

Introduction to A-N West

An employee-owned Richmond Business Enterprise (RBE) and Small Business Enterprise (SBE), A-N West and its predecessor firms have been located in the City of Richmond since 1979, serving the City with the design of streets and highways, bikeways, trails, bridges, city parks, residential and commercial developments, and storm drainage and flood control facilities.

A-N West has performed civil engineering services for many East Bay cities, including Berkeley, El Cerrito, Richmond, San Pablo, and Pinole. We have also performed services for Corte Madera, Mill Valley, San Jose, Santa Clara, Milpitas, and Mountain View. ANW's civil engineering services have included design of land development projects, several of which included affordable housing. All of these development projects have included design of grading, paving, drainage, and utility work.

A-N West Services Include:

- Preparation of Planning Studies and Feasibility Reports
- Preparation of Plats and Legal Descriptions
- Preparation of Preliminary Designs and Design Development
- Preparation of Contract Documents (plans, specifications, and estimates)
- Bidding and Construction Period Services

We have coordinated with and prepared permit applications on behalf of clients to:

- California Regional Water Quality Control Board
- California Department of Fish and Game
- San Francisco Bay Conservation and Development Commission
- U. S. Fish and Wildlife Service
- U. S. Army Corps of Engineers



Richmond Marina Bay Development



I-80/Richmond Parkway Interchange



23rd Street Grade Separation, Richmond

A-N West, Inc. Public Sector Clients for Work in Past Five Years

City of San Pablo Ms. Adele M. D. Ho, Director of Public Works
13831 San Pablo Avenue, Building No. 3
San Pablo, CA 94806
(510) 215-3068

*City of Richmond** Mr. Edric Kwan, Interim City Engineer
440 Civic Center Plaza
Richmond, CA 94804
(510) 621-1825

*City of Richmond** Mr. Chadrick Smalley, Project Manager
Richmond Community Redevelopment Agency
440 Civic Center Plaza Richmond, CA 94804
(510) 412-2067

City of Pinole Mr. Dean E. Allison
Director of Public Works/City Engineer
2131 Pear Street
Pinole, CA 94564
(510) 724-9017

Richard K. Lindsay, PE

Education: BSCE, 1967, Civil Engineering, Loughborough, U.K.
Registration: 1986, Civil Engineer, CA, #40885
1972, Chartered Civil Engineer, UK

Mr. Lindsay has over 40 years of civil and structural engineering experience, including studies and analyses, permit applications, development of specifications and cost estimates, and design and construction monitoring of foundations, bridges, and hydraulic and marine structures. His experience has included flood control and stormdrainage facilities, pumping stations, bridges, breakwaters, marine terminals, and shoreline and bank protection.

Court Street Railroad Overcrossing Project Study Report, Martinez. This was Phase 2 of a two-phase project. Mr. Lindsay was Project Engineer for preparation of the "Project Study Report for Railroad Overcrossing – Joe Di Magio Drive/North Court Street Intersection to Court Street/Escobar Street Intersection, Martinez, San Francisco Bay Trail – Martinez Regional Shoreline," dated April 2002. Among other tasks, he studied alternative alignments, profiles, and structure types. *Client: City of Martinez.*

San Francisco Bay Trail at Martinez Shoreline Park, Martinez. Project Engineer for Phase 1 of a two-phase project. Mr. Lindsay was in charge of the design of a 12-foot wide segment of Bay trail as well as the parking lot at the Berrellesa Street Staging Area and the bridge. He prepared performance-type specification for 142-foot long prefabricated steel truss bridge over Alhambra Creek. The bridge was specified to be half-through truss with curved top and bottom chords, and to provide clearance for small vessels. The bridge is for use by pedestrians, bicyclists, and maintenance vehicles. Prepared plans, specification, estimate, and regulatory permit applications (JARPA). *Client: City of Martinez*

Arroyo Mocho Bridge, Livermore. Project Manager for design of bridge across Arroyo Mocho located southeast of Murrieta Boulevard and north of Stanley Boulevard. In charge of preparation of CEQA Initial Study, design of bridge abutment foundations and approach, conceptual design of the bridge, specifications for the bridge approach and abutments, and establishing the performance criteria and specifications for a prefabricated steel truss superstructure. The design loading was for a heavy truck (25 percent greater than AASHTO H-20 Loading). The bridge approach included selection of the alignment and placing of a retaining wall with the aim of saving trees. In charge of preparation of contract drawings, special provisions, and construction cost estimate. The project included all the environmental permitting associated with construction in the vicinity of the Arroyo and with the fording of the channel by construction vehicles. *Client: City of Livermore.*

Point Richmond Retaining Walls, Richmond. Responsible for design and construction support services for four retaining walls in the historic and hilly Point Richmond neighborhood. This involved obtaining surveys, mapping, and geotechnical reports. Alternative structure types were considered and reported

on. The most appropriate solution was selected for each site. The completed plans and specifications have been bid out in two bid packages. *Client: City of Richmond.*

Levin Richmond Terminals Corp. Capping Project, Richmond. Developed design and prepared construction documents for the concrete capping of a 4-acre industrial-area bulk terminal yard. Provided construction-period assistance. *Client: LMC Corp.*

23rd Street Retaining Walls at BART, Richmond. Mr. Lindsay performed an independent check of the existing retaining walls adjacent to the BART aerial structure piers which were being seismically retrofitted with larger footings. The retaining walls had been designed earlier by A-N West as part of the 23rd Street Grade Separation project. Portions of the existing wall footings were replaced with new resisting elements. At BART P-370, the process resulted in the retaining wall to the Carlson Boulevard approach being strengthened with soil anchors acting together with a bonded reinforced concrete facing applied to the existing wall stem. At BART P-372, the double stem wall on the west side was modified with a new portion of wall. *Client: City of Richmond.*

Master Agreement with the City of San Jose for Storm Drainage Related Consultant Services. Project Engineer for four storm drainage related civil engineering task orders for the period from June 2006 through December 31, 2010. These Task Orders consisted of:

- Prepare Alternative Solutions and Final Design for Modifications to Rincon Pump Station No. 1 Trash Racks
- Oakmead Pump Station Diesel Engine Replacements
- River Oaks Pump Station Geotechnical Investigation
- Vaults at Bulldog Boulevard and Wood Creek Drive

Client: City of San Jose.

Pier 43-1/2 Improvements, San Francisco. Investigated existing structures and prepared design and contract documents for the repairs and improvements to a ferry berth to serve passenger ferry vessels. *Client: Red & White Fleet.*

Sausalito Debris Dock and Ramp, Sausalito. Provided structural evaluation of the condition of this reinforced concrete dock for the US Army Corps of Engineers. Mapped the extensive spalling on the soffit and impact damage on the deck and took concrete samples to determine chloride ingress. Proposed repair procedures. Prepared construction documents covering partial and complete removal and reconstruction of portions of the dock. *Client: US Army Corps of Engineers.*

San Rafael Creek Tidal Barrier, Marin County. Developed conceptual design of tidal barrier structures on San Rafael Creek for the US Army Corps of Engineers to prevent tidal flooding of upstream areas. Alternative concepts included fixed and movable barriers working in conjunction with a 600,000 gpm pump station. *Client: US Army Corps of Engineers.*