



CANADA SCIENCE AND
TECHNOLOGY MUSEUM
MUSÉE DES SCIENCES
ET DE LA TECHNOLOGIE
DU CANADA



Jacques C. Beauchamp fonds

BEA

Accession BA0038

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Canada Science and Technology Museum**Jacques C. Beauchamp fonds**

Accession No. BA0038

IDENTIFIER : BEA**TITLE:** Jacques C. Beauchamp fonds**CREATOR:** Beauchamp, Jacques C., 1928-**EXTENT:** 3.75 metres of textual records and other material**DATES:** n.d., 1893-1990, 2014

Biography: Jacques C. Beauchamp was born in Ottawa on 8 June 1928. He received a bilingual education in Ottawa schools and then went to McGill University in Montreal. He graduated with a bachelors in civil engineering in 1952. He started with the Department of Northern Affairs and Natural Resources on the restoration of historical sites and bridge designs for the National Parks Branch. Beauchamp moved to the federal Department of Public Works (later Public Works Canada) in 1955 where he worked on the design of structures for the Trans-Canada Highway through the Rockies and bridges in the north.

Beauchamp was a District Engineer in Quebec 1960-1967, where he was responsible for the Trans-Canada Highway in Quebec, Roads to Resources, and other civil engineering work. In 1970 Beauchamp became the Director of Bridge Engineering for Public Works Canada (PWC) in Ottawa and the Director General of Structures in 1987. He oversaw the design, assessment and repair of interprovincial bridges. He had oversight of the skating oval, ski jump and bob sled/luge tracks for the 1988 Olympics in Calgary. Beauchamp's most important project was the preliminary work on the Confederation Bridge linking Prince Edward Island to New Brunswick across the Northumberland Strait. He was one of the key people in overseeing the preparation of engineering feasibility studies and the first round of tender proposals for the construction of the Confederation Bridge. Beauchamp retired from PWC in 1990. He died in Ottawa on 3 September 2019.

Sources:

CSTM Archives, Jacques C. Beauchamp fonds, Series 001 Personal, File Beauchamp, J. C. Curriculum Vitae [2014].

"Jacques C. Beauchamp." (2019 September 7). *The Ottawa Citizen*. Obituaries. Accessed online 2020-04-22: <https://ottawacitizen.remembering.ca/obituary/jacques-c-beauchamp-1076972851>

Custodial History: Jacques C. Beauchamp donated his material to CMST in 2015.

Scope and Content: Fonds consists of the professional papers of Jacques C. Beauchamp, a bridge engineer and later head of Structures for Public Works Canada. Fonds also includes Beauchamp's articles and reports on bridge design, construction and appraisal plus articles and reports produced by his staff. There are files on the creation of the federal Place du Portage complex in Gatineau, Québec, 1958-1975, and federal bridges crossing the Ottawa River.

There are numerous files on the role of Public Works Canada in overseeing the feasibility and the bidding competition for a crossing of the Northumberland Strait between Prince Edward Island and New

Prepared by Larry McNally and Tony Rybczynski, 05-2017

Slight revisions and draft French translation, Adele Torrance 2018. New material incorporated 01-2019, Adele Torrance.

French proofreading by Céline Mongeau, Linda Larocque Linguistic Services, 06-2018

Brunswick which resulted in the Confederation Bridge. Included is historical material from previous designs and the role of the federal government in building a crossing as well as feasibility studies by consultants and the first round of technical proposals for building a crossing.

Fonds also contains Beauchamp's subject files on bridge types (cable-stayed, concrete, box girder etc.). Other subject files cover construction standards, environmental assessments, seismic events etc. There are prints and slides of interprovincial bridges, the construction of Olympic facilities in Calgary and specific bridge types.

The material is organized into six series.

Notes:

Physical description: Includes 3.72 linear metres of textual records, 459 photographs, 667 slides, 135 negatives, and 6 transparencies.

Physical condition: Files in series 002 Public Works and series 006 Photos and Slides on the Lafontaine Tunnel-Bridge had been separated due to possible active mold. They have since been reincorporated into the series, but they have stains from the original water damage and inactive mold.

Restrictions: A Memorandum to Cabinet in file 037 series 003 Northumberland Crossing Project: Historical is restricted until it is declassified by the concerned Government of Canada departments.

Related Material: The fonds for the Department of Public Works/Public Works Canada is at Library and Archives Canada. Trade literature found in the fonds has been transferred to the library of the Canada Science and Technology Museum.

Processing note: A box of Beauchamp material was found in 2018. It is likely this material was separated out from the rest of the fonds because it had suffered water damage, and might have been suspected of active mold. It has been reintegrated in series 002 and 006. The material relates to the building of the Lafontaine Tunnel-Bridge in Montreal. The files were added to series 002 Public Works Canada and were likely Beauchamp's working files as he prepared an article on the project. There are also colour slides and photographs that have been integrated into series 006 Photos and Slides.

Access points:

Bridges

Bridges – Design and construction

Ponts – Construction

Confederation Bridge (N.B. and P.E.I.)

Ponts

French Translation

Identifiant : BEA

Titre : Fonds Jacques C. Beauchamp

Créateur : Beauchamp, Jacques C., 1928-

Prepared by Larry McNally and Tony Rybczynski, 05-2017

Slight revisions and draft French translation, Adele Torrance 2018. New material incorporated 01-2019, Adele Torrance.

French proofreading by Céline Mongeau, Linda Larocque Linguistic Services, 06-2018

Étendue : 3.72 mètres de documents textuels et autres documents

Dates : s.d., 1893-1990, 2014

Notice biographique :

Jacques Beauchamp est né à Ottawa le 8 juin 1928. Il a fait des études bilingues dans des établissements d’Ottawa, puis a étudié à l’Université McGill, à Montréal. Il a obtenu son baccalauréat en génie civil en 1952. Il a commencé sa carrière au ministère du Nord canadien et des Ressources naturelles, travaillant à la restauration de sites historiques et à la conception de ponts pour la direction des parcs nationaux. En 1955, il est transféré au ministère des Travaux publics (plus tard, Travaux publics Canada) pour travailler sur la conception de structures destinées à la route Transcanadienne traversant les Rocheuses ainsi que de ponts pour les régions au nord.

Beauchamp a été ingénieur de district au Québec, de 1960 à 1967, où il était responsable de la route Transcanadienne dans la province, de l'accès aux ressources et de divers travaux de génie civil. En 1970, il est devenu directeur de l'ingénierie des ponts à Travaux publics Canada (TPC), à Ottawa, puis directeur général des structures en 1987. Dans ses fonctions, il surveillait la conception, l'évaluation et la réparation des ponts interprovinciaux. Il a en outre supervisé l'aménagement d'installations sportives pour les Jeux olympiques de Calgary en 1988, soit l'anneau de patinage, le tremplin de ski et les pistes de bobsleigh et de luge. Le projet le plus important dans sa carrière a été les travaux préliminaires pour le pont de la Confédération reliant l'Île-du-Prince-Édouard et le Nouveau-Brunswick, dans le détroit de Northumberland. Il était en fait un des principaux acteurs administrant la préparation des études de faisabilité technique ainsi que l'évaluation des propositions de première ronde pour la construction du pont. Jacques Beauchamp a pris sa retraite de TPC en 1990. Beauchamp est décédé le 3 septembre 2019.

Portée et contenu :

Le fonds se compose des archives professionnelles de Jacques C. Beauchamp, ingénieur de ponts devenu plus tard directeur général des structures à Travaux publics Canada (TPC). Le fonds contient aussi des articles et rapports rédigés par Beauchamp sur la conception, la construction et l'évaluation des ponts ainsi que des documents produits par son personnel. On y trouve en outre des dossiers sur la création du complexe fédéral Place du portage, à Gatineau (Québec), et des ponts fédéraux qui traversent la rivière des Outaouais.

Le fonds comprend également plusieurs dossiers sur le rôle de TPC dans l'évaluation de la faisabilité et l'étude des propositions pour le projet du pont traversant le détroit de Northumberland, entre l'Île-du-Prince-Édouard et le Nouveau-Brunswick, projet qui a donné lieu à la construction du pont de la Confédération. Sont inclus des documents historiques décrivant les plans préliminaires du pont et le rôle du gouvernement fédéral dans le projet, des dossiers d'étude de faisabilité et des propositions de première ronde présentées par des entrepreneurs.

Le fonds contient aussi des dossiers traitant des divers types de pont (à haubans, en béton, à poutres caissons, etc.), de normes de construction, d'évaluations environnementales, de données sismiques, etc. Il comprend également des photos et diapositives représentant des ponts interprovinciaux, la construction des installations olympiques à Calgary et des types de ponts variés.

Les documents sont classés en six séries d'archives.

Notes :

Collation : Comprend 3.72 mètres de documents textuels, 413 photographies, 617 diapositives, 137 négatifs, et 6 transparents.

Restrictions : Un mémoire au cabinet dans le dossier 037 de la série 003 portant sur le projet du pont sur le détroit de Northumberland ne pourra être consulté que lorsque les ministères concernés en donneront l'autorisation.

Documents connexes : Les archives relatives à Travaux publics Canada se trouvent à Bibliothèque et Archives Canada, quoique les documents commerciaux de ce fonds aient été transférés à la bibliothèque du Musée des sciences et de la technologie du Canada.

Series Description

Personal. 1954-1989, 2014; .12 m; Box 001.

Series contains articles and reports written by Beauchamp alone or with his colleagues in the Structural Division of Public Works Canada. They are about the design and assessment of bridges 1971-1989. Notes and documents on Beauchamp's visit to the USSR (1974), Gotthard Tunnel (1988) and the Chunnel (1989).

Public Works Canada. 1956-1990; .46 m; Box 001-002.

Series contains articles and reports written by the Public Works Canada (PWC) Structural Division employees, bibliographies of PWC publications and manuals for bridge inspections. Memos, minutes and reports on the development of the Place du Portage government complex in Gatineau QC 1958-1975. Files and general layout plans for inter-provincial, national park and northern Canadian bridges. Files on bridges in the Ottawa area.

Northumberland Crossing Project. 1893, 1950-1989; 1.55 m; Box 003-007.

Series contains files on the role of Public Works Canada (PWC) in creating a fixed link between Prince Edward Island and New Brunswick. The series is divided into four sections. The first one is historical and contains announcements and studies before the start of the Confederation Bridge project. The second series documents PWC and other federal institutions determining the best way to cross the strait. The third one contains consultant studies, reports and evaluations of various technical problems in crossing the strait. The final section contains the first round of tender proposals from 12 construction consortia wanting to construct a bridge or tunnel across the Northumberland Strait.

Bridge Subject Files. 1901, 1934-1990; 1.23 m; Box 008-011.

Series consists of general and specific files relating to cable-stayed, concrete, long span, orthotropic (box girder) and truss bridges. The files contain engineering articles, reports and some correspondence. There are also files on bridge loading, probability risk, safety factors, ship collisions with bridges and wind forces.

General Subject Files. 1927-1931, 1955-1990; .36 m; Box 011-012.

Series contains general and specific files on construction standards, engineering economic analysis, environmental assessments, seismic events etc. Two annotated bridge engineering textbooks used extensively by Beauchamp. Photocopies of title pages of engineering textbooks, books on individual bridges and their designers and bridge-related trade literature. Only the trade literature has been retained in the CMST Library.

Photos and Slides. n.d., 1976-1989; 413 prints, 617 slides, 135 negatives, 6 transparencies, Box 13.

Series contains slides for Beauchamp's lectures, prints and slides of federal bridges in Ottawa, interprovincial and northern bridges and the construction of facilities for the 1988 Calgary Olympics. Prints and slides of cable-stayed, concrete, pedestrian and truss bridges in Quebec, Canada and the US.

File-Level Descriptions

SERIES 001 PERSONAL

Location	Series	Folder	Folder Title	Date
Box 001	001	001	Beauchamp, J. C. Curriculum Vitae	[2014]
Box 001	001	002	Beauchamp, J. C. "Moment Distribution by Graphics with Analytic Check" – Typescript	1954
Box 001	001	003	Beauchamp, J. C. Correspondence – Miscellaneous	n.d., 1979-1990
Box 001	001	004	Beauchamp, J. C. Canadian Engineering Delegation – Visit to Soviet Union, Program, Tourist Information	Jan. 1974
Box 001	001	005	Beauchamp, J. C. Gotthard Tunnel – Visit, Documentation, Notes	May 1988
Box 001	001	006	Beauchamp, J. C. Chunnel – Visit, Documentation, Notes	June 1989
Box 001	001	007	Beauchamp, J. C. and S. Stamer. "Northern Bridge Construction" – Publication	Sept. 1971
Box 001	001	008	Beauchamp, J. C. "Box Girder Bridges: Longer Life and Less Maintenance with Less Material" – Manuscript	May 1973
Box 001	001	009	Beauchamp, J. C. et al. "Assessment and Evaluation of Some Common Types of Existing Bridges" – Article	Oct. 1977
Box 001	001	010	Hibbert, G. S. and J. C. Beauchamp. "Effects of a Cold Environment on the Design and Construction of Eagle River Bridge" - Publication	May 1978
Box 001	001	011	Cheung, M. S. et al. "Concrete Bridge Decks: Design, Construction and Performance" – Book Chapter	May 1979
Box 001	001	012	Dilger, W. et al. "Field Measurement of Muskwa River Bridge" – Report & Offprint	Nov. 1981
Box 001	001	013	Cheung, M. S. et al. "Important Factors for Composite Steel Box Girder Bridges" – Paper, Offprint	Mar. 1982
Box 001	001	014	Beauchamp, J. C. et al. "Repair and Evaluation of a Damaged Truss Bridge – Lewes, Yukon River" – Offprint	Sept. 1984
Box 001	001	015	Beauchamp, J. C. "Bridge Evaluation and Strengthening" – Seminar Paper	Apr. 1987
Box 001	001	016	Chan, M. Y. T. et al. "Thermal Stresses in Composite Box Girder Bridges" – Abstract	Oct. 1989

SERIES 002 PUBLIC WORKS CANADA

Location	Series	Folder	Folder Title	Date
Box 001	002	017	Agarwal, A. C. and M. S. Cheung. "Development of Loading Truck Model and Live Load Factors for the CSA-56 Code" – Draft Report	Oct. 1982
Box 001	002	018	Aziz, T. S. et al. "Development of a Simplified Method of Lateral Load Distribution for Bridge Superstructures" – Offprint	Sept. 1978
Box 001	002	019	Boyd, A. C. and J. Y. C. Quong. "Reconstruction of the Laird River Suspension Bridge" – Article	[c.1977]
Box 001	002	020	Chan, M. Y. T. "Bridge Field Testing / Securite et Solidite des Ponts" - Article	n.d.
Box 001	002	021	Nixon, D. et al. "Using a Portable Rockwell Meter to Estimate the Yield Strength of Mild Steel" - Report	n.d.
Box 001	002	022	Vaidanathan, H. et al. "Extension of Life for Perley Bridge" – Offprint	Sept. 1978
Box 001	002	023	Public Works Canada. "Cable-Stayed Bridges" – Bibliography	Oct. 1975
Box 001	002	024	Public Works Canada. "Cable-Stayed Bridges: Canadian Engineering and Construction" – Report	Oct. 1980
Box 001	002	025	Public Works Canada. Transportation Directorate - List of Publications, Draft	Jan. 1981
Box 001	002	026	Public Works Canada. Catalogue of Documents	May 1984
Box 001	002	027	Public Works Canada. Design and Construction – Catalogue of Documents	May 1985
Box 001	002	028	Public Works Canada. Contract for Services – Standard Form	1987
Box 001	002	029	Public Works Canada. Development Engineering Branch – Sub-Soil Investigation Instruments, Correspondence, Photocopies	1960-1965
Box 001	002	030	Public Works Canada. Canal de Chambly – Inspection et Evaluation, Rapport	1983-1984
Box 001	002	031	Public Works Canada. Federal Bridge Inspections – Guidelines, Lists, Memos	1986-1987
Box 001	002	032	Public Works Canada. Indian and Northern Affairs Canada – Bridge Design Guidelines, Draft	1981-1982
Box 001	002	033	Public Works Canada. Indian and Northern Affairs – Road and Bridge Pre-engineering and Design	1983-1990
Box 001	002	034	Public Works Canada. Northern Bridge Construction – Articles, Memos, Report	1978, 1983
Box 001	002	035	Public Works Canada. Structural Steel Production – Prices, Drawings, Reports	1982-1983

Location	Series	Folder	Folder Title	Date
Box 001	002	036	Public Works Canada. Structures, Bridge Division – Manual for Bridge Inspection and Evaluation Pt. 1	1956, 1972-1985
Box 001	002	037	Public Works Canada. Structures, Bridge Division – Manual for Bridge Inspection and Evaluation Pt. 2	1956, 1972-1985
Box 001	002	038	Public Works Canada. Structures, Bridge Division – Policies, Standards, Guidelines	1982-1986
Box 001	002	039	Public Works Canada. Timber Bridges – Articles, Plans, Reports, Pt. 1	1897, 1975-1982
Box 001	002	040	Public Works Canada. Timber Bridges – Articles, Plans, Reports, Pt. 2	1897, 1975-1982
Box 001	002	041	Public Works Canada. Timber Bridges – Articles, Plans, Reports, Pt. 3	1897, 1975-1982
Box 001	002	042	Public Works Canada. Timber Bridges – Clippings, Publications	1971-1982
Box 001	002	043	Public Works Canada. Transportation Testing Projects, 1976-1984 – Draft	1985
Box 002	002	001	Public Works Canada. Hull QC Planning Committee – Legislation and Memos	1958-1970
Box 002	002	002	Public Works Canada. Hull QC Planning Committee – Memos, Minutes	1969-1970
Box 002	002	003	Public Works Canada. Alexandra Bridge, Ottawa – Repairs, Construction Tender	Aug. 1987
Box 002	002	004	Public Works Canada. Portage Bridge, Ottawa – Parking and Road Studies	1969-1970
Box 002	002	005	Public Works Canada. Portage Bridge, Ottawa – Negotiations with National Capital Commission, E. B. Eddy Co., Correspondence, Photos	1970
Box 002	002	006	Public Works Canada. Portage Bridge, Ottawa – Design, Agreements, Correspondence, Memos, Pt. 1	1970-1975
Box 002	002	007	Public Works Canada. Portage Bridge, Ottawa – Design, Agreements, Correspondence, Memos, Pt. 2	1970-1975
Box 002	002	008	Public Works Canada. Portage Bridge, Ottawa – Design, Agreements, Correspondence, Memos, Pt. 3	1970-1975
Box 002	002	009	Public Works Canada. Portage Bridge, Ottawa – Preliminary Engineering, Contracts	1971-1974
Box 002	002	010	Public Works Canada. Portage Bridge, Ottawa – Contract Specifications and Drawings	1971-1972
Box 002	002	011	Public Works Canada. Portage Bridge, Ottawa – Official Opening, Press Kit, Press Clippings	Dec. 1973

Location	Series	Folder	Folder Title	Date
Box 002	002	012	Public Works Canada. Portage Bridge, Ottawa – Steam Line Inspection, Notes, Photos	1990
Box 002	002	013	Public Works Canada. Pretoria Bridge, Ottawa – Marret & Hanlan “The Pretoria Bridge: Old and New”, Manuscript, Review	1983
Box 002	002	014	Public Works Canada. Campbellton NB – Superstructure, Photocopies	n.d., 1959
Box 002	002	015	Public Works Canada. Desjoachin Bridge ON/QC – Superstructure, Photocopies	1902, 1971
Box 002	002	016	Public Works Canada. Great Bear River Bridge NWT – General Layout, Plan	n.d.
Box 002	002	017	Public Works Canada. International Bridge NB – Test on Piles, Report	1970
Box 002	002	018	Public Works Canada. Interprovincial Bridge, Pembroke ON/QC – General Layout, Plans	n.d.
Box 002	002	019	Public Works Canada. Rocky Barachois Bridge NFLD – Railings, Plan	1986
Box 002	002	020	Public Works Canada. Takakkaw Falls Bridge BC – General Layout, Plan	n.d.
Box 002	002	021	Public Works Canada. Upper Francis River Bridge YK – General Layout, Plans	n.d.
Box 002	002	022	Public Works Canada. Western Parks Bridges AB – Upgrades for Calgary Olympics, Report	1986-1987
Box 002	002	023	Public Works Canada. Western Parks bridges, AB – Upgrading Highway 16 & Trans-Canada Highway	1980
Box 002	002	024	Public Works Canada. Western Parks Bridges, AB – Banff, Jasper, Yoho (Secondary Roads), Waterton Lakes, Pacific Rim – Inspection Report 1982, Evaluation Report 1986	1982, 1986
Box 002	002	024	Consulting Engineers, MacDonald-Cartier Bridge, Ottawa – Publication	1965
Box 002	002	025	DSL Consultants Ltd. Portage Bridge, Ottawa – Bronson Link, Proposal	1981
Box 002	002	026	Gouvernement du Quebec. Lafontaine Bridge-Tunnel, Montreal – Official Opening, Publications	1964-1967
Box 002	002	027	Lafontaine Bridge-Tunnel - Description of Project – Bid Schedules. Unit prices.	1964
Box 002	002	026	Boucherville Tunnel (Louis-Hippolyte Lafontaine)	1962-1966
Box 002	002	028	Lafontaine Bridge-Tunnel – List C – articles, media reports	1965-1969
Box 002	002	029	Lafontaine Bridge-Tunnel – List D – additional tunnel data	1966
Box 002	002	030	National Capital Commission. Victoria Island Bridge, Ottawa - Feasibility Study, Photocopy	1967

Location	Series	Folder	Folder Title	Date
Box 002	002	031	Nova Scotia Bridges. Winter Construction – Articles	1976-1987
Box 002	002	032	Other Canadian Bridges. Articles	1938, 1969-1985
Box 002	002	033	Three Rivers Bridge Corp. Laviolette Bridge, Trois-Rivieres QC – Article, Photocopies	1966, 1980
Box 002	002	034	Transport Canada. Strait of Canso Causeway NS – Bibliography, Notes, Photocopies	1976-1980

SERIES 003 NORTHUMBERLAND CROSSING PROJECT: HISTORICAL

Location	Series	Folder	Folder Title	Date
Box 003	003	001	Engineering News. "Surveys and Borings for the PEI Tunnel"	June 1893
Box 003	003	002	Thompson, V.S., Public Works Canada. Summary of Investigations by the Structure Division (15)	1950-1967
Box 003	003	003	Cumberland Bridge Joint Venture. Volume 1Chapter 8 of the "Report on the Northumberland Strait Crossing"	1959
Shelf (oversize)	003	004	Northumberland Consulting. "Northumberland Strait Crossing" Phase 1 Report	1964
Box 003	003	005	Heavy Construction News. "First Bids in '65 on 3-way PEI Link"	July 1965
Box 003	003	006	Michel, B. "Maximum Ride-Up of Ice on a Pier" (2)	May 1966
Box 003	003	007	Public Works Canada. The Northumberland Strait Crossing Briefing Session	July 1966
Box 003	003	008	Northumberland Consulting. "Summary Report of Crossing Ice Studies"	September 1966
Box 003	003	009	Public Works Canada. Northumberland Strait Crossing at the Fifth World Meeting of the International Road Federation	September 1966
Box 003	003	010	N.Lavoie "Ice Effects on Structures in the Northumberland Strait Crossing"- Article	November 1966
Box 003	003	011	Dept of Public Works. Northumberland Strait Crossing- Article (pp. 32-36)	May 1967

Location	Series	Folder	Folder Title	Date
Box 003	003	012	Engineering Journal, Williams, G.B. article on the Northumberland Strait Crossing pp 32-36	May 1967
Box 003	003	013	Monti, Lavoie & Nadon Consulting. Pier Design Report	September 1967
Box 003	003	014	Stanford Research Institute. Benefit/Cost Evaluation and Critique by Haver Associates (2, both incomplete)	1968
Box 003	003	015	Background Paper on Traffic, Ferry and Economic Aspects	c1968
Box 003	003	016	Northumberland Consultants. Summary Report on Ice Studies	December 1968
Box 003	003	017	Public Works Canada. Crossing Alternatives (2)	May-October 1968
Box 003	003	018	Churchill, Deputy Minister E. Minister of Public Works Canada on Estimated Costs- Letter	January 1969
Box 003	003	019	Yan, H.T, (Foundation Co. of Canada). Engineering Aspects of The Northumberland Strait Crossing Design	c1970
Box 003	003	020	Dept of Energy, Mines and Resources. Aerial Photos of Cape Tormentine terrain (9)	1971
Box 003	003	020A	Engineering News-Record. "Tried and true techniques save British transit project"	February 1978
Box 003	003	021	Detroit & Canada Tunnel Corp. Model for PEI and maintenance evaluation (2)	December 1981, February 1982
Box 003	003	021A	Public Works Canada. Romeo LeBlanc New Minister - Press release	December 1982
Box 003	003	022	Public Works Canada. Historical Overview and Recommendation to Proceed with Crossing Project- Memo	c1982
Box 003	003	023	Unknown. Ice studies in the Straits - Notes	February 1983

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Location	Series	Folder	Folder Title	Date
Box 003	003	024	Northumberland Consulting. "Review of Substructure of Proposed Bridge Design of 1962-1968"	c1984
Box 003	003	025	Nova Construction Co. Financing, Construction and Operation of a Causeway - Report	April 1985
Box 003	003	026	Beauchamp, J.C. Bridge Designs and Independent Checks	October 1985
Box 003	003	027	Public Works Canada. Northumberland Strait Crossing- Study	November 1985
Box 003	003	028	Sebastyan, S. (PWC). Northumberland Crossing- Memo	April 1986
Box 003	003	029	Public Works Canada. Meeting between the Northumberland Bridge Builders Joint Venture (Dominion Bridge (AMCA), PCL Construction and Kiewit Sons) (5)- Notes	April 1986
Box 003	003	030	Reid, G.D. (PWC). Kiewit letter to PEI Premier- Reply	May 1986
Box 003	003	031	Public Works Canada. Meeting between PWC and the Northumberland Bridge Builders Joint Venture (6)- Notes	June 1986
Box 003	003	032	Public Works Canada. Crossing Options Canada (2)	July 1986
Box 003	003	033	Reid, G.D. (PWC). Re: Meeting and correspondence with J. Bahen on proposals from Peter Kewit Sons Ltd	June 1986
Box 003	003	034	Reid, G.D. (PWC). 896-foot span option	July 1986
Box 003	003	035	Beauchamp, J.C. Comparison study of truss design option and cable stayed design Option and notes (12)	October 1986
Box 003	003	036	McMillan, T. Report from Parliament (including a Bridge to the Mainland)	November 1986
Box 003	003	037	Public Works Canada. Secret Memorandum to Cabinet Proposing Study and Cabinet Agreement (2) Requires clearance/ATIP from responsible departments	November 1986

Location	Series	Folder	Folder Title	Date
Box 003	003	038	Public Works Canada. Flyer on Need for Fixed Crossing	N.D.
Box 003	003	039	Financial Aspects of Ferry Service	N.D.

SERIES 003 NORTHUMBERLAND CROSSING PROJECT: PUBLIC WORKS CANADA

Location	Series	Folder	Folder Title	Date
Box 003	003	040	Achimov, D. Questions from IEE information sessions (3)	December 1987
Box 003	003	041	Achimov, D. Minister's Comments on Environmental Impact Panel	December 1988
Box 003	003	042	ATV Evening News. Interviews on six crossing proposals- Transcript	June 1988
Box 003	003	043	Beauchamp, J.C. Traffic Rail Barrier System 2 and Reinforced Concrete System 6 (10)- Notes	December 1986
Box 003	003	044	Beauchamp, J.C. Project organization- Notes	c1987
Box 003	003	045	Beauchamp, J.C. Loading and Superstructure (40)- Personal technical notes	c1987
Box 003	003	046	Beauchamp, J.C. Review of Superstructure - NCL Design	January 1987
Box 003	003	046A	Beauchamp, J.C. Discussion with Buckland and Taylor	January 1987
Box 003	003	047	Beauchamp, J.C. Wind Impacts and Design Issues Raised by Consultant P. Irwin - Notes	February 1987
Box 003	003	047A	Beauchamp, J.C. Re: Acres positioning	April 1987
Box 003	003	047B	Beauchamp, J.C. Need for consulting services	May 1987
Box 003	003	048	Beauchamp, J.C. Bridge costs (3)- Personal notes	May 1987
Box 003	003	049	Beauchamp, J.C. Use of exotic steels (3)	May 1987
Box 003	003	049A	Beauchamp, J.C. Meeting with Whitman Benn & Associates (5)- Notes	May 1987
Box 003	003	050	Beauchamp, J.C. Need for Independent Checks	June 1987

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Location	Series	Folder	Folder Title	Date
Box 003	003	051	Beauchamp, J.C. Discussion with Dr Dilger- Contractor Stephenson response on expression of interest- Letter	June 1987
Box 003	003	052	Beauchamp, J.C. Navigation Spans- Letter	June 1987
Box 003	003	053	Beauchamp, J.C. Coles Bridge Safety Study (4)- Notes and memos	June 1987
Box 003	003	054	Beauchamp, J.C. 700 to 750 Foot Span Range Alternative	July 1987
Box 003	003	055	Beauchamp, J.C. Memo to J.A.Feltham on Span Lengths	July 1987
Box 003	003	056	Beauchamp, J.C. Memo to J.A.Feltham on Tunnel Report by Geoconsult	July 1987
Box 003	003	057	Beauchamp, J.C. Draft engineering specification and notes (4)	September- November 1987
Box 003	003	058	Beauchamp, J.C. Rail and curb system (7)- Personal technical notes	September 1987
Box 003	003	059	Beauchamp, J.C. PEI- Acres Study	September 1987
Box 003	003	060	Beauchamp, J.C. Safety Factors- Notes	September 1987
Box 003	003	061	Beauchamp, J.C. Bridge Safety (15)- Personal notes	September 1987
Box 003	003	062	Beauchamp, J.C. Navigation Channel Specifications - Letter	September 1987
Box 003	003	062A	Beauchamp, J.C. Bridge and collision risk- Letter	September 1987
Box 003	003	063	Beauchamp, J.C. PEI Fixed Crossing- Draft Specifications	September 1987
Box 003	003	063A	Beauchamp, J.C. Northumberland Strait Crossing- Notebook	1988
Box 003	003	064	Beauchamp, J.C. Bridge Safety Against Ship Collisions	March 1988

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French proofreading by Céline Mongeau, Linda Larocque Linguistic Services, 06-2018

Location	Series	Folder	Folder Title	Date
Box 003	003	065	Beauchamp, J.C. Monenco Maritimes Ltd Letter of March 17 1988- Comment	March 1988
Box 003	003	066	Beauchamp, J.C. Road Width- Notes (4)	March 1988
Box 003	003	067	Beauchamp, J.C. Twin Tunnel- Memos and notes (3)	April 1988
Box 003	003	067A	Beauchamp, J.C. Capacity planning- Letter	May 1988
Box 003	003	067B	Beauchamp, J.C. Engaging of expert advisory services (9)	June 1988
Box 003	003	068	Beauchamp, J.C. Meeting with PEI Crossing Venturers (4)- Notes	August 1988
Box 003	003	068A	Beauchamp, J.C. Mackinac bridge- Trip report	November 1988
Box 003	003	069	Beauchamp, J.C. Three items of concern (winds, booths and rails)- Letter	December 1988
Box 003	003	070	Beauchamp, J.C. Annacis Bridge (6)- Technical notes	c. 1989
Box 003	003	071	Beauchamp, J.C. Work Plan from J.A. Feltham - Comments	February 1989
Box 003	003	072	Beauchamp, J.C. Funen-Sprogo Bridge, Denmark (3)	June 1989
Box 003	003	073	Beauchamp, J.C. Slating options (4)- Notes	September 1989
Box 003	003	074	Beauchamp, J.C. Tunnel Advance Rates	N.D.
Box 003	003	075	Beauchamp, J.C. Personal Notes (5)	N.D.
Box 003	003	076	Beauchamp, J.C. Tidal resonance- Personal notes	N.D.
Box 003	003	077	Beauchamp, J.C. Advisory panel- Personal notes	N.D.
Box 003	003	078	Beauchamp, J.C. 'Why not build a 6-span suspension bridge'- Notes	N.D.
Box 003	003	079	Beauchamp, J.C. Overview of Facility Requirements (2)	N.D.
Box 003	003	080	Beauchamp, J.C. PEI Crossing Venturers Ltd (6)- Dead and Live Load Notes	N.D.

Location	Series	Folder	Folder Title	Date
Box 003	003	081	Beauchamp, J.C. Materials and Admixtures of 7 Proposals	N.D.
Box 003	003	081A	Canadian Environmental Assessment Research Council- Risk Management	1986
Box 003	003	082	Canadian Coast Guard. Ice Climate studies (3)- Letters	July-August 1987
Box 003	003	083	Canadian Coast Guard. Reconsideration of Navigation Channel- Confirmation	September 1987
Box 003	003	084	Crawford, J. Ventilation, Toll Booth Queues, Vehicle Storage	July 1988
Box 003	003	085	Delcan (Stone & Webster), Saunders, G. List of 24 Current Reports (2)	January 1988
Box 003	003	086	Delcan (Stone & Webster). Performance Standards Review Meeting- Minutes	March 1988
Box 003	003	087	Delcan (Stone & Webster). Visit to UK and Scandinavia- Notes	March 1988
Box 003	003	088	Delcan (Stone & Webster). Review Meeting with Borden Bridge	April 1988
Box 003	003	089	Delcan (Stone & Webster). Proposal Call, Requirements for Environmental Assessment, Review and Planning	May 1988
Box 003	003	090	Delcan (Stone & Webster). Project Contact List	August 1988
Box 003	003	091	Delcan (Stone & Webster). Proposal Call on Insurance	September 1988
Box 003	003	092	Delcan (Stone & Webster). "Tunnel vs Bridge for Canadian Fixed Link"- Article	November 1988
Box 003	003	093	Delcan (Stone & Webster). Proposal Chronology	December 1988
Box 003	003	094	Delcan (Stone & Webster). Letter to J.A. Feltham on Project Stages IV & V (including abstracts of 3 proposals- SCI, PEI Bridge, Borden Bridge)	December 1988

Location	Series	Folder	Folder Title	Date
Box 003	003	095	Delcan (Stone & Webster). Draft Terms of Reference for Environmental Assessment and Review Process (3)	February 1989
Box 003	003	096	Delcan (Stone & Webster). Letter to G. Hebert to review Concept Assessment	April 1989
Box 003	003	097	Delcan (Stone & Webster). Tunnelling	October 1989
Box 003	003	098	Delcan (Stone & Webster). Cost/Benefit Analysis	November 1989
Box 003	003	099	Dept of Fisheries and Oceans. Criteria for Bridge - Pier Spacing	July 12 1988
Box 003	003	100	Dorton, R.A. "Suggestions for Stage II Invitation for Proposals , and additional concerns on Performance Standards Section D 4.1.3.2" (2)	January 1988
Box 003	003	101	Dorton, R.A. "Additional Concerns on Performance Standards Section D 4.1.3.2" (2)	February 1988
Box 003	003	102	Dorton, R.A. PEI Crossing Venturers Bridge Proposal- Comments	September 1988
Box 003	003	103	Duncan, G.R. Commitments To-date	April 1987
Box 003	003	104	Duncan, G.R. Environmental Assessment- Aide Memoire	December 1988
Box 003	003	105	Duncan, G.R. Northumberland Strait Crossing Project- Environmental Review (2)	February 1989
Box 004	003	001	Federal Environmental Assessment Review Office. Public Hearings- announcements and documentation (11)	January 1989 to February 1990
Box 004	003	002	Feltham, J.A. Consultant Briefing (2)	February 1987
Box 004	003	003	Feltham, J.A. Proposed List of Activities for Stage I	March 1987
Box 004	003	004	Feltham, J.A. Consultant reports and studies (2)- Summary	November 1987

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Location	Series	Folder	Folder Title	Date
Box 004	003	005	Feltham, J.A. 11-metre minimum road width (4)- Memos	February-March 1988
Box 004	003	005A	Feltham, J.A. Pricing delay- Memo	December 1988
Box 004	003	005B	Feltham, J.A. Tourist centre- Memo	January 1989
Box 004	003	006	Feltham, J.A. Risk management and rejection of tunnel proposal- Letter to J. Clarke of FEARO	June 1989
Box 004	003	007	Feltham, J.A. Tunnel Proposal Rejection- Public Meeting Questions	June 1989
Box 004	003	008	Feltham, J.A. Bridge Concept Assessment Document- Evaluation	November 1989
Box 004	003	009	Fixed Link, Peer, G.A. article 'It's Down to the Wire'	N.D.
Box 004	003	010	Freeman, N.S. Lavalin Proposal - Assessment	April 1987
Box 004	003	011	Freeman, N.S. Lavalin proposal - Notes	April 1987
Box 004	003	012	Geological Survey of Canada. Potential Dredging Opportunities	December 1989
Box 004	003	013	Grigrah, M. of Marine Works. Wind Climate Data	September 1988
Box 004	003	014	Maritime Atlantic. Traffic Report	1987
Box 004	003	015	Maritime Atlantic. Ferry Rates and Schedules	1988
Box 004	003	016	Minister of the Environment. Environmental Panel Appointment - Press release	April 1989
Box 004	003	017	Minister of Public Works Canada. Memorandum to Cabinet	September 1988
Box 004	003	018	Press. Clippings (7)	1986
Box 004	003	018A	Press. Clippings (40)	1987
Box 004	003	018B	Press. Clippings (29)	1988
Box 004	003	018C	Press. Clippings (17)	1989

Location	Series	Folder	Folder Title	Date
Box 004	003	019	Press. Clippings- environmental reviews (7)	1989
Box 004	003	019A	Press. Clipping (1)	1990
Box 004	003	020	Public Works Canada. Project status report #6, 10, 14, 15 (4)	1987- 1988
Box 004	003	021	Public Works Canada. Rejection of Seimac as Consultant	March 1987
Box 004	003	022	Public Works Canada. Stage I Proposal Call Document (5, including drafts and French version)	April 1987
Box 004	003	023	Public Works Canada. Stage I Proposal Call Document	April 1987
Box 004	003	024	Public Works Canada. Draft Reactions to Various Reports	June 1987
Box 004	003	025	Public Works Canada. Draft Reaction re: Reports Received To-date	June 1987
Box 004	003	025A	Public Works Canada. Sandwell Swan Wooster - Summary format of wind, waves, tides and currents	June 1987
Box 004	003	026	Public Works Canada. Sandwell Swan and Wooster - Assessment of Wind, Waves, Tides & Currents- Comments	July 1987
Box 004	003	027	Public Works Canada. <i>Strait Facts</i> No. 1-12, 14 (13)	July 1987- February 1989
Box 004	003	028	Public Works Canada. Memorandum to Cabinet Reporting on Study and Cabinet Agreement (2)	July 1987
Box 004	003	029	Public Works Canada. Bridge and Collision Risk	September 1987
Box 004	003	030	Public Works Canada. Submission to Treasury Board including Stage I call for interest, evaluation reports of bidders and background	September 1987
Box 004	003	031	Public Works Canada. Proposal Call Document; Expressions of Interest; List of firms (4)	October 1987

Location	Series	Folder	Folder Title	Date
Box 004	003	032	Public Works Canada. Request to Enter Consultant Agreement with Delcan (Stone & Webster), and Contract (2)	November-December 1987
Box 004	003	033	Public Works Canada. Decision on Bridge Pathways for Pedestrians and Cyclists	November 1987
Box 004	003	034	Public Works Canada. Crossing Coordinate Clarification	December 1987
Box 004	003	035	Public Works Canada. Proposal Call (2)	February 1988
Box 004	003	036	Public Works Canada. Proposed Revisions to Section 4 of the Requirements Document- List	February 1988
Box 004	003	037	Public Works Canada. Regional Industrial Benefits Draft Requirements	March 1988
Box 004	003	038	Public Works Canada. Architectural and Engineering Services Control Committee - Meeting No. 4, Minutes	March 1988
Box 004	003	038A	Public Works Canada. Proposal Call - Section 4	March 1988
Box 004	003	039	Public Works Canada. Proposal Call - Development Agreement	March 1988
Box 004	003	040	Public Works Canada. Proposal Call including Addenda	March 1988
Box 004	003	041	Public Works Canada. Revised Requirements for Environmental Assessment	March 1988
Box 004	003	042	Public Works Canada. Clarification Document - Excerpt	April 1988
Box 004	003	043	Public Works Canada. Risk of Vessel Collision Against Bridge	April 1988
Box 004	003	044	Public Works Canada. Proposal Call - Addendum 1	April 27 1988
Box 004	003	045	Public Works Canada. Proposal Call - Addenda 2 & 3 (3)	May 1988

Location	Series	Folder	Folder Title	Date
Box 004	003	046	Public Works Canada. Points to Consider on 6 Developers; Assumptions in 6 Proposals (2)	June 1988
Box 004	003	047	Public Works Canada. Tunnel Option	June 1988
Box 004	003	047A	Public Works Canada. 4.1.2.2 Addendum	July 1988
Box 004	003	048	Public Works Canada. Charlottetown Developer Meeting (3)	July 1988
Box 004	003	049	Public Works Canada. Charlottetown Meeting ADM package, including preliminary evaluation of 7 responders (10)	July 1988
Box 004	003	050	Public Works Canada. Discussion on Narrative of PEI Crossing Venturers Proposal	July 1988
Box 004	003	051	Public Works Canada. Submission to Treasury Board for preliminary project approval including project brief (2)	July 1988
Box 004	003	051A	Public Works Canada – Clarification of financial requirements	August 1988
Box 004	003	052	Public Works Canada, Environmental Engineering Working Group. Evaluation of 7 proposals	September 1988
Box 004	003	053	Public Works Canada. Evaluation Coordinating Committee Meeting including Table of Responder Ratings (2)	September 1988
Box 004	003	054	Public Works Canada. Announcement of Three Fixed Link Finalists (8)- Press kit	September 1988
Box 004	003	055	Public Works Canada. reporting structure	December 1988
Box 004	003	056	Public Works Canada. Northumberland Fixed Crossing- Economic Development Opportunities in Borden- Tormentine Area	November 1988
Box 004	003	057	Public Works Canada. Meeting with Borden Bridge (4)- Minutes	December 1988
Box 004	003	058	Public Works Canada. Fisheries Liaison Committee	January 1989

Location	Series	Folder	Folder Title	Date
Box 004	003	059	Public Works Canada. Jan 18 Vendor Meeting (2)- Notes	January 1989
Box 004	003	060	Public Works Canada. Triton Consulting Contract on Tidal Resonance	January 1989
Box 004	003	061	Public Works Canada. Ferry/bridge risk assessment (3)	January 1989
Box 004	003	062	Public Works Canada. Summary Table of Proposal Assumptions	April 1989
Box 004	003	063	Public Works Canada. Worst Case Scenarios (2)	September 1989
Box 004	003	064	Public Works Canada. Supplement to the Bridge Concept Assessment	December 1989
Box 004	003	065	Public Works Canada, Westland, G.R. - Letters to P.C. Letellier of the Accommodation Sector (2)	December 1989
Box 004	003	066	Public Works Canada. Northumberland Strait Crossing - General Outline	N.D.
Box 004	003	066A	Public Works Canada. Stage I Proposal Call - Review and Overview of Responders (2)	N.D.
Box 004	003	066B	Public Works Canada – Stage II Proposal Call - format and content	N.D.
Box 004	003	067	Public Works Canada. Proposal Call- Process Flow charts (2)	N.D.
Box 004	003	068	Public Works Canada. Stage II Proposal Call - bidder information (4)	N.D.
Box 004	003	069	Public Works Canada. Stage II Proposal Call - bidder organization chart (2)	N.D.
Box 004	003	071	Public Works Canada. Suggested Procedure and Schedule	N.D.
Box 004	003	072	Public Works Canada. Summary of Material Received for Stage I expressions of interest (2)	N.D.
Box 004	003	073	Public Works Canada. Section D Performance Standards Document- Draft	N.D.

Location	Series	Folder	Folder Title	Date
Box 004	003	074	Public Works Canada. Section D Facility Performance Requirements including Appendices	N.D.
Box 004	003	075	Public Works Canada. Northumberland Strait Crossing - Timelines (2)	N.D.
Box 004	003	076	Public Works Canada. Distribution lists of consultants and bidders (7)	N.D.
Box 004	003	077	Public Works Canada. Proposal Evaluation Organization	N.D.
Box 004	003	078	Second Symposium on Strait Crossings. acceptance of J.A. Feltham abstract, brochure (2)	November 1989
Box 004	003	079	Transportation Bridge Engineering. Examination of Plans and Specifications	January 1987
Box 004	003	080	Transport Canada. Contingency Planning- Letter	October 1989
Box 004	003	081	Transport Canada, Cote, J.I.G. Ice Breakers	April 1987
Box 005	003	001	Large photos of bridge construction and several concept photos (10)	1987
Box 005	003	002	Port Borden PEI. Photos (26) (+ negatives)	April 1987
Box 005	003	003	Technical drawings (>20) Part 1	c1988
Box 005	003	004	Technical drawings (>20) Part 2	c1988
Box 005	003	005	Maps (5)	N.D.
Box 005	003	006	Bridge Concept. Photos (4)	N.D.
Box 005	003	007	Literature on bridge technologies (for complete articles see relevant subject files) (7)	1987-1989

SERIES 003 NORTHUMBERLAND CROSSING PROJECT: CONSULTANT STUDIES

Location	Series	Folder	Folder Title	Date
Box 005	003	008	Acres International. Ice Forces Report and Personal notes (2)	March 1987

Location	Series	Folder	Folder Title	Date
Box 005	003	009	Acres International. Estimates for additional items of work	September 1987
Box 005	003	010	Acres International. Substructure Ice Forces	May 1987
Box 005	003	011	Anistics Ltd. Review of Minimum Insurance Standards	August 1988
Box 005	003	012	Artec. Review Comments of Part of Section D of the Performance Standards	February 1988
Box 005	003	013	Allardice & Associates. Vessels Operating in the Strait (2)	May 1987
Box 005	003	014	Bercha & Associates. Ice Climate Study	February 1988
Box 005	003	015	Bercha & Associates. Ice Climate Study Preliminary Conclusions	February 1988
Box 005	003	016	Bercha & Associates. Analysis of 6 submissions and effects on ice regime; review of Technology Ice Jamming Model (3)	July-August 1988
Box 005	003	017	Bercha & Associates. Evaluation of 6 proposals (2)	August 1988
Box 005	003	018	Buckland & Taylor. Cable Stayed Bridge- Options (4)	October 1986
Box 005	003	019	Buckland & Taylor. Cable Stayed Bridge- Designs	October 1986
Box 005	003	020	Canadian Atlantic Fisheries Scientific Advisory Committee. Biological and Oceanographic Factors	1988
Box 005	003	021	Coles Associates. Work plan for Vessel Traffic and Bridge Safety Study and Public Works Canada Terms of Reference (2)	April 1987
Box 005	003	022	Coles Associates. Vessels Requesting Help in the Straits (3)	April 1987
Box 005	003	023	Coles Associates. Vessel Traffic and Bridge Safety Study - Draft	June 1987
Box 005	003	024	Coles Associates. Vessel Traffic and Bridge Safety Study	August 1987

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Location	Series	Folder	Folder Title	Date
Box 005	003	025	Coles Associates. Vessel Traffic and Bridge Safety Study (2)- Draft	July 1987
Box 005	003	026	Coles Associates. Vessel Traffic and Bridge Safety Study (4)- Revised chapter 5	August 1987
Box 005	003	027	Coles Associates. Vessel Traffic and Bridge Safety Study	August 1987
Box 005	003	028	DRC Consultants. Introductory Communications (4)	1987-1988
Box 005	003	029	DRC Consultants, Tang, M. Review of PEI Crossing-scheme Schlaich (5)	August 1988
Box 005	003	030	Eastern Designers and Co. Preliminary Results of Erosion, Sedimentation and Scour (3)	June 1988
Box 005	003	031	Eastern Fisherman's Federation. Viewpoint Favouring Deep-level Tunnel	April 1988
Box 005	003	032	Fiander-Good Associates. Final Report Economic Feasibility Assessment- Draft	July 1987
Box 005	003	033	Fleet Technology Ltd. Ice Forces and Ship Collisions- Report and related letters (3)	July 1988
Box 005	003	034	Fleet Technology Ltd. Ice Bridging Review	July 1988
Box 005	003	035	Fleet Technology Ltd. Comments on Aug 3 letter from FG Bercha, Preliminary Review of Bercha Ice Jamming Model (2)	August 1988
Box 005	003	036	Fleet Technology Ltd. Review of Resubmissions of PEI Bridge, PEI Crossing Venture and Northumberland Bridge	August 1988
Box 005	003	037	Foundation Co. of Canada, Yan, H.T. "The Northumberland Strait Crossing" (unauthorized article for Canadian Journal of Civil Engineering) (3)	January 1987
Box 005	003	038	Geoconsult. Evaluation Report on PEI Crossing Tunnel Proposal, personal notes, review comments (3)	July 1988
Box 005	003	039	Hatch Associates. Possible Participation in Blue Ribbon Committee	February 1988

Location	Series	Folder	Folder Title	Date
Box 005	003	040	Hurley Fisheries Consulting. "The Bridge, Ice and Fisheries Relationships"	July 1988
Box 005	003	041	Maunsell Consultancy. Agabweit Crossing- Ice Jamming Model	August 1988
Box 005	003	042	Monenco Maritimes Ltd. Letter on Impact and Bridge Pier Design	March 1988
Box 005	003	043	Monenco Maritimes. Impact and Bridge Pier Design, and addition of Bouygues to consortium (2)	March 1988
Box 005	003	044	Northumberland Consulting. Terms of Reference Superstructure (4)	1987
Box 005	003	045	Peter Bein Consulting. Vessel Traffic and Bridge Safety	June 1987
Box 005	003	046	Philpott Associates Coastal Engineering. Review of Bridge Pier Issues with Reference to Scour of Northumberland Strait Till	March 1988
Box 005	003	047	P. Lane & Associates. Environmental Study - Information Report	October 1987
Box 005	003	048	P. Lane & Associates. Generic Initial Environmental Evaluation	March 1988
Box 006	003	001	Rowan Williams Davies & Irwin (RWDI). Wind Assessments	September 1988
Box 006	003	002	Rowan Williams Davies & Irwin (RWDI). Wind Aspects of PEI Crossing Venturers (2)- Review	September 1988
Box 006	003	003	Rowan Williams Davies & Irwin (RWDI). Design Wind Speeds	December 1988
Box 006	003	004	Sable Maritime Ltd. Large Scale In-plane Ice Pressures	September 1987
Box 006	003	005	Sandwell Swan Wooster Inc. Assessment of Winds, Waves, Tides and Currents (3)	March-May 1987
Box 006	003	006	Sandwell, Swan Wooster Inc. introduction consultancy package (2)	January 1987
Box 006	003	007	Sandwell Swan Wooster Inc. Assessment of Winds, Waves, Tides and Currents- Final Draft	May 1987

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Location	Series	Folder	Folder Title	Date
Box 006	003	008	Sandwell Swan Wooster Inc. Assessment of Winds, Waves, Tides and Currents	October 1987
Box 006	003	009	Whitman, Benn & Associates. Superstructure Project Workplan	February 1987
Box 006	003	010	Whitman, Benn & Associates. Dead and Live Load Reactions	March 1987
Box 006	003	011	Whitman, Benn & Associates. Superstructure loading calculations (4)	April-May 1987

SERIES 003 NORTHUMBERLAND CROSSING PROJECT: TENDER PROPOSALS

Location	Series	Folder	Folder Title	Date
Box 006	003	012	Abegweit Crossing Ltd. Areas of special interest including bridge clearance; ice forces and pier spacing (3)- Report and follow-on letters	July-August 1988
Box 006	003	013	Abegweit Crossing Ltd. Resubmissions of Sections 2, 3, 4 and 7	August 1988
Box 006	003	014	Borden Bridge Co. Stage II Facility Concept Proposal- Drawings Resubmission (Volume 2AR)	April 1988
Box 006	003	015	Borden Bridge Co. Stage II Facility Concept Proposal- Executive Summary (Volume 1)	June 1988
Box 006	003	016	Borden Bridge Co. Stage II Facility Concept Proposal- Facility Concept Solution (Volume 2)	June 1988
Box 006	003	017	Borden Bridge Co. Stage II Facility Concept Proposal- Drawings (Volume 2A)	June 1988
Box 006	003	018	Borden Bridge Co. Stage II Facility Concept Proposal- Environmental Assessment Review and Planning (Volume 3)	June 1988
Box 006	003	019	Borden Bridge Co. Stage II Facility Concept Proposal- Management Approach (Volume 4)	June 1988
Box 006	003	020	Borden Bridge Co. Stage II Facility Concept Proposal- Developer Team's Capabilities and Experience (Volume 6)	June 1988
Box 006	003	021	Borden Bridge Co. Stage II Facility Concept Proposal- Regional Benefits Requirements (Schedule B Section 5)	June 1988
Box 006	003	022	Borden Bridge Co. Stage II Facility Concept Proposal- Regional Benefits Requirements Resubmission (Schedule B Section 5)	July 1988
Box 006	003	023	Borden Bridge Co. Stage II Facility Concept Proposal- Facility Concept Solution Resubmission (Volume 2R)	July 1988
Box 006	003	024	Borden Bridge Co. Stage II Facility Concept Proposal- Environmental Assessment Review and Planning Resubmission (Volume 3R)	July 1988

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Location	Series	Folder	Folder Title	Date
Box 006	003	025	Borden Bridge Co. Stage II Facility Concept Proposal-Management Approach Resubmission (Volume 4R)	August 1988
Box 006	003	026	Borden Bridge Co. Technical Working Group Conditions- Response	September 1988
Box 006	003	027	Borden Bridge Co. Calibration of Project	December 1988
Box 006	003	028	Borden Bridge Co. Northumberland Strait Fixed Crossing- Brochure and press release (2)	N.D.
Box 006	003	029	Keweiit Sons Co. Request for June 24 th Meeting with DM and ADM	May 1986
Box 006	003	030	Keweiit Sons Co. Request for meeting to discuss identified Stage I questions and J.C. Beauchamp notes on meeting (2)	May 1987
Box 006	003	029	PEI Bridge Ltd. Facility Concept Solution- Addendum to resubmission of Chapter 2	August 1988
Box 006	003	030	PEI Bridge Ltd. Facility Concept Solution Chapter 2- Resubmission	N.D.
Box 006	003	031	PEI Bridge Ltd. Environmental Requirements- Response to Question 1 Experience- Resubmission of Chapter 3	N.D.
Box 007	003	001	PEI Bridge Ltd. Northumberland Strait Crossing Project Volume 1 (Section 1-2 excluding financing)	June 1988
Box 007	003	002	PEI Bridge Ltd. Northumberland Strait Crossing Project Volume 1 (Section 3)	June 1988
Box 007	003	003	PEI Bridge Ltd. Northumberland Strait Crossing Project Volume 2 (Section 4-7, appendix)	June 1988
Box 007	003	004	PEI Bridge Ltd. Resubmission Addendum to Question 5 (Section 3.2.2)	August 1988
Box 007	003	005	PEI Bridge Ltd. Resubmission of Chapter 3 Environmental Requirements	August 1988
Box 007	003	006	PEI Bridge Ltd. Chapter 4 Management Approach- Resubmission	N.D.

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Box 007	003	007	PEI Bridge Ltd. Schedule B Chapter 5 Canadian and Regional Benefits- Resubmission	N.D.
Box 007	003	008	PEI Crossing Venturers. Profile of joint venture; Tunnel Cross-section (2)	June 1988
Box 007	003	009	PEI Crossing Venturers. Answers to List of Deficiencies	c.August 1988
Box 007	003	010	PEI Crossing Venturers. Resubmission 2.0 Facility Concept Solution	August 1988
Box 007	003	011	Northumberland Bridge Corp. Pre-stage III Concerns, Pertinent Issues (2)	June 1988
Box 007	003	012	Strait Crossing Inc. Proposal (Sections 1-2)	June 1988
Box 007	003	013	Strait Crossing Inc. Proposal (Sections 3-4)	June 1988
Box 007	003	014	Strait Crossing Inc. Proposal (Sections 5)	June 1988
Box 007	003	015	Strait Crossing Inc. Proposal (Sections 2) - Resubmission	August 1988
Box 007	003	016	Strait Crossing Inc. Proposal (Sections 4) – Resubmission	August 1988
Box 007	003	017	Strait Crossing Inc. Proposal (Schedule B, Section 5) - Resubmission	August 1988
Box 007	003	018	Strait Crossing Inc, Borden Bridge Co. and PEI Bridge Ltd. Complaints to Public Works Canada on Ad Hoc Environmental Study	January 1989

SERIES 004. BRIDGE SUBJECT FILES

Location	Series	Folder	Folder Title	Date
Box 008	004	001	Bridges. General	n.d., 1957-1966
Box 008	004	002	Bridges. General	1970-19870
Box 008	004	003	Bridges. Cable-Stayed – ALRT Bridge, Vancouver	1986-1988
Box 008	004	004	Bridges. Cable-Stayed – Annacis Bridge, Vancouver Pt. 1	1982-1987
Box 008	004	005	Bridges. Cable-Stayed - Annacis Bridge, Vancouver Pt. 2	1982-1987
Box 008	004	006	Bridges. Cable-Stayed – Articles, Clippings	1971-1987

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Location	Series	Folder	Folder Title	Date
Box 008	004	007	Bridges. Cable-Stayed – Article, Bibliographies	1978-1989
Box 008	004	008	Bridges. Cable-Stayed – ASCE Symposium, Proceedings	May 1988
Box 008	004	009	Bridges. Cable-Stayed - Bethlehem Steel, Offprints	1966-1970
Box 008	004	010	Bridges. Cable-Stayed – Cable Deterioration, Articles	1982-1988
Box 008	004	011	Bridges. Cable-Stayed - Design Pt. 1	1966-1981
Box 008	004	012	Bridges. Cable-Stayed – Design Pt. 2	1966-1981
Box 008	004	013	Bridges. Cable-Stayed - Design and Testing, Recommendations	1986-1989
Box 008	004	014	Bridges. Cable-Stayed – Dr. Manabu Ito, Articles, Correspondence	1987
Box 008	004	015	Bridges. Cable-Stayed – Engineering Symposium	Dec. 1977
Box 008	004	016	Bridges. Cable-Stayed – Figg and Muller / Figg Engineering, Articles	1983-1990
Box 008	004	017	Bridges. Cable-Stayed - General, Articles	1968-1975
Box 008	004	018	Bridges. Cable-Stayed - General, Articles	1969-1986
Box 008	004	019	Bridges. Cable-Stayed - Ponts Haubanes, Course, Workbook	1981
Box 008	004	020	Bridges. Cable-Stayed - Problems	1977, 1987-1988
Box 008	004	021	Bridges. Cable-Stayed – Schlaich und Partner, Bridge Catalogue	n.d.
Box 008	004	022	Bridges. Cable-Stayed /Suspension – Canada, Evaluation Form	1977
Box 008	004	023	Bridges. Cable-Stayed – Tentative Recommendations	1977
Box 008	004	024	Bridges. Cable-Stayed – U.S. Dept. of Transportation, Structural Engineering Series # 4	1978
Box 008	004		Bridges. Cable-Stayed – U.S. Examples	1981-1987
Box 009	004	001	Bridges. Caissons – Articles, clippings	1973-1986
Box 009	004	002	Bridges. Cantilever – Articles	1938, 1980
Box 009	004	003	Bridges. Concrete – Deterioration	1974
Box 009	004	004	Bridges. Concrete – General	1951, 1971-1973
Box 009	004	0005	Bridges. Concrete - General	1974-1979
Box 009	004	006	Bridges. Concrete - General	1980-1989
Box 009	004	007	Bridges. Concrete – Precast deck slabs	1953, 1973-1982
Box 009	004	008	Bridges. Concrete – Precast Segmental Construction	1975
Box 009	004	009	Bridges. Decks – Steel Grating	1934, 1968-1983
Box 009	004	010	Bridges. Ice Effects – Articles, Questionnaires	1973-1976
Box 009	004	011	Bridges. Loading – Limit State Design Pt. 1	1960, 1970-1979
Box 009	004	012	Bridges. Loading - Limit State Design Pt. 2	1960, 1970-1979
Box 009	004	013	Bridges. Loading - Memos, Calculations Pt. 1	1981-1982
Box 009	004	014	Bridges. Loading – Memos, Calculations Pt. 2	1981-1982

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Location	Series	Folder	Folder Title	Date
Box 009	004	015	Bridges. Loading - New Standards	1988
Box 009	004	016	Bridges. Long Span – Buckland and Taylor, Article	1977-1978
Box 009	004	017	Bridges. Long Span – Decks, Robinson Type	1952-1983
Box 009	004	018	Bridges. Long Span – General	1957, 1969-1988
Box 009	004	019	Bridges. Long Span – General Pt. 1	1957-1987
Box 009	004	020	Bridges. Long Span – General Pt. 2	1957-1987
Box 009	004	021	Bridges. Long Span – Loading Pt. 1	1953, 1978-1982
Box 009	004	022	Bridges. Long Span – Loading Pt. 2	1953, 1978-1982
Box 009	004	023	Bridges. Moveable – Cherry St. Bascule Bridge, Toronto, Thesis	1970, 1981
Box 010	004	001	Bridges. Moveable – General	n.d.
Box 010	004	002	Bridges. Moveable – St. Lawrence Seaway	1959, 1984-1990
Box 010	004	003	Bridges. Orthotropic (Box Girder) – Articles, Offprints	1957-1972
Box 010	004	004	Bridges. Orthotropic (Box Girder) – Articles, Offprints	1973-1987
Box 010	004	005	Bridges. Orthotropic (Box Girder) – Decks	1971, 1982-1983
Box 010	004	006	Bridges. Orthotropic (Box Girder) – St. John NB Harbour Bridge, Correspondence	1967
Box 010	004	007	Bridges. Pedestrian – Design	1976-1988
Box 010	004	008	Bridges. Piers – Scouring	1980, 1987
Box 010	004	009	Bridges. Probability Risk – Articles, Calculations Pt. 1	1976-1989
Box 010	004	010	Bridges. Probability Risk – Articles, Calculations Pt. 2	1976-1989
Box 010	004	011	Bridges. Protective Coatings – Articles	1979, 1987-1990
Box 010	004	012	Bridges. Protective Coatings – Guides	1987-1988
Box 010	004	013	Bridges. Rebuilding and Rehabilitation – Articles	1975, 1987-1989
Box 010	004	014	Bridges. Safety Factor – Statistical Analysis, Articles Pt. 1	1975-1976
Box 010	004	015	Bridges. Safety Factor – Statistical Analysis, Articles Pt. 2	1975-1976
Box 010	004	016	Bridges. Ship Collisions – Articles, Studies	1982-1987
Box 010	004	017	Bridges. Ship Collisions – Avoidance Systems, Notes	1983-1987
Box 010	004	018	Bridges. Ship Collisions – Calculations	1983-1986
Box 010	004	019	Bridges. Ship Collisions – Press Clippings Pt. 1	1965, 1977-1987
Box 010	004	020	Bridges. Ship Collisions – Press Clippings Pt. 2	1965, 1977-1987
Box 010	004	021	Bridges. Ship Collisions – Risk Analysis, Peter Benin	1984-1987
Box 010	004	022	Bridges. Ship Collisions – Studies	1979-1986
Box 010	004	023	Bridges. Ship Collisions – Studies	1987-1988
Box 010	004	024	Bridges. Ship Collisions – Sunshine Skyway Bridge, Tampa FL, Articles	1985-1988

Location	Series	Folder	Folder Title	Date
Box 011	004	001	Bridges. Ship Collisions – Sunshine Skyway Bridge, Tampa FL, Study	1985, 1987
Box 011	004	002	Bridges. Steel – Canadian Sheet Steel Building Institute, Composite Beam Manual	1968
Box 011	004	003	Bridges. Steel – General	1955-1983
Box 011	004	004	Bridges. Suspension – Early Examples	1901, 1914, 1930
Box 011	004	005	Bridges. Suspension – General	1933-1959
Box 011	004	006	Bridges. Suspension – General	1963, 1971-1979
Box 011	004	007	Bridges. State of the Art – Articles Pt. 1	1985-1990
Box 011	004	008	Bridges. State of the Art – Articles Pt. 2	1985-1990
Box 011	004	009	Bridges. Truss – Design, Articles	1936-1987
Box 011	004	010	Bridges. Truss – Long-Span, Articles	1975-1989
Box 011	004	011	Bridges. Truss – Prestressing, Articles	1936-1985
Box 011	004	012	Bridges. Wind Forces – Articles, Reports Pt. 1	1957, 1972-1989
Box 011	004	013	Bridges. Wind Forces – Articles, Reports Pt. 2	1957, 1972-1989
Box 011	004	014	Bridges. Wind Forces – Articles, Reports Pt. 3	1957, 1972-1989

SERIES 005 GENERAL SUBJECT FILES

Location	Series	Folder	Folder Title	Date
Box 011	005	015	Aerial Surveying. Articles, Contracts Pt. 1	1957-1966
Box 011	005	016	Aerial Surveying. Articles, Contracts Pt. 1	1957-1966
Box 011	005	017	American Society of Civil Engineering, Structures Division. "Glossary of Terms Pertaining to Structural Steel Engineering and Design" – Article	1971
Box 011	005	018	Association Francaise pour la Construction. "French Know-How in Bridge Building – Theme I-VII	1977
Box 011	005	019	Canadian National Master Construction Specification Code	1989
Box 011	005	020	Canadian Structural Engineering Conference. Box Girder Bridges – Papers	1974
Box 011	005	021	Concrete. Safety – Statistical Analysis, Articles	1927, 1971-1989
Box 011	005	022	Construction. Critical Path Method (CPM) – Manual	1984
Box 011	005	023	DRC Consultants Inc. Articles, Correspondence Pt. 1	1971-1988
Box 012	005	001	DRC Consultants Inc. Articles, Correspondence Pt. 2	1971-1988
Box 012	005	002	Engineering. Economic Analysis – Articles Pt. 1	1965-1987
Box 012	005	003	Engineering. Economic Analysis – Articles Pt. 2	1965-1987
Box 012	005	004	Engineering. Reliability Tolerances – Articles Pt. 1	1958-1977
Box 012	005	005	Engineering. Reliability Tolerances – Articles Pt. 2	1958-1977
Box 012	005	006	Environmental Assessments. Policy – Manuals Pt. 1	1985-1990

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Location	Series	Folder	Folder Title	Date
Box 012	005	007	Environmental Assessments. Policy – Manuals Pt. 2	1985-1990
Box 012	005	008	Graphic Methods for Symmetry Moment Distribution. Articles (see also Vol. 1, f. 2)	1936-1964
Box 012	005	009	Grouni, H.D. and A.S. Nowak. "Calibration of the Ontario Bridge Design Code: 1983 Edition" – Article	1984
Box 012	005	010	International Association for Bridge and Structural Engineering. Conference – Vancouver	1984
Box 012	005	011	Morrison Hershfield Ltd. Cold Weather Effects on Steel – Papers	1974, 1989
Box 012	005	012	O'Connor, Colin. "Design of Bridge Superstructures" – Book	1971
Box 012	005	013	Podolny, W. and J.B. Scazi. "Construction and Design of Cable-Stayed Bridges" – Book	1976
Box 012	005	014	Ritchie, J.K. "Steel Building Structures in Canada: An Overview" – Offprint	c.1981
Box 012	005	015	Rolfe, S.T. "Fracture Mechanics and the AASHTO Materials Toughness Requirements for Bridge Steel" – Paper, Corrections	[1976]
Box 012	005	016	Seismic Events. Building Codes	1983-1990
Box 012	005	017	Seismic Events. San Francisco Earthquake – Articles and Clippings	1989-1990
Box 012	005	018	Structures. Cable-Stayed – Articles	1985
Box 012	005	019	Tunnels. Articles	1981-1987
Box 012	005	020	U.S. Dept. of Commerce, Bureau of Public Roads. "Catalogue of Highway Bridge Plans"	c.1959
Box 012	005	021	Engineering Conferences. Proceedings – Title Pages, Photocopies	1978-1986
Box 012	005	022	Engineering Textbooks. Title Pages – Photocopies	1931-1987
Box 012	005	023	Individual Bridges and Engineers. Title Pages – Photocopies	1955-1984
Box 012	005	024	Trade Literature. Title Pages - Photocopies	1963-1989

SERIES 006 PHOTOS and SLIDES

Location	Series	Folder	Folder Title	Date
Box 013	006	001	Cheung, M. S. et al. "Measurements of Dynamic Characteristics in Composite Box Girder Bridges" – Lecture (24 slides)	n.d.
Box 013	006	002	Cheung, M. S. et al. "Dynamic tests on Box Girder Bridges" – Lecture (39 colour slides)	n.d.
Box 013	006	003	Public Works Canada. Kouchbouquac Bridge NB – Dynamic Testing (33 colour slides)	n.d.

Location	Series	Folder	Folder Title	Date
Box 013	006	004	Public Works Canada. Lower Blackstone and Hyland Bridges YK (32 colour slides)	n.d.
Box 013	006	005	Public Works Canada. Perley Bridge QC/ON – Rehabilitation, Lecture (57 colour slides)	n.d.
Box 013	006	006	Public Works Canada. Pooley Bridge, Ottawa (12 colour slides)	n.d.
Box 013	006	007	Public Works Canada. Portage Bridge, Ottawa – Negotiations with NCC, E.B. Eddy Co. (12 prints)	1970
Box 013	006	008	Public Works Canada. Olympic Bob Sled and Luge Runs, Calgary – Construction (33 colour prints, 57 colour slides)	Aug. 1980
Box 013	006	009	Public Works Canada. Olympic Ski Jump, Calgary – Construction (26 colour prints, 15 colour slides)	n.d.
Box 013	006	010	Public Works Canada. Olympic Ski Jump. Calgary – Construction (57 colour prints, 51 negs)	1985
Box 013	006	011	Public Works Canada. Olympic Speed Skating Oval, Calgary – Construction (50 colour slides, 84 negs)	1984-1985
Box 013	006	012	Public Works Canada. Olympic Speed Skating Oval, Calgary – Construction (59 colour slides)	1985-1986
Box 013	006	013	Public Works Canada. Olympic Ski Jump and Bob Sled Run, Calgary (30 colour prints)	1989
Box 013	006	014	Public Works Canada. Banff National Park – Upgrades to Highways and Bridges (45 colour prints, 10 colour slides, 72 negs)	1989
Box 013	006	015	Public Works Canada. Trans-Canada Highway – Sunshine Bridge, Twinning (12 negs)	n.d.
Box 013	006	016	UMA Engineering Ltd. Railway and Highway Bridges, Banff (5 colour prints)	1986
Box 013	006	017	Bridges. Cable-Stayed – Concordia Bridge, Montreal (8 colour prints, 6 colour slides)	1976
Box 013	006	018	Bridges. Cable-Stayed – Galipeault Bridge, Montreal (25 colour prints, 42 colour slides)	n.d.
Box 013	006	019	Bridges. Cable-Stayed – Long's Creek Bridge NB (6 colour prints, 3 colour slides)	n.d.
Box 013	006	020	Bridges. Cable-Stayed – Papineau Bridge, Montreal (8 colour prints)	n.d.
Box 013	006	021	Bridges. Cable-Stayed – Papineau Bridge, Montreal (67 colour slides)	n.d.
Box 013	006	022	Bridges. Cable-Stayed – Vancouver (3 colour prints, 74 colour slides, 6 transparencies)	1977
Box 013	006	023	Bridges. Cable-Stayed – Capt. William More Bridge, USA (5 colour slides)	n.d.
Box 013	006	024	Bridges. Cable-Stayed – Lulling Bridge MS (10 colour prints, 4 colour slides)	1986

Location	Series	Folder	Folder Title	Date
Box 013	006	025	Bridges. Cable-stayed – Pasco-Kennewick Bridge WA, Construction (28 colour prints)	1978
Box 013	006	026	Bridges. Concrete – Pont Chartrain, New Orleans (6 colour slides)	1986
Box 013	006	027	Bridges. Covered – Fort Coulonge QC (11 colour slides)	n.d.
Box 013	006	028	Bridges. Pedestrian – Kimberley-Cranbrook BC (6 colour prints, 6 colour slides)	1975
Box 013	006	029	Bridges. Pedestrian – Prince`s Island, Calgary (47 colour prints)	n.d.
Box 013	006	030	Bridges. Pedestrian – Prince`s Island, Calgary (30 colour slides)	n.d., 1971
Box 013	006	031	Bridges. Truss – Greater New Orleans Bridge LA (12 colour prints)	n.d.
Box 013	006	032	Bridges. Truss – Paisley ON (7 colour slides)	1983
Box 013	006	033	Tunnels. Gotthard (62 colour prints)	1988
Box 013	006	034	Lafontaine Tunnel-Bridge – A 1-50. (50 colour slides)	1964?-1969?
Box 013	006	035	Route Transcanadienne Section QH-2 – Pont-Tunnel L.H. Lafontains – Photographie des travaux (album)	