PASSENGER TRANSPORTATION
Whether urban mass transit, commuter, intercity or high-speed rail, passenger transportation is sustainable, efficient and environmentally friendly. It promotes economic growth and reduces highway congestion and air pollution. For more than 40 years, STV has served the passenger transportation industry. Our responsiveness has earned us the reputation as a leader in transportation infrastructure planning, design and construction management. Our insightful approach comes from our talented professionals, who have direct experience in operating transit systems across the country. We shape projects from initial planning through final design, system startup and operation.

STV's transportation and environmental planners understand the intricacies of transportation networks, land-use impacts, station areas and intermodal facilities. Through our planning and programming services, we provide our clients with the groundwork to meet their short- and long-term goals. We evaluate costs and benefits, capital/operating costs, environmental considerations, economic and financial impacts, vehicle/fleet requirements, and property and asset values. We also perform alternatives analyses and conduct specialized operations analyses and rail simulations.
Few firms offer as complete a range of transportation expertise as STV. Our multifaceted services enable us to carry out total project delivery programs that call for the design and construction of entire systems. STV’s specialists in operations planning, vehicle technology, design and construction management are all integrated into one cohesive team that is focused on seamless project delivery, including design-build and design-build-operate-maintain. The magnitude of our services enables clients to call on us to undertake all aspects of their program requirements.
Understanding how a passenger rail system operates is essential in the effective design and integration of its infrastructure and system elements. Track, structures, vehicles, signals/communications and power systems must all work in concert for a rail transit property to deliver superior service to its customers. Working with each of our rail property clients—and bringing our operations expertise to bear on our designs—we strive to assure that all of the systems that make up the infrastructure of a rail network are fully integrated into a safe, reliable and effective transit system.

S T A T I O N S + T E R M I N A L S

S tations, terminals and intermodal transportation centers are in the public eye. Their design must integrate mobility with safety, security, aesthetics and ease of maintenance. STV meets these essential criteria in all our assignments, whether new construction or rehabilitation projects. Our work is sensitive to station surroundings while addressing requirements for system operations, intermodal connections, accessibility, passenger pedestrian flow, information systems, and provisions for the elderly and disabled.


W T C T R A N S P O R T A T I O N H U B
Port Authority of New York & New Jersey
New York, NY
Photo © Chris Cooper

NJ TRANSIT
Hoboken, NJ
Photo © Eduard Hueber, Arch Photo

S O U T H B O S T O N P I E R S T R A N S I T W A Y
COURTHOUSE STATION
Massachusetts Bay Transportation Authority
South Boston, MA
Photo © Greg Premru

Charlotte Area Transit System
Charlotte, NC
Photo © Brenda Mock

I N T E R C O N N E C T E D G R A D E C R O S S I N G S
C O N T R O L S Y S T E M S A N D S I G N A L S
Metra
Northeastern Illinois

L I G H T R A I L
S Y S T E M S E N G I N E E R I N G
Maryland Transit Administration
Baltimore, MD
MAINTENANCE + STORAGE FACILITIES

Our transportation professionals have led the way in the new design and rehabilitation of rail storage yards and maintenance facilities for more than 30 years. The firm's experience covers shops, repair and support facilities, car washers, and related track and utility systems. Our industrial engineers are skilled in shop layout, operations and specialized equipment specification, providing for optimum productivity, efficiency and ergonomics.

ROLLING STOCK

STV has a world-renowned team of specialists who concentrate solely on the rehabilitation and procurement of reliable, easily maintained and energy-efficient rolling stock. STV's vehicle group has keen insight into the requirements of maintenance, service and overhaul facilities for all modes of vehicles. Our expertise includes valuations, specification development, bid analysis, inspection services, assurance testing and overall management of the procurement process.