



Claude R Swarthout, P.E. /S.E.

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SUMMARY

C.R. Swarthout More than 55 years of experience in the design and construction of civil, structural, land development, hydraulic design and bulk material handling and conveyor systems. Also experienced in gold process systems industrial projects and agricultural projects. Experienced in overall management of projects, from initial site selection, permitting, cost estimating, feasibility studies, procurement, contracts and subcontracts, negotiations, construction management and liaison, start-ups and turnover.

REGISTRATION & CERTIFICATES

Licensed Professional Engineer in Idaho, Nevada, Washington, Oregon, Utah, Hawaii. Have been licensed in California, Colorado, Montana Wyoming and Minnesota. but presently inactive.

Registered Structural Engineer in Idaho, and have SECB Certification

EDUCATION

B.S., Ag Engineering, University of Idaho and MS in hydraulics and structures, Oregon State System of Higher Education.

PROFESSIONAL AFFILIATIONS

Idaho Society of Professional Engineers
Structural Engineers Association of Idaho
American Society of Civil Engineers (Lifetime Member)
Construction Specifications Institute
National Cattlemen's Association, Idaho Cattlemen's Association,
North American Limousin Foundation

POSITIONS HELD

Principal, Engineered Conveyor Systems, 2014 to present
President, CEO of Jcrs Consulting, 22 years to present
Vice President, Conveyor Engineering Inc. and Manager of Engineering and Construction Principal and Owner, 26 years
Manager of design for Conveyor Engineering Inc., and Engineering Services, 2 years
Principal design and Project Engineer, USDA, Soil Conservation Service Engineering and Watershed Planning Unit All Far West States, Portland Oregon, 5 years
Civil, and Ag Engineer USDA, Soil Conservation Service - Idaho, Butte, Custer and Lemhi Co., 4 years
Owner and Active in 4-S Ranches, 41 years to present



RELATED EXPERIENCE

Especially proficient at managing “Design, Furnish and Erect” type of Material Handling projects with fast track schedules as well as system retrofits and upgrades to increase production, availability and sustainability. This experience and proven track record allows for on--time, credible and cost effective results, which allows for your review and evaluation.

PROJECT EXPERIENCE (ONLY MAJOR PROJECTS LISTED)

- 2013 – Big Island Dairy, Permitting and Engineering Design- O’okala HI
- 2010 – Holt Dairy – Permitting and Structural Design- Ag Resources Consulting Utah
- 2009 – Zeolite Processing Plant – Sheaville Zeolite LLC Oregon
- 2009 – 3 Mile Canyon, Redesign of 25,000 HP Pumping Station Oregon
- 2009 – TRICA Bldg. Value Construction Estimate, Boise, ID
- 2008 – Timber Bridge over Walvagonal Canal , ID
- 2008 – City of Grandview, Pedestrian Bridge over Canal, Grandview, ID
- 2007 – Salmon River Subdivision 58 Acres in Custer Co., ID
- 2007 – Stecher—Venture and Strategic Analysis of Freeflow Sulphur Technology, Gig harbor WA
- **2006 – and Earlier Projects**
- Kern Const, H20S16 Bridge over Boulder Cr., Little Salmon River,
- Rio Ranch Estates, A 212 Acre Development
- PT Freeport Indonesia Mine 400 MTPH Grassberg Lime Plant, Iran Jaya
- LB Industries, Recreational Development, 1500 Acres, Payette River, ID
- Valley Co, West Mountain Road Design McCall to Smiley Lane, Valley Co. ID
- LB Industries, Flood Plain Studies on North Fork Payette River Valley Co.
- PT Freeport Indonesia Mill site, Conveyor System Upgrades, Iran Jaya
- American Pacific Minerals LTD, Design, Fab and Procurement and Construction Observation, Gold Crushing and Agglomeration System, for Goldfield Operations, Goldfield NV.
- Laherruda Gold /Newmont Jt Vt on Penoles Co. , Develop Flowsheets and Feasibility for Crushing, Agglomeration and Process Circuit, with recommendations and Costs, Torreon ,Mexico
- Omalon Gold Project, Jt Venture with Yanke Machine Shop , Visit Jobsite and prepare Retrofit Drawings and Detailed Costs, with Productivity Increase Analysis, North above Maggadon, Russia
- Amselco Gold, Crushing and Agglomeration Mill Turnkey Design-Furnish & Construct, From ROM feed to Heap Leach Load out Hopper , Complete system, with sampling, electrical and controls, Ely, NV
- Bechtel Contract, Mobil gold ore mill system, Pre Fab and Assemble, Erect and Test on site, Primary Crusher Module, Secondary Crusher Module, Agglomeration and Silo Module, Control and Mcc Module, Fast Track System 5 Months Completion, Hawthorne NV.
- Cominco Contract, Silver and Gold Ore Crushing and Agglomeration Facility Design and Furnish of Mill, Gyratory Crusher and Load out Bin,

Belt Feeder and Hopper System., Cascading Belt Conveyor Distribution System and Ore Stockpiling System, Mina NV.

- Oregon Portland Cement Co., Limestone Quarry and Cement Plant Conveyors and Transfer Towers for 23 Conveyors and Transfer chutes, Tubular enclosures for Cement Plant Conveyors. Durkee, OR.
- Freeport Gold Co., Burn Basin and Big Springs Gold Expansion Projects, Featured Conveyors and Transfers, Elko, NV
- Freeport Research and Engineering, Freeport Indonesia Mill Expansion, Preparation of specs, and Bid Package, with Engineering and Procurement Cost Estimates, Mill Site, Indonesia
- Pacific Power and Light Co. Jim Bridger Coal , Stack out Conveyor Emergency Repair and Rebuild Project, Dave Johnston Power
- Hycroft Research and Development, Gold Ore Crushing and Agglomeration and Leach Pad Distribution System, to include all Buildings and Ancillary Systems Design and Procurement, Nevada
- Cominco American, Mine Process Plant consisting of Precipitation and Clarification, Also Diesel Power Generation Plant, with Solution Heating, Buckhorn NV.
- Galactic Resources, Crushing and Agglomeration Plant with all supporting systems, Includes site analysis, Del Norte, Colorado
- Bechtel Civil and Minerals, Summitville Gold Mine, Crushing and Agglomeration to a Load out Bin, South fork Colorado.
- Freeport McMoRan, Various system Upgrades that ranged from 86 DMTPH to 250 DMTPH, Most steel fabrication for onsite detailing, with specialty fabrication and assembly of Feeders and trippers. Significant travel to co-ordinate and facility, On going for 15 year period Iran Jaya, Indonesia,
- Idaho Power Co. , Franklin and 5 Mile Boise Operations Center, To include Site Development, Building Designs, Assist with selection of Contractors, Site Co-ord On going for 10 year period, Boise, ID