

## Professional Summary

Eduardo San has wide-ranging experience in transportation engineering which includes roadway design, traffic control plans, erosion control plans, signing and striping, intersection design, and project inspection. Eduardo has served a range of public and private clients across the Front Range and the western United States. These clients include CDOT, Douglas and Arapahoe Counties, Commerce City, and the City and County of Denver, to name a few. His experience in the land development field has broadened his capabilities in grading, parking lot design, sanitary sewer design, storm sewer design, and water-line design. Eduardo is highly skilled in AutoCAD, GIS, Pipeworks, Microstation and Civil 3D.

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### Education:

- BS / Civil Engineering / Montana State University/ 1998

### Registration:

- 2003 / Professional Engineer / Colorado, No. 38527

### Professional Affiliations:

- American Council of Engineering Companies / Transportation Committee member
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## Project Experience (Utilities)

### *Dakota Avenue Outfall, Denver, Colorado*

San Engineering is currently providing engineering services for the design of a storm sewer system which consists of large box culverts (8' x 14' RCBC). Some of the design elements consist of 3D modeling of the storm sewer system using Pipes in Civil 3D as well as assembling Construction Documents as a subconsultant to Parsons Brinckerhoff.

### *Storm Water Master Plan, Colorado*

San Engineering provided On-Call services for Matrix Design Group for the Storm Water Master Plan for the City and County of Denver. Services included horizontal and vertical alignment, and sizing of the storm sewer grid.

### *Champa Townhomes, Colorado*

San Engineering provided site planning, grading, Right-of-Way improvements, storm sewer design, sanitary sewer design, and water-line design for a 13 Unit residential development in the Denver downtown area.

## Project Experience (Transportation)

### **Dakota Avenue Outfall, Denver, Colorado**

Mr. San is currently in the design phase of roadway improvements as part of the construction of a new storm sewer system. Some of the design elements include 3D modeling using Civil 3D, roadway design, utility design, drainage improvements, and cost estimates.

### **14th Avenue Roadway Project, Denver, Colorado**

As the Lead Engineer, Mr. San completed the reconstruction of 14th Avenue for the City and County of Denver. The project also encompassed Galapago St., Fox St., Elati St, and Delaware St. The project

included roadway and intersection design, signing and striping, and erosion control. Land Development Desktop used in the design of the project.

***88th Avenue Roadway Project, Thornton, Colorado***

As the Lead Engineer, Mr. San completed the reconstruction of 88th Avenue from Dahlia to I-76. The primary feature of the project was the realignment an existing alignment to accommodate for a center turning lane.

***Prairie Gateway Project, Commerce City, Colorado:*** This project included widening of Quebec Street from I-70 to SH-2, and 56th Avenue widening from Quebec Street to Havana St. Coordination with sub consultants, City of Commerce City and City and County of Denver. In charge of production of construction plans & traffic control plans on this multi-year, multi-million-dollar project.

***Larkridge Project, Adams County, Colorado.*** The project involved relocation of 2,900 feet of 6-lane Washington Street, and construction of new 3,000 feet of 4-lane 164th Avenue.

***Best Road Project, Douglas County, Colorado.*** Improvements of an existing dirt road into a 2-lane highway 1 mile long. A culvert box was added as well as a detour was design to be used during the construction of the culvert box.

***Rampart Range Road, Douglas County, Colorado:*** A 2-mile stretch of roadway rehabilitation from a two lane road to a 4 lane divided highway for Douglas County. The project included roadway design, storm sewer design, construction- phasing and traffic control. Main design duties included roadway, erosion, and traffic control design.

***Bowles & Federal Blvd, Littleton, Colorado:*** Right turn lane addition to Bowles Ave., design of new pathway and island placed around the existing traffic signal. The project included roadway design, storm sewer design, construction-phasing and traffic control. Main design duties include horizontal and vertical alignment and storm sewer design. MXROADS and AutoCAD 2000i used to model site.

***Alamo Ave (Santa Fe Drive to Railroad Depression), Littleton, Colorado*** The rehabilitation project on Alamo Ave. from Santa Fe Dr. to the railroad depression included roadway design, storm sewer design, construction phasing, traffic control, and construction management. Main design duties included construction phasing and traffic control. Mr. San's coordinated with his client, CDOT Region 6, on a daily basis.

***SH 34 Big Thompson River West of Loveland, Larimer County, Colorado:*** The planned improvements included the replacement of six structures along SH 34 west of Loveland. The project included hydrology, hydraulics, roadway design, erosion control, traffic engineering, construction phasing, and traffic control design. Main design duties include horizontal and vertical design, drainage and erosion control design, with the Colorado Department of Transportation as the client.

***County Line Road/Colorado Blvd to Quebec, Littleton, Colorado***

Project Engineer responsible for traffic control and construction phasing design, and plan preparation for the widening of the road and construction of ten concrete retaining walls and three masonry soundwalls on County Line Road between Colorado Boulevard and Quebec Street.

***East Broncos Parkway Extension, Arapahoe County, Colorado***

The project included two new bridges over Cherry Creek with connecting approach roads and coordination with the adjacent subdivisions for Arapahoe County. Mr. San's deliverables included roadway design plans featuring new curb/gutter/sidewalk and asphalt pavement as well as storm sewer and other improvements. The project also included proposed Cherry Creek trail improvements and pedestrian bridge improvements. Main design duties included grading, plan preparation, structural quantities, bridge geometry using CDOT Bridge, and erosion control.

***Santa Fe Safety Improvement Project, Littleton, Colorado:*** Worked as a senior inspector for the Colorado Department of Transportation, Region 6. Main duties included structural, transportation, and quality control inspections.

***US 290 West, Austin Texas:*** Field Engineer for Highway US 290 West. The project widened US 290 to four elevated lanes and two frontage roads as well as two new bridges. Main duties included layout of secondary control, established benchmarks, worked with horizontal and vertical alignments, layout of walls, inlets, traffic rail foundations, curb and gutter, etc. Prepared lift drawings. Estimated quantities. Supervised quality control. Use of total station and transit level for layout of project.

**Project Experience (*Land Development*)**

***West Branch Library, Denver, Colorado***

San Engineering completed the civil design of a LEED Silver certified Denver Public Library. Design elements included site grading, utilities, drainage, demolition plans, geometric control layout, erosion control, stormwater management plan, cost estimates and specifications.

***Barnum Park Splash Pads, Colorado***

San Engineering is providing all the civil and structural engineering for the addition of splash pads to the existing Barnum Park located within the City and County of Denver. This project includes water quality, Right-of-Way improvements, utility layout and grading, drainage report, structural design of foundations and walls.

***Police Activities League Headquarters Building, Denver, Colorado***

San Engineering rendered all civil services for the construction of a two story 9,700 gsf building located within the City and County of Denver. This project included on grade parking lot design, detention pond and water quality, Right-of-Way improvements, ADA access throughout the site, utility layout and grading.

***Utica Street Townhomes, Colorado***

San Engineering is providing site planning, grading, Right-of-Way improvements, storm sewer design, sanitary sewer design, and water-line design for a 16 Unit residential development within the City and County of Denver.

**School Experience (*General Civil*)**

***Marrama, McGlone, Barney Ford, Godsman and McKinley Elementary Schools, Colorado***

San Engineering provided site planning, grading, Right-of-Way improvements and storm sewer design for Denver Public Schools to update learning landscapes, playgrounds, and playing fields.