Box 1:

Air, Steam, Water, Oil, Flow of, 1914-34
Air Conditioning, Air Washing, Humidifying, Cooling, Drying, 1907-32
Air Conditioning, 1924-34
Consulting Services
    Executive Office Building, 1909
    Columbia Hospital, 1912
    Keep House, 1908
    Mann House, 1910
    St. John's Church, 1913
    St. Martin's Church, 1911
    Sedgley House, 1913
    Southern Illinois State Normal University 1913-14
    Woodward and Lathrop, 1913
    Washington and Lee University
    Army Quartermaster, U.S. - Specifications, 1908-14
    Army Cantonment, Barracks Heaters, 1917-18
    Army Posts, Fort Sill and others, Quartermaster General, Correspondence, Charts,
        Photographs, 1912-17
    Blueprints, Tracings - Miscellaneous, 1908-27
    Blueprints, Tracings - Miscellaneous

Box 2:

Consulting Services
    Chicago Subway, blueprints, 1930
    Chicago Subway, Correspondence, 1931-32
    Chicago Subway, Correspondence relating to compensation for consulting service, 1930-32
    Congress - Ventilation of U.S. House & Senate Chambers, 1927-29
    Holland Tunnel, Report, 1920-21
        Printed Reports relating to, 1920-37
        Bound Reports, 1920-26
        Computations
    Photographs - TGI #3, 1921
    Holland Tunnel, TGI #3, correspondence, 1920-21, 1921, 1921-22
    Hudson Tunnel, Experimental Duct #3, 1921-24
    Holland Tunnel, TGI #4, correspondence, 1921
        TGI #4, correspondence & Blueprints, 1921-26

Box 3:

Consulting Services
    Photographs, TGI #3, 1922
    Tunnel Gas Investigation #5, Original MSS, 1923
    Holland Tunnel, Correspondence relating to TGI #5
        Report on ventilation tests for, Nov. 1921
        Blueprints of ventilation test results
Willard Papers St. Louis Subway General Plans

Goodenough's Notes, 1921-24
Goodenough's Notes on Fluid Dynamics - Holland Tunnel, 1921-23
Holland Tunnel, Correspondence, blueprints, reports, 1920-21
  Telegrams, 1920-22
  Duplicate Reports, 1921
  Time and Material, 1921-24
  Reports & Original test records; publications on Ventilation, 1922-25

Box 4:

Consulting Services
Holland Tunnel, Final Calculation Data - received from Mr. Freeman, 1/8/25
Holland Tunnel, Photographs (2 folders), 1923-27, 1924-27
  Photographic Plates, 1924-25
  Clippings, 1921-28
  Contracts
  Correspondence relating to compensation for consulting services, 1921-27
  Correspondence and related reports, 1924-38
Hudson Tunnel, Correspondence relating to providing consulting services in Midtown
Hudson Tunnel, October 11, 1931
Midtown Hudson Tunnel, Correspondence & Calculations, 1931-34
Hudson Tunnel, Reports and blueprints on ventilating calculations for, November 30, 1932
Midtown Hudson Tunnel, Reports on Ventilation Calculations, 1932
St. Louis Subway, blueprints, 1930-31
St. Louis Subway, Ventilation and North American Light and Power Company,
correspondence, 1931-32
Heat, Emission, Human body, 1924-33
  Losses from buildings, 1933-34

Box 5:

Heat, Losses, Buildings and insulating material, 1907-32
  Transmission of Building Materials, 1912-32
  Losses, Insulation and Weather Stripping, 1923-24
  Measurement and Physical Units
  Transmission, 1914
  Transmission and Direct Radiators, 1909-31
  Transmission, correspondence, reports, reprints of published material, 1912-32
  Exhaust stream, Vacuum Return Pumps, 1907-30
Heating, Central Station, 1907-30
  Commercial Preparation of Sodium Hypochlorite by the Electrolysis of Brine, 1904
  Draft and Chimneys, 1912-27
  Electric, 1907-28
  Fuel and Combustion, 1912-32
  Gravity Indirect, by steam and hot water, 1910-29

Box 6:

Heating, Hot Blast, 1913-33
Willard Papers St. Louis Subway General Plans

- Direct Hot Water, 1907-32
- Pipe fittings, Valves, coverings, 1907-33
- Radiant - Barker Proposals, 1931-32
- Seasonal Requirements, 1926-30
- Steam Boilers and Hot Water Heaters, 1910-29
- Direct Steam, 1907-27
- Test data, 1903-04
- Temperature and Humidity Control, 1926-33
- Utica Heater Company, 1920-22
- Ventilating, Air Conditioning - bibliographic materials, 1924-33
- Ventilating Codes (2 folders)
- Warm air furnace, 1907-29

Box 7:

- Heating Catalogues, Warm Air Furnace, ca. 1928
- Water, Steam and Air, papers relating to, 1900-33
- Plans & Specifications, preparation of - Cost of Equipment, 1913-28

Professional Associations

American Society of Heating and Ventilating Engineers
- Air Changes, 1932-33
- Air Conditions and Living Comfort, 1931-32
- Air Conditions and their Relation to Health, 1930
- Armour Institute, Cooperative Agreement with, 1931-32
- Atmospheric Dust and Air Cleaning Devices 1933
- Boilers, rating heating, 1928-29
- Chimney sizes, 1926
- Cleveland Exhibit, 1931-32
- Code of minimum requirements, 1924-31
- Comfort Chart, Special Committee on the, 1932
- Corrosion, 1932-33
- Council of the ASHVE, meetings of the, 1928-29
- Finance Committee, 1932
- Garage Ventilation Project, 1931-33
- Garage Ventilation, 1927-28
- Gas Heating Equipment, 1932
- Guide Book, 1928-30
- Guide, ASHVE - Special Committee, Chapter 3, 1933
- Heat Capacity, 1931
- Heat Transmission, 1931-32
- Heater Code Committee, Unit, 1928-29
- Infiltration of air into buildings, 1925-27
- National Research Council, 1931-33
- Nomenclature, Committee on , 1933-34
- Oil Burners, Investigation of by Prof. Sealy of Yale, 1932

Box 8:

American Society of Heating and Ventilating Engineers
Willard Papers St. Louis Subway General Plans

- Program Committee, 1930
- Projects, New, 1932-34
- Pip Sizes, 1931-33
- Publication Committee, 1925-27
- Publication Committee, 1928-30
- Radiation, 1926-29
- Research Committee, 1926-30
- Regulations governing the Research Committee, 1932
- Research Committee, 1933-34
- Research laboratory Project at Pittsburgh, 1931-33
- Research Program at Case Institute, 1933
- Sound in Heating and Ventilating, 1931-32
- Temperature Gradients in Large Room, paper by G.L. Larson, 1933
- Special Test on Cooling conducted by J.U. Walker, 1931-32
- Technical Advisory Committees, Appointments to, 1932-33
- Thermal Research, Correlation of, 1932
- Ventilation of automatic substations, 1924-27
- Ventilation Code for legislative purposes, 1926-31
- Ventilation Code, 1931-34
- Wind and weather conditions, effect of, 1929
- National Research Council, Committee on Heat transmission, 1924-31

Textbook, Harding-Willard, page proofs - Heating, Ventilating and Air Conditioning

Box 9:

Textbook, Harding-Willard, final proof with corrections for later printings, 1932
Textbook, Harding-Willard, Heating, Ventilating and Air Conditioning, material for future revision.

Ventilation, Air Analysis, Ventilation Law, 1919-33
University, Underground Ventilation, 1925
- Summer cooling tests, 1930-33
- Laboratory Course at University of Illinois, M.E. 37, 1915
- Correspondence, Reprints and Related Papers, 1911-22
- MSS and reprints, 1919-33
- MSS articles on home heating for Ladies Home Journal and Successful Farming, 1929-30


Scrapsbooks, University, Building Program at the University of Illinois, 1934-42
- Legislative Budget, 1935-37 biennium
- Statistical Material, 1937
- Printed papers and addresses, 1915, 1925-26, 1930-32, 1934-38, 1941-46

Box 10:

University, Notes and MSS of addresses (11 folders), 1933-41

Box 11:

University, Notes and MSS of Addresses (4 folders), 1942-47
A.A. Harding, 1948
Willard Papers St. Louis Subway General Plans

Christmas Cards, 1940
Enger folder, 1956
"University of Illinois Presidents I Have Known" by Albert R. Lee, 1942

Located in UAR 47-2

Oversized Miscellaneous Blueprints and Drawings (chronological)

Plumbing and heating plan for residence of J.R. Retsoff (5 tracings), 1907
Heating and ventilating plan for a residence (9 blueprints), 1909
Plan of executive offices, Washington, D.C. (3 blueprints), 1909
Ventilating plan for Grace Memorial Church (1 blueprint), 1911
Plan for Hospital at Fort Sill, Oklahoma (6 blueprints), 1911
Plan for Walter Reed Army Hospital (8 blueprints), 1912
Ventilating system for Woodward and Lathrop Cash Room, 1917
Central heating system - Recruit Depot - Angel Island, California, 1912
Heating system for Quartermaster Storehouse, Fort Banks, Mass., 1913
Ventilation plan for lecture room in University of Illinois Chemistry Building, 1914
Boiler House, Fort Monroe, Va., (3 blueprints), 1914
High School building, Mattoon, Ill. (5 blueprints), 1915
Specifications for Merchants Illinois National Bank, Peoria, 1915
Plans for Lincoln School, Rockford, Ill. (12 blueprints), 1915
Kitchen plan for Armory mess hall (1 blueprint, 1 drawing), 1918
Heating and ventilation system for University of Illinois Education building, 1919
Plans for grade and high school at Vermont, Ill. (1 blueprint), 1924
Chart indicating operating results for University of Illinois research residence, 1925
Heating and ventilating system of school at Wausau, Wis., 1928
Ventilating diagrams of U.S. House of Representatives Chamber (3 diagrams), 1929

Undated blueprints and drawings

Tracing of coal and ash handling machinery
Design of a tilting manometer
Floor plan of Champaign High School
Diagrams illustrating air flow through types of elbows in ventilating ducts (3)
Duct system for University of Illinois Armory
Plan for a model school building at Southern Illinois State Normal University, Carbondale, Illinois
Plans for dining hall at Washington and Lee University, Lexington, Va. (3 blueprints)
Plans for residence of Dr. L.T. Gregory, Urbana, Ill. (8 tracings)

Blueprints and Drawings by Subject

Holland Tunnel, approximately 40 blueprints and drawings
Chicago Subway, approximately 100 blueprints and drawings
St. Louis Subway, approximately 100 blueprints and drawings
Loft office Building, St. Louis, MO

Box 12: Chicago Subway Ventilation, 1930-32
Willard Papers St. Louis Subway General Plans

Slides - 23 Lantern slides on Ventilation studies showing equipment and results of tests made at Mechanical Engineering laboratory, 1930-32.

Chicago Subway Ventilation, No. 1, 1931
Draft for Report No. 1

Chicago Subway, 1930
Proposal, correspondence, blueprints and specifications

Experimental Tower, 1930-31
Requisitions, data, specifications, calculations and graphs

Chicago Subway, 1931
Blueprints, photographs and negatives of ventilation equipment (one glass plate)

Chicago Subway Ventilation - Test date, Jan. 13, 1931 - June 13, 1931
Report on certain tests on the performance of a ventilation tower unit for the Chicago Subway, February 13, 1931

Second report, Chicago Subway Ventilation, August 1, 1931

November 1, 1981. Under RBR Uncat. 82 7 the Rare Book Room held a testimonial of appreciation on Willard's retirement in 1946, from the Board of Trustees with hand-illumination by the Scriptorium, Chicago and a 1946 testimonial of appreciation on his retirement, from the Illini Union Board and a 1946 testimonial of appreciation on his retirement, from the faculties and staff of the Chicago Colleges of the University of Illinois. With hand-illumination by the Scriptorium, Chicago.

Box 13:

Materials from Estate of Betsy Ross, A. C. Willard’s Niece
Genealogical Correspondence, Clippings and Records, 1903-47
Photographs of A. C. Willard and Ossian Ross
Correspondence of A. C. Willard with Betsy Ross and other family members, 1884-1959
Financial Records, Real Estate Deeds, and Bonds
A. C Willard Speeches (reprints)

Box 14 (Oversize):

Arthur C. Willard Papers, Folder 1 of 4: Chicago Subway Drawings

Box 15 (Oversize):

Arthur C. Willard Papers, Folder 2 of 4: Holland Tunnel Drawings

Box 16 (Oversize):

Arthur C. Willard Papers, Folder 3 of 4: Chicago Subway Drawings

Box 17 (Oversize):

Arthur C. Willard Papers, Folder 4 of 4: Holland Tunnel Drawings

Willard Papers St. Louis Subway General Plans

Box 18 (Oversize):
Willard Papers St. Louis Subway General Plans

**Box 19 (Oversize):**

Willard Papers St. Louis Subway Final and Preliminary Ventilation Plans; Details of Concrete Ducts, Steel Details

**Box 20 (Oversize):**

St. Louis Subway Plans Retaining Walls, Cross Sections, Longitudinal Sections

**Box 21 (Oversize):**

Blueprints and Drawings by Subject - Loft office building, St. Louis, MO, 1930