



Stormwater Engineering: Studies - Master Plans

- Stormwater
- Combined Sewers
- Flood Waters

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Selected Projects



Combined Sewer Separation Master Plan, Grand Junction, CO

Analyze 3.75 square miles of downtown Grand Junction for separation of combined sewers and stormwater management master plan. Project involved modeling and analysis of 10 subbasins with approximately 60,000 feet of pipeline and \$12,000,000 worth of improvements. Masterplan required coordination with the City, railroad company, utility companies, and several state and federal agencies.

Stormwater Management Masterplan, Yuma County, AZ

Gerald Williams, owner of WEI, was project engineer on study involving stormwater and groundwater for an 80 square mile area. Coordination was required between three municipalities, county, state, federal and other agencies. Designed, analyzed, or supervised work involving 14.6 miles of U.S.B.R. pipe and 22.5 miles of U.S.B.R. open channel drains, 585 drainage basins, 309 catch basins, 19 retention basins, 36 pumps, 57,144 feet of existing storm drain pipe, 168,840 feet of proposed storm and groundwater pipe, and seven bridges.

Orchard Mesa Stormwater Mgmt Masterplan, Mesa County, CO

Performed hydrological and hydraulic modeling and analyses and made recommendations for regional drainage facilities. This was an update of the original masterplan prepared with the Grand Valley SWMMP.

Fairway Peaks, Flagstaff, AZ

Performed drainage design and analyses for a master planned community involving 2,083 acres. Used HEC-1 and HEC-2 computer programs.



Grand Valley Stormwater Management Master Plan, Grand Junction, CO

Prepared base mapping and provided hydrological and hydraulic stormwater analyses and master plans on five major basins. Included 100 & 500 year floodplain analyses on several washes, drains, and creeks, involving bridges, culverts, and 444 cross sections.

Fruita Stormwater Management Master Plan, Fruita, CO

Prepared base mapping, hydrological and hydraulic analyses, and stormwater masterplan. Included 100 & 500 year floodplain analyses on Little Salt Wash involving 9 bridges and 110 cross sections.

29 Road Drainage Master Plan, Grand Junction, CO

Performed hydrological and hydraulic modeling and analyses and made recommendations for regional drainage facilities to be constructed as part of the 29 Road Corridor Project.

Blackhawk Subdivision, Bonneville County, ID

Performed drainage and floodplain masterplan for 3500 acre foothill community. Project included two creeks.

City-Wide Floodplain Determination and Stormwater Masterplan, Central City, CO

Performed hydrological and hydraulic study which assessed existing conditions and delineated floodplain areas for the entire City, analyzed effectiveness of various improvements, and prepared a cost-effective improvement program, prepared proposed condition floodplain maps, and prepared application for a Letter of Map Revision (LOMR). CWCB and FEMA were reviewing agencies.

