

# J.W. COWIE ENGINEERING LIMITED

CONSULTING STRUCTURAL, ARCHITECTURAL & FORENSIC ENGINEERING

J. W. Cowie Engineering Limited (Cowie Engineering) was incorporated in 1972 and is owned by James W. Cowie, M. Eng., P. Eng., of Halifax, Nova Scotia. The firm specializes in the investigation and restoration of building structures, including new and historic buildings.

The scope of services provided by Cowie Engineering includes structural and building envelope investigative services as well as multi-discipline investigative consulting services when the firm acts as Prime Consultant. Typically, following the investigative phase of the consulting services, Cowie Engineering acts as Prime Consultant in the preparation of multi-discipline design drawings and specifications, cost estimating, and preparing contract documents for tendering. During construction, Cowie Engineering administers the contract on behalf of the owner and provides on-site inspection and testing services.

Cowie Engineering provides consulting services throughout the four Atlantic Provinces and Ontario. Consulting engineering service has also been provided in USA and Britain. In Britain, consulting engineering service was provided through J.W. Cowie Engineering (U.K.) Limited, a subsidiary company of Cowie Engineering, Halifax, Nova Scotia.

The following is a listing of some of the typical projects in which Cowie Engineering has provided consulting engineering service. Many of the projects involved litigation in which James W. Cowie, M. Eng., P. Eng., and key Cowie Engineering employee professional engineers provided evidence and expert opinions.

## **MASONRY STRUCTURES - Investigation and Restoration Design**

Province House (Historic) – Charlottetown, PE  
American Consulate General's Bldg, Stone  
Masonry Exterior Walls – 360 University Ave. - Toronto, ON  
425 (Union Hotel) & 431 Davis Dr. - Newmarket, ON  
Addition to Jacob Hespeler Secondary School – Cambridge, ON  
105 Unit, Eight Storey Apartment Bldg – Halifax, NS  
Kays Bros. Building (Historic) – Charlottetown, PE  
Exterior Walls of Municipal Bldg – Bridgewater, NS  
Administration Bldg – Shubenacadie Wildlife Park, NS  
Oxford Theatre – Halifax, NS  
Office, Commercial & Factory Bldg Complex - Stoney Creek, ON  
The Oland Centre - StFX University - Antigonish, NS  
4-Story Historic Building - Yarmouth, NS  
St. Philippe/St. Jacques Church - Egmont Bay, PEI  
Old Post Office Building (Historic) – Truro, NS  
Truro Civic Building – Truro, NS  
Provincial Building – Hollis Street, Halifax, NS  
South Pavilion, Halifax Port Corp. – Halifax, NS  
Alderney Manor – Apt Bldg – Dartmouth, NS  
Scott Maritimes Limited – All Walls on All Bldgs  
Convoy Place-Three Condominium Bldgs-Halifax, NS  
Forest Hills Tower – Apt Bldg – Fredericton NB  
LeMarchant Towers – Apt Bldg – Halifax, NS  
RCMP "H" Division Headquarters Bldg–Halifax, NS  
M.A.P.P. Bldg, Main Postal Stn – St. John's, NF  
Public Archives of Nova Scotia – Halifax, NS  
Harbour Island Hotel – Tampa, Florida  
Brentwood Towers – Apt Bldg – St. John's, NF  
St. Mary's Basilica – Halifax, NS  
Oxford Court - Condominium – Halifax, NS  
Lions Senior Citizens Tower – Moncton, NB  
Admiralty Place - Condominium – Dartmouth, NS  
MacMillan Bldg – Office Bldg – Charlottetown, PEI  
Clinton Building – Office Bldg – Halifax, NS  
Sportsplex – Dartmouth, NS  
Toronto Hydro Distribution Station –Toronto, ON

200 FT High Radial Clay Brick Masonry Chimney  
- VG Hospital, Halifax, NS  
200 FT High Radial Clay Brick Masonry Chimney  
– NS Hospital, Dartmouth, NS  
Ingels Residence–Toronto, ON (Legal Precedent)  
Marian Hall, UPEI – Charlottetown, PEI  
Concrete Block Masonry Walls of K-12 School  
– Port Saunders, NL  
Collapse of Stone Masonry Musket Gallery, Prince of Wales  
Martello Tower, Point Pleasant Park-Halifax, NS  
Russell Street Centre – Halifax, NS  
Osgoode Hall (Historic) – Queen St. West, Toronto, ON  
Twenty-Storey Condominium – Scarborough, ON  
Kenworth Acres – St. Catherine's, ON  
Charlottetown Airport Control Tower – PEI  
Saint Andrew's United Church – Halifax, NS  
Northwood Manor – Halifax, NS  
394 Bloor St. West (Historic) – Office Bldg – Toronto  
Sherwood Apartment Building – Halifax, NS  
North Sydney Shopping Mall – North Sydney, NS  
The Oaklands - Apt Bldg – Avenue Road, Toronto, ON  
Ten Storey Condominium - Kitchener, ON  
St. Matthew's United Church – Halifax, NS  
Airport Hotel – Halifax International Airport  
2175 Queen St East – Office Bldg – Toronto, ON  
First Baptist Church Halifax – Oxford St, Halifax, NS  
Cumming Hall, NS Agricultural College (Historic)  
– Truro, NS  
Knightsridge Fire Station – Halifax, NS  
Truro Mall – Truro, NS  
Founders Hall – Charlottetown, PEI  
Shirreff Hall, Dalhousie University – Halifax, NS  
Strait Richmond Hospital – Evanston, NS  
Queens Gate Condominium – Bedford, NS  
Six Storey Office Bldg, Bedford Institute of  
Oceanography – Bedford, NS

TORONTO:

[www.cowieengineering.ca](http://www.cowieengineering.ca)

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## STEEL & REINFORCED CONCRETE STRUCTURES – Investigation and Restoration Design

Northwood Manor – Floor Slabs, Halifax, NS  
Eso Avitat Aircraft Hangar, L.B. Pearson Int'l Airport  
Kensington Court – Halifax, NS  
Refloating Sunken Caisson – Bedford, NS  
Firewall – Sheds 22 & 23, Halifax Port Corp.  
AST Residence Building – Halifax, NS  
Seton Academic Centre – MSVU – Halifax, NS  
Ten Industrial Buildings–Burnside Industrial Park, NS  
Insitu/Precast Concrete Storage Silos-NS & PEI  
Village Shopping Centre – St. John's, NF  
South Shore Shopping Centre – Bridgewater, NS  
Associated Freezers – Dartmouth, NS  
Clarenville High School – Clarenville, NF  
Damaged/Collapsed Steel & Concrete  
Highway Bridges – Province of Nova Scotia  
Elizabeth Towers – St. John's, NF  
Baxter Foods Limited – Dartmouth, NS  
Canopies for Gas Stations – Several Oil Companies  
Dolphin Collapse – Canso, NS  
Collapse of Aircraft Hanger – Halifax International Airport  
Jetty NN – CFAD – Bedford, NS  
K-Mart Plaza – Torbay Road, St. John's, NF  
Wood Motors Ford Building – Halifax, NS  
Captain William Spry Community Centre – Halifax, NS  
Commercial Building Complex – Brampton, ON  
Piercy's Supplies – Dartmouth, NS  
Pioneer Fisheries – Tignish, PE  
Restoration of Public In-Ground Swimming Pool  
- Cole Harbour, NS

Jazz Aircraft Hangar – Hfx Stanfield Int'l Airport – Enfield, NS  
Elevated Parking Structure – Yarmouth, NS  
Wind Turbine Tower RC Base 13-Digby, NS  
Building 301, Osborne Head Gunnery Range  
Convoy Place – Parking Garage – Halifax, NS  
Edmundston Forum – Edmundston, NB  
McGregor Bedding – New Glasgow, NS  
Colchester Vocational School – Truro, NS  
Numerous Buildings – CFB Goose Bay, Labrador  
Yarmouth Regional Hospital – Yarmouth, NS  
Mitchell's Enviro Centre – Halifax, NS  
Shubenacadie District School – Shubenacadie, NS  
Barrington Tower-Scotia Square – Halifax, NS  
Collapsed Three-Storey Tilt-Up R. C. Wall Panel,  
Halifax North Mainland High School  
LCBO Warehouse – Toronto, ON  
Seasons Motor Inn – Dartmouth, NS  
Windsor Fire Station – Windsor, NS  
Accident Investigation – CREIT Archives Bldg, NS  
Accident Investigation-Lingan Thermal Power Generating Station  
Replacement of Numerous House Foundations Due to Oil Spills  
Maritime Building – New Glasgow, NS  
Exterior Insulated Wall Panels, Willie O'Ree Place, Fredericton, NB  
Demolition of Simpson Hall, Former Nurses  
Residence, NS Hospital – Dartmouth, NS  
Demolition of Coburg Tower, Church Bldg & House – Coburg Rd.,  
Hfx, NS  
Parking Deck, Melville Gardens - NS

## TIMBER STRUCTURES - Investigation and Restoration Design

DeGarthe Buildings - Peggy's Cove, NS  
Wharf Collapse - Yarmouth, NS  
Admiralty House - C.F.B. Stadacona  
Cedar Shingle Failure Investigation, Parker House –  
Masons Pt., NS  
Fire Damage Investigation – Fundy Shore Market, Parrsboro, NS  
Fire Damaged Building, Pictou Advocate & Publishing Company –  
George Street, Pictou, NS  
Green Lantern Building – Halifax, NS  
Bonny Lea Farm (School) – Chester, NS  
Centennial School – Port Hawkesbury, NS  
Core Storage Buildings – Stellarton, NS  
Library/Administration Building – Atlantic School of Theology –  
Halifax, NS  
C.F.B. Greenwood – Officers' Mess – Greenwood, NS  
Rockingham United Church – Halifax, NS  
Bridgewater Memorial Arena – Bridgewater, NS  
Collapse of Three-Storey Apartment Building – Highfield Park,  
Dartmouth, NS  
Fibre Cement Lap Siding, Four Storey Apt Bldg - Elmsdale, NS  
Fibre Cement Lap Siding & Window Installations, Large  
Nursing Home - NS

Collapse of Four-Storey Apartment Building – Highfield Park,  
Dartmouth, NS  
C.F.B. Cornwallis, Failure of New Floating Dock – Granville Ferry,  
Annapolis County, NS  
Fisheries Products International - Restoration of Timber Roof  
Trusses – Riverport, NS  
Mic Mac Amateur Aquatic Club - Collapse and Restoration of Roof  
– Dartmouth, NS  
Wallace Fisheries – Wallace, NS  
Odeon Theatre Collapse – Yarmouth, NS  
Four Corners Housing Cooperative – Yarmouth, NS  
Seaboard Bed & Breakfast – Lawrencetown, NS  
Evergreen Condominium Corporation - Dartmouth, NS  
Numerous One & Two Storey Timber Framed Structures- Collapsed  
Due to Inadequate Lateral Bracing  
Ottawa House – Parrsboro, NS  
Masonic Lodge Bldg – Middleton, NS  
Milton Christian Church – Milton, Queens Co., NS  
Houses, Decks & Balconies  
NS Islamic Community Centre - Kearney Lake Rd., HRM, NS  
Historic Barn, Yeo Ship Building Museum – Green Park, Port Hill, PE

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