



PDC INC. ENGINEERS

Transforming Challenges into Solutions



Stillmeyer Estates Subdivision Water and Street Improvements and City Sewer Upgrades

Water system upgrades included 6,300 feet of 6-inch and 8-inch ductile iron water main to replace thirty-year-old thin-walled steel piping; a new pump house building to replace multiple separate pump stations that had been costly to maintain; and new service lines to 112 residential lots.

Sewer improvements included replacement of 400 lineal feet of sewer force main and a lift station to provide the final collection point and lift to the wastewater treatment plant. The failing lift station was kept in service during the construction of the new lift station and the installation of the new gravity and force main lines.

Streets in this subdivision had previously been unimproved dirt roads. Reconstruction after installation of the utility lines included the addition of curbs and gutters, drainage ditches, and pavement.

Client:

City of North Pole

Location:

North Pole, Alaska

Project Completion:

2006

PDC Involvement:

- Civil Engineering
- Structural Engineering
- Mechanical Engineering
- Electrical Engineering
- Land Surveying
- Environmental Documentation and Permitting
- On-Site Construction Administration

Anchorage:

T: 907.743.3200

F: 907.743.3295

Fairbanks:

T: 907.452.1414

F: 907.456.2707

www.pdceng.com

PDC handled the entire project from start to finish. We:

- Assessed the condition of existing facilities
- Planned, modeled, and recommended improvements
- Prepared the environmental document and permits
- Developed the design and construction documents
- Provided the City with a full-time on-site representative during construction

Our ability to **integrate environmental considerations and engineering design** paid an early dividend to the project's schedule and budget in the form of a streamlined NEPA process phase. Although the project was initially expected to require an Environmental Assessment, PDC's knowledge of EPA's requirements and of the conditions in North Pole enabled us to develop an environmentally sensitive design that qualified for a Categorical Exclusion (CE) instead. EPA approved our draft CE as final with no changes.