershaw Manufacturing Co.	1961-1969	1
39-01.	Assessments: Paving, Public Improvements, non-productive work.	1942-1968	1

CHIEF ENGINEER  
 Subject Files #1-477  
 File Inventory

File no.	Title	Date Span	No. Folders
51-01.	Locomotives: General.	1955-1970	1
51-02.	Gasoline Locomotives.	1957-1968	1
74-01.	Stationery Printing Forms.	1963-1970	1
74-1.	Analysis of Engineering Dept. standard forms by Nutter and Hazen.	1963-1969	
74-2.	Requisitions, Purchase Orders, Sale Orders.	1968-1970	2
75-01.	Taxes: Withholding, Sales, etc.	1958-1970	1
80-01.	Railway Grade Crossings: General and temporary Crossings.	1958-1969	1
81-01.	Stockyards: Miscellaneous.	1953-1968	1
81-02.	Stockyard Scales.	1956-1965	1
82.	Weekly Railway Operating Revenues.	1965-1969	2
82-01.	Annual Station Earnings.	1965-1969	1
83.	Cascade Division Curve Status.	1955-1952	2
83-01.	Curves, Grades, Elevations: General.	1959-1968	2
83-02.	Elevations and Bench Marks.	1967-1969	1
83-03.	Speed Zones.	1957-1970	1
85-06.	Applications for Employment: Instruction.	1962-1970	3
85-6-A.	Survey of Employment Interviews.	1970	1
85-7.	Employees Physical Examinations.	1963-1970	1
86-02.	Track Scales: General.	1963-1969	3
87-04-01.	Distributions: Instructions Letters.	1959-1969	1
88-1.	Track Drills: General.	1959-1965	1
89-07.	Expense Vouchers.	1959-1967	1
89-07-1.	Expense Accounts.	1959-1968	1
90.	Equipment and Machinery: Numbering, Rental.	1949-1969	1
91-01.	Canada: Government Maps and Reports.	1912-1956	1
91-05.	Canada: Immigration Act, Immigration Laws.	1909-1940	
91-06.	Canada: Inquiries Regarding Proposed New Lines of Railway.	1906-1935	
91-07.	Canadian National Railways: Study of The C.N. Engineering Function.	1966	
93.	Dredging: General.	1913-1969	

CHIEF ENGINEER  
 Subject Files #1-477  
 File Inventory

12.

File no.	Title	Date Span	No. Folders
95.	Side Track Agreements.	1951-1969	1
96.	Dynamite, Explosives, Powder Blasting, and Torpedoes (Presplit- ting method of blasting; Dupont phamplets).	1952-1969	
96-01.	Safe Handling of Explosives: Dupont classes.	1962-1970	1
98-1.	Oil: General.	1958-1969	1
98-2.	Gasoline and Oil Storage.	1961-1969	1
98-3.	Oiling Joints, Track Fastenings, Rail.	1954-1957	1
98-4.	Creosote, Petroleum and Zinc Chloride oils: General.	1957-1970	
98-5.	Use of Cresoil & Creosote as a wood preserver (Protek) .	1959-1966	
98-06.	Oil Fields, Oil Wells, Gas Wells: General.	1959-1969	1
99-2.	Estimates: General.	1967-1970	1
100-01-01.	Authorities for Expenditures: Accounting Instructions, etc.	1963-1970	1
100-02.	Authorities for Expenditures: Method of Handling.	1956-1969	
100-03.	Authorities for Expenditure: Preparation.	1959-1969	
100-06.	Authorities for Expenditure: State Report.	1965-1970	2
100-27.	Authorities for Expenditure: Over Runs.	1957-1970	
100-28.	Authorities for Expenditure: Instructions Letters: Moving Div. Accounting Offices.	1957-1969	1
100-29.	Authorities for Expenditure: RFA instructions (New RFA Form 2717).	1959-1969 1963-1970	1 2
100-30.	Letters of Authority.		
102-01.	American Railway Bridge and Building Association.	1960-1969	
102-02.	Association of Railway and Electrical Engineers.	1958-1959	1
102-5.	American Society of Civil Engineers.	1961-1969	1
102-07.	American Railway Engineering Associa- tion.	1960-1969	1
102-7-1.	A.R.E.A. Committee #24: Education.	1956-1969	2

CHIEF ENGINEER  
 Subject Files 81-477  
 File Inventory

File no.	Title	Date Span	No. Folders
102-11.	Membership in various Organizations and Railway Associations: <b>Miscellaneous</b> and General.	1963-1970	1
102-12.	Association of American Railroads.	1967-1970	2
102-13.	American standards Association.	1967-1968	1
102-14-B.	American Railway Supervisors Association: Bulletins, Rosters.	1964-1970	
102-14-5.	Technicians: Testing of Applicants Procedure.	1955-1962	1
102-15.	Roadmasters and Maintenance of Way Association.	1961-1970	1
102-16.	A.R.E.A. and A.A.R.	1968-1970	2
102-16-1.	A.A.R.: Research Books and Papers.	1958-1970	3
102-18.	Brotherhood of Maintenance of Way Employee: Maintenance of Way Agreements.	1959-1970	
102-19.	Railway Engineering and Maintenance: Railway Age, Signal Engineer, "Cyclo- pedia".	1956-1969	1
102-21.	A.R.E.A. Committee No. 3: Ties.	1956-1969	1
102-22.	Northwest Maintenance of Way Club (Twin City).	1954-1961	
102-23.	Association of American Railroads: A.R.E.A. Committee 5: Track.	1967	
102-24.	A.R.E.A. Sub-Committee 10, Committee 4: Rail, Angle Bars.	1960-1969	1
102-25.	A.R.E.A.: Committee 16.	1958-1970	1
102-26.	A.R.E.A.: Committee 6.	1956-1969	1
102-28.	American Right of Way Association.	1961-1967	1
102-30.	American Management Association.	1965-1968	1
104.	Annual Report: General.	1956-1970	2
104-2.	Annual Report to Stockholders.	1961-1969	1
105.	Automobiles: General.	1961-1970	3
105-01.	Buses and Trucks: General.	1955-1970	1
105-02.	Automobiles: Private Automobiles Used on Company Business.	1963-1967	1
105-03.	Automobiles: Rail.	1957-1968	1
105-04.	Truck Type Detector Car.	1962-1968	4

CHIEF ENGINEER  
 Subject Files #1-477  
 File Inventory

File no.	Title	Date Span	No. Folders
105-05.	Rules Governing Operation of Company and Privately Owned Highway Vehicles.	1955-1970	1
106-01.	Accounting.	1960-1970	4
106-03.	Mechanization of Stock Accounting.	1958-1969	
106-4.	Recommendations for Improving Accounting.	1965	
106-5.	Methods to Handle on Computers (Accounting Department Data Processing Center Reproduction Services).	1969-1970	1
106-6.	Transportation of Company Material.	1966-1969	1
108.	Addresses: Various Parties.	1960-1969	1
109.	Architects' Office.	1946-1968	1
114.	California Laws: Miscellaneous Matters.	1933-1970	2
114-1.	California: Flood Control.	1965-1966	1
114-2.	File out of order (see Box #59).		
115.	Brick.	1948-1953	1
116.	Bumping Posts, Car Stops.	1954-1969	1
117.	Buildings: Miscellaneous (Plumbing, Lockers, Custom Quarters, Telephone Booths).	1956-1970	1
121.	Scaffolding, Ladders, Staging.	1957-1964	1
128.	Heating Plants: Radiators.	1960-1969	1
129.	Disposition of Company Buildings.	1969	1
130.	British Columbia: General File (Poll Tax).	1957-1968	
131.	Associated British and Irish Railways; International Railway Congress Association at Berlin and Paris; Japanese government Railways; Norwegian Railways.	1946-1968	1
133.	Budget: General File.	1961-1970	1
134.	Public Works Association: Loan and Work Program.	1934	1
134-01.	Bills: Handling, etc. (Force Account).	1960-1969	1
135.	Camps, Boarding Camps, Industrial Camps; Minnesota Rules and Regulations.	1916-1969	
136-01.	Bonding Companies, Surety Bonds: General.	1959-1970	

CHIEF ENGINEER  
 Subject Files #1-477  
 File Inventory

15.

File no.	Title	Date Span	No. Folders
136-03.	U.S. Savings Bonds and Stamps.	1963-1969	1
138.	Blueprint Machines.	1965-1968	1
142.	Code of Organization.	1913-1968	2
142-1.	Code of Organization, Laws Constituting Charter Amendments, By Laws.	1956-1959	1
144.	Advertising: Calendars, Construction Dept., Railroad Week, General.	1966-1969	1
144-01.	Flood Lights and Flood Light Towers.	1949-1960	1
145-01.	Clearances: North Dakota.	1947-1966	1
145-02.	Clearances: Minnesota.	1939-1969	1
145-03.	Clearances and Load Limits: General.	1962-1969	4
145-04.	Clearances: Canada.	1942-1968	1
145-05.	Clearances: Washington.	1930-1969	1
145-06.	Clearances: Wisconsin.	1927-1965	1
145-07.	Clearances: Oregon.	1934-1961	1
145-08.	Clearances: Iowa.	1935-1966	1
145-09.	Clearances: South Dakota.	1935-1963	1
145-10.	Clearances: California.	1946-1968	1
145-11.	Clearances: Idaho.	1951-1955	1
145-12.	Clearances: Montana	1956-1968	1
149-02.	Refunds: Moving Household Furniture.	1960-1969	2
149-03.	Relief Claims.	1959-1961	1
149-04.	Claims: Miscellaneous (including Claims re noise, vibration, and house damage due to humping cars).	1956-1970	1
152.	Office Machines: Various types.	1956-1969	1
152-1.	Xerox Corporation.	1962-1970	1
153.	Status Reports.	1968-1970	2
154.	Catalogs: Miscellaneous Correspondence.	1965-1969	1
156-01.	Cement, Concrete, Concrete Mixers: General.	1945-1970	1
158-01.	Contractors: Names of Contractors. Bidding on Jobs.	1964-1968	3

CHIEF ENGINEER  
 Subject Files 81-477  
 File Inventory

File no.	Title	Date Span	No. Folders
160-01.	Contraats: General.	1957-1970	2
160-02.	Contracts: Requests.	1967-1970	1
161.	Conferences, Conventions, Seminars.	1961-1970	4
161-01.	AAR & ARF Seminar on Research and Nation's Railroads.	1961-1968	
161-02.	Japanese Railway Convention at Tokyo; Washington D.C. meeting reviewing studies of Tokyo meeting.	1963-1964	2
161-5.	Staff Meetings.	1969	1
162-02.	Railway Age, Railway Journals, Information furnished to above.	1960-1967	
163-1.	Personnel Matters (Harvard Univ. Advanced Mgm't Program, etc.).	1960-1970	2
163-02.	Chief Engineer's Office: Drafting Room.	1960-1969	
163-04.	Chief Engineer's Office: Miscellan- eous.	1963-1970	
163-05.	Chief Engineer's Office Force: Payroll forecasts.	1959-1970	1
163-06.	Payrolls: Fxpenses, Accounts.	1955-1970	1
163-07.	Hours of Work; Government Control; Office Hours; Overtime; Pay Change for Chief Clerks.	1958-1970	1
163-07-15.	Pay Adjustments for Clerks, Technicians, Exempt Employees.	1956-1967	
163-10.	Employees: Performing Outstanding Deeds and Suggestions.	1955-1970	
163-11.	"Harvest Years": Magazine for Re- tirement.	1965	1
165-01.	Force Increase: Eastern District.	1966-1969	1
165-02.	Force Increase: Valuation Division.	1958-1963	1
165-03.	Force Increase: Western District.	1958-1968	1
165-06.	Force Increase: Bridge Engineer's Office.	1957-1963	1
165-07.	Force Increase: Authorized Force.	1962-1970	2

CHIEF ENGINEER  
 Subject Files #1-477  
 File Inventory

17.

File no.	Title	Date Span	No. Folders
165-09.	Force Increase: Architect Office.	1957-1960	1
165-11.	Force Increase: Track Department.	1968	1
165-12.	Force Increase: Electrical Engineer.	1959-1970	1
165-12-1.	Electrical and Mechanical Engineers' Force.	1958-1969	1
165-13.	Pipe fitters and Steamfitters; Pipe Gangs(including Investigation of fight at Dale St. Shops).	1958-1970	1
165-15.	Force Requisition: General.	1963-1970	5
167.	U.S. Forest Service: Minnesota and North Dakota (Resources Development Commission).	1952-1966	1
168.	Freight Rates: Increase.	1956-1968	1
169.	Fire Extinguishers.	1958-1968	1
170-1.	Track Wrenches: General.	1949-1965	1
170-2.	Snap-on Tools Corporation: Track Wrenches (Test).	1959-1966	1
176.	Fire Losses; Insurance; Fire Protection.	1960-1970	1
177.	Records: Instructions to Engineers on Construction; Permanent Records; Final Records; Surveys.	1965-1969	1
177-01.	Reconnaissance: Old Miscellaneous Reports on Various Surveys (includes Explorer's Report of Red Lake).	1890-1949	1
177-3.	Instructions: General and Policies.	1966-1969	1
179.	Circulars and Appointments.	1970	2
183.	Storage Tanks: Gasoline and Fuel Oil.	1962-1967	1
184.	Garnishments.	1922-1966	1
188.	Cranes and Derricks; Hoisting Machinery.	1949-1968	1
188-1.	Cranes.	1959-1968	1
188-2.	Steel Burro Crane; Rail Laying Machine: General.	1958-1961	1
190.	Handling of Invoices.	1943-1968	1
191.	Isthmian Canal: Panama Canal. (sale of Locomotives and cars used in Construction).	1913-1960	1
192.	GN Ry. Co: By-Laws; Incorporation Chart (includes letters from I.C.C. about Valuation Act).	1914-1957	1

CHIEF ENGINEER  
 Subject Files 81-477  
 File Inventory

File no.	Title	Date Span	No. Folders
192-01.	"Hillyard and G.N. Ry., 1892-1954": Newspaper Clipping (The Railroads of Wisconsin 1827-1937).	-1954	1
193.	State of Iowa - Statement of Tracks, Buildings.	1960-1969	1
193-01.	State of Iowa: General File (Iowa Laws).	1958-1969	1
194-09.	Instruments: Railign.	1947-1966	1
195.	Industry Sites: Leases.	1959-1970	1
195-1.	Permits: Specifications; Pipe Line Xings; Gas and Flammable; General.	1958-1970	1
196-1.	Train Order Boards.	1965	1
198.	Idaho: Buildings; Track; General; (Laws).	1956-1969	1
199-01.	Atomic Energy; Braden System of Track; Conveyers; Patents.	1925-1970	4
199-5.	Inventors' suggestions for new rail- way techniques (includes many letters from small inventors).	1944-1971	1
200.	Information for outside parties ("Bomb Storing Train"; "Radar Bomb Scoring Express Train").	1928-1970	2
201-01.	Maps: Montana.	1918-1967	1
201-02.	Maps: Miscellaneous.	1960-1970	4
201-03.	Maps: Right of Nay.	1961-1968	1
201-04.	Maps: British Columbia.	1931-1933	1
201-05.	Naps: Washington.	1961-1968	1
201-06.	Maps: Minnesota.	1961-1969	1
201-08.	Maps: Iowa.	1950-1966	1
201-10.	Maps: North Dakota.	1958-1967	1
201-12.	Maps: U.S. Government Publications.	1960-1968	1
201-16.	Maps: Twin Cities.	1959-1968	1
201-18.	Maps and Plans Furnished to Russian Ry. Delegation (no maps included).	1960	1
201-19.	U.S. Foreign Operations Administration; Turkish State Railway Administration; Officials reviewing American Railway Methods.	1954-1969	1

CHIEF ENGINEER  
 Subject Files #1-477  
 File Inventory

19.

File no.	Title	Date Span	No. Folders
201-20.	Aerial Surveys.	1955-1969	1
202-02.	Laws and Miscellaneous Matters: State of Montana.	1950-1969	2
202-03.	Mileage and Buildings.	1960-1969	1
203-2.	Minnesota Laws: Miscellaneous Matters.	1965-1971	4
203-04.	State of Minnesota: Drainage; Flood Control: Water Supply; Department of Conservation Rules and Regula- tions.	1939-1970	3
203-05.	Track Inspection Laws: Minnesota.	1958-1959	1
204-01.	North Dakota: Miscellaneous Laws.	1949-1969	3
204-02.	Mileage Statement; Main & Side Tracks: North Dakota.	1958-1969	1
204-03.	Connecting Tracks; Interchange Tracks.	1942-1960	1
205.	Oregon: General (Laws of Oregon).	1937-1969	1
205-02.	Oregon: Mileage; Buildings.	1954-1969	1
206-01.	Operating Statements: Correspon- dence.	1959-1967	1
206-02.	Monthly Reports of G.N. Revenues and Expenses.	1964-1970	1
206-03.	Revenues and Expenses: G.N., N.P., C.B. & Q, Milwaukee.	1962-1969	1
206-04.	Revenues and Expenses of Class I Railways: A.A.R. Report.	1960-1969	1
207.	Official List; Station List.	1959-1970	1
207-02.	Official List of Subsidiary Companies.	1940-1968	1
207-03.	Division Limits.	1962-1967	1
208.	Oil Tanks: General.	1960-1968	1
209.	Organization; Rates of Pay; Rates of Pay for Officials in Eng. Dept.	1958-1969	1
209-01.	Rates of Pay: Track Department.	1965	1
209-02.	Divisional Table of Organization (Chart).	1967	1
210.	Nails; Rivets; Screws.	1969	1
211.	Nut Locks and Washers: General.	1963-1968	1

CHIEF ENGINEER  
 Subject Files #1-477  
 File Inventory

20.

File no.	Title	Date Span	No. Folders
212.	Minneapolis and St. Louis Railway Co.	1934-1962	1
213.	New Lines: Suggestions and Inquiries Regarding.		
213-01.	Pacific Great Eastern Railway.	1942-1961	1
214.	Bridge and Culvert Numbering Signs; Stream Name Signs; Mileboards; etc.	1954-1968	1
215-01.	Material Account: Use of S.H. and Surplus Material.	1956-1970	1
215-01-1.	Material Stock Reports.	1957-1963	1
215-02.	Material: Critical and Emergency Material; Surplus Material wanted by Government; Construction Material.	1951-1952	1
215-03.	Material Reallocation Committee; Scrap Committee; List of Track Tools for Section Foreman.	1959-1970	1
215-3-1.	System Material: Stock Report.	1967-1970	2
216.	Niscellaneous Material Requisitions.	1970	1
216-03.	Thefts: Material taken or stolen from Right of Way.	1954-1970	1
216-06.	Bridge and Culvert Work Sheet: Material and Paint Material.	1953-1968	1
216-07.	Inventory of Stock of Material: General.	1954-1969	2
216-8.	Material: General.	1934-1970	2
216-09.	Material Catalog for Track Forces.	1969-1970	1
216-10.	Comparative Statement Showing Value of Material on Hand.	1956-1969	1
217.	General Gold Bond Mortgage.	1951-1961	1
217-02.	Government Loan: Reconstruction Finance Corp.	1936-1945	3
218.	Waterproqfing: General.	1952-1968	1
220.	Switch Stands; Switch Lamps.	1954-1969	2
221.	Kaslo and Slocan Railway (sale by G.N.)	1958	1
224.	Brotherhood of Railway and Steamship Clerks: Rosters: Seniority; Labor Unions; Correspondence.	1961-1970	1

CHIEF ENGINEER  
 Subject Files 61-477  
 File Inventory

21.

File no.	Title	Date Span	No. Folders
224-01.	Bulletins: Shipments of Labor to Various Jobs.	1965-1967	1
224-02.	Labor: General.	1960-1969	4
224-3.	Labor: Student Summer Employment.	1966-1968	2
224-04.	Extra Gang Reports.	1958-1970	1
224-04-1.	Extra Gang: General.	1954-1967	1
224-05.	Prospective Student Officers.	1957-1970	1
224-06.	Rosters: Section Foremen; Laborers; Machine Operators; Track Inspectors; Welding Gangs.	1961-1969	2
224-7.	Bulletins: Ditcher; Pile Driver; Steam Shovel; Engineers; Crane Operators.	1965-1970	1
224-08.	District Steel Relaying Gangs.	1960-1969	1
224-09.	Supervisor of Work Equipment.	1953	1
224-10.	Bridge and Building Forces: Bulletins.	1959-1970	1
224-11.	Steel Relay Gangs.	1961-1969	1
224-12.	Training Program for Maintenance of Way Employees.	1961-1969	1
224-13.	Organization for Division Mechanized Tie Renewal Gangs and Smoothing Gangs.	1962-1970	1
224-14.	Federal Aid Projects: Wages Paid Railroad Employees.	1955-1965	1
224-15.	Bulletins: Lines Nest Clerical Bulletins.	1963-1970	1
224-16.	Labor for Taconite Pellet Handling Facility.	1966	1
226.	Mail Handling.	1955-1970	1
228-09.	Mileage: Miscellaneous Papers.	1965-1970	3
228-10.	G.N. System Mileage.	1921-1968	1
229.	Maintenance of Way Structures: Cost of Operation.	1952-1969	1
229-01.	Freight Train Tonnage Rating - Density Chart - Operating Characteristics of G.N. & N.P. Rys.	1955-1960	1
229-2.	Estimates of Maintenance of Way Expenses,	1964-1969	1

CHIEF ENGINEER  
 Subject Files #1-477  
 File Inventory

22.

File no.	Title	Date Span	No. Folders
229-03.	Maintenance of Way and Structures Expenses: General.	1957-1969	1
230-01.	Electric Short Line Terminal Railway; Minnesota Western Railway.	1954-1957	1
232.	Mail Cranes.	1927-1966	1
235.	Sign Berms; Hand Car Rest; Mounds; Rail Blocks; Rail Rests.	1943-1964	
240-07.	Pipe: Corrugated; Galvanized.	1926-1959	1
240-10.	Pipe: Cast Iron.	1928-1968	1
240-12.	Pipe: Miscellaneous Papers.	1944-1966	1
241-04.	Concrete Products, Plants.	1926-1948	1
243.	Right of Way: <sup>e</sup> Encroachments.	1965-1968	1
244-01.	Paint: General.	1924-1967	1
244-12.	Building Paint Program: General.	1966-1969	1
244-14.	Decals; Insignia.	1964	1
245.	Military Preparedness; Civil Defense.	1952-1967	1
245-01.	Draft; Selective Service; Employees Drafted for U.S. Army.	1951-1967	1
245-02.	United Fund of St. Paul; Red Cross; Community Chest; Blood Donations.	1968-1969	1
245-04.	Side Track Study for Mobile Minuteman Units.	1959-1966	2
245-5.	Missile Bases; Strategic Air Command.	1964-1970	1
246.	Private Cars.	1956-1970	1
247.	Passenger Trains: President Franklin D. Roosevelt's Special Train (1934); Train Resistance.	1963-1969	1
247-01.	"Red River" Train Tests; Other Trains.	1950	1
247-02.	Freight Trains: General.	1951-1968	3
247-3.	Centralized Traffic Control.	1956-1969	1
247-3.	General Railway Signal Co.: Centralized Traffic Control.	1958	1
247-04.	Traffic Counters (For Highway Use).	1962-1967	1
247-5.	Economics of High Speed Train: Van- couver, B.C. to Seattle to Portland.	1965-1969	1
249-01.	Marine Borers: Effects of Rock Boring Mollusks on Concrete Piling and Piers.	1951-1970	1
249-02.	Piling: Creosoted.	1951	1

CHIEF ENGINEER  
 Subject Files #1-477  
 Pile Inventory

File no.	Title	Date Span	No. 'Folders
249-03.	Piling: Concrete & Steel (Poles)..	1953-1970	1
249-04.	Piling and Timber Specifications: Creosoted.	1944-1969	1
250.	Photographs.	1952-1965	1
251.	Baggage, Passenger, and Express Shipments,	1923-1970	1
253-01.	Book of Standards.	1950-1969	1
253-02.	General Plans.	1962-1970	2
256-01.	Price List.	1961-1970	1
256-02.	Ramapo-Ajax Price List o r Track Material.	1957	1
257.	Profiles.	19-60-1970	1
257-01.	Curve Number Boards; Elevation Tags; Center Pins,	1960-1964	
258.	Magazines, Boy Scouts and Explorers: Publications; Public Service.	1963-1970	
258-01.	Modern Railroads Magazine: Informa- tion,	1956-1968	1
258-02.	G.N. Newsletter: "Taking It Over",	1965-1966	1
258-3.	Newsletter: Supervisory.	1965-1970	1
258-5.	Public Relations Department.	1965-1970	1
259.	Toilets: Privies.	1959-1962	1
260.	Railroad Retirement Tax.	1956-1970	1
260-A.	Unemployment Insurance: Nat'l. Ry, Pension System (Individual Cases),	1966-1969	1
260-02.	Unemployment Insurance: Minnesota,	1938-1967	1
260-03.	G.N. Pension System.	1970.	1
261.	Personnel Records: Correspondence; Recommendation.	1952-1970	1
261-A.	25-Year Service Award (Pins).	1970	1
261-01.	Personnel Department: Communica- tions with employees.	1966-1967	1
261-2.	Great Northern Retirement Pin.	1967-1970	1
262.	Accidents; Injuries; Safety First; Correspondence.	1964-1970.	
262-01.	Accidents: I.C.C. Inspection; Bureau of Railway Economists,	1949-1961	1
262-02.	Safety Shoes and Hats.	1953-1969	1
262-3.	Derailments and Accidents.	1970	2

CHIEF ENGINEER  
 Subject Files 81-477  
 File Inventory

File no.	Title	Date Span	No. Folders
262-04.	Investigation Reports: Employees.	1963-1969	
262-5.	Air Pollution.	1965-1970	
265.	Supply Companies: Request to supply Material.	1949-1970	1
270.	Requisitions Handling.	1955-1970	1
271.	Granite: Rip Rap; Quarry Output.	1962-1968	1
271-03.	Riprapping: Rock; Stone.	1956-1969	1
272.	Revenue Stamps; War Tax; War Revenue.	1942-1968	1
274.	Statements and Reports.	1952-1968	1
276.	Records: Destruction and Preservation.	1941-1970	
276-01.	Protection of Records and Files.	1961-1963	
276-02.	List of Records Stored in Old Building.	1923-1956	
278.	Strikes: Locomotive Trainmen's Demands.	1960-1970	
278-1.	Strikes: Shopcraft Strike, July 1967.	1966-1970	1
280.	Specifications: General.	1967-1969	1
281.	Winter Carnival; Ry. Club; G.N. Veterans' Association.	1956-1970	
282.	Assistant Chief Engineer's Office, Seattle.	1958-1964	
283.	S.P. & S. Ry. Co.; Oregon Trunk Ry.; Oregon Electric Ry.; United Railways Co.; Gales Creek and Wilson River R.R. Co.; Nehalem Boom Co.	1936-1969	
283-02.	Spokane, Coeur D'Alene & Palouse Ry.; Spokane and Inland Empire Ry.	1945-1961	1
283-05.	Oregon Electric Ry.: Power Contract.	1938-1970	1
283-06.	Proposed Relocation of S.P. & S. Ry. Co. because of McNary Dam.	1948	1
283-12.	Overhead Highway Crossing So. of Cheney, Wash.: S.P. & S. Ry.	1936	1
283-13.	Oregon Electric Ry. Co.: Grade Separation at Firlock.	1936	

CHIEF ENGINEER  
 Subject Files 81-477  
 File Inventory

25.

File no.	Title	Date Span	No. Folders
283-14.	Nehalem Boom Crossing at Linnton, Oregon.	1936	1
283-15.	Oregon Electric Ry. Undercrossing at Metzger; S.P. & S Ry. Br. at Marshall.	1936-1938	1
283-16.	S.P. & S. Ry.: Rock Slide, Cloudbursts, and Washouts near Snake River,	1938-1940	1
283-18.	S.P. & S. Ry.: AFE Correspondence.	1936-1945	1
283-22.	S.P. & S. Ry.: Thirty Year Relaying Program.	1954-1955	1
283-23.	S.P. & S. Ry.: Budget Papers.	1953	1
283-25.	S.P. & S. Ry.: Purchase of Scrap Material.	1965-1968	1
284.	Great Northern Oil Refinery: Inver Grove.	1954	1
285-01.	South Dakota: Statement of Mileage and Buildings.	1957-1968	1
285-02.	South Dakota: Miscellaneous; Laws.	1955-1970	1
286.	Safety; Rules; Studies; Awards; Pamphlets.	1956-1970	1
286-01.	Maintenance of Way Safety Committee.	1965-1970	1
289.	Terminals Milwaukee Road's First (Hump Yard).	1954-1969	1
289-01.	Hump Yards.	1962-1967	1
291.	State of Washington: General; Laws.	1935-1970	1
291-02.	State of Washington: Main and Side Track Mileage.	1959-1969	1
291-03.	State of Washington: Sales Tax; General Tax.	1959-1966	1
292.	State of Wisconsin: Laws; Misc. Matters.	1965-1970	1
292-1.	State of Wisconsin; Flood Control.	1959	1
294.	Chinese Government Railway in South China, Owned by Chin Gee Hee (Chief Engr. G.A. Kyle from G.N. Ry.); Chinese students.	1917-1948	1

CHIEF ENGINEER  
 Subject Files 81-477  
 File Inventory

26.

File No.	Title	Date Span	No. Folders
295.	Scales: Platforms.	1947-1968	1
297.	General File: Consulting Engineers; Engineering's Joint Council.	1959-1969	1
298.	Detour Contracts and Maps.	1962-1967	1
300.	Fences (Coal Piles, Shops, Round- houses).	1955-1965	1
301.	Insurance: General.	1953-1969	1
301-02.	Group Insurance.	1952-1969	1
301-04.	Minnesota Hospital Service Associa- tion.	1944-1960	1
305.	Airports: Rules on Air Travel.	1946-1969	1
305-1.	Helicopters: Information on Purchase.	1964-1967	1
305-2.	Airplanes.	1967-1970	1
311.	Station, Baggage, and Lift Trucks: General.	1950-1970	1
312.	Time Vouchers; Gratuity Vouchers.	1954-1963	1
313.	Track Shims; Braces; Spread Rods.	1966-1969	1
314.	Timber: General; Lumber Specifica- tions.	1964-1970	1
315-01.	Wood Preserving Process: General,	1949-1970	1
318-01.	Tell Tales; Overhead Obstructions.	1957-1966	1
319-01.	Typewriters: General.	1942-1968	1
320-01-01.	Notary Public.	1954-1969	1
320-02.	Valuation Department: Organization; Miscellaneous.	1927-1968	1
321-01.	Vancouver, Victoria and Easter Ry.: Miscellaneous.	1908-1959	1
322.	Pocket List of Railway Officials.	1966-1969	1
323.	Wheels; Hot Box Detectors.	1956-1970	1
323-01.	A.A.R. Recommendations.	1960-1961	1
324.	Wenatchee Canal System.	1916	1
325.	Weed Burners: Eradication of Needs.	1914-1970	3
325-1-66.	1966 Weed Control Program: Liquid.	1966	1
325-1-66-1.	1966 Weed Control Program: Dry Chemical.	1966	1
325-1-67.	1967 Weed Control Program: Liquid.	1967	1
325-1-67-1.	1967 Weed Control Program: Dry Chemical.	1967	1

CHIEF ENGINEER  
 Subject Files #1-477  
 File Inventory

27.

File no.	Title	Date Span	No. Folders
325-1-67-2.	1967 Weed Control Program: Spray and Tank Cars.	1967	1
325-1-67-3.	Daily Chemical Reports.	1967	1
325-1-B.	Chemical Weed Control Program: Advertisements; Routings.	1950-1958	2
325-1-63.	Chemical Weed Spray Daily Reports.	1963	1
325-1-65.	1965 Weed Control Program: Liquid.	1965	1
325-1-65-1.	1965 Weed Control Program: Dry Chemical.	1965	1
325-1-65-4.	1965 Weed Program: Chemical Spray Cars.	1965	1
325-1-65-3.	1965 Program: Daily Reports.	1965	1
325-1-66-3.	1966 Program: Daily Reports.	1966	1
325-1-66-2.	1966 Weed Control: Spray and Tank Cars.	1966	1
325-1-68-1.	1968 Weed Control Program: Dry Chemical.	1968	1
325-1-68.	1968 Weed Control Program: Liquid.	1968	1
325-1-68-3.	1968 Daily Reports.	1968	1
325-1-69-3.	1969 Daily Reports.	1969	1
325-2.	Chemical Brush Killer: General.	1958-1970	2
325-3.	Chemical Weed Program: Horsetail Rush.	1953-1968	1
325-4.	Weed Control: Chemical Tests.	1957-1967	2
327.	Weather Reports (including War time Regulations).	1917-1970	2
329.	Demurrage.	1913-1960	2
330-01.	Annual Passes: Instructions.	1958-1970	3
330-03.	Gold and Silver Annual Passes.	1959-1970	1
332.	Trains.	1961-1970	1
334.	Glacier Park Co., Somers Lbr. Division; General.	1916-1970	2
334-01.	Somers Lbr. Co.: Tally Lake Irrigation Dist.	1920-1943	1
335.	Port Angeles Project.	1912-1913	1
341.	Jury Duty; Leave of Absence; National Guard; Vacations; Sick Leave.	1951-1970	

CHIEF ENGINEER  
 Subject Files #1-477  
 File Inventory

File no.	Title	Date Span	No. Folders
346.	Time Cards; Track Charts.	1928-1967	3
348-01.	Transportation Act of 1958.	1958-1969	1
348-02.	National Industrial Recovery Act.	1933	1
348-03.	Railway Labor Act: Labor Laws.	1942-1969	1
350.	Consolidation of Railways: General (Includes 1927 Plan for N.P. - G.N.- SP&S. - CB&Q.)	1918-1966	
350-01.	Consolidation of Railways: Feasibility of Abandoning Certain Lines on N.P., Milwaukee Road, and GN.	1922-1961	1
351.	Boilers: General File.	1954-1970	1
353.	J.J. Hill Reference Library.	1917-1967	1
354.	Inspection and Test of Various Materials.	1940-1970	1
354-02.	Welding Instruction School.	1947-1968	2
354-3.	Welding Equipment: Electric; General.	1955-1970	
354-4.	District and Electric Welding Bulletins.	1959-1969	
354-5.	Electric Welding Costs: Dakota Division.	1959-1964	
354-5-1.	Electric Welding Costs: By Division.	1968-1970	
354-5-2.	Electric Welding Costs: Willmar Division.	1959-1960	
354-5-3.	Electric Welding Costs: Minot Division.	1959-1962	
354-5-4.	Electric Welding Costs: Cascade Division.	1959-1961	
354-5-5.	Electric Welding Costs: Butte Division.	1959-1967	1
354-5-6.	Electric Welding Costs: Klamath Division.	1960	
354-5-7.	Electric Welding Costs: Kalispell Division.	1959-1961	1
354-6.	Personal Record Information: District Electric Welding Gangs.	1952-1968	
354-7.	Track Welders: General.	1940-1970	

CHIEF ENGINEER  
 Subject Files 81-477  
 File Inventory

File no.	Title	Date Span	No. Folders
354-8.	Battered Joint Welding: General.	1946-1969	1
354-09.	Personnel Instructed in Safety of Welding.	1962-1969	1
354-10.	NAPP Industrial Gas Tests.	1966-1966	1
354-12.	Flags for Test Purpose: Reflectorized.	1964-1967	1
354-14.	Test of Texaco Curve Grease.	1968-1969	1
354-15.	Test of Shunts.	1968-1969	1
356.	Seeding of Embankments.	1957-1958	1
357.	Oregon: United Railways.	1936	1
360.	Fire Losses.	1958-1970	1
362.	Capital Expenditure Program: General.	1963-1970	2
362-1967-5-9.	Capital Expenditure Program.	1965-1967	1
362-1967-8-7.	Capital Expenditure Program.	1965-1967	1
362-1965.	Capital Expenditure Program: General.	1964-1965	1
362-1966.	Capital Expenditure Program: General.	1965-1966	1
362-1967-5-47.	Capital Expenditure Program.	1967	1
362-1967-6-90.	Capital Expenditure Program.	1966-1967	1
362-1967-6-12.	Capital Expenditure Program.	1966-1968	1
362-1967-7-6.	Scenic to Skykamish: Ballast.	1966-1967	1
362-1967-7-10.	Interbay Yard: Bridge 7-10.	1966-1968	3
362-1967.	Capital Expenditure Program.	1966-1968	1
362-1968.	Interbay Yard: Phase "B".	1966-1968	1
362-1968.	Capital Expenditure Program.	1967-1968	1
362-1969.	Capital Expenditure Program.	1968-1969	1
362-1970.	Capital Expenditure Program.	1969-1970	1
363.	Pile Drivers and Driving.	1957-1970	1
363-01.	Pile Drivers: General.	1959-1969	1
363-02.	Pile Driver X-1851.	1957-1959	1
364.	Donations.	1963-1970	1
365.	Laws: Clayton Act.	1960-1968	1
365-01.	Laws: General.	1922-1970	2
366.	Educational Program.	1954-1970	2
366-01.	Federation of Railway Progress.	1956-1968	1
366-02.	Railway Systems and Management Association.	1960-1970	

CHIEF ENGINEER  
 Subject Files #1-477  
 File Inventory

File no.	Title	Date Span	No. Folders
366-03.	G.N. Scholarship Program.	1955-1969	1
370.	Western Fruit Express: General; Icing Facilities.	1959-1965	1
371.	Roadway Machine Repairs.	1963-1970	1
372.	Test of Sulphite Liquor: Dakota Division.	1955-1962	1
373.	Boarding Outfits.	1949-1969	1
374.	Daily Reports of Work Trains and Equipment.	1967-1970	2
375.	Steel Bridge Erecting Crews.	1954-1970	1
376.	Ballast Cars: Wedge Plows.	1957-1970	1
377.	Freight Cars; Box Cars.	1938-1970	1
377-3.	Hopper Cars.	1965-1969	1
378.	Ballast Drainage Cars; Ballast Shoulder Shapers; General.	1955-1956	1
379.	Brooms: Snow, Track.	1956-1965	1
382.	Rail & Ballast Charts and Plans.	1957-1965	1
383.	Motor Cars: General.	1954-1969	1
383-01.	Repairs to Section Motor Cars: General.	1943-1969	1
383-2.	Motor Car Trailers: General.	1956	1
384.	Instructions: Inspection and Main- tenance of Track Cars: General.	1954-1966	1
384-1.	Track Motor Cars: Inspection Cars.	1957-1960	1
385.	Motor Cars: Sheffield, F.M. Co.: General.	1941-1953	
386.	Northwestern Motor Co.: General, Case, Jones Engine & Motor Cars.	1955	1
387.	Wooley Motor Cars: General.	1949-1950	1
388.	Middle of Month Count of Men on Maintenance of Way and Signal Work.	1967-1970	2
389.	Hy-Rail Cars: Fairmont, Buick.	1954-1970	1
389-1.	Fairmont Motor Cars: Part III.	1952-1968	1
390.	Motor Car Wheels, Wheel Silencers, Test of Motor Car Wheels: General.	1942-1959	
391.	System Roadway Equipment Repair Shop, Superior, Wis.	1963-1970	

CHIEF ENGINEER  
 Subject Files 81-477  
 File Inventory

31,

File no.	Title	Date Span	No. Folders
391-1.	System Equipment Repair Shop: Seniority Rosters, Bulletins.	1963-1970	
392.	Scrapping Motor Cars, Hand Cars, Push Cars, Motor Car Bodies: General.	1958-1965	
393.	Motor Car Windshields & Canopies, Track Motor Car Bill.	1952-1967	
394.	Cable, Wire Rope: General.	1940-1969	
395.	Hand and Push Cars: General.	1959-1969	
396.	Derailments and Accidents.	1952-1970	
397.	Railroad Accident Investigation Reports.	1965-1970	5
398.	Flame Lubricators, Oilers.	1960-1969	1
398-1.	Meco Flange Oilers, Lubricators.	1950-1965	1
399.	Estimated Count of Employees by Department.	1969-1970	1
400.	Statements: Comparative Analysis of Payrolls by Departments.	1964-1969	1
401.	Monthly Comparitive Statements of Authorized Force and Payrolls as Authorized and Expenses.	1959-1970	1
402.	Corrosion: National Association of Corrosion Engineers.	1956-1964	1
403-1.	Work Equipment: General.	1960-1970	3
403-2.	Locomotive Crane X9100-X9101.	1954-1961	1
403-3.	American Locomotive Cranes and Ditchers Nos. X1794-X1795.	1950-1969	1
403-4.	Industrial Gas Crane Crawler #X1798 and X1797.	1947-1958	1
403-5.	Marion Crane 8331, Crawler Crane #X1865.	1953-1964	1
403-6.	American Locomotive Diesel Crane #X1857.	1953-1958	1
403-7.	Diesel Crane #X1845.	1953-1960	1
403-8.	40 Ton Diesel Electric American Crane Nos. X1841 - X1803.	1950-1959	1
403-9.	40 Ton Locomotive Crane #X1842.	1959-1963	1
403-10.	Bucyrus-Erie Model 22-B Crane: R1808.	1959-1963	1
403-11.	40 Ton American Locomotive Crane #X1848.	1952-1959	1

CHIEF ENGINEER  
 Subject Files #1-477  
 File Inventory

File no.	Title	Date Span	No. Folders
403-12.	25 Ton Diesel Electric Locomotive Crane #X1840.	1953-1958	14
403-13.	40 Ton Combination Locomotive Crane and Pile Driver Full Circle No. X1817.	1952-1959	
403-14.	Locomotive Crane and Car Shakeout #X1844.	1949-1969	
404.	Sections: Rearrangement, Abandoned, Headquarters; General (see file #432).	1960-1969	
405.	St. Cloud Rail Cropping Plant: Daily Reports.	1966-1970	2
405-1.	St. Cloud Reclamation Yard.	1964-1970	1
406.	Flagging Rules: General File.	1955-1967	1
407.	Book of Rules: General.	1957-1969	1
407-01.	Book of Rules: General.	1962-1970	2
407-2.	AAR Code of Safety Rules.	1966-1970	1
408.	Tractors, Caterpillar Roadway Machines, Tractor Equipped Pile Driver.	1959-1970	1
408-1.	Tractors: Caterpillars.	1958-1965	1
408-1-A.	Caterpillar and Tractor Repairs.	1960-1968	1
408-3.	"Cat" Tractor Pool: Lines East and West.	1959-1963	
409.	Cylinder Demurrage Committee: Linde Air Products Co.	1966-1969	5
410.	Roadmasters: General.	1959-1969	1
410-1.	Roadmasters and Assistants: Eastern Dist.	1960-1967	
410-2.	Roadmasters and Assistants: Western Dist.	1951-1964	1
411.	Overtime Statements: Lines East.	1959-1969	1
411-1.	Overtime Statements: Lines Vest.	1959-1962	1
412.	Lighting Plants and Generators: Powerpak Unit: General.	1950-1968	
413.	Irons: "S" and "C" Anti-Splitting Tie IRons.	1954-1970	
414.	Track Conditions: Joint Testing: General.	1956-1965	

CHIEF ENGINEER  
 Subject Files #1-477  
 File Inventory

File no.	Title	Date Span	No. Folders
414-1.	Inspection of Lines by Chief Engineer.	1958-1970	
415.	Maintenance Work: General.	1960-1969	
416.	Grinding Wheels: Rail Jt.Grinders: General.	1961-1970	
417.	Outfit Cars.	1960-1970	1
417-1.	Outfit Cars and Work Equipment.	1949-1969	1
418.	Racor Studs.	1957-1959	1
419.	Ballast Cribbing Mechines, Ballast Routers, Tie Brushes.	1955-1969	1
420.	Air Dump Cars, Convento Dump Units: General.	1954-1969	
421.	Jordan Spreaders, Ballast Regulators, Kershaw Equipment: General.	1960-1970	
423.	Track Maintainers: Jackson.	1960-1966	
424.	Ballasting and Tamping Machines, Jackson Multi-Tamper, Pullman Ballaster: General.	1949-1970	
424-01.	Jackson Vibrators Inc.: School of Ludington.	1959-1970	
424-02.	Electromatic Tampers : Experimental Work.	1961-1969	1
425.	Trailers (Mobile Camp Unit): Photo.	1955-1967	1
427.	Turnouts: General File.	1961-1969	1
428.	Templates.	1961-1968	1
429.	Permalin Insulatal Joints and Rubber Abrasion Plates: Large Photos.	1958-1960	1
430.	Work Program.	1966-1970	2
430-1.	Surface Correction Recommendations.	1960-1968	1
430-2.	Ballast Sled Programs.	1960-1969	1
431.	Roadway Machines: General.	1965-1966	1
432.	Study of Maintenance of Way Practices.	1959-1969	1
432-01.	Maintenance of Way Practices: Expenditures and Associated Problems.	1963-1967	1
432-02.	Track Department Labor Activities Reporting System.	1969	

CHIEF ENGINEER  
 Subject Files 81-477  
 File Inventory

34.

File no.	Title	Date Span	No. Folders
433.	Ultrasonic Joint Testing Program: Sonirail, Audigage, Sperry Cars.	1961-1970	5
434.	Detector Car Operations on G.N. Ry. and N.P. Ry.: General.	1958-1972	
434-01.	Western Detector Car Advisory Committee.	1962-1970	1
435.	Test of Joint Lubricants.	1958-1965	1
436.	Explosive Hardening of Manganese Steel (Dummy sample of explosive).	1959-1969	
437.	Treating Rock Ballast with hot asphalt.	1957-1960	
438.	Magnets.	1959-1968	
439.	Chain Saws, Rail Saws, Tie Saws: General.	1959-1969	
440.	Track Thermometer.	1956-1967	
442.	Track Levels.	1960-1965	
443.	Telegraphic Relaying Reports.	1959	
445.	Instructions: Care and Maintenance of Maintenance of Nay.	1957	
446.	Spark Arrestors.	1958-1960	
447(67)4.	1967 Recommendations: Tie Plating.	1966-1968	
447(67)7.	1967 Recommendations: New Rail Anchors.	1966-1967	
447(67)8.	1967 Recommendations: Material.	1966-1967	
447(66)4.	1966 Recommendations: Tie Plating.	1965-1966	1
447(66)7.	1966 Recommendations: <del>New</del> Rail Anchors.	1965-1966	1
447(66)8.	1966 Recommendations: Material.	1965-1966	1
447(65)4.	1965 Recommendations: Tie Plating.	1965	1
447(65)7.	1965 Recommendations: New Rail Anchors.	1964-1965	1
447(65)8.	1965 Recommendations: Material.	1964-1965	1
447(64)4.	1964 Recommendations: Tie Plating.	1963-1964	1
447(64)7.	1964 Recommendations: <del>New</del> Rail Anchors.	1963-1964	1
447(64)8.	1964 Recommendations: Material.	1963-1964	1
447(64) 9.	1964 Recommendations: Rail and Angle Bars.	1963-1964	1

CHIEF ENGINEER  
 Subject Files 81-477  
 File Inventory

35.

File no.	Title	Date Span	No. Folders
447(63)4.	1963 Recommendations: Tie Plating.	1962-1963	1
447(63) 7.	1963 Recommendations: Rail Anchors.	1963	
447(63)8.	1963 Recommendations: Material.	1963	
447(63)9.	1963 Recommendations: Rail and Angle Bars.	1962-1963	1
448.	Metropolitan Planning Commission: Twin Cities.	1960-1967	
449.	Books Loaned from C.A. Pearson Library.	1962-1963	
450.	Horticulture: Planting and Buying of Flowers and Chrubs.	1962-1969	
451.	Diebold Research Program: "Impact of Information Technology on Railroad Operations".	1965	1
452.	Superior and Duluth Transfer Co.	1965	1
453.	Snow: General.	1966-1969	
457.	Railway Express Agency.	1966	1
458.	Reflective Markings.	1965-1967	1
459.	Retained Income.	1966-1970	1
460.	McKinsey and Company Studies.	1966-1968	1
461.	Car Movement Information System (Compass).	1966-1970	1
462.	Centralized Reservation Bureau.	1966-1967	1
463.	Program Profiles showing Relaying, Ballasting and Tie Renewal Programs.	1966-1970	
463-1.	Mesabi Range Maps: Correspondence re Corrections and Distribution.	1968-1970	1
464.	Transportation: General.	1967-1969	1
465.	Water Pollution (Maps).	1964-1978	2
466.	Board of Directors (GN Trade Mark History).	1967-1969	
467.	Identification System: Color, Symbols, Lettering.	1967	1
468.	U.S. Department of Commerce.	1967	1
471.	Test of Guard Rail.	1967-1968	1
472.	Credit Cards.	1968-1969	1
473.	National Cooperative Research Program.	1968	1
474.	Statement of Accounts.	1968-1969	1
475.	Track Material File.	1968-1970	

CHIEF ENGINEER  
Subject Files #1-477  
File Inventory

36.

<u>File no.</u>	<u>Title</u>	<u>Date Span</u>	<u>No. Folders</u>
476.	Administrative Cost Reduction.	1968-1970	1
477.	Washington, D.C.: Office Space.	1969	1
114-2.	California: Walkways and Vegetation Control (File out of order; should have been filed in Box 823).	1961-1963	2