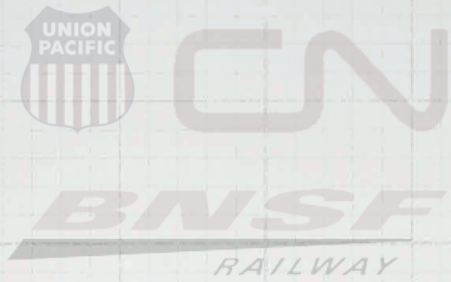


ENGINEERED SYSTEMS

Designing, Fabricating, Machining, Engineering . . . Rail Systems





WHY LINDSAY?



Railroad Products by Lindsay®, a division of Lindsay Transportation Solutions®, is dedicated to quality construction, modern manufacturing techniques, a commitment to continuous improvement, and an understanding of customer needs.

Railroad Products by Lindsay is a proven name in the rail industry for our custom designed solutions for wayside bridges, quad cantilevers and complete line of crossing equipment, signal equipment, and custom engineered systems.

Partnering with Railroad Products by Lindsay on special engineered projects and systems affords your company an approved manufacturing supplier to all Class 1 railroads in North America. Railroad Products by Lindsay also has partnered with all the major Short Lines on custom design projects, along with many well-known transit agencies throughout the U.S. and Canada.

Railroad Products by Lindsay is located in Lindsay, NE, with a facility of over 450,000 square feet, with manufacturing also located in Omaha, NE. Having two locations affords your company plenty of manufacturing capabilities and capacity to meet project deadlines.

SIGNAL STRUCTURES | TORONTO, CANADA



Railroad Products by Lindsay® is dedicated to quality construction, modern manufacturing techniques.

ONE SOURCE

Railroad Products by Lindsay manufactures everything in-house, which means you won't have to contact multiple sources for your railway needs. You'll receive competitive pricing and products, delivered on time.

Plus, you're guaranteed customer specific manufacturing flexibility to meet your standards and industry standards. Our engineering team works from site surveys or customer prints, as well as assisting with new custom design projects.

Railroad Products is a division of the Lindsay Corporation, which has more than 55 years of manufacturing experience and worldwide distribution.

CAPABILITIES

- Custom Manufacturing from Submitted Designs
- Custom Engineering
- Aluminum Welding (AWS D1.2 & CSA W47.2 Certified)
- Steel Welding (AWS D1.1 & CSA W47.1 Certified)
- Fabrication
- Machining
- Painting
- In-House Galvanizing
- Solidworks® 3D Modelling
- ISO9001:2000 Certified

ENGINEERED SYSTEMS & STRUCTURES



SIGNAL STRUCTURES SATISFY THE UNIQUE DEMANDS OF PASSENGER RAIL SERVICE

After decades of congested roads and highways around downtown Toronto and Pearson International Airport, Metrolinx, the Ontario government agency for Greater Toronto and Hamilton proposed series of light rail transit lines, subways and bus rapid transit lines dubbed the "Big Move." The Big Move is an \$11.5 billion plan outlines a common vision for transportation for one of the largest and fastest-growing urban regions in North America. The plan introduces a new way of moving around the region using rapid transit.

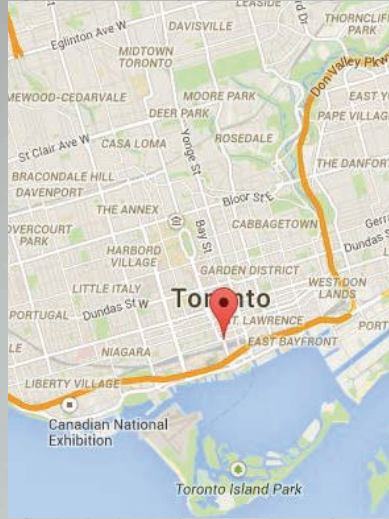
THE CHALLENGE

Metrolinx needed to find an all-in-one dedicated source that could help them facilitate retrofitting new signals and structures along existing routes, as well as a source that could engineer, design and manufacture structures along routes requiring new construction.

THE SOLUTION

Metrolinx turned to **Railroad Products by Lindsay®** to supply the signals and signal bridges for two portions of the Big Move, The Union Pearson Airport Link and the Georgetown South Project.

Railroad Products by Lindsay designed, engineered and manufactured a total of 28 signal bridges and over 500 signals for the project. Lindsay also provided 17 MLP's that are installed on the elevated portion of the Union Pearson Line entering and leaving the Pearson International Airport Metrolinx Station.



TORONTO, CANADA THE BIG MOVE

Structures & Signals

- 28 signal bridges designed, engineered, and built
- Signal structures span up to 8 tracks
- 520 color signals installed in combination of 1, 2, and 3 position
- 17 total unique MLP's on project with some deployed on the elevated platform

Railroad Products by Lindsay's work on this project started in 2013 and was completed in Q1 2015. Railroad Products by Lindsay worked closely with local construction and engineering firms in Toronto along with representatives from Metrolinx.

Railroad Products by Lindsay is honored to participate in the development of transit infrastructure for Toronto. We look forward to working with other Canadian and US transit properties and rail operators.

THE RESULTS

Each signal bridge was designed to satisfy the unique characteristics of a particular location. Lindsay performed the design and engineering for all the structures. Railroad Products by Lindsay designs were reviewed and validated by the owner's engineering consultants.

The signal bridges ranged from four track units to structures spanning eight tracks. The largest bridge is located near Strachan Avenue in downtown Toronto and involved an 8 track unit spanning 165 feet.



TRAINING EQUIPMENT SUPPLIED TO THE NATIONAL ACADEMY OF RAILROAD SCIENCE

A cantilever bridge was installed for Burlington Northern Santa Fe Railroad (BNSF) at Johnson County Community College (JCCC) in Overland Park, KS. BNSF and JCCC created the National Academy of Railroad Sciences (NARS) at the college to train current Class I and short line railroad employees for those who aspire to work in the railroad industry.



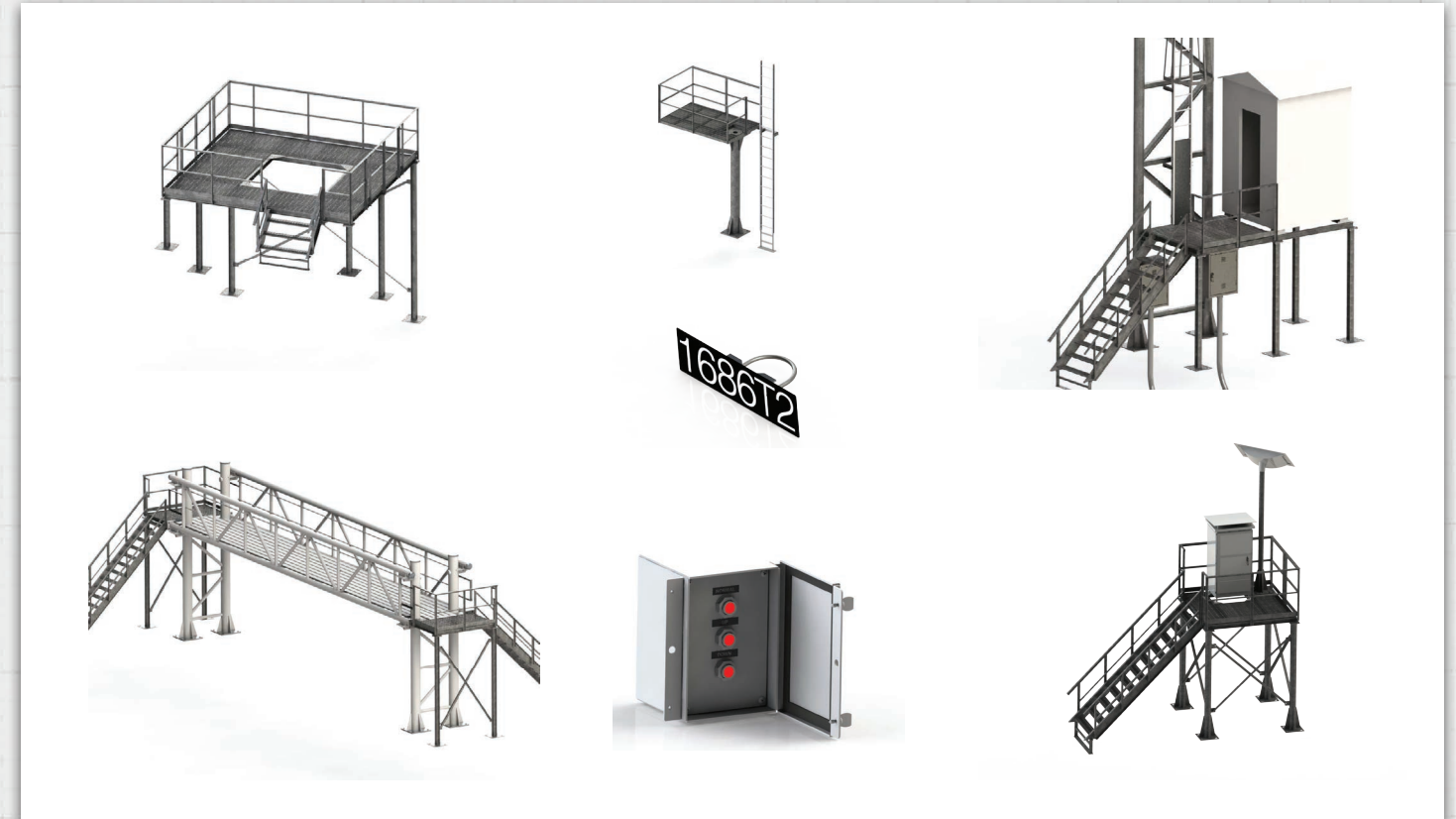
ON-SITE DESIGN, AND ENGINEERING

- Platforms
- Ladders
- Wayside Bridges & Quads
- Highway Grade Crossing Material
- Customized Manufacturing
- Specialty Structures



All structures are designed in accordance with AREMA, AASHTO, AWS, and CWB standards .

Railroad Products by Lindsay can design and engineer all heavy duty structures like platforms, ladders and specialty structures for railroad, transit, and infrastructure projects.



QUALITY ASSURANCE | ONE INTEGRATED SOURCE



Railroad Products by Lindsay is equipped to handle all your structural, manufacturing, and design needs from start to finish. Our complete array of manufacturing capabilities from fabricating to welding and machining, allows us to turn raw materials into your finished product on time and on budget.

Lindsay Corporation has been involved in the manufacture and distribution of equipment for over 50 years. We have grown our sales and distribution network from a regional company, to a major international agribusiness, highway infrastructure and rail products firm with worldwide sales and distribution, and annual revenues of \$617.9 million in fiscal 2014. Lindsay is a public company listed on the New York Stock Exchange (LNN) and is ISO9001:2000 certified.

Modern Manufacturing Equipment:

- CNC Pattern Cutter Ultra 6 Head OXY/ACS
- Two Head Plasma (15' x 40' Water Table)
- Bertch Plate Roll (1/2" x 4')
- Hydraulic Presses from 60-660 Ton
- Mechanical Presses from 32-300 Ton
- Hydraulic Unipunch Units 20 & 30 Ton
- Shotblasting Equipment (To 8')
- Mig, Tig and Pulse Transfer Welders
- Paint Booth
- Pipe coping Machines (1" thru 12")

RAILROAD PRODUCTS BY LINDSAY®

A HISTORY OF EXCELLENCE

1946. Harmon Industries sets the standards for advanced systems signaling, inspection and train control safety.

2000. GE Transportation acquires Harmon Industries, continuing to improve and expand standards and products.

2003. Lindsay Transportation Solutions begins manufacturing rail structures, supplying the industry through GE Transportation.

2009. Lindsay Transportation Solutions purchases rail product line from GE Transportation.

Today. Railroad Products by Lindsay® brings together the respected history of Harmon and the extensive product line of GE Transportation – offering quality railroad products from one easy source.

FROM 1946 TO TODAY



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