

Building People

Spring/Summer '06 News and Information from J.W. Lindsay Enterprises Limited

TILT-UP

New Facility Trained on Survival

PROJECT: Survival Systems
 SIZE: 16,300 sq.ft.
 DETAILS: aquatic survival training facility
 START/FINISH: August - April 2005
 METHOD: Tilt-up Design-Build
 DESIGNER: Lindsay

“Lindsay did a great job and were totally responsive to our ever changing needs throughout the project.”

– Albert Bohemier *President & CEO, Survival Systems*

PROPER TRAINING IS A matter of survival in life-threatening situations such as helicopter crashes over water. Survival Systems develops and provides training and education systems for such events, in a state-of-the-art new facility built to order by Lindsay.

The building was designed to bring realism of helicopter crash simulations to a new level. Survival Systems uses cranes to drop a helicopter simulator into the 30 x 50 x 16' deep pool, rotating the vessel to leave occupants upside down beneath the surface as they would be in an ocean crash. Trainees are instructed on techniques to permit them to escape in a safe manner and survive until help arrives. Even the worst types of storms found throughout an ocean setting are recreated within the facility, including high winds, rain, fog, and extreme waves, in both daylight and darkness.

Tilt-up concrete was a natural choice for the 70 x 140', 2-storey building, constructed using an energy efficient R-40 roof and R20 walls and many special features. The area surrounding the pool is column-free,

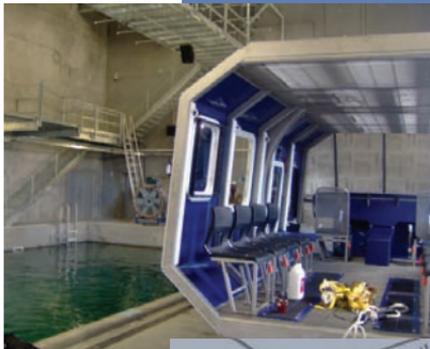
allowing for a reduced deck size. A moisture proof, durable finish around the pool area minimizes potential damage from the humid environment and from apparatus used to move heavy training equipment. Constructed of cast-in-place concrete, the pool features special inserts on the bottom and sides for attachment of training gear and conduits, customized for wiring of equipment for underwater filming. An 8' wide catwalk is situated 20' above the pool for mounting of equipment and jump training, with a full helicopter mockup for rappel training and hoist recovery.

Special consideration was also given to sound and heat transfer within the facility. Six inch solid concrete in three of the interior walls reduce sound transmission from the pool to classroom and office areas. The building is heated and cooled using waste heat from the pool dehumidification process, with assistance from ground source heat pumps. This process allows excess heat from the building to be stored in drilled wells for use in the heating season.

Albert Bohemier, President and CEO of Survival Systems, is enthusiastic about the results of this complex undertaking. "I am totally satisfied with the job. Peter Cox (Project Manager) and Max Meisner (Site Superintendent) did a great job and were totally responsive to our ever changing needs throughout the project!"

ABOVE: The helicopter simulator on the pool deck

INSET: The 300 sq.ft. helicopter image imbedded into the concrete exterior of the building.



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UPDATES

Cendant Car Rental Group

Cendant Car Rental Group, owner and operator of Avis and Budget car rental brands worldwide, is now preparing to serve its rental offices from a new facility near the Halifax International Airport. Situated on a 9 acre site near the Halifax International Airport, the RBS construction houses maintenance and detail bays, touchless car wash, office space, and a fueling island. The waterproof qualities of Royal Building System (a system of rigid polymer panels which interconnect and serve as permanent formwork for concrete walls) makes it a good choice where water is frequently in use for vehicle cleaning and maintenance. "We were looking for experience and competence in a builder and we found both in Lindsay," says Area Manager Robert Putnam. "They've helped steer us through the process on time and on budget, and I think we're in good hands."

"We were looking for experience and competence in a builder and we found both in Lindsay."

– Robert Putnam *Area Manager, Cendant Car Rental Group*

Herald Service Work

Lindsay recently built the much-anticipated Halifax Herald facility to house their state-of-the-art Wifag printing press, but the work didn't stop when the ribbon was cut. Mechanical Production Manager Mike Murtha needed a new conveyor support system for the mailroom and went straight to Service Group Superintendent Mannie Lewis, who had previously overseen implementation of 2 new conveyor systems at the Herald. Lindsay supplied the material, did the prefabrication, and installed the structure over a period of 5 months, working closely with the client in every stage. "There were a lot of modifications made as we went along, working around existing architecture etc," says Murtha. "We were able to work together as a team to rectify things as they came up and we are really happy with the results."



Laurence Smith, PEng

New TCA President 2006



The Tilt-up Concrete Association is an international organization of contractors, professionals, and manufacturers working to promote the quality, innovation and growth of tilt-up design and construction. No one has been a more staunch advocate of this building system than Lindsay engineer Laurence Smith, who has seen tilt-up come a long way in the past 20 years. Formerly seen in mainly warehouse-type commercial buildings, the use of these large site-cast concrete wall panels is expanding to applications never thought possible, including construction with distinctive architectural features and buildings of a much smaller scale.

Lindsay congratulates Laurence on being recognized as a leader in the dynamic and growing tilt-up industry.

TILT-UP

A Cooler Facility for Scotian Gold

PROJECT: Scotian Gold cooler facility

SIZE: 14,900 sq.ft.

DETAILS: controlled atmosphere apple storage facility

START/FINISH: late May - mid September, '05

METHOD: tilt-up design-build

DESIGNER: Lindsay/owner

FRESH APPLES ARE A Nova Scotia staple, with producers like Scotian Gold ensuring the availability of the product to consumers year round. This takes a very special storage facility, with some unusual requirements.

The new Scotian Gold facility in Coldbrook, Nova Scotia is comprised of 6 individually regulated storage cells (referred to as "controlled atmosphere storage") flanking a central cold storage only area, all within one building. Ripening times in each room are controlled by precisely regulating temperature and pumping in nitrogen to replace oxygen in the air. Rigid insulation sandwiched in concrete layers provides a very tightly insulated barrier for regulating and maintaining these conditions. The durability and low maintenance of tilt-up concrete is another important advantage, as interior walls are constantly exposed to potential damage from heavy equipment used in the transfer of the product to and from the storage cells.

The building experience has been a positive one for Scotian Gold Operations Manager Murdoch MacKenzie. "(Lindsay Project Manager) Ken Flinn has been great to work with, and we appreciated his straight-forward approach," he says. "The facility is excellent and we're very pleased with the result."

Durable interior walls at Scotian Gold



SERVICE GROUP

Gio Puts A Fresh Face Forward

PROJECT: Gio restaurant renovation

SIZE: 2,700 sq.ft.

DETAILS: complete interior renovation

START/FINISH: late January - late March '06

DESIGNER: Dawn MacLachlan/Melissa Cummings
(Susan Troup Design)

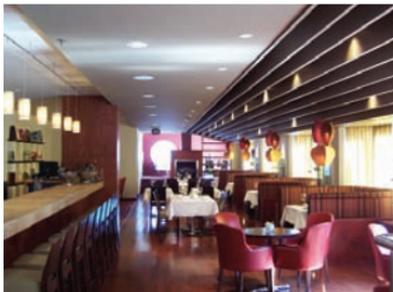
GIOGIO'S RESTAURANT IS stepping into the light with a new name and a new face, from its original space at The Prince George Hotel in downtown Halifax. Working within a tight 8 week deadline, interior designers Dawn MacLachlan and Melissa Cummings of Susan Troup Design developed the design concept, supplied blueprints, and worked closely with the Lindsay Service Group to bring the concept for Gio to fruition.

The Lindsay team quickly set about tearing up the floor and demolishing the walls. It was a dramatic makeover, with Lindsay Project Manager Aaron McCardle overseeing the transformation of a dark, outdated space to an inviting

and contemporary restaurant that will undoubtedly become "the place to be" for both visitors and Haligonians alike.

"The restaurant originally suffered from a bit of a split personality," says Dawn MacLachlan, in reference to the dual entrances to the space. "You could enter from either the hotel lobby or from the street, and there was no real sense of arrival." This was remedied by closing off these portals and creating a new and dramatic entrance off Market Street, bringing patrons directly to the maitre d' station. A long, dramatic picturestone bar creates a strong focal point upon entry, further enhanced by the illuminated acrylic wall panels mounted behind it. Round booths provide intimate and comfortable seating along the window side of the restaurant, with a 2 sided fireplace providing privacy to the raised dining level created for special gatherings.

The designers incorporated elements such as warm woods, silken draperies, and red "pleather" upholstery to create an elegant and comfortable space with "global influences," says MacLachlan.



"We were involved with Lindsay throughout the construction process, with weekly meetings and constant communication. Aaron McCardle (Lindsay Project Manager) and both Gordie Bishop Junior and Senior (Site Foreman and Site Superintendent) were very good to work with. They were able to come up with solutions as necessary."

Working as a team with designer, client and service professionals Lindsay brought this project to completion with impressive results. "Lindsay provided good service and we were really happy with the end product," confirms Byron Feener, Capital Projects Manager for Universal Property Management.

TILT-UP

A New Home for Brookfield Fire Department

PROJECT: Brookfield Fire Station

SIZE: 9,500 sq.ft.

DETAILS: single storey bi-level tilt-up building

START/FINISH: August '05 - December '05

METHOD: Tilt-up Design-Build

DESIGNER: John Dobbs and Associates/Lindsay

NESTLED IN A PICTURESQUE residential neighborhood in Brookfield, Nova Scotia, the new Brookfield Fire Station is a testament to the character and flexibility of the tilt-up building method.

"Ensuring that the building fit into the surrounding community was a top priority," says Lindsay Project Manager Devin Hartnell.

Though tilt-up is well suited to grand scale contemporary buildings, it also lends itself well to applications with a more traditional feel. The resulting design is clean and simple, complimented by stepped-out panels, bronze windows, and a warm colour palette of off-white with deep tan accents. "The architecture and the colours fit very well with the surrounding area," says Rod Nielsen, Fire Chief of the volunteer department and head of the building committee. "It is functioning very well and we get lots of positive comments, especially from visiting fire departments."

Boasting a longer life span than traditional wood and brick construction, the durability of tilt-up made it a natural choice for the new facility. It also fits well with the fire service's promotion of non-combustible construction. The single-storey

building has two distinctly functioning areas with two architectural profiles: a 15 ft. high finished office space with board room, kitchen space and meeting area stepping up to an open area housing 6 fire truck bays with 21 foot ceilings.

"Because we were working as a committee, the design-build process worked well for us," comments Nielsen. "It allowed us to make changes as we went, and we were able to work with the subcontractors to get the end result we wanted." Nielsen credits the Lindsay team for their positive experience. "We've been very happy with our treatment right from the beginning. They gave us lots of good ideas and were very accommodating."

We've been very happy with our treatment right from the beginning.

— Rod Nielsen Fire Chief/Building Committee Head



SERVICES/CONTACTS

Design-Build:

Peter Cox, Kirby Putnam,
Laurence Smith

Pre-Engineered Metal Buildings:

Peter Cox, Kirby Putnam,
Ben Stokdijk

Tilt-up Concrete Buildings:

Peter Cox, Devin Hartnell,
Kirby Putnam, Laurence Smith

RBS Buildings: Peter Cox,
Kirby Putnam, Ben Stokdijk

Construction Management:

Peter Cox, Ken Flinn, Kirby Putnam

General Contracting:

Cory Bell, Greg Cooper,
Devin Hartnell, Aaron McCardle

Small Jobs and Miscellaneous

Service Work: Gordie Bishop,
Aaron McCardle, Trevor Nicholson,
Bob Salsman, Karl Wyllie

Roofing: Curtis Turner, Ernie Porter

Roofing Service Work, all types:

Curtis Jordan, Curtis Turner

Metal Cladding and Metal

Roofing: Curtis Turner

Cladding Service Work:

Bob Salsman, Curtis Turner

Asbestos Abatement &

Removal: Gordie Bishop

Concrete Coring & Sawing:

Kevin Cordeiro, John O'Neil

Concrete Repairs: Karl Wyllie

Custom Millwork & Cabinetry:

Gordie Bishop, Mannie Lewis

Steel Stud, Drywall &

Suspended Ceilings:

Gordie Bishop, Trevor Nicholson
Bob Salsman, Karl Wyllie

Doors, Frames & Hardware:

Gordie Bishop, Trevor Nicholson
Bob Salsman, Karl Wyllie

Custom Sheet Metal -

Fabrication & Installation:

Mannie Lewis, Curtis Turner

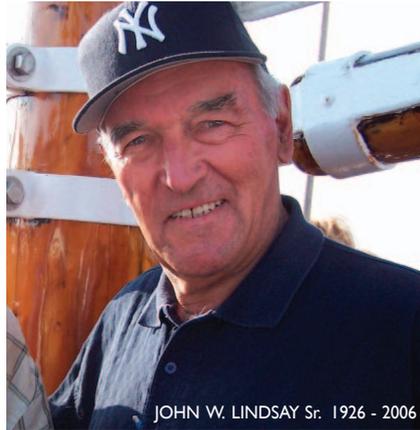
Miscellaneous Metal -

Fabrication & Installation:

Mannie Lewis, Laurence Smith

SPECIAL TRIBUTE

John W. Lindsay, Sr. – A Life Well Lived



JOHN W. LINDSAY Sr. 1926 - 2006

Dear Readers;

With the sudden passing of John Lindsay, Sr., the business community has lost a dear friend; mentor to many and great leader. It is an honor to celebrate his life and a privilege to have had the great fortune of working with John.

A great many of you knew John. Some of you were business associates connected through the bond of ownership in an amazing array of local and regional businesses. Some of you knew John through serving with him on the boards of national and regional corporations such as Maritime Life, Canada Trust, MT&T, Corporate Communications and others. Some of you were associated with John through his outstanding volunteer efforts particular-

ly in aid of the YMCA and the IWK Hospital. And some of you knew John through his broad personal interests in sports, travel, social occasions and music.

Whatever your relationship was with John your lasting impression will be the same – he was a great man. In John's world no challenge was too great, no friend let down, no commitment denied. These principles were part of a code of conduct that John lived by and imparted upon the many individuals and businesses he touched.

Each of you who knew him will have your own "John stories". Many of these stories will relate to his outstanding accomplishments as a developer, some will recount his prowess as a businessman, others will regale his love of life or his wonderful family occasions. We are all left to remember John, and we are so much the better for having known him.

Out of the dozens of companies that John owned or directed over his five decades in business, our company is the only one that bears his name. We are very proud of this connection. While we share the emotional burden of John's passing and we will surely miss his guiding hand, J.W. Lindsay Enterprises moves forward fortified by the principles and determination that John instilled in the fabric of our company.

Yours truly,



Ernie Porter, P.Eng.

President, J.W. Lindsay Enterprises

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