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Complete list of projects

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Overview Project Experience

Design Build
TxDOT Southern Gateway
Dallas Area Rapid Transit (DART) Silverline Regional Design Build Project

Water and Wastewater Design
2016 Dallas Water Utilities (DWU) Replacement and Rehabilitation of Water and Wastewater Mains

2016 Dallas Water Utilities (DWU) Replacement and Rehabilitation of Water and Wastewater Mains

Roadway and Drainage
City of Dallas Engineering Services Contract for Street Reconstruction (2017 Bond), Dallas, TX

Sachse Road Widening

US 377 Widening, Brady,TX (TxDOT Evergreen)

US 183 Widening, Rising Star, TX (TxDOT Evergreen)

Dallas North Tollway Widening, Harvest Hill to Haverwood

City of Dallas Street Reconstruction (2014), Chandler Drive and Carthage Lane

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Schematic Design
IH 30 Reconstruction, Bass Pro Drive to Hunt County Line

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Program Management
North Texas Tollway Authority (NTTA) Program Management Consultant (PMC)

Infrastructure Inspections
North Texas Tollway Authority System Inspection

Site Development
Fouts Field Demolition, Parking and Bus Transfer Station, University of North Texas (UNT), Denton, TX

New Eddie Bernice Johnson Elementary School, Wilmer, TX

William B. Travis Academy Addition/Renovation, Dallas, TX

US Post Office, DFW International Airport (Photo Attached)

SH 121 Sidewalk Addition, Frisco, TX

Sierra Vista Transit Plaza, Fort Worth, TX

COMMUTER RAIL/TRANSIT

DART, Silverline Regional Commuter Rail.
SEC serves on the Design-Build team providing civil engineering design services for DART's first regional commuter rail project. This 26-mile line extends from DFW Airport east through Plano. Working as a sub-consultant to Jacobs Engineering Group, SEC is designing the 15 at-grade double track rail crossings along the 7-mile Segment 2 corridor (West of IH 35 E to Dallas North Tollway). Design includes horizontal and vertical roadway alignments, cross sections tieing to the rail corridor, signing and striping, maintenance of traffic and ROW layouts.

Trinity Metro, 2018 IDIQ Contract for Professional Services, Fort Worth, TX.
SEC is contracted with Trinity Metro to provide on-call IDIQ A/E design and construction management services. The SEC team is currently assigned six (6) task orders, one of which is this Bus Stop Improvement Project. On this project, the team is tasked with designing sidewalks, ADA ramps, and bus shelter concrete pads for 50 bus stops located within the Trinity Metro Service Area. The scope includes obtaining City of Fort Worth and TxDOT permits for the construction and providing construction management services.

Trinity Metro, Sierra Vista Transit Plaza, Fort Worth, TX.
SEC was contracted with Trinity Metro for the design of the Sierra Vista Transit Plaza. The project involved the redevelopment of a 0.72 acre urban site. SEC managed a team of six sub-consultants and provided civil site design including paving and sidewalks, grading and drainage, signage and markings, and utility coordination. In addition, SEC completed a study to determine the feasibility of including a bio-retention area on site. An extensive evaluation of iSWM criteria and design methodology was performed along with a preliminary layout.

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Project Experience

SITE DEVELOPMENT

Fouts Field Demolition, Parking and Bus Transfer Station, University of North Texas (UNT), Denton, TX.
This project, on a 26-acre site, involved design services for the demolition of the existing Fouts Field stadium structure and field, infilling the stadium and field footprint with surface parking, restructuring the existing layout of the site to incorporate dedicated pedestrian pathways for safety, and the addition of a new bus transfer station. SEC led the civil design for the project which resulted in surface parking for 2,300 vehicles. The scope of work included development of the civil site plans and specifications. The design included site layout, paving, grading, drainage, detention pond, utilities striping and traffic control.

New Wilmer Elementary School, Wilmer, TX.
As part of the 2015 Bond Program, DISD is developing a new elementary school in Wilmer, TX. SEC is leading the civil design for the project. The scope of work includes development of the civil site plans and specifications for the 32-acre site. The design includes paving, grading, drainage, detention pond, water and wastewater lay-outs, and signing and striping.

William B. Travis Academy Addition/Renovation, Dallas, TX.
As part of the 2015 Bond Program, DISD is adding a new building on the campus. The new building will be located on the existing parking lot. SEC is leading the civil design for the project, which includes paving for the relocated parking lot, grading, drainage, water and wastewater layouts, and signing and striping.

US Post Office, DFW Airport.
This DFW Airport project involved the design of a new 5,000 sq. ft post office facility located on a 1.5 acre pad site within the DFW Airport Southgate Plaza Development. SEC provided civil site design which included the paving, sidewalks, grading, drainage, signing, markings and erosion control. SEC also developed layout plans for water, wastewater and electrical connections and is currently providing construction administration services

SH 121 Sidewalk Addition, Frisco, TX.
SEC recently completed the design of approximately 3,300 LF of new sidewalk for the City of Frisco. This project is part of the City of Frisco's citywide Sidewalk Improvement Program and involved the design of new sidewalk adjacent to SH 121 (north side) and fronting Stonebriar Mall. The new sidewalk will provide pedestrian connectivity between Parkwood Blvd and Preston Rd. SEC is the prime firm providing civil design services to the City of Frisco. The design services included the addition of curb ramps, the realignment of median noses across two roadway entrances to Stonebriar Mall and the addition of a low water crossing where new sidewalk was designed to cross a small ditch. All elements were designed to meet ADA requirements. The design process spanned two months, beginning with a schematic layout and concluding with final plans.

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Project Experience

Water & wastewater design

2016 Dallas Water Utilities (DWU) Replacement and Rehabilitation of Water and Wastewater Mains.
SEC is providing engineering services required for developing construction plans and specifications for water and wastewater main replacement projects for seven locations across the City of Dallas, totaling 8,800 LF of 8-inch water and 1,670 LF of 8-inch and 12-inch wastewater. Services include design services, establishing pipe sizes, specifying proper materials, and developing horizontal and vertical alignments.

2013 Dallas Water Utilities (DWU) Replacement and Rehabilitation of Water and Wastewater Mains.
SEC provided engineering design services for the development of construction plans and specifications for 8-inch to 12-inch water and wastewater main replacement projects in various locations throughout the City of Dallas, including at Love Field Airport. The design included establishing horizontal and vertical alignments as well as pipe sizing and material specification.

Roadway & drainage design

City of Dallas Engineering Services Contract for street Reconstruciton (2017 Bond), Dallas, TX.
SEC is under contract with the City of Dallas to provide engineering services required for the reconstruction of four (4) streets and four (4) alleys at various locations within the city of Dallas. Design services include paving, drainage, water and wastewater.

US 377 Widening, Brady, TX.
This project involved the widening of US 377 from Downtown to US 190. SEC provided engineering services required for the development of SWPPP layouts in accordance with the 4-phase traffic control plans. In addition, SEC designed the relocation and replacement of water and wastewater utilities. Utility design consisted of 5,200 LF of 6-inch water and 2,900 LF of 8-inch wastewater utilities along the length of the project, including horizontal alignments for the water and wastewater lines and a vertical alignment for the wastewater line.

Sachse Road Widening.
This Dallas County Public Works project involves the widening of Sachse Road, including the addition of a round-a-bout. During the schematic design phase, SEC developed the construction cost estimate based on Texas Department of Transportation (TxDOT) bid items and unit prices. During the preliminary design, SEC is developing traffic control plans and continuing cost estimating services.

Dallas North Tollway Improvements.
SEC designed signing, pavement marking and channelization layout plans for Dallas North Tollway Improvements from Harvest Hill to Haverwood. This NTTA project involved the widening of the DNT. In addition, SEC prepared the specification documents.

Roadway & drainage design (cont.)

LBJ/Skillman Interchange Improvements
This City of Dallas project involves the realignment of Skillman Street at LBJ Freeway (IH 635). SEC is designing typical sections, providing utility coordination and developing removal layout plans for Skillman Street and the surrounding streets including Audelia Rd, Adleta CT, and the EB/WB Frontage Roads.

City of Dallas Street Reconstruction.
SEC provided drainage design for approximately 2000 LF of 26-foot wide roadway along Chandler Drive and Carthage Lane in the City of Dallas. SEC services involved providing complete drainage design including drainage area maps, plan and profile sheets and details and specifications.

Schematic design

IH 30 – Rockwall County
This TxDOT project consists of developing a design schematic and environmental documentation for the reconstruction of IH 30 from Bass Pro Dr. to the Hunt County line, and includes widening to a varying 6 and 8-lane facility, construction/reconstruction of continuous frontage roads in both directions, construction/reconstruction of ramps and bridges accessing and over Lake Ray Hubbard, and the Bayside Development at Dalrock Road. SEC is developing the signing schematic and the permanent signing, pavement marking and signalization layout, and serves as the public and agency involvement lead.

Loop 9.
This TxDOT project involves the development of a design schematic from US 67 to IH-35E (Loop 9) in Dallas and Ellis Counties. SEC is tasked with providing support related to the route and design study as well as providing Public Involvement Services.

Program management

North Texas Tollway Authority (NTTA) Program Management Consultant (PMC).
SEC staff served the PMC team for the NTTA for eight (8) years. As such, we acted on behalf of the NTTA and shared in the management of major corridor planning and design as well as numerous capital improvement projects. Services included reviewing plans at each submittal stage to ensure all disciplines within the plan set were in conformance with the project design criteria.

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Infrastructure inspections

NTTA System Inspections
SEC provided professional services to complete the 2012 NTTA annual inspection repair and replacement cost estimates for the NTTA System.

SEC performed a quality control review of the replacement costs for the NTTA assets included in the NTTA System, and provided revised replacement costs where necessary.

In addition, our staff determined the type of repair needed at each location, calculated the approximate quantities necessary to estimate each repair cost, visited the site of the recommended repairs if necessary to determine repair type or quantities, estimated the design and construction costs associated with each repair, documented backup data for each cost estimate including the source of unit costs or other methods used for estimating, and wrote a summary of repairs, costs, and total funds required for the repair list provided.

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Project Experience

Urban planning / public involvement

City of Plano, Envision Oak Point Small Area Plan, Plano, TX.
Currently performing Urban Planning and Public Outreach tasks for this small area effort. Working with collaborative team on site assessment, visioning exercises, parks and open space planning, and implementation strategies. Public Involvement and outreach includes conducting stakeholder interviews, representing the City of Plano at Community events, providing Spanish Translation Services, conducting and analyzing community surveys, public meeting and stakeholder advisory group support, print media and social media strategy, coordination with elected and public officials. Role on project: Urban Planning and Public Involvement.

City of Irving, Texas: Imagine Irving Comprehensive Plan, Irving, TX.
Performed Urban Planning and Public Involvement Outreach tasks for this comprehensive planning effort. Public Involvement and outreach includes conducting stakeholder interviews, representing the City of Irving at Community events, providing Spanish Translation Services, conducting and analyzing community surveys, public meeting and stakeholder advisory group support. Planning responsibilities include development of planning component for parks and recreation services, public health and education data collection. Role on project: Urban Planning and Public Involvementas well as providing Public Involvement Services.

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“This is Texas: Planning a Sustainable Future for Downtown”.
SEC provided planning and public involvement services for this City of Cleburne planning project. Managed by the North Central Texas Council of Government, the project involved the development of a downtown master plan for the City of Cleburne. The master plan will give the city the tools it needs for effective and sustainable downtown revitalization, including attracting and giving guidance to potential development projects that incorporate mixed use development. SEC services include evaluation of historical and cultural resources, zoning and building code analysis, documentation of opportunities and constraints for the study area and developing planning scenarios and an implementation plan. SEC is also assisting with stakeholder interviews and focus groups, as well as supporting facilitation of Cleburne Visioning workshops geared towards engaging the community.