



ENDURING. DRIVEN. VISIONARY.

LIGHT RAIL  
SYSTEMS &  
VEHICLES

 STV *100*  
*Years*



Established in 1912, STV is a national leader in the planning, design, and program management and construction management of transit vehicles and facilities. The firm possesses a wealth of experience in completing both small- and large-scale light rail vehicle (LRV) and streetcar projects.

STV's extensive staff offers sound technical expertise in planning, designing and managing the construction of transit systems and facilities, as well as vehicle procurement, warranty, overhaul and technical support activities. This includes all vehicle-related system interfaces, such as communication systems, train control and traction power.

Our depth of in-house resources enables us to support our clients' projects from inception through operation.



**Images on this spread and on the cover:**  
Charlotte Area Transit System (CATS) LYNX Blue Line Extension Light Rail Project, Charlotte, NC



Photo © Paul Chavrette

Confederation Line Stage 1 LRT, Ottawa, Ontario



Photo © Bruce Forster Photography

Tilikum Crossing Design-Build, Portland, OR



Durham-Orange Light Rail Transit, Chapel Hill-Durham, NC



*Muni LRV Procurement, Project Management Oversight, San Francisco, CA*



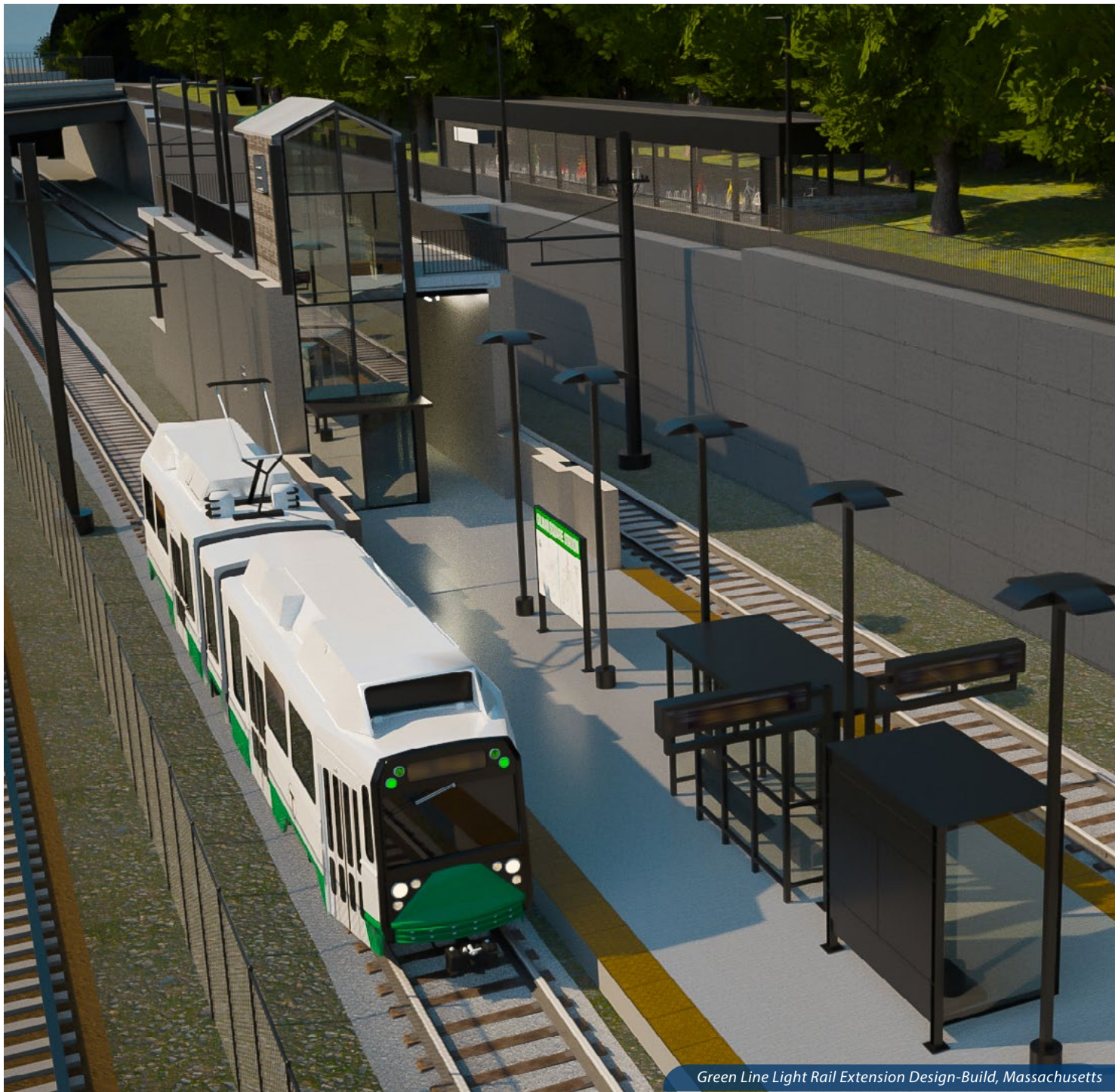
*ION Light Rail System, Waterloo, Ontario*

Photo © Photography by Robb Williamson



Photo © Metro TRC

*Houston METRORail Project Management*



Green Line Light Rail Extension Design-Build, Massachusetts



*LYNX Silver Line, Charlotte, NC*



*TriMet On-Call Systems Engineering Services, Portland, OR*

### **PLANNING SUPPORT SERVICES:**

- Feasibility Analysis & Alternatives Development
- Corridor Mapping & Constraints Analysis
- Station Locations & Station Area Planning
- Purpose & Need
- CEQA/NEPA & Environmental Issues/Title IV
- Demand Modeling
- FTA Coordination
- Basis of Design
- Cost Models
- Stakeholder & Community Input/Outreach
- Operations Modeling
- Maintenance & Storage Facility Planning
- Central Control Facility Planning
- Traction Power System Planning

### **TECHNICAL SUPPORT SERVICES:**

- Alternative System & Component Sourcing
- Component Repair & Replacement Analysis
- Damage/Repair Assessment
- Design & Engineering Reviews
- Failure Investigation
- Market Value Assessment
- Structural Inspections
- Sub-system Type Testing & First Article Inspections
- Technical Specifications
- Vehicle Condition Assessment
- Overhaul & Retrofit Support

### **PROGRAM & CONSTRUCTION MANAGEMENT SERVICES:**

- Program Management
- Design/Constructability Review
- Field Supervision & Quality Inspections
- Scheduling
- BIM 456
- Cost Estimating, Financial Analysis & Cost Control
- Risk Assessment & Value Engineering
- Document Control
- Procurement Support
- Closeout
- Commissioning
- Operations, Analysis, Safety & Security

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