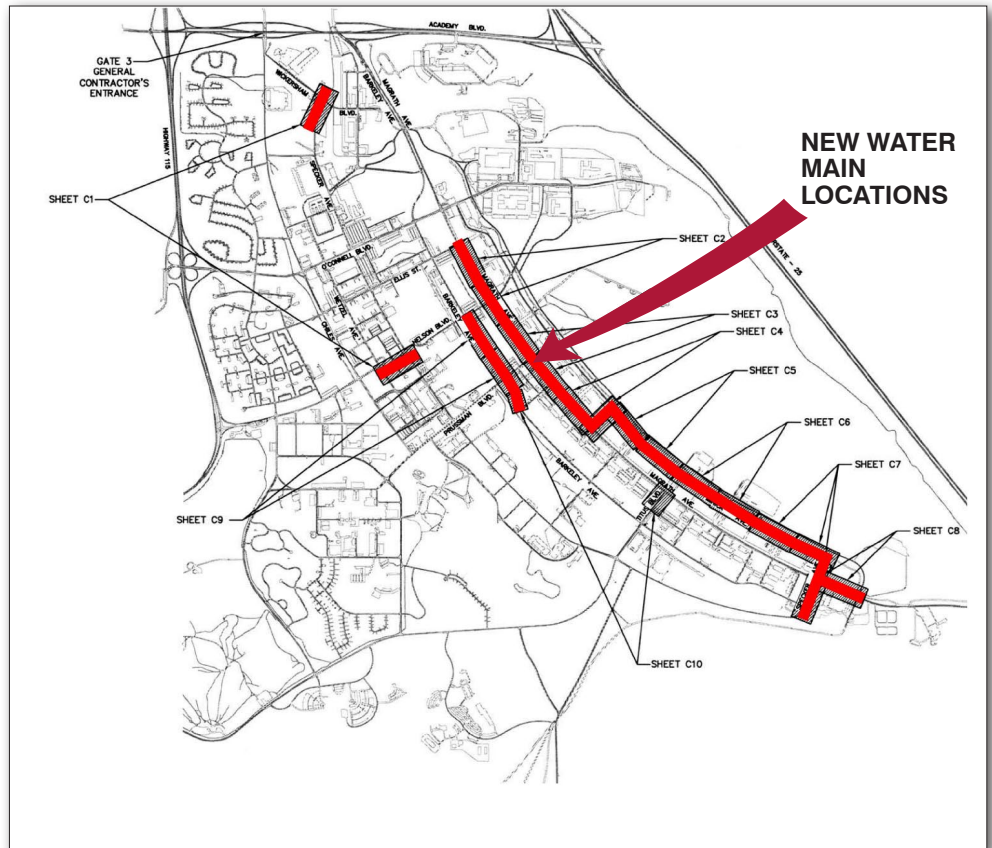


Merrick & Company provided the design of new water mains for the Fort Carson Army Base at Fort Carson, CO. The project involved the design of the installation of nearly 20,000 lf of new water mains to replace existing water mains on the Base. The mains were located in Magrath Avenue, Minick Avenue, Yano Street, Titus Boulevard, Specker Avenue, Berkley Avenue, Nelson Boulevard, Wickersham Boulevard, and other streets on the base. The project included design of the installation of these lines, design and specification of new gate valves, PRV's, ARV's, new Fire Hydrant assemblies, street reconstruction, service tap reconnections, and coordination with base campus operations. The water lines consisted of 14-inch, 12-inch, 10-inch, and 8-inch diameter water lines; existing waterlines were abandoned in place. Elements of the project included the following:

- 19,890 lf of new replacement water mains
- 990 lf 14-inch diameter lines
- 8,060 lf 12-inch diameter lines
- 1,970 lf 10-inch diameter lines
- 8,870 lf 8-inch diameter lines
- High Density Polyethylene Pipe (HDPE)
- 200 psi pipe materials
- 48 fire hydrant assemblies
- 2 PRV stations with vaults
- Air Release Valves (ARV)
- Gate valves, tees, fittings, reducers, blow-off assemblies
- Coordination with base operations & base personnel



Fort Carson Army Base

Merrick provided surveying, utility research, preliminary engineering, final design, coordination, drawings, specifications, and quantity calculations. Merrick was the engineering consultant for the IDIQ Contractors. Vanguard Contractors, Inc. was the General Contractor.