



# CIVIL

## CAPABILITIES

### Asphalt & Aggregates

- // Portable crushing plants
- // Superpave hot mix design
- // Marshall hot mix design
- // Stone mastic asphalt design
- // Recycled asphalt

### Bridges

- // Precast concrete girder
- // Steel tub girder
- // Post tension
- // Rigid frame
- // Temporary modular bridges
- // Foundation piles

### Public Transit

- // System engineering and integration
- // Safety and security controls
- // Environmental sustainability
- // Management and controls
- // Site preparation
- // Grading
- // Drainage and groundwater management
- // Road crossings and grade separations
- // Bridge construction
- // Road construction
- // Embankment and slope management
- // Retaining wall construction
- // Tunnel boring and tunnel lining
- // Materials engineering and testing
- // Aggregate and material supply
- // Utility locates
- // Utility services and relocations: Gas/electrical/telecommunications/cable TV, water/street lighting
- // Substructure: Sub-ballast, ballast
- // Superstructure: Sleeper, fastening system, rail
- // Tamping and rail stabilization
- // System controls: Signaling/lighting/security
- // System electrification
- // Station and platform construction
- // Finished construction: Paving and concrete work
- // Landscaping

### Roadbuilding

- // Precast girders: Full service, concrete precast girder fabrication
- // Aggregate supply: Full range of aggregates from our company-owned pits and quarries

- // Asphalt supply: Sourced from either our permanent or numerous portable asphalt plants, produced and delivered to our road projects in the form of high quality asphalt at optimal temperatures, specialize in asphalt recycling to minimize our impact on the environment
- // Materials engineering: Full range of transportation materials, SHRP superpave services, environmental engineering & more
- // Paving: Asphalt and concrete paving, modern asphalt placing, materials testing, custom aggregate processing, recycled asphalt
- // Deep services: Concrete pressure pipe, culverts, high-density polyethylene (HDPE) pipe, direction drilling
- // Tunnelling: Full service Tunnel Boring Machine (TBM) services, directional drilling and earth bore
- // Concrete slip-forming: Concrete curb and barrier wall, concrete testing capabilities
- // MSE wall: Mechanically Stabilized Earth (MSE) wall construction
- // Highway lighting: High mast lighting, traffic management systems
- // Highway maintenance: Diverse equipment fleet, full service management

### Tunnels

Aecon brings a record of operational excellence in safely and effectively managing these massive projects, specializing, in particular, in our heavy civil equipment expertise with state-of-the-art earth pressure balance -Tunnel Boring Machines (TBMs).

### Aecon Foundations

- // Shoring systems: Secant pile walls, sheet piles, cut-off walls, timber lagging walls, tie-back anchors
- // Piles: Driven H-piles, steel tubes, drilled shafts, caissons, CFA piles, bell piles, screw piles
- // Dewatering: Well point, vacuum lances, hydrovac services

### The Aecon Advantage

- // Industry-leading and proven record of safety
- // One of the largest new equipment fleets in Canada
- // Mobile workforce
- // Experienced crews
- // Self-performance – single point of accountability & schedule certainty
- // Real-time monitoring of quality & progress
- // 3-D modeling utilizing building information modeling (BIM) & GPS