

**Darlene K. Horn - PE**  
**Project Coordinator**  
**dhorn@abelcs.com**



**AREAS OF EXPERTISE**

Drainage Design  
Detention Ponds  
Storm Water Quality  
Water and Waste Water  
Septic System  
Subdivisions

**EDUCATION**

Bachelor of Science,  
Mechanical Engineering  
1993

**PROFESSIONAL REGISTRATIONS**

Professional Engineer,  
State of CO #42686

**PROFESSIONAL HISTORY**

Abel Consulting Services  
Professional Engineer  
2008 - Present

Abel Engineering  
Professionals, Inc.  
Project Engineer  
2004 - 2008

**PROFESSIONAL SUMMARY**

Ms. Horn is experienced in many facets of the Civil Engineering industry. She has been involved in projects including design of drainage, detention ponds, storm water quality and BMP structures, misc. storm sewer structures, infrastructure systems (including potable water, storm water, water waste water), septic systems, streets, parking lots, subdivisions, commercial sites, retaining walls, and foundations. Ms. Horn has written drainage reports, storm water management reports, design analysis reports, cost estimates and inspection reports. She works directly with clients, architects, engineers, surveyors, contractors and governing agencies to ensure projects are performed efficiently, accurately and complete within schedule and budget constraints.

**RELEVANT EXPERIENCE**

***Multiple projects at United States Air Force Academy under I.D.I.Q. Contract Colorado Springs, Colorado***

Project management and design for three current projects including roadway improvements, parking lot design, as well as drainage and erosion control design for two main base roadways and the athletic field area. Projects are comprised of development of construction plans as well as design analysis documents including reports, calculations, environmental documentation, cost estimates and other pertinent information.

Ms. Horn is also in charge of project management for two other current projects that include a base-wide bridge inspection and an inspection and load-rating project for an existing stage and catwalk area.

***Ridgeview Marketplace Colorado Springs, Colorado***

Site civil design including drainage and water quality, erosion control, roof drain system, parking lot, handicap access, retaining walls, and utilities; preparation of documents including drainage study, Erosion Control O&M manual, construction plans, & cost estimate; coordination

with the client, architect and the City of Colorado Springs, Colorado.

***Amin-Santa Fe Subdivision and Site Design Pueblo, Colorado***

Subdivision and site design including grading and drainage, detention, water quality, erosion control and storm sewer design. Design work also included site layout, parking lots, striping, finished floor determination, public and private utilities, new street design as well as design modifications to existing Santa Fe Avenue (US HWY 50), roadway striping, handicap ramps and signage. Ms. Horn completed construction plans, drainage report, storm water management report, cost estimates and pertinent state and city forms required. She provided coordination with architect, contractor, client, and governing agencies including the City of Pueblo and Colorado Department of Transportation (CDOT).

***School District 60, 2004 Bond Program Pueblo, Colorado***

Provided improvement designs for various Pueblo schools in District 60 including drainage, detention ponds, erosion control, infrastructure and utilities, site development, parking lots, athletic fields, and access.

***Street and Drainage Repair Project Walsenburg, Colorado***

Designed improvements to various streets including grading and drainage, infrastructure design, curb and gutter, asphalt, etc. Construction documents included plan and profile sheets, grading plan, drainage report, cost estimate and details.

***Villa Bella Subdivision Pueblo, Colorado***

Designed multiple streets including intersections, handicap ramps, infrastructure, striping, signage, grading and drainage; aided in coordination with client, utilities and public works departments; worked on phasing the subdivision and associated cost estimates; took over as project manager of project late in design process to bring the project to successful completion.