

J3 Engineering Consultants, Inc.

PRECISION // VALUE // QUALITY // INTEGRITY

Craig Northam, PE

Project Manager

Mr. Northam's 20+ years of civil engineering experience has primarily been in land development on projects ranging from 1 to 1000 acres in size. He has been the lead engineer or project manager for dozens of developments covering the residential, commercial, and institutional sectors. He has specialized in site drainage design, water quality, and detention pond design, waterline and sanitary sewer design, street horizontal and vertical design, grading, erosion and sediment control plans, preparation of reports / studies, construction documents, specifications, and cost estimates. Mr. Northam has extensive experience working with multiple jurisdictions, districts and municipalities along the Front Range including the City of Aurora, the City and County of Denver, Douglas County, Parker Water & San. District, Urban Drainage and Flood Control District, and the Town of Parker.

Engineering Project Examples:

East Creek Subdivision – Aurora, CO: A 36-acre subdivision of 146 single-family detached lots and duplexes consisting of varying product types. **J3's** full service scope for the project was site development, including assisting the planner with site layouts, grading, water and sanitary sewer systems design, street design, and stormwater/drainage plans. **J3** was charged with the processing of the planning and engineering documents through the City of Aurora for approval. Mr. Northam's responsibilities included managing the preparation and final approval of the CSP, final drainage report, and construction documents.

Highpoint at DIA Filing's 8 & 9 – Aurora, CO: Two subdivisions of single-family detached lots along with offsite perimeter roadways where the construction documents were originally approved prior to the 2008 recession and partially constructed before an extended down period. As part of the restart, these construction documents were updated to reflect current City of Aurora design standards, including a new SWMP plan/report and pedestrian ramp designs. In addition, offsite sanitary sewer outfall points had to be reconfigured to facilitate these subdivision improvements.

Boulevard One, Block 7 – Denver, CO: A 5-acre multi-use development consisting of retail/restaurant usage, a grocery store, an office building, and a shared parking garage. The project is a portion of the Boulevard One development project located within the former Lowry Airbase Redevelopment. A complex component of the project was the limited storm drainage capacity of the available drainage facilities. **J3** was retained to provide full service scope including assisting the planner with SDP preparation/approval, as well as the processing the approval of a final drainage report and construction documents through the City and County of Denver and Denver Water.

EDUCATION

B.S., Civil Engineering, Montana State University

Master of Engineering, University of Idaho

PROFESSIONAL REGISTRATION

Professional Engineer / CO

EMPLOYMENT

J3 Engineering Consultants, Inc.
Project Manager
2017 – Present

CVL Consultants of Colorado, Inc.
Senior Project Manager
2004 – 2008, 2012 - 2017

S. A. Miro, Inc.
Associate
1994 – 2004

Gronning Engineer Co.
Design Engineer
1990 – 1993



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Sand Creek Ranch/Harmony Subdivision – Aurora, CO: Originally a 160-acre residential development prior to the 2008 recession, this project evolved into a 1,100-acre master planned community consisting of single-family detached and attached lots, multi-family, commercial, municipal, parks, and well sites. In addition, the overall project will have multiple water quality/detention ponds and drainage channels along with offsite connections with existing infrastructure. Master planning consisted of assisting the creation of the FDP documents along with the preparation of Master Drainage and Master Utility Studies. The first phase of planning and construction documents consisted of the development of the first 500 lots along with offsite infrastructure improvements. Mr. Northam's responsibilities included managing the preparation and final approval of the FDP, the 1st phase CSPs, final drainage reports, and construction documents along with extensive coordination with perimeter property owners.

Sierra Ridge Subdivision – Douglas County, CO: A 315-acre master planned residential development in unincorporated Douglas County consisting of approximately 950 single-family detached lots along with multi-family and community center parcels. In addition, the site required extensive due diligence investigations to find a water/sanitary sewer outfall points, ultimately settling on joining Parker Water and San. District with extensive offsite water and sanitary sewer main construction along with two sewer lift station construction packages. The site is also divided into 3 separate drainage basins requiring water quality/detention ponds. Master planning consisted of assisting the planner in the preparation of Sketch Plan and PD documents along with Master Drainage and Master Utility Studies. The site was divided into 3 separate filings requiring separate GESC report/plans, Phase III drainage reports, and construction drawings for each filing.

Prologis Park/Best Buy Parcel - Aurora, CO: A 5-acre site within the Prologis Park development consisting of a single warehouse facility with associated loading dock areas and parking. Notable designs included a water main loop around the warehouse along with sanitary sewer and storm drainage connections to recently constructed development infrastructure. The scope of Mr. Northam's efforts consisted of assisting the planner with CSP preparation along with managing the creation and approval of the final drainage report, construction documents, and easements. The project was time sensitive and required significant coordination with the Prologis Park consultants regarding the connection of the project site to the existing adjacent infrastructure.

Stapleton Residence Hotel - Denver, CO: A 2-acre site within the Stapleton development consisting of a single hotel facility with associated parking. Notable designs included the coordination of fire department access, a water main extension to serve a new fire hydrant, a curb cut street access, along with sanitary sewer connections to recently constructed development infrastructure. The scope of Mr. Northam's efforts consisted of assisting the planner with SDP preparation along with managing the creation and approval of the final drainage report, construction documents, and easements. The project required significant coordination with the Stapleton consultants and review board regarding the connection of the project site to the existing adjacent infrastructure and the overall development.

New Terrain Brewery - Golden, CO: A 3+-acre site consisting of a single brewery/admin. facility with associated parking. The project has significant grade differential throughout the site and potential wetlands impact at the detention pond outfall. Notable designs included a water main loop through the parking lot, a median cut in the street for a turn lane, extensive retaining walls, along with a short sanitary sewer main extension in the adjacent street. The scope of Mr. Northam's efforts consisted of designing and managing the creation and approval of the final drainage report, construction documents, and



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easements. The project required coordination with the North Table Mountain Water & San. District regarding the water and sanitary sewer main design.

Adams 12 Middle School's No. 9 & 10 - Thornton, CO: Two 20+-acre sites each consisting of a single school facility with associated parking and athletic fields. Notable designs for each site included a water main loop around the building and extensive drainage coordination of bypass runoff developed upstream of the site and outfall points offsite. The scope of efforts for each project consisted of designing and managing the creation and approval of the final drainage report, construction documents, and easements. The project required coordination with the City of Thornton, Urban Drainage, and adjacent property owners regarding the storm drainage design from and through each site.

Country Meadows Square-Lots 7 & 8 - Parker, CO: A 3-acre site that is a portion of the partially developed Country Meadows Square development consisting of 3 separate buildings with associated parking lot improvements. Each building is zoned for retail/restaurant usage around an existing parking lot that will be modified as part of this project. Notable designs included the coordination of fire department access, fire hydrant relocations, retaining walls, and extensive sanitary sewer connections with grease interceptors to previously constructed sewer infrastructure. The scope of Mr. Northam's efforts consisted of coordinating the Site Plan preparation along with managing the creation and approval of the final drainage report, construction documents, and easements. The project required significant coordination with the Town of Parker and client regarding the coordination of the project site to the existing overall development.

Sterling Correctional Facility/Trinidad Correction Facility – Sterling & Trinidad, CO: Two 150+-acre sites consisting of at least 2 dozen structures within a maximum-security fence that can house approximately 2,500 inmates. The Sterling facility was fully built while the Trinidad facility was only 25% completed because of funding issues, but both sites were designed using a similar site layout template. Notable designs for the Sterling site included extensive watermain, sanitary sewer and storm drainage networks, a sanitary pre-treatment facility and lagoon, a water tank/pump facility complex, a state highway lane widening, and extensive erosion control given the extremely sandy soils throughout the site. The Trinidad site included extensive watermain, sanitary sewer, and storm drainage networks, a sanitary sewage pre-treatment facility, a water tank/pump facility complex, a state highway lane widening, and a drainage channel realignment. In addition, excavation and utility construction was complicated by the presence of rocky soil formations requiring atypical methods beyond simple ripping.