

RAYMOND J. DODSON
CONSTRUCTION CONSULTANT

447 Eleanor Drive
Woodside, CA. 94062-1119
650-366-6658 Tel & Fax
E-mail Address - RayDodson@aol.com

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Educationally, I have a Bachelor of Science Degree in Civil Engineering (1951) and a Master of Science Degree in Civil Engineering (1952) from Stanford University.

In addition to attending numerous seminars and night classes on a continuing basis at local community colleges, I completed the Alexander Hamilton Institute 24 month Modern Graduate Business Program in 1966.

I am a registered Civil Engineer in the State of California, holding license number C10671.

I have completed the following American Arbitration Association training classes:

Commercial/Construction Arbitration Training

Commercial/Construction Advanced Arbitration Training

Mediation Seminar

Decision Making and Documentation in Complex Commercial and Construction Arbitration

Arbitration Training Workshop

Since my retirement from the Guy F. Atkinson Construction Company in April 1987, I have performed Construction Consulting on a limited basis (40 to 60) days per year). My primary consulting has been related to Dispute Review Boards and Arbitration with some cost estimating, constructability reviews, value engineering and limited expert witnessing.

I currently serve on 5 active Dispute Review Boards (one as a DRA). I have been selected to the boards as the Chairman, and by the contractor and by the owner. Attached hereto is a complete listing of the 83 Dispute Review Boards, both active and completed projects on which I have served (*see-attached pp. 4-15*).

In December of 1990 I delivered a 30-minute presentation to the American Segmental Bridge Institute at their annual convention, entitled "Alternate Forms of Dispute Resolution, with a Primary Emphasis on the Dispute Review Board". In April of 1993 I addressed a group of Bridge and Structural Engineers at a University of Texas seminar on the subject of "Partnering and the Dispute Review Board Process". In April of 1997, I was a panel member on Partnering at a CLE International Legal Seminar.

I participated in the rewriting the McGraw Hill publication entitled "The Dispute Review Board Manual", authoring the chapter entitled "How the Dispute Review Board Functions".

I have served as a single arbitrator, as an arbitrator on a three-panel board and as the chairman of a three-panel board. These arbitration matters have ranged from the small home owner/contractor dispute to major disputes on both private and public sector construction. A large arbitration case, on which I served as the chairman was a \$6 million

dispute between a highway contractor and the Florida Department of Transportation. I served as a panel member on a major combined cycle cogeneration plant arbitration matter involving claims and counter claims of \$63,000,000, requiring over 3 months of hearings.

I also serve on the arbitration panel for the State of California, Department of General Services, Office of Administrative Hearings for Public Works construction disputes. I have served as a sole arbitrator on 40 such OAH cases with an aggregate claim amount of \$87 million.

Since my retirement I have served as an arbitrator in 73 arbitration cases involving over \$161 million in total claims. *(see page 16-17 attached)*

I worked for the Guy F. Atkinson Construction Company all of my working career, from 1952 through 1987. *(see page 18-19 attached)*

From 1975 to 1987, I was Vice President/Construction Manager for Atkinson, working out of their corporate headquarters in South San Francisco, California. As VP/Construction Manager my main responsibility was to maintain the general efficiency and operation of the construction projects assigned to me, to produce a profitable business activity.

From 1966 to 1974 I was either the Southern California Area Manager, the Northern California Area Manager or the VP/Highway District Manager for Atkinson's highway and marine operations in California (as well as work in Oregon and Washington).

Prior to 1966 I was the operations manager for Atkinson's highway construction in the Southern California area for 3 years. Prior to that I was the Project Manager on 2 major highway interchange projects in the Los Angeles area.

In the time frame 1957 to 1961 I had the good fortune to have the opportunity to work in the field as a craft foreman and craft superintendent. Specifically, I had the following assignments;

1. Labor Superintendent; Responsible for all general labor functions on a major highway excavation project.

2. Excavation Foreman/Superintendent; Atkinson had me join the Operating Engineers Local #3 Union. I worked as an operating engineer on the Trinity Dam in California (\$50 million, 600' high earth fill dam).

3. Paving Superintendent; I was the CTB and PCC Paving Superintendent on several Atkinson California highway projects, utilizing both header board paving and slip form paving.

4. Structures Superintendent; On a 100,000 cubic yard structures concrete project in Los Angeles. This entailed several different types of bridges, cut and cover tunnel sections, the operation of a job site batch plant and the driving of the foundation piles.

While with Atkinson, I was responsible for the operation of a commercial precast concrete yard. This yard manufactured primarily concrete piling for our own construction operations. In addition it made concrete girders, concrete sheet piles, single and double-T building units, and the other typical menu of precast products.

In addition, as Atkinson drove most of the piling on their construction projects as well as sub-contracting the driving of piling in unique cases, I became very involved with pile driving. This included the usual square and round concrete piling used for general construction to various shapes of steel piling to large diameter steel and hollow concrete piling to large 10 foot diameter cast in drilled concrete piling. This included both land and water driven piling.

While obtaining my college education I worked for a local commercial building contractor as a timekeeper, cost control clerk and office man on a part time basis.

I was elected a Vice-President and Director of the Guy F. Atkinson Company in 1973. While with Atkinson, I served on the AGC-CalTrans Liaison Committee for some 10 years, serving as the contractor Chairman for 4 years. This committee met quarterly to discuss mutual problems, specification changes, new technology, equipment rates, contract administration procedures, etc.

I also served as a District Director and State Director of the California AGC. In addition I was a member of the American Association of State Highway Officials, the International Road Building Federation and the American Society of Military Engineers.

I am currently a panel member of the California Office of Administrative Hearings, Charter member of the Disputes Resolution Board Foundation and a member of the Beavers.

I currently serve on the following active Disputes Review Boards. Listed below is a very short description of these projects, including the approximate construction dates and how I was nominated to the board.

1. Eddyville Project, a \$130 million design-build project on Oregon Route 20, between Yaquina River Constructors and the Oregon Department of Transportation for the construction of 7 miles of very mountainous new alignment, including 3.2 cubic yards of excavation, extensive drainage, structures and extensive environmental mitigation.
(06-05 to 11-11) (Chairman)

2. Archer-Western-Herzog – DART, a \$467 million design-build project to construct on new alignment 13.5 miles of the new DART Green Line, Sections NW-2, NW-3 and NW-4. Approximately 50% of this work is elevated (524 spans of bridge) including 8 stations, 5 at grade and 3 aerial. The work involves excavations, drainage, sewage, structures, AC and PCC pavement, track work, electrification and controls, etc.
(06-07 to 10-10) (Chairman)

3. Tesla Treatment facility, an \$83 million contract between PCL Civil Constructors, Inc. and the San Francisco Public Utility Commission for the construction of an ultra violet water treatment facility on a design-construct basis, consisting primarily of ultra

violet equipment, controls and instrumentation: chemical building: UV building: Operations building and related facilities.

(04-09 to 12-11) (Nominated by Owner)

4. San Antonio Pump Station Upgrades, a \$7 million contract between Mountain Cascade, Inc. and the San Francisco Public Utility Commission for the retrofit of the existing pumping plant, including replacing three 1000 HP pumps, providing two additional generators, seismic retrofit of the pump station and related work.

(11-09 to 12-11) Nominated by Owner as the Dispute Resolution Advisor)

5. BDPL5 East Bay Pipeline Project, a \$61 million contract between Ranger Pipeline and the San Francisco Public utility Commission, for the construction of 7 miles of new 72" water pipe in the City Of Fremont, California primarily in open cut with 8 street crossings utilizing tunneling and jacking, including special reinforcing at the Hayward Fault.

(11-09 to 11-11) Nominated by Owner

I served on the Disputes Review Boards of the following completed projects. Listed below is a very short description of these projects, including the approximate construction dates and how I was nominated to the board.

1. Washington Department of Transportation Project SR90, Bush Place to 23rd Avenue South Eastbound and Center Roadways. This \$25 million, two-year contract involved the reconstruction of an existing highway between the Washington Department of Transportation and the David A. Mowat Construction Company.

(03-90 to 08-92) (Nominated by Contractor)

2. Colorado Department of Transportation Project No. ID 70-2 (143). Referred to as the Shoshone Dam Interchange, this was a \$25 million Gcanyon highway contract between the Colorado Department of Transportation and Centric-Jones Constructors.

(06-90 to 10-92) (DRB Chairman)

3. Washington Department of Transportation Project SR90, Bellevue Access Transit and HOV - Phase I. This \$19 million, two year contract involved major reconstruction of an existing highway between the Washington Department of Transportation and the General Construction Company.

(03-91 to 05-93) (DRB Chairman)

4. Colorado Department of Transportation Project No. I 70-2(145). Referred to as the Hanging Lake Viaduct, this was a complex \$39 million canyon highway contract of four plus years duration between the Colorado Department of Transportation and Flatiron/Prescon Joint Venture.

(10-89 to 10-93) (DRB Chairman)

5. Washington Department of Transportation, I-90 Lacy floating bridge. This \$87 million contract between the Washington Department of Transportation and General Construction entailed the replacement construction of 25 reinforced pontoons, comprising 6620' of roadway.

(02-92 to 10-93) (DRB Chairman)

6. Federal Highway Administration Project, Natchez Trace Parkway. This \$14 million contract between the Federal Highway Administration and PCL Constructors involved the construction of a 1600' long pre-cast segmental concrete arch bridge (10-91 to 07-94) (Nominated by Contractor)
7. Washington Department of Transportation, reconstruction of route 405/NE 8th Street Interchange. This \$28 million HOV road and bridge contract was between the Washington Department of Transportation and Kiewit. (05-92 to 08-94) (Nominated by Owner)
8. Dallas Area Rapid Transit (DART), a \$10 million light rail project to build 0.4 miles of transit system and roadbed, both cut and cover and depressed. Included in the contract between DART and Rosiek Co. was extensive soldier piling and cast in drilled hole support piling. (01-93 to 01-95) (DRB Chairman)
9. Emergency Operations Center - A \$10 million contract between Dillingham Corporation and Los Angeles County to construct a 33,000 SF, seismically base-isolated centralized County management facility for emergency operations for 8 County Departments. (05-92 to 06-95) (Nominated by Contractor)
10. Rehabilitation of the Evergreen Point Floating Bridge across Lake Washington, a \$24 million fast track project between Atkinson Construction Company and the Washington DOT. (03-94 to 06-95) (Nominated by Owner)
11. State of Hawaii, a \$145 million contract to construct 1.24 miles of dual, elevated, cast in place cantilever concrete bridges in a very sensitive environmental area in Hawaii. The work, between the State of Hawaii and Kiewit, entailed extensive deep drilled shafts in mountainous terrain. (03-92 to 07-95) (DRB Chairman)
12. City of Fresno contract with Roen Construction, \$5 million, for the rehabilitation of the digesters and related work in the Fresno/Clovis Wastewater treatment Plant, including electrical, mechanical, instrumentation, etc. (12-92 to 09-95) (DRB Chairman)
13. Olmstead Lock and Dam - A \$55 million contract between Balfour-Beatty and the U S Army Corp of Engineers to construct stage I cofferdam, including 50 each 65' diameter sheet pile cells, removing 2 million cubic yards of slide material and other related work for the future twin 110' x 1200' locks. (05-93 to 10-95) (Nominated by Contractor)
14. Deadwood Creek Bridge, a contract between Fletcher General Construction and the Federal Highway Administration to construct an open spandrel 2 ribbed concrete under arch bridge 275' long in the State of Washington. (09-93 to 10-95) (DRB Chairman)

15. SR 181/Green River Interchange, an \$8 million contract between Progressive Contractors and the Washington DOT to completely reconstruct a congested interchange, including 2 new highway and 2 new river bridges, excavation, embankment, paving and extensive landscaping in several traffic stages.

(07-93 to 12-95) (DRB Chairman)

16. Bay Area Rapid Transit Colma Station, a \$45 million light rail contract between Dillingham Construction and BART to construct the Colma Station, including all electrical, architectural, HVAC, etc; construction of numerous bridges and retaining walls; modification to existing walls and tunnel section; track work and electrification.

(04-93 to 02-96) (Nominated by Contractor)

17. Transportation Corridor Authority (TCA), a \$840 million design-build project to construct the 15 miles long San Joaquin Hills Corridor toll road in Orange County. This first of a kind project, between TCA and Kiewit-Granite, Joint Venture, entailed contractor design and build. This 6-lane highway extends from the John Wayne Airport to Highway 5 in Laguna Beach.

(03-93 to 04-96) (DRB Chairman)

18. Dallas Area Rapid Transit (DART), a \$56 million 4 year light rail project between Gilbert Construction and DART to construct 1.4 miles of light rail rapid transit in downtown Dallas including the construction of two at grade stations.

(01-93 to 06-96) (Nominated by Contractor)

19. City of San Francisco, MUNI Metro Turnback, a \$107 million light rail project between Tutor-Saliba-Perini and the City of San Francisco to construct 1100' of 30'x 40' deep covered box constructed within cast in drilled hole piling and struts and 840' of dual 18' diameter tunnel constructed under compressed air.

(06-93 to 10-96) (Nominated by Owner)

20. Evergreen Point Floating Bridge Rehabilitation, Stage 2, a \$5 million contract between Atkinson Construction and the Washington Department of Transportation to modernize the existing 33 year old bridge by replacing rollers, reballasting, paving, new signs and lights.

(04-96 to 10-96) (Nominated by Owner)

21. Fresno/Clovis Wastewater Treatment Plant, an \$85 million contract between the City of Fresno and Western Summit for plant expansion from 55 mgd to 68 mgd, including new headworks, seepage handling facilities, primary clarifiers, aeration tanks, anaerobic digesters, sludge dewatering facilities, etc.

(10-93 to 11-96) (DRB Chairman)

22. Glenmont Storage Yard, a \$23 million contract between Lane Construction and Washington Metropolitan Transit Authority to construct an equipment storage and maintenance facility, including extensive track work and grading and the construction of 5 buildings.

(03-94 to 11-96) (Nominated by Owner)

23. Dallas Area Rapid Transit (DART), a \$119 million contract for the construction of 3.5 miles of 21-foot diameter twin bore subway tunnels, using a tunnel-boring machine.

Included in the contract, between DART and S. A. Healy, was one major, very deep underground transit station and one at grade station.

(02-92 to 01-97) (DRB Chairman)

24. Boston Central Artery/Tunnel I-90 Tunnel Finishes, a \$75 million contract between the Massachusetts Highway Department and Walsh Construction Company to finish the interior of 8000' of immersed tube and covered reinforced concrete box connecting Logan Airport to downtown Boston.

(12-92 to 01-97) (DRB Chairman)

25. Highway I-5 HOV Lane Widening, a \$30 million project between Kuney Construction and the Washington DOT to provide 5 miles of highway inside lane widening north of Seattle.

(02-94 to 02-97) (Nominated by Owner)

26. Dallas Area Rapid Transit (DART), Contract NC-2, a \$25 million contract between DART and Eby Construction Company to construct 4 miles of at grade and elevated dual line light rail rapid transit, including 2 stations.

(06-94 to 02-97) (DRB Chairman)

27. Tukwilla to Lucille Street HOV, Stage 1, a \$14 million contract between Wash DOT and Atkinson Construction Company to widen 4 miles of Highway I-5 in Seattle to provide HOV lanes.

(11-94 to 02-97) (DRB Chairman)

28. Southern Nevada Water Authority, Contract W-11 - A \$14 million contract between the Southern Nevada Water Authority and TAB Construction to place 18,000 feet of lined 60" steel potable water line in Las Vegas, Nevada, including siphons, valving, controls, etc. in trenches to 21' depth, including some tunneling.

(09-95 to 06-97) (DRB Chairman)

29. First Avenue South Bridge, a \$51 million contract between Guy F Atkinson and the Washington DOT to construct a double leaf Bascule span bridge (trunion to trunion span 294') with prestressed concrete girder approaches founded on very deep composite steel/concrete piling and related improvements of 1.5 miles of existing highway in West Seattle.

(10-94 to 06-98) (Nominated by Owner)

30. Seismic retrofit, an \$80 million contract between Atkinson Construction and the California DOT to strengthen the substructure of 2 miles of viaduct on Interstate 280, including 280,000 lf of piling, 30,000 cy of concrete and 4 million pounds of steel column casing in San Francisco.

(11-94 to 07-98) (DRB Chairman)

31. Port of Dallas Interchange, a \$10 million contract between N.B. Hatch and the Oregon Department of Highways to convert a single off-ramp freeway connection into a full freeway interchange.

(09-96 to 07-98) (Nominated by Contractor)

32. Washington Department of transportation Project SR-5, Pierce County Line to Tukwila. This \$17 million project between WashDOT and Kiewit Pacific Company to widen two miles of interstate 5, providing climbing and HOV lanes in 5 stages, including retaining walls, bridge widening, concrete paving and other related work.
(05-96 to 07-98) (Nominated by Owner)
33. Southern Nevada Water Authority, Contract 110-C, South Valley Lateral. An \$18 million contract between SNWA and Lake Mead Constructors to place 41,000 feet of 108" mortar lined steel water pipe, in cuts 19' to 38' deep, including valves, fittings, cathodic protection, fiber optics and other related work.
(11-96 to 08-98) (DRB Chairman)
34. Southern Nevada Water Authority, Contract 110-H, South Valley Lateral. An \$11 million contract between SNWA and Lake Mead Constructors to place 24,000 feet of 90" mortar lined steel water pipe, including valves, fittings, cathodic protection, fiber optics and other related work.
(11-96 to 08-98) (DRB Chairman)
35. Southern Nevada Water Authority Contract 080D, Ozone mass grading project between SNWA and Lake Mead Constructors to perform mass grading and related work in Lake Mead to construct an ozone plant pad.
(08-97 to 08-98) (DRB Chairman)
36. Southern Nevada Water Authority Contract 110-M, South Valley Lateral. A \$6 million contract between SNWA and Lake Mead Constructors to construct 4 water flow control stations and related work.
(05-97 to 02-99) (DRB Chairman)
37. Naylor Road Station and Line Section - A \$49 million light rail contract between Lane Construction and the Washington Metropolitan Transit Authority to construct 1.3 miles of the "F" Line, consisting of 3500 feet of elevated structure, with the remaining line either in cut or fill with continuous retaining walls, and one elevated station.
(09-95 to 02-99) (DRB Chairman)
38. Southern Nevada Water Authority, Contract 110-D, Foothills Pump Station. A \$15 million contract between SNWA and Lake Mead Constructors to construct a pump house, including valves, electrical, mechanical, fiber optics, and the refurbishing of 7 owner furnished pumps.
(03-97 to 03-99) (Chairman)
39. Hawthorne Bridge Painting and Deck Replacement Project, a \$17 million project between Abhe & Svoboda, Inc. and the Oregon Department of Transportation to structurally modify, replace decking, and paint this old lift span bridge, including electrical work.
(11-97 to 05-99) (Chairman)
40. Washington Department of Transportation, Duwamish River Bridge contract with Atkinson Construction, a \$27 million job to rehab the 40 year old Bascule bridge, with new steel grating, equipment repairs, new approach viaducts, instrumentation to interface with adjacent new Bascule bridge.

(02-97 to 05-99) (Nominated by Owner)

41. Hollywood/Highland Station, a \$73 million light rail contract between Tutor-Saliba-Perini and the Los Angeles Metropolitan Transit Authority to construct a 725' long Metro tunnel station under Hollywood Blvd, 70' deep. Construction consists of soldier piles, multi layered struts, precast decking, and 100,000 CY of structural concrete and lining of 7000' of tunnel.

(05-95 to 05-99) (DRB Chairman)

42. San Mateo Bridge Retrofit Project, an \$8 million contract between West Coast Bridge and the California Department of Transportation to seismically strengthen 857 each 30' long, 4 lane wide spans of the low level concrete approaches, including piling, electrical.

(09-97 to 06-99) (Chairman)

43. North Hollywood Station, a \$65 million light rail contract between Kajima-Wilson and the Los Angeles Metropolitan Transit Authority to construct a 900' long Metro tunnel station under Lankershim Blvd, 75' deep. Construction consists of soldier piles, multi layered struts, pre-cast decking, and 75,000 CY of structural concrete.

(05-95 to 07-99) (Nominated by Owner)

44. Suitland Station and Line, Section F9A, a \$50 million light rail contract between Blake Construction and the Washington Area Metropolitan Transit Authority to construct 1.4 miles of transit line including 2300 feet of double, cut and cover box, depressed station, 1800 stall parking structure, grading, retaining walls, track ballast.

(10-95 to 12-99) (Nominated by Owner)

45. California Department of Transportation, \$16 million retrofit project with West Coast Bridge, to seismically strengthen the west approach to the San Francisco-Oakland Bay Bridge, primarily by 15 miles of concrete coring, from 2" to 10" size holes in the 60 year old structure.

(05-98 to 03-00) (Chairman)

46. Washington Department of Transportation Project SR-405, Bothell to Swamp Creek. A \$19 million project between the WashDOT and Tri-State Construction to provide HOV lanes for three miles of interstate in three stages.

(03-97 to 06-00) (Nominated by Owner)

47. Alaska Department of Transportation, \$56 million project with Kiewit Construction Company

to design-build-operate for a two year period the modifications to a 50 year old, three mile long railroad tunnel to accommodate both rail and auto traffic at separate times, including tunnel enlargement, ventilation, electrical, signals, safety, etc.

06-98 to 06-00) (Chairman)

48. Amtrak Northeast Corridor Improvement Project, a \$500 million design-build contract between the National Rail Passenger Corporation and Balfour Beatty Construction and Mass. Electric Construction, a JV. This 57-month project entails the design and construction of approximately 400 track miles of railroad line with a new 25

KV-60Hz single-phase electrification system enabling trains to run at 150 mph between New York, NY and Boston, MA.

(12-95 to 08-00) (Nominated by Contractor)

49. Washington Department of Transportation, Replace eastbound bridge at Snohomish River, a \$33 million contract with General Construction to construct a new mile long bridge over the river and through a slough. Founded on large diameter cast-in-drill hole piling and driven piling, with a superstructure of structural steel, I-girders and cast in place box girders.

(01-99 to 09-01) (Nominated by Owner)

50. Highway SR 525, a \$20 million contract between Kuney Construction and the Washington Department of Transportation to construct a full interchange between highway 525 and 99, including a pre-cast girder bridge, excavation, cement treated embankment, ponds, SC & DI, etc.

(08-99 to 10-01) (Nominated by Owner)

51. Reconstruction of Interstate Route 184/184 Connector, called the WYE Interchange Project in Boise, a \$63 million contract between the Idaho Transportation Department and Nelson/McAlvain Joint Venture, to replace 4 existing bridges, perform grading, paving, drainage, electrical and extensive landscaping.

(03-99 to 11-01) (Nominated by Contractor)

52. Branch Avenue Storage Yard, a \$91 contract Between Clark Construction and the Washington Metropolitan Area Transit Authority to perform site work, buildings and shop equipment, track work and ballast, traction power, communications, train control and landscaping.

(07-99 to 10-02) (Nominated by Owner)

53. SR5, Pierce County Line to Tukwila, a \$23 million contract between the Washington Department of Transportation and Scarsella Brothers, to improve 6 mile of existing freeway, including bridge widening, grading, asphalt and concrete paving, drainage, electrical, etc.

(03-01 to 11-02) (Nominated by Owner)

54. 180th Avenue to Maple Valley, a \$23 million contract between the Washington Department of Transportation and Tri-States Construction, to widen 4 miles of existing Highway 18 to 4 lanes including excavation, grading, rock crushing, paving, bridges, demolition, drainage, etc.

(05-01 to 11-02) (Nominated by Owner)

55. Lopez Dam Project – An \$18 million project in Arroyo Grande, California between Ford Construction and the County of San Luis Obispo to seismically upgrade the existing earth fill dam with stone columns and a large down stream buttress embankment.

(07-01 to 08-03) (DRB Chairman)

56. SR90-519, Intermodal Access, a \$33 million contract between the Washington Department of Transportation and Balfour Beatty Construction to provide improved access to the Port of Seattle traffic, ease railroad congestion and work near Safeco Field.

The work includes deep caissons, bridges, walls, electrical distribution, drainage, hazardous material disposal, demolition, etc.

(05-01 to 06-04) (Nominated by Owner)

57. Hondo Valley Highway – A \$157 million design-build contract between Granite Construction and the New Mexico DOT to improve and widen 38 miles of mountainous highway on route US 70 from Ruidoso Downs to Riverside from 2 lanes to 4 lanes.

(08-02 to 02-05) (Nominated by Contractor)

58. Willamette River (Broadway Bridge) Rehabilitation Phase 4, 5, 6 and 7 – A \$22 million contract between Multnomah County and Mowat Construction Company to rehabilitate the century old structural steel bridge with Bascule span, by removing and replacing concrete sidewalks and curbs, sidewalk steel repairs, blasting and repainting structural steel, new deck overlay, etc.

(01-03 to 04-05) (Nominated by Contractor)

59. Lynwood Park and Ride Direct Access Sound Transit Project – A \$14 million project between Mowat Construction Company and the Washington Department of Transportation, to provide direct access to the parking lot from I-5, including new HOV ramps and lanes, grading, paving, electrical, intelligent transportation system, etc.

(03-03 to 09-05) (Nominated by Owner)

60. SR-91, Smithfield to Idaho Line & SR-23 Newton to Idaho Road, Widen to four lane and Resurface. An \$18.6 million contract between Staker & Parson Companies and the Utah Department of Transportation to widen 11 miles of existing two lane road to four lanes, under traffic.

(12-03 to 10-05) (Nominated by Contractor)

61. T-REX project - \$1.67 billion design-build project in Denver, Colorado between the Southeast Corridor Constructors (Kiewit) and the Colorado DOT and the Regional Transportation District to construct 19 miles of double track light rail with 13 stations and to reconstruct and widen 17 miles of Interstate Routes I-25 and I-225.

(06-01 To 09-06) (Chairman).

62. US 183A - \$180 million design-build toll road turnpike contract between Central Texas Regional Mobility Authority and Hill County Constructors, including 1.5 million cy of excavation, 22 bridges, 250,000 sf of retaining walls, drainage, tolling facilities, operation facility, pcc paving, ac paving, etc.

(12-04 to 06-07) (DRB Chairman)

63. I-182 to Columbia Center Blvd. Interchange – A\$30 million contract between Icon Materials and the Washington Department of Transportation to improve and widen highway I-182 in the City of Richland, consisting of excavation, grading, drainage, structures, etc. *(This project DRB was created at the end of the project to hear one dispute)*

(04-05 to 07-07) (Nominated by Owner)

64. Hood Canal Bridge Retrofit and East Half Replacement – A \$420 million contract between Kiewit-General and the Washington State Department of Transportation to construct a graving dock, fabricate 14 pontoons with superstructure, rehab 3 pontoons, assemble and test new draw span, replace approach spans, etc. *(the DRB is on hold on this project)*

(08-03 to 08-10) (Nominated by Owner)

65. I-5 Pierce County Line to Tukwilla – A \$35 million contract between Icon Materials and the Washington State Department of Transportation to widen I-5 with HOV lanes in each direction, including 4 structures, 6 detention ponds, walls, grading and paving, ITS system and lighting.

(02-05 to 08-07) (Nominated by Owner)

66. Phoenix Metro Rail – A \$54 million contract between Sundt/Stacy Whitbeck and the Valley Metro Rail for the construction of Line Section #4, 5.36 miles of double at grade light rail in the City of Phoenix, including extensive utility relocation, street grading and paving, utilities, foundations for 4 light rail stations, etc.

(01-05 to 12-07) (Nominated by Owner)

67. Phoenix Metro Rail – A \$70 million contract between Sundt/Stacy Whitbeck and the Valley Metro Rail for the construction of Line Section #5, 4.70 miles of double at grade light rail in the City of Phoenix, including extensive utility relocation, street grading and paving, utilities, foundations for 8 light rail stations, etc.

(07-05 to 03-08) (Nominated by Owner)

68. Tacoma Narrows Bridge – A \$615 million design-build contract between Tacoma Narrows Constructors (Bechtel & Kiewit Pacific) and the Washington Department of Transportation for the new Tacoma Narrows Bridge on State Route 16. The bridge is a 5413' long suspension bridge with 510' tall towers. Also included are a toll plaza, access lanes, an interchange and the ability for a future second deck.

(09-02 to 03-08) (Nominated by Owner)

69. Tacoma Narrows Bridge – A \$10 million design-build contract between TransCore and the Washington Department of Transportation to furnish and install the toll collection system, complete for the new as well as the old bridge.

(09-02 to 03-08) (Nominated by Owner)

70. Everett HOV Design-Build Contract – A \$215 million contract between Atkinson/CH2Mhill and the Washington Department of Transportation to improve 5 miles of Interstate Highway I-5, with HOV lanes in each direction, including widening/building 20 bridges, extensive grading, drainage, asphalt paving, concrete paving, electrical, etc.

(05-05 to 07-08) (Nominated by Owner)

71. I-405 SR 520 to SR 522, Kirkland Stage 1, a \$50 million design-build contract between Kiewit and the Washington Department of Transportation to widen both inside and outside 1.5 miles of Interstate Highway 405 in the City of Kirkland, including grading, AC paving, drainage, extensive environmental mitigation work, electrical, etc.

(10-05 to 04-08) (Nominated by Owner)

72. SR 167 - \$27 million contract between Icon Materials and the Washington Department of Transportation for the widening and improvement of 11 miles of State Route 167 in the City of Auburn, including grading, AC paving, drainage, retaining walls, bridge widening, electrical, etc.

(04-06 to 06-08) (Nominated by Owner)

73. Phoenix Metro Rail – A \$58 million contract between Kiewit Western and the Valley Metro Rail for the construction of Line Section #1, 2.27 miles of double at grade light rail track in the City of Phoenix, including extensive utility relocation, street grading and paving, utilities, foundations for 3 light rail stations, etc.

(11-05 to 07-08) (Nominated by Owner)

74. Phoenix Metro Rail – A \$55 million contract between Herzog Contracting Corporation and the Valley Metro Rail for the construction of Line Section #2, 2.99 miles of double at grade light rail in the City of Phoenix, including extensive utility relocation, street grading and paving, utilities, foundations for 6 light rail stations, etc.

(11-05 to 05-08) (Nominated by Owner)

75. Phoenix Metro Rail – A \$95 million contract between Archer Western and the Valley Metro Rail for the construction of Line Section #3, 4.29 miles of double at grade light rail in the City of Phoenix, including extensive utility relocation, street grading and paving, utilities, foundations for 11 light rail stations, etc.

(11-05 to 06-08) (Nominated by Owner)

76. Phoenix Metro Rail – A \$63 million contract between Archer Western and the Valley Metro Rail for the construction of 32 light rail stations with 37 platforms on line section #1 to #5, with architectural steel columns, extensive art work, colored paver stones, extensive electrical and control conduit, etc.

(10-05 to 12-08) (Nominated by Owner)

77. Phoenix Metro Rail – A \$40 million contract between Mass Electric and Valley Metro Rail for 20 miles of double track Communications System including an operations control center, 33 passenger stations, 5 transit centers, 8 park and rides and a Signal System including 9 interlocking, 4 manual crossovers, 8 grade crossings, maintenance and storage facilities, etc.

(02-05 to 10-08) (Nominated by Owner)

78. Phoenix Metro Rail – A \$58 million contract between Mass Electric and Valley Metro Rail for Traction Electrification, including 570,000 lf of OCS messenger and contact wire, 1500 poles, 14 mainline substations, yard substation, shop substation, 130,000 lf traction power positive feeder and negative return, etc.

(01-05 to 08-08) (Nominated by owner)

DISPUTE REVIEW BOARD HISTORY & EXPERIENCE

Contract	Year	Disputes	Review	Nominated to DRB By
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Contractor-Owner	Volume Millions	Project Complete	Heard	Board Meetings	Owner	Contr.	Chairman
<u>ACTIVE PROJECTS</u>							
1. Yaquina-OreDOT	130	2011	0	7			X
2. AWH-DART	467	2012	0	6			X
3. PCL-SFPUC	83	2012	0	2	X		
4. MtnCas-SFPUC	7	2011	0	1	0.5	0.5	
5. Ranger-SFPUC	61	2011	0	0	X		
SUB-TOTAL	\$ 748		0	16	2.5	0.5	2

COMPLETED PROJECTS

1	Mowat-WashDOT	\$25	1992	0	4		X	
2	Centric-ColoDOT	25	1992	1	4			X
3	General-WashDOT	19	1993	2	5			X
4	Flatiron-ColoDOT	39	1993	7	9			X
5	Genrcal-WashDOT	87	1993	0	4			X
6	PCL-FHWA	14	1994	0	3		X	
7	Kiewit-WashDOT	28	1994	2	3	X		
8	Rosiek-Dart	10	1995	6	8			X
9	Dillingham-LACnty	10	1995	1	1		X	
10	Atkinson-WashDOT	24	1995	0	5	X		
11	Kiewit-Hawaii	145	1995	7	7			X
12	Roen-Fresno	5	1995	1	1			X
13	BalfourBeaty-USED	55	1995	2	1		X	
14	FlGen'l-FHWA	2	1995	2	1			X
15	PCI-WashDOT	8	1995	10	7			X
16	Dillingham-BART	45	1996	1	8		X	
17	Kiewit/Granite-TCA	840	1996	3	7			X
18	Gilbert-DART	56	1996	8	10		X	
19	Tutor-CitySF	107	1996	4	9	X		
20	Atkinson-WashDOT	5	1996	0	1	X		
21	West Summit-Fresno	85	1996	19	12	X		
22	Lane-WMATA	23	1996	0	5			X
23	Healy-DART	119	1997	0	12			X
24	Walsh-Mass DOT	75	1997	0	1			X
25	Kuney-WashDOT	30	1997	1	3	X		
26	Eby-Dart	25	1997	1	5			
X								
27	Atkinson-WashDOT	14	1997	2	3			X
28	TAB-SNWA	14	1997	1	3			X
29	Atkinson-WashDOT	51	1998	1	6	X		
30	Atkinson-Caltrans	80	1998	0	7			X
31	Hatch-OregonDOT	10	1998	1	1		X	
32	Kiewit-WashDOT	17	1998	0	2	X		
33	LMC-SNWA 110-C	18	1998	0	5			X
34	LMC-SNWA 110-H	11	1998	0	5			X
35	LMC-SNWA 080-D	4	1998	0	5			X
36	LMC-SNWA 110-M	6	1998	0	2			X
	Contractor-Owner	Contract Volume	Year Project	Disputes Heard	Review Board	Nominated to DRB By Owner	Contr.	Chairman

	Millions	Complete		Meetings			
37 Lane-WMATA2	49	1999	0	7			X
38 LMC-SNWA110-D	15	1999	0	5			X
39 Abhe & Sv-OregonDOT	17	1999	3	4			X
40 Atkinson-WashDOT	27	1999	0	1	X		
41 Tutor-MTA	73	1999	9	12			X
42 WestCst-CalTrans	8	1999	0	2			X
43 Kajima/Wilson-MTA	65	1999	3	10		X	
44 Blake-WMATA	50	1999	0	11	X		
45 WestCst-CalTrans	16	2000	4	6			X
46 Tri-State-WashDOT	19	2000	1	6	X		
47 Kiewit-AlaskaDOT	56	2000	0	4			X
48 BB/MEC-Amtrak	500	2000	4	13		X	
49 General-WashDOT	33	2001	1	9	X		
50 Kuncy-WashDOT	20	2001	0	4	X		
51 NMJV-IdahoTD	63	2001	2	2		X	
52 Clark-WMATA	91	2002	0	6	X		
53. Scarsella-WashDOT	23	2002	0	4	X		
54 TriStates-WashDOT	23	2002	0	4	X		
55. Ford- SLO County	18	2003	1	1			X
56. BalBeatty –WashDOT	33	2004	1	9	X		
57. Granite-NMDOT	157	2005	2	8		X	
58. Mowat Mult Cnty	22	2004	0	6		X	
59. Mowat-WashDOT	14	2004	0	2	X		
60. Stecker-UtahDOT	19	2005	0	2		X	
61. SE CC-CODOT	1670	2006	0	9			X
62. CTRMA-Hill Cnty	180	2007	2	5			X
63. Icon-WashDOT	30	2007	2	3	X		
64. Kiewit-WashDOT	470	2010	0	6	X		
65. Icon-Washdot	35	2007	0	6	X		
66. SSW-Mero rail	54	2007	0	2	X		
67. SSW-Metro Rail	70	2008	0	2	X		
68. TNC-WashDOT	615	2008	1	12	X		
69. Trans-WashDOT	10	2008	0	0	X		
70. AT-CH-Washdot	215	2008	0	6	X		
71. Kiewit-Washdot	50	2007	1	X			
72. Icon-WashDOT	27	2007	0	7	X		
73. KW-Metro Rail	58	2008	0	6	X		
74. HCC-Metro Rail	55	2008	0	7	X		
75. AW-Metro Rail	95	2008	1	8	X		
76. AW-Metro Rail	63	2008	0	7	X		
77. Mass-Metro Rail	40	2008	0	2	X		
78. Mass-Mertro Rail	58	2008	0	2	X		
SUB-TOTAL	\$7417		122	407	34	13	31
GRAND TOTAL	\$8165	83 DRB's	122	423	36..5	13.5	33

RAY853 (08-15-10) RAY 945A (03-28-10) RAY 823A (07-09) RAY750 (02-08) (RAY706 11-06) (WAS RAY672)

ARBITRATION CASES CHRONOLOGICAL LISTING

NO.	PARTIES	CASE NUMBER	DATE	AMOUNT
1	VSL v Bechtel	74-110-0901-86	05-98	30,000
2	Trancoat v Blount Const	Private	1989	2,550,000
3	Volker Stevins v Florida DOT	VSFDOT	02-90	7,000,000
4	A & B Painting v L E Wentz	4-E110-0157-88	03-90	5,200
5	Gribble v Shimmon	74-146-1064-89	03-90	2,600
6	LeVange v SAE Const	74-146-0359-90	08-90	Performance
7	Dorman v Stockwell	74-146-0725-90	10-90	1,300
8	Atalla v Neuman Painting	74-146-0884-90	10-90	2,400
9	Dino v West Coast Cement	74-146-1293-90	12-90	1,100
10	Granite Marble v Blount	74-110-0264-89	12-90	330,000
11	Lambert v Aliberti Const	74-146-1294-90	01-91	2,100
12	Kaufman Broad v Western Ls	74-110-1136-90	02-91	268,000
13	Dey Labs v Lathrop Const	74-110-0259-90	02-91	500.000
14	Moore v Schneider Const	74-146-0089-91	02-91	1,600
15	Woodworth v Little Guippetos	74-146-0016-91	02-91	1,440
16	Coastal Pipe v Oliver DeSilva	74-E110-1445-90	02-91	25,000
17	Hanson v Chapman	74-146-0373-91	04-91	3,840
18	Weichert v Dariano Const	74-146-0562-91	05-91	1,800
19	Branch v DeCarli Appliance	74-146-0561-91	05-91	2,500
20	Grace v Triano Const	74-146-0676-91	05-91	10,000
21	Beebe v Sunshine Floors	74-146-0724-91	09-91	500
22	Nielson v Greg Samoulides	74-E110-0914-91	08-91	6,700
23	Univ Calif v Soil Engr Const	74-E110-1578-91	11-91	30,000
24	Solario v United Pools	74-146-1526-91	12-91	25,000
25	Crangle v Morales Floors	74-146-1121-91	11-91	2,600
26	DeRosa v Tabco Heating	74-146-0097-92	02-92	5,380
27	Zeff v Gentry Design	74-146-0123-92	03-92	25,000
28	Lee V F & C Painting	74-146-0308-92	04-92	1,390
29	Tranthon v Robinet & Sons	74-146-0110-92	04-92	19,000
30	Maahs v Xenoleth Const	74-146-0638-92	06-92	25,000
31	West Bay v Marin County	A-0011-92	09-92	30,600
32	Williams v MBR Const	E91-2959/AN 92-37	10-92	3686
33	Davidson v Hoty Const	NC91-25815/AN 92-37	10-92	5,000
34	Dick Corp v Westinghouse	33-110-0115-92	10-92	63,000,000
35	Monterey Pen v Caltrans	A-0034-93	02-94	43,000
36	Madonna v Caltrans	A-0019-94	08-94	383,000
37	Richards v Cal Dept Genl Servcs	A-0042-95	01-96	7,070
38	Granite v Caltrans	A-0050-95	01-96	100,500
39	Torno v Caltrans	A-0034-95	02-96	1,368,400
40	Sundt v Caltrans	A-0020-96	06-96	575,500

41	Ridgwick v Caltrans	A-0038-96	10-96	238,600
42	DeSilva v Caltrans	A-0042-97	11-97	288,200
43	Choice Const v Caltrans	A-0025-98	09-98	197,475
44	Schram Const v Caltrans	A-0013-98	11-98	98,145
45	Young v Caltrans	A-0038-98	12-98	15,000
46	Brosmer v Caltrans	A-0044-98	01-99	80,600
47	Menefee Const v Caltrans	A-0039-99	08-98	88,300
48	Young v Caltrans	A-0011-99	03-99	54,200
49	Young v Caltrans	A-0012-99	03-99	22,800
50	Young v Caltrans	A-0013-99	03-99	11,400
51	Young v Caltrans	A-0014-99	03-99	29,600
52	Young v Caltrans	A-0015-99	03-99	18,400
53	Madonna v Caltrans	A-0042-99	07-99	121,900
54	Kiewit Pacific v Caltrans	A-0048-99	08-99	452,400
55	Riverside Const v Caltrans	A-0049-99	07-99	413,000
56	Rados Const v Caltrans	A-0054-99	08-99	21,946,000
57	Granite Constr v Caltrans	A-0010-00	03-00	24,000
58	Serrano-Cone v Caltrans	A-0015-00	04-99	2,391,000
59	MBE Electric v Caltrans	A-0027-00	11-00	1,203,000
60	Kiewit v Caltrans	A-0010-02	04-02	2,933,000
61	Rasmussen/Myers v Caltrans	A-0027-02	08-02	33,554,000
62	Banshee Const v Caltrans	A-0015-03	05-03	391,000
63	Banshee Const v Caltrans	A-0029-02	08-02	284,000
64	Banshee Const v Caltrans	A-0010-03	03-03	1,539,000
65	Kiewit v Caltrans	A-0009-02	04-02	5,477,000
66	Beador Const v Caltrans	A-0022-04	03-04	59,000
67	Kiewit v Caltrans	A-0009-02	03-05	5,476,000
68	Banshee Const v Caltrans	A-0010-03	11-05	1,539,000
69	Banshee Const v Caltrans	A-0010-05	03-06	2,987,000
70	Yenter v KLB Travelers	Private	02-07	1,850,000
71	Baker v Caltrans	A-0026-05	Open	206,000
72	Tiffany v Ventura County	A-0021-05	Open	149,000
Office of Administrative Hearings Cases		40 Cases		\$87,463,000
Other Arbitration Cases		32 Cases		\$73,660,436
Grand Total All Cases		72 Cases		\$161,123,436