



March 31, 2017

RESUMÉ

Patrick S. Kirby P.L.S.

Title: Senior Surveyor, San Juan Surveying Inc.

Responsibility: Manage and perform office and field survey operations.

Registration: Washington: Professional Land Surveyor, Registration #26369, 1989

Experience

- Numerous public and private sector boundary, topographic, hydrographic and construction surveys in San Juan County since 1986.
- 40 years experience as a surveyor in Vermont, Alaska, California, and Washington states

Education

- Minimum of 15 hours per year professional continuing education at Land Surveyors Association of Washington Conventions and local sub-chapter meetings. Attended 5 days of Civil 3D classes at AutoCAD University and several local vendor Civil 3D classes.
- M.E. in Spatial Information Science and Engineering (formerly Surveying Engineering), with High Honors, University of Maine at Orono, ME, including courses in GPS, GIS, Geodesy, adjustments, database design, remote sensing. 1993-1995
- M.B.A. in International Management, magna cum laude, Golden Gate University, San Francisco, 1981-1983
- A.E in Surveying Engineering, with High Honors, Vermont Technical College, Randolph, VT, 1976-1978
- B.S. in Forestry, University of California at Berkeley, Berkeley, CA, 1969-1973

Presentations to San Juan County LSAW subchapter

- Using Autodesk Civil 3D for legal and topographic, design and construction staking on a county road reconstruction project.
- Historical maps and aerial photographs: Using maps and aerial photographs to retrace and explain the history of local roads.

Software Skills

- AutoCAD Civil 3D 2017 for boundary mapping, topographic surface, corridor, and Lidar modeling
- Starplus Starnet and Triad Least Squares Survey Data Adjustment
- Tripod Data Systems data collection and construction staking
- Microsoft office suite
- Python Natural Language Processing
- Microsoft Server 2012R2

- Microsoft Professional Certification, 1996

Selected Project Experience

Expert Witness: 2015-2016 Historical, survey, and deed analysis in support of a lawsuit regarding rights of a community to use an easement. This work included extensive research of; historical aerial photographs, commercial, private, County maps of San Juan County, and historical surveys and fieldnotes. Examined field evidence of road usage, wrote declarations, was deposed, interviewed witnesses for declarations, provided arguments and evidence to legal counsel, prepared numerous exhibits for court submittal, and assisted counsel in court in discussions with the presiding judge. Wrote a 35-page history of the roads, the people, and the deeds and easements and their meaning. Prepared a 67-page atlas of maps of all property transfers for the parcels involved in the case.

Project: Fisherman Bay County Road Reconstruction San Juan County, WA – 1.9 miles

Performed vertical and horizontal control with a field assistant.

Performed the following tasks alone as a one-person office and field crew: topographic surveying, boundary surveying, wetland surveying, existing right of way and easement analysis and mapping proposed right of way mapping, and legal description writing, In Autodesk Civil 3D created custom templates to model complex road and path corridors and intersections, modeled storm drainage structures, and did cut and fill calculations. Also, prepared plan, profile, and section drawing sheets in Autodesk Civil3D. Set all construction slope and point stakes for grading, drainage, road surfaces, and fencing. At the end of the project prepared a Record of Survey of the final right of way.

Project: Cattle Point County Road reconstruction project San Juan County, WA- 1.5 miles

Surveying calculations, field work, slope staking and staking surface grading hubs for 1.5 miles of county road reconstruction. This office and field work was all done as a one-person crew.

Additional Relevant Local Projects

- Performed boundary and construction staking for airport perimeter fencing project and prepared a Record of Survey of the Eastsound Airport boundary at the completion of the project
- Terrill Beach County road reconstruction, Orcas Island, WA
- Main Street Eastsound, County road reconstruction, Orcas Island, WA
- Deer Harbor County road relocation, Orcas Island, WA
- Spring Street and Argyle Street reconstruction projects, Friday Harbor, WA
- Marina expansion projects in Eastsound, and Westsound, WA
- Rosario Resort ALTA survey
- 1000 acre private ALTA survey, Orcas Island, WA.
- Underwater power line installation surveying, beach crossings and route surveys for Orcas Power and Light Company in San Juan County
- San Juan County GPS control projects.

Community Service

- Board Member of Islands Oil Spill Association (IOSA) and of Orcas Landing Incorporated water system