

## FIRM OVERVIEW



Creative Civil Solutions is a Civil Engineering land development and infrastructure design firm with one unified design goal for projects; client satisfaction.



We believe positive client relationships are critical to a smooth, successful and more enjoyable design and construction process. Values such as honesty, integrity, passion and caring about our projects allow us to build on the success of each project to promote long standing client relationships.



We believe that a good site design accentuates the beauty of the architecture, structure and site surroundings while seamlessly integrating each and every function of the site, essentially integrating form and function. Our site designs not only integrate form and function, but create a design that will last

for many years to come, resulting in lower maintenance sites that enhance stormwater quality while preserving and protecting the environment for generations to enjoy.

Our philosophy of design begins with listening to the client's needs, focusing on their vision, dreams and aspirations for the success of the project. Our involvement often ranges from finalizing a concept presented to us by the client, to developing site concepts and layout. Through collaboration, coordination and teamwork, site design concept plans take on a life of their own, changing, evolving and moulding through vision, ideas and creativity.

Creating site designs that maximize site usability while integrating structures into the site helps to lower development costs while enhancing architectural and site beauty. After a concept has been established, the process of finalizing a design begins. Creative Civil Solutions has design expertise across many of the Colorado front range and mountain communities with a wide variety of site developments.



Our expertise includes a variety of site developments ranging from schools, playgrounds, parks, trails and open space, to residential, commercial and business developments across the Colorado front range and mountain communities. We are trained in and utilize the latest technologies to increase productivity while efficiently producing and maintaining a consistent high quality product for our clients.



We incorporate LEED design methodology into our designs and educate clientele to the lifespan and cost saving benefits of implementing LEED into their designs, even if certification is not desired.

It is passion and love for our work that keeps us striving to improve with each and every project and our attention to each project's details that brings us our success.

## Professional Background

Curtis Kostecki, Principal and Owner of Creative Civil Solutions has extensive experience in site and infrastructure design of educational, business, retail, municipal, parks, and open space sites as well as design of large developments. Creative Civil solutions designs: storm sewers, detention ponds, roadway and parking lots, ADA accessibility, trails and utility, drainage, and erosion control reports. His background in civil engineering and sustainable design enables him to be proficient in a wide range of development projects. His knowledge of local area government engineering and development review provides the ability to shorten the design and review process and lower project design costs.

## Professional Experience

Creative Civil Solutions, Longmont, CO. 2004-Current  
Principal & Owner

Loris and Associates, Inc., Lafayette, CO; 2001-2004

JVA, Inc., Boulder, CO: 1998-2001

## Professional Registration & Education

• Colorado PE # 38110

University of Illinois, Champaign, IL: BSCE, in Civil Engineering, 1999

Illinois State University, Normal, IL: BS in Physics, 1998

## Creative Civil Solutions Project Experience

**Wells Fargo Bank**, Longmont, CO: Project Manager responsible for the design of a bank site located at the edge of an existing detention pond in the Fox Creek Village Commercial/Retail Development. Responsibilities include: grading, drainage, erosion control, utility infrastructure design, drainage analysis, Parking lot layout and design, and ADA access and circulation.

**United Western Bank**, Denver, CO: Project Manager responsible for the design of a bank site located at Third Avenue and University Boulevard in Cherry Creek. Responsibilities included: grading, drainage, erosion control, utility infrastructure design, new fire hydrant and fireline installations, parking lot layout and design, and ADA access and circulation.

**United Western Bank**, Longmont, CO: Project Manager responsible for the design of a 1.35 -acre bank site located at State Highways 287 & 119 within Harvest Junction North, Planned Unit Development. Responsibilities included: grading, site drainage & drainage analysis, erosion control, utility infrastructure design, new fire hydrant and fireline installations, parking lot layout and design, and ADA access and circulation.

**Heartland Bank**, Denver, CO: Project Manager responsible for the courtyard entry redesign design of a site located at First Avenue & Garfield Street in Cherry Creek. Responsibilities included: grading, drainage and ADA access and circulation.

**Hampton Inn & Suites**, Littleton CO: Project Manager responsible for the site engineering design of a 120-unit franchise hotel site. Design includes retaining wall sizing and layout, parking lot, drive aisles, firelanes, dry utility coordination, grading, utilities, parking lot, drive aisles, fire access, dry utility coordination, sewer and water services, ADA access and circulation; drainage & erosion control reports.

**Hampton Inn & Suites**, Aurora CO: Project Manager responsible for site engineering design of a 100-unit franchise hotel site. Designed: grading, utilities, parking lot, drives, fire access, dry utilities, sewer and water services, ADA access and circulation; drainage & erosion control reports.

**Starbucks Coffee**, Englewood, CO: Project Manager responsible for the site plan layout, including parking lot, drive-thru aisle and ADA access and circulation. Design includes right of way improvements, two patio areas, parking lot design, and site planning for City approvals. Drainage design utilized water quality sand filters to enhance "first flush" runoff to remove pollutants from runoff prior to discharge to receiving waters downstream.

**Caribou Coffee**, Englewood, CO: Project Manager responsible for the site plan layout, including parking lot, drive-thru aisle and ADA access and circulation. Design includes right of way improvements, patio area, parking lot design, and site planning for City approvals. Drainage design utilized water quality sand filters to enhance "first flush" runoff to remove pollutants from runoff prior to discharge to receiving waters downstream.

**Panda Express**, Englewood, CO: Project Manager responsible for the site plan layout, including parking lot, drive-thru aisle and ADA access and circulation. Design includes right of way improvements, two patio areas and parking lot redesign, and site planning for City approvals. Drainage design utilized water quality sand filters to enhance "first flush" runoff to remove pollutants from runoff prior to discharge to receiving waters downstream.

**Industrial Warehouse**, Arvada, CO: Project Manager responsible for a 2.8-acre site design within Arvada Energy Center. Site design included detention pond with water quality and drainage analysis, utility connections, parking lot layout and design, and ADA access and circulation.

**Neway Packaging**, Commerce City, CO: Project Manager responsible for a 4.25-acre site design within Irondale Subdivision. Site design included a regional retention pond and drainage analysis for a subdivided parcel, utility connections, parking lot layout and design, ADA access and circulation, and semi turning movement analysis. Adjacent 1/2 width roadway improvements for two roadways adjacent to the site including pedestrian sidewalks are also included in the design.

**3528 Flex Commercial**, Denver, CO: Project Manager responsible for commercial office building fireline and fire hydrant improvement plans.

**Leigh Ann Hair Color Studio and Spa**, Greenwood Village, CO; Project Manager responsible for the site redesign of a Kinder Care into a commercial use site. Design included grading, parking lot and ADA layout, drainage analysis, private patio area, stamped concrete sidewalks, landscape layout and site concept designs.

**Commercial/Retail Redevelopment**, Denver, CO: Project Manager responsible for the site plan layout, including parking lot, drive-thru aisle and ADA access and circulation. Access required coordination with CDOT and City for the site located at two major intersections. Design includes right of way improvements, two patio areas and parking lot redesign, and site planning for City approvals.

**Meridian One Offices**, Douglas County, CO: Project Manager responsible for a 7-acre office building parking lot expansion adding over 80 parking spaces to the site located within Meridian Office Park. Site design includes coordination with architect & structural to design onsite retaining walls with aesthetic handrails. ADA access, parking and circulation was updated to current standards.

**Denver Technological Center & Meridian Offices**, Denver Technological Center, CO; Project Manager responsible for the site re-design and drainage for the DTC / Meridian office building. Engineering included drainage analysis, fireline connection plans and grading associated the addition of a carport parking area to the existing site.

**Avery Gardens Assisted Living Community**, Aurora, CO; Project Manager responsible for site modifications required to redevelop 4 acres consisting of four existing two-story motels into a single building Assisted Living Community. Design was complicated by site size, CDOT right of way and buildings with different floor elevations. Design includes ADA analysis, grading, drainage, erosion control, utility design, parking lot design, courtyard design, sequential detention pond design, sidewalk design and circulation.

**734 Wilcox Medical Office/Retail**, Castle Rock, CO: Project Manager responsible for the site plan and engineering layout, including parking lot, ADA access and circulation, utility connections and onsite detention for a mixed-use development with significant site grade changes.

**7 Hills Veterinary Center**, Aurora CO; LEED Silver Design of this urban infill site included conversion of an existing Teaxco building site into a 10,000 square foot Veterinary Medical Clinic. Design included: sidewalk circulation and ADA access, parking lot design, erosion control, utility services designs, private storm sewer system, water quality enhancing installations, fireline and underground detention modifications.

**Tenaker Veterinary Center**, Aurora CO; Design of this infill site included grading and drainage water quality enhancements and an outdoor park area for a 3,500 square foot Veterinary Medical Clinic. Design included: sidewalk circulation and ADA access, parking lot design, erosion control, utility services designs and water quality enhancing installations.

**Guster Animal Hospital**, Commerce City CO; Design of this dual pad site required grading and design for a shared parking lot, common access drive with shared utilities and outdoor rest area for animals to construct the Veterinary Medical Clinic. Design included: sidewalk circulation and ADA access, parking lot design, erosion control, utility service and main designs and water quality enhancing installations.

**Animal Lodge**, Denver, CO: Project Manager responsible for a 4.2-acre dog daycare and boarding facility located within the High Point development adjacent to DIA. Design required close coordination with multiple adjacent design firms to coordinate integration into the surrounding development currently undergoing review by the City. Design includes grading, drainage, erosion control, parking lot layout, utility connections and site ADA layout.

**Digstown Doggie Daycare and Spaw**, Denver, CO; Project Manager responsible for the site design of a doggie daycare facility located within the Stapleton Subdivision redevelopment. Design required close coordination with multiple adjacent design firms to coordinate site integration into the surrounding development that was concurrently under construction during the site design. Design included grading, drainage, erosion control, parking lot layout, trash truck turning analysis, utility connections and site ADA layout.

**Borst Building**, Longmont CO: Project Manager responsible for site drainage, grading and erosion control of two commercial buildings sharing a pedestrian courtyard. Coordination of the design with the Architect was essential to ensure proper site drainage and foundation elevations. Design required ADA access and patio courtyard drainage allowing seamless integration and function for these buildings. Design also included: building firelines and domestic water services, sanitary sewer service connections and private storm sewer system.

**6th & Santa FE Office / Retail**, Denver, CO: Project Manager responsible for the site design adding a combined retail office development building to an existing site. Design included parking lot, drive aisles, dry utility coordination, sewer and water services, ADA access, ramps, drainage and circulation. Roadway design included streetside parking, gutters and intersection ADA upgrades.

**1421 Blake Street - Armstrong Oil & Gas**, Denver, CO: Project Manager responsible for site design and modifications to a historic commercial building renovation. Renovation included addition of an internal private courtyard and drainage system to the existing building, alley design, fireline installation and a new sewer service.

**100 Jackson Street**, Denver, CO: Project Manager responsible for the site design of a three story commercial office building. Design included a drive ramp to an underground parking garage, fireline, domestic water, sanitary sewer, private drainage system, alley design, onsite ADA parking, ADA analysis, public sidewalks and ADA access.

**HK Realty & Academy Sports Turf**, Englewood, CO: Project Manager responsible for the site engineering plans for a commercial duplex. Design includes right of way improvements, parking lot design, domestic water and sanitary sewer services installations. Drainage design utilized water quality landscape areas to enhance “first flush” runoff to remove pollutants from runoff prior to discharge to receiving waters downstream.

**Clubhouse Lofts**, Denver, CO: Project Manager responsible for a multi-use residential and commercial office building fireline improvement plan set.

**SuTeatro Cultural Performing Arts Center**, Denver CO; LEED Silver Design included; roadway redesign, sidewalk circulation and ADA access, parking lot design, erosion control, utility services designs, private storm sewer system, fireline and underground detention.

**Flatirons Community Church**, Lafayette, CO: Project Manager for preliminary design of a 25-acre church site. Design included analysis of multiple roadways, additional land feasibility study, site and City records investigation and infrastructure cost analysis prior to project design.

**Redemptoris Matter Addition**, Denver, CO: Project Manager for a site design of a 13,000 square foot addition to Redemptoris Matter Seminary; Planned building Group. Project entailed parking lot redesign to allow emergency vehicle access, ADA access and circulation, a sanitary sewer service connection, storm sewer infrastructure design, fire hydrant design and site cost analysis.

**Silver Creek High School**, Longmont, CO: Project Manager working directly with the St. Vrain valley Schools to assist in preparing a concept design for district review followed by analysis and engineering designs for reducing onsite traffic congestion. Site design was completed for a three lane access for reducing traffic backup while improving pedestrian accessibility. Engineering design included roadway design, ADA access, raised crosswalk, intersection redesign, drainage conveyance and onsite CMU retaining walls.

**Longmont High School**, Longmont, CO: Project Manager responsible for master planning concept designs integrating multiple separate athletic fields into a sports complex. New layout required integration of a girls softball field, new synthetic turf soccer field, main entrance plaza, relocation of an existing parking lot and drainage improvements for the existing site. Engineering designs detailed ADA access and circulation, watermain and storm sewer improvements, main complex entrance corridor, improvements to parking and vehicle circulation efficiency, site ADA parking analysis and a new parking lot onsite.

**Lyons Elementary School**, Lyons, CO: Project Manager responsible for pedestrian access, site fire coverage analysis, site drainage assessment and drainage improvements to the existing site.

**Lyons Middle / Senior High School**, Lyons, CO: Project Manager responsible for driveway and pedestrian circulation modifications required for 4,700 square feet of building additions in conjunction with interior building renovations. Site fire coverage review yielded additional fire hydrants required for proper building fire coverage of the existing facility. Site modifications included addition of a basketball court, play areas and pedestrian circulation.

**Stargate Charter School**, Thornton, CO: Project Manager responsible Phase-Two building and playground additions to the existing facility. Site design included a gymnasium with breezeway rooftop detention, a classroom addition with rooftop detention, onsite detention pond analysis and modifications, sequential detention ponds, private sewer main extension, grading and erosion control design

**UNC Maintenance Facility**, Greeley, CO: Project Manager responsible for the design build civil engineering for installation of a new maintenance facility. Design included loading bay driveway designs, ADA access and circulation, site grading and erosion control.

**Centro San Juan Diego**, Denver, CO: Project Manager responsible for the redesign and addition to the existing school parking lot. Design included fire lane access, parking layout, ADA access and circulation, site grading and erosion control.

**Grant Middle School Redesign**, Denver, CO: Project Manager responsible for redesign of a parking area and drive aisle for this Denver Public School mechanical and service area. Design included a new layout, increased circulation ability for large service trucks and provided layout for multiple trash dumpsters.

**Denver Public Schools Parent Project 3750**, Denver, CO: Project Manager responsible for the review and approval of project specifications and shop drawings.

**Brandon Park Subdivision**, Aurora, CO: Project Manager responsible for the design and construction of drainage and erosion control on the final phase of build-out for the project.

**Merchants Row**, Denver, CO: Project Manager for the design and construction of six Brownstones with an internal driveway access courtyard. Design included: drainage, City alley reconstruction, sanitary sewer design, finalizing building floor elevation, sidewalks, cost estimation and permitting.

**5620 Arapahoe - Thistle Community Housing**, Boulder CO: Project Manager for the design and construction of an eight unit apartment complex within an existing complex. Design included drainage layout, sidewalk circulation and ADA access, erosion control, utility design of; sanitary sewer, fireline, domestic water.

**944 Arapahoe**, Boulder CO: Project Manager for the design and construction of a four unit apartment complex located within Gregory Canyon Creek Floodplain. Project included design and layout of a grading and flood elevations onsite and within the parking structure located below the four residential units, erosion control and drainage analysis.

**Volunteers of America Theodora Housing**, Denver, CO. Project Manager for the design of site grading, parking lot replacement, courtyard and drainage improvements for a shelter for women and children.

**Umatilla Townhomes**, Denver, CO: Project Manager responsible for the courtyard, site and drainage design for multiple townhomes with several feet of elevation difference between finished floor elevations.

**2600 Frontview Crescent**, Denver CO: Project Manager for the preliminary design of nine townhomes and 31 residential condominiums within walking distance of Invesco Field. Design included; roadway redesign, sidewalk circulation and ADA access, parking lot design, erosion control, utility services designs, private and public sewer main extensions, fireline and underground detention.

**Serenity Ridge Subdivision**, Berthoud, CO: Project Manager responsible for cost estimates of work completed and remaining to be completed on a subdivision in the process of foreclosure.

**Flats 15-Phase 2**, Denver, CO: Project Manager for the design and construction of an urban infill 7-plex townhome. Design included parking layout, drainage, underground detention, sidewalk circulation and ADA access, alley redesign, erosion control, utility design, sanitary sewer connections, fireline, domestic water, private storm sewer main, public street and pedestrian sidewalk improvements.

**Juan Diego Apartments**, Denver, CO: Project Manager for the design and construction of eighteen unit apartment complex with an underground parking garage. Design included parking garage layout drainage, sidewalk circulation and ADA access, erosion control, utility design, of sanitary sewer, fireline, domestic water, private storm sewer main.

**Hazel Court Affordable Housing**, Denver, CO: Project Manager for the design and construction of three buildings consisting of seventeen apartments with an underground parking garage. Design included parking garage layout drainage, onsite detention, internal sidewalk circulation and ADA access, erosion control, utility design, sanitary sewer connections, fireline, domestic water, private storm sewer main, public street and pedestrian sidewalk improvements.

**Delaware Townhomes**, Denver, CO: Project Manager for the design and construction of a six-plex townhome project. Design included sidewalk circulation and ADA access, public bus stop, erosion control, utility design of sanitary sewer and domestic water, drainage design and drive courtyard design.

**Baker Townhomes**, Denver, CO: Project Manager for the design and construction of a four-plex townhome project. Design included sidewalk circulation and ADA access, erosion control, utility design of sanitary sewer and domestic water, drainage design and courtyard design.

**Wildcat Flats**, Denver CO: Project Manager for site design of a multi-family townhome residence located above an at grade parking with zero lot line setbacks. Design includes sidewalk circulation and ADA access, parking lot design, erosion control, utility designs for fireline, domestic water and sanitary sewer.

**Erie Air park Residence**, Erie, CO, Project Manager for design of a private residence with attached airplane hangar, taxi-way, driveway of a luxury air park home located off Cessna Drive in Erie. Performed roadway design, drainage analysis & report, erosion control design & report, site grading and cut and fill analysis.

**Boulder County Residence**, Boulder County, CO, Project Designer for the site plan of a private residence driveway and site design for a Boulder County Site Plan Review. Performed roadway design and profiling, grading, drainage, erosion control, and cut and fill analysis in conformance with Boulder County requirements.

**Boulder County Residence**, Boulder County, CO, Project Manager for the site plan, site grading drainage and erosion control and roadway design of a shared private residence driveway and site design for a Boulder County Limited Impact Special Review of two luxury home residences located off Sunshine Canyon. Performed roadway design and profiling, grading, drainage, erosion control, and cut and fill analysis in conformance with Boulder County requirements fill analysis.

**Denver Residence**, Denver, CO, Project Manager for the site plan of a private residence driveway and site design. Performed roadway design and profiling, grading, drainage, erosion control, per City requirements.

**Pratt Residence**, Denver, CO, Project Manager for the site plan of a multi-level luxurious private residence. Design included groundwater analysis for determination of finished floor elevation, utility design, driveway, retaining walls, sidewalks, grading, erosion control and site design.

**Prospect Residences**, Longmont CO: Project Manager responsible for site drainage, grading and erosion control of two residential homes sharing one common interior wall and different street frontages. Coordination of the design with the Architect was essential to ensure proper site drainage and foundation elevations. Design required ADA access, and patio courtyard drainage allowing seamless integration and function for these private residences.

**Whisper Mountain Ranch**, Boulder County, CO: Project Manager responsible for the grading drainage and erosion control design of a 0.5 mile mountain ranch roadway. Design included a written construction narrative and details for the installation and construction for the private roadway.

## **Loris & Associates, Inc. Project Experience**

**Barney Ford Elementary School**, Denver, CO: Project Manager for a school parking lot rehabilitation including pedestrian access and circulation design.

**Stargate Charter School**, Thornton, CO: Project Manager responsible for the site design that included multi-purpose playfields, wetlands detention pond, parking lots, parent drop-off loop, turn lane, and fire access. Additional responsibilities included design of developed drainage to correct onsite drainage problems not addressed in drainage master plans. The site utility report included sewer flow analysis and water system model for existing and proposed water mains surrounding the site.

**Prairie Hills Elementary School No. 29**, Thornton, CO: Project Manager responsible for a seven-acre Adams Twelve Five Star school site design that included multiple playfield areas, vehicle service drive, bus drop-off, onsite parking lot sharing access with adjacent City park. Designed ADA access around entire site and access to adjacent park facilities. Site infrastructure included storm sewer, domestic water, sewer, and fireline connections.

**Meridian Elementary School No. 30**, Broomfield, CO: Project Manager responsible for a site design of a seven-acre Adams Twelve Five Star elementary school site including multiple playfield areas, vehicle service drive, bus drop-off onsite parking lot sharing access with adjacent City park. Designed ADA access around entire site, including access to adjacent park facilities. Site infrastructure included onsite storm sewer, domestic water, sewer, and fireline connections.

**Horizon High School Gym Addition**, Thornton, CO: Project Engineer for site development of a high school gymnasium addition including parking lot overlay, site grading utility connections, storm sewer design, bus lane, ADA sidewalks, service drive and trash compactor loading area re-design.

**Horizon High School Track Renovation**, Thornton, CO: Project Engineer for the redesign of a failing high school track facility. The existing track facilities were re-designed to include two new long jump pits and an eight lane monolithic pour PT slab running track with associated drainage system improvements.

**Louisville Community Skate Park**, Louisville, CO: Project Manager responsible for the site infrastructure design of a three-bowl skate park. Site design included a skate bowl underdrain system, storm sewer system, domestic water main extension, drainage channel analysis and redesign, grading, pedestrian bridge, future local access road, private drive and associated parking lot designed for future expansion.

**Antelope Drive Trailhead**, Boulder County, CO: Project Engineer for the design, layout, grading, drainage and erosion control of a new parks and open space trailhead near Lyons. The trailhead was designed as a round about with parking internal and external to the drive aisle. Drystack retaining walls were constructed of local materials to minimize site impact and blend into local surroundings.

**Cherrywood Park**, Thornton, CO: Project Manager responsible for a park design that integrated baseball and two soccer fields within a regional detention pond. The detention pond configuration was modified to maintain historic stage storage discharge relationship and allow ADA access to lower playing fields. Specific pond modifications included an integrated children's climbing hill located on the side slope of the pond, a gazebo, and stairs accessing the pond bottom. The park was located adjacent to Prairie Hills Elementary School which provided additional play apparatus and access points to the park facilities.

**Emerald, Garnet & Elmhurst Streetscapes**, Broomfield, CO: Project Manager responsible for redesign of existing attached sidewalks to five foot detached walks with adjacent colored concrete rumble strip for pedestrian comfort and safety. Design included multiple drive ramps and ADA handicap ramps meeting current standards for truncated dome landings and curb and gutter required for sidewalk installation.

**Lowell Boulevard Sidewalk**, Broomfield CO: Project Manager responsible for design and coordination of a City capital improvements project to procure additional right-of-way for the design and installation of a meandering sidewalk along Lowell Boulevard. Design included analysis of existing properties, plat, property & deed research, homeowner site improvements for properties affected by the project, storm sewer and erosion control for the sidewalk installation.

**Community Park Drive**, Broomfield, CO: Project Manager responsible for the design of a new 32-foot wide roadway connection into Broomfield Community Park. Coordinated site with the structural and hydraulic engineer for installation of a 3-sided box culvert designed to be overexcavated beneath with future floodplain improvements, was critical in this floodplain construction. Design included site grading, pedestrian sidewalks, multiple ADA access locations, modifications to a parking lot round about to facilitate emergency vehicle access and circulation and a roadway connection to East First Avenue.

**Fort Morgan City Hall**, Fort Morgan, CO: Project Manager responsible for the design, planning, layout, site utility relocations and coordination of a parking lot located in the courtyard of five existing City office and storage buildings. Design included ADA parking, pedestrian access and circulation. Drive access to several garage doors and a railroad track crossing were provided in conjunction with this parking area. An overland drainage design was utilized to minimize drainage impacts to existing storm sewers due to lack of additional capacity or a feasible storm sewer connection.

**Landtech Contractors**, Aurora, CO: Project Engineer for the site development of a commercial landscape company office. Design included onsite grading, drainage, erosion control, vehicle circulation, site utilities, wetland channels, detention pond, and adjacent 1/2 section roadway improvement plans.

**Snowmass Club Phase II**, Snowmass Village, CO: Project Engineer for the expansion and remodel of the Snowmass Club. The project included redesign and extension of 3/4 miles of roadway including multiple driveway and intersection improvements. HEC-RAS stream modeling of the 100 year flood was done to ensure no overtopping of proposed roadway arch culverts. Site design for the Snowmass Club Lodge and two new luxury condominiums included grading and drainage design, multiple building utility connections, an entrance drive with drop-off loop, and main parking area. Site design for the proposed 18-hole golf course clubhouse, consisted of grading and drainage design, multi-use event field design, utility connections, an entrance drop-off loop and main parking area.

**Sinclair Meadows**, Snowmass Village, CO: Project Engineer for the preliminary plan submission and approval for the development of seventeen residential lots and twenty-one affordable housing units. Site design for this development included: roadway plans, profiles, access and circulation, domestic water and sanitary sewer modeling and a storm sewer drainage system incorporating a wetland design detention pond.

**Snowmass Center Redevelopment**, Snowmass Village, CO: Project Engineer for the preliminary plan submission for site redevelopment incorporating over a dozen commercial and residential buildings into an existing site at the base of Snowmass Mountain. Design included plans detailing: preliminary roadway alignments and profiles, site access and circulation design, storm sewer and drainage design, domestic water modeling, sanitary sewer, erosion control and geologic hazard mitigation basins.

**Top of Mill Parcel 2, Affordable Housing**, Aspen, CO: Project Engineer for a four-plex affordable housing complex located on within Top of Mill Subdivision, a Four Peaks Development project. Design included site grading, storm sewers, combination fireline and domestic water service connections, sanitary sewer service, multiple drywells and water quality structures, structural & soil nail walls, parking and snow storage, boulder drystack walls and erosion control.

**Top of Mill Parcel 6, Aspen Residence**, Aspen, CO: Project Engineer responsible for site design of a multimillion dollar Aspen residence located at the base of Aspen Mountain within Top of Mill Subdivision, a Four Peaks Development project. Design included site grading, storm sewers, domestic water service connections, sanitary sewer service, water quality drywell, boulder slope stabilized walls, parking and snow storage and erosion control for the residence and detached accessory dwelling unit.

**Amgen AC 23 Addition**, Longmont, CO: Project Engineer for the site design around a new bio-medical plant storage and containment facility. Site design included a storm sewer network, roof drain relocation and connections, sidewalk relocations, and grading and drainage modifications necessary for building installation.

**Boulder Residence**, Boulder, CO: Project Engineer for a mountain community residential home expansion. Site design included CMU block retaining wall for the private drive, courtyard circle drive, sanitary sewer connections, courtyard grading & drainage, sidewalk and stairs layout, deck elevations and a driveway constructed of paver blocks.

**LeClair Residence**, Boulder, CO: Project Manager for a mountain community residential home expansion. Engineering approvals were obtained through the Boulder County Site Plan review process. Site design included a private drive to a detached garage, CMU block retaining wall, drainage, utility connections and grading including sidewalk and stairs layout.

**Dexter Meadows Floodplain Analysis**, Granby, CO: Project Engineer responsible for modeling of the Willow Creek floodplain for the plating of the proposed subdivision. Design assisted in determining feasible locations for building envelopes and a floodplain crossing.

## **JVA, Inc. Project Experience**

**Primrose Schools** - Colorado Springs, Arapahoe Tech Center and Littleton. Project Engineer for the design of entrance drives, parking lots, ADA walks, and storm sewer system which included playground grading, drainage, and other related structures. Coordinated and designed connections for sanitary sewer and water. Performed 100-year flood analysis; compiled final drainage reports.

**Aspen Creek and Eldorado Elementary Schools**, Broomfield and Superior, CO. Project Engineer for the design of a storm sewer system, low tailwater riprap basin, hydraulic drop structures, and other related hydraulic structures for the site. Performed 100 yr. flood analysis; compiled final drainage report for the two Boulder Valley School District K-8 Elementary Schools.

**D'Evelyn Junior/Senior High School**, Littleton, CO. Project Engineer for the design of collector roadway alignment and cross sections, grading, utility profiling and design, storm sewer system including low tailwater riprap basin, irrigation ditch relocation, box culverts, detention ponds, and other related site hydraulic structures. Completed traffic flow analysis and designed road interchanges for site access points of collector street. Performed 100 yr. flood analysis; compiled final drainage report, and asbuilts.

**Montbello High School**, Denver, CO. Project Engineer for the design of a 13,000 square-foot High School Addition. Site design included parking lot rehabilitation, fire lane design, watermain extension and modifications to existing site utilities underneath the new building footprint.

**Douglas County Elementary Schools # 32, 33 & 34**, Douglas County, CO. Project Engineer for the design of a storm sewer system and performed 100 yr. flood analysis.

**Douglas County Middle School 7 / High School 7**, Douglas County, CO. Project Engineer for the design and modeling of the a storm sewer system and 100 yr. flood analysis.

**Jefferson County Public Library at Fehringer Ranch,** Jefferson County, CO: Project Engineer responsible for the design of the preliminary plat for the Jefferson County Public Library, incorporating entrance drives, parking lots, handicap accessible walks, and storm sewer system which included a detention pond, and other related structures.

**Renaissance Suites at Flatiron Crossing,** Broomfield, CO: Project Engineer responsible for the infrastructure design for a nine-story hotel including site access, parking lots, a service drive, storm sewer system and related structures. Performed 100 year flood analysis, compiled final drainage report and utility reports.

**Centro Offices,** Boulder, CO. Project Engineer for the design of an entrance drive with associated access easements, onsite parking lots with underground parking, handicap accessible walks, and highway access relocation. Storm sewer design included integration of a natural streambed through a public landscape plaza. Coordinated and designed connections for sanitary sewer, water, and gas with adjacent city floodplain improvements and future highway expansions.

**Gold Label Cleaners,** Greenwood Village, CO: Project Engineer for the infrastructure design of a mixed-use office, business, retail building located in the Denver Technological Center. Site design included a customer pick-up and drop-off loop, parking, sanitary sewer, domestic water, storm sewer system and coordination of multiple structural retaining walls required for this walk-out basement mixed-use facility.

**Dillon Community Church,** Dillon, CO. Project Engineer for the design of site grading for current and future building expansions, including site parking lot access and circulation. Designed domestic sewer and water locations, coordinating design of new fire hydrant with local fire department.

**Broomfield Church of Christ,** Broomfield, CO. Project Engineer for the design of site grading for current and two future building expansions, including site parking lot access and circulation. Storm sewer design included parking lot, roof and courtyard drainage with a detention pond and floodplain modifications. Future coordination and design included water, sewer and fire hydrant locations.

**McCormick Center Addition,** Arvada, CO. Project Engineer for the design of grading and infrastructure for a new parish center addition and rectory for the Arch Diocese of Denver. Design incorporated passenger drop-off, courtyard grading and drainage, and utility connections. Offsite design included parking lot access, grading, drainage and utility relocations.

**Centennial Hall,** Steamboat, CO. Project Engineer for the design of a storm sewer system, water and sanitary sewer connections, pedestrian facilities, 10th Street regrading, and parking lot which included snow storage.

**Volunteers of America Elderly Housing,** Fort Collins, CO. Project Engineer for the design of site infrastructure, grading, and layout for twelve multifamily dwelling units including roadway design, roadway widening and layout; site access, parking lots, storm sewer system, water and sanitary sewer mains with related structures. Performed 100 yr. flood analysis; compiled final drainage report.

**Greenwood Village Residence,** Greenwood Village, CO: Project Engineer for the design of a complex residential drainage system consisting of over 70 inlets around a private residence consisting of a pool house, circle drive, swimming pool, courtyards and gazebos.