



## Gerald R. Williams, P.E.

*President*

### *Resume of Transportation Engineering*



Gerald Williams has 24 years of engineering experience in civil engineering that includes various aspects of transportation engineering, including the design of new urban and rural streets, street and intersection reconstruction design, traffic calming facilities, paths and trails, pedestrian bridges and underpasses, and roadway bridges.

**Street Design** Gerald has designed new urban and rural streets, but experience has been more extensive with street reconstruction design. One project alone involved the redesign of all the streets except Main Street in the Town of Collbran, CO which consisted of 27 intersections and 38 blocks in over two miles of street in a steep mountain community, providing curb, gutter, sidewalk, and drainage facilities. Projects have included arterial roads, streets along schools, downtown streets, and urban renewal projects. Most reconstruction projects were complicated with utility improvements as well. One project had in an 80' right-of-way the following: 24", 21", and 15" parallel combined sewers (Gerald designed for combined sewer separation using existing lines plus a new 48" storm drain), two active waterlines that were to be abandoned and replaced with a new 8" line, a medium pressure 10" gas line, 12" high pressure gas line, two banks of underground electric, overhead high voltage lines, an irrigation pipeline, and underground telephone.

**Intersection Design** Mr. Williams has been involved in the reconstruction design of many intersections for the purpose of removing offset alignments, skews, traffic hazards, and to improve capacity and safety. Intersections have included arterials and highways in rural and urban settings. Intersection grading and drainage is of particular concern in all of Gerald's designs.

**Paths and Trails** Gerald has also designed many miles of urban and rural path and trail systems, including the initial five phases of the community path and trail system for the City of Moab. Creek side paths have included underpasses, bridges, jetties, channel improvements, and erosion control. Urban paths have separated pedestrians and school children along major pedestrian and traffic routes.

**Traffic Calming** Mr. Williams has designed scores of bulb-outs and many other traffic calming facilities such as speed tables, refuge islands and medians, variable surface materials for walks, crossings, and to alert of pending changes. Safety for pedestrians and cyclists, and designs for all traffic, including pedestrians and cyclists, has been a high priority in Gerald's designs. Moreover, Gerald attended a Walkable Communities conference in Grand Junction in 1999, presented by Dan Burden, and has had many opportunities before and since then to design traffic calming devices.

**Bridges** Gerald has designed numerous pedestrian bridges in several states, having conventional, spread, slab, and pile foundations. Design focus has been ease and speed of installation, cost, stability and function, and lack of disruption to the surrounding area. Gerald has also designed vehicular bridges, including an arterial bridge with a 22' span where utility relocates, excavation, placement, backfill, and readiness for operation had to occur over a 3 day weekend, and the road *was* open by Monday evening!

### **Registration**

Professional Civil Engineer:

Arizona # 22924

Colorado # 26481

Idaho # 11519

New Mexico #16937

Nevada # 16997

Utah # 188947-2202

Wyoming #10410

### **Certifications**

ASFPM Certified Floodplain

Manager (CFM)

CDOT Certified Erosion Control

Supervisor (CECS)

### **Education**

B.S. (Civil Engineering)

Northern Arizona University

### **Professional Societies**

American Public Works Assoc.

American Water Resources Assoc.

Association of State Floodplain

Managers (ASFPM)

Colorado Association of

Stormwater and Floodplain

Managers (CASFM) [Co-

Founder, Former Vice-Chairman,

and Regional Representative]

Northwest Floodplain Managers

Association (NORFMA)