

# TRENT J. LOUGHEED, P.E.

## Senior Project Engineer I



### PROFESSIONAL STATUS

Washington State Licensed Professional Engineer in Civil Engineering; (No. 35194) June 1998  
E.I.T. Certificate, Washington State, June 1994

### EDUCATION

Washington State University, Pullman, Washington  
1994 to 1995 - Master of Science in Civil Engineering

Washington State University, Pullman, Washington  
1991 to 1994 - Bachelor of Science in Civil Engineering

South Puget Sound Community College, Olympia, Washington  
1989 to 1991 - Associate of Arts Degree

### EXPERIENCE

May 1996 to Present:

**PROJECT ENGINEER** - J. W. Morrissette & Associates, Inc. P. S.; Olympia WA  
Provides consulting engineering services for private developers, municipalities and state government. Conducts studies, provides design and construction management services and supervises engineering technicians for completion of roadway, storm drainage, water system and sanitary sewers projects.

May 1995 to May 1996

**TRAFFIC/PAVEMENT RESEARCH SPECIALIST** - Nichols Consulting Engineers, Reno NV  
Primary responsibilities included coordination with fourteen State highway agencies on traffic data collection activities for the "Long Term Pavement Performance" (LTPP) project and traffic data processing, quality control and analysis for more than 500 LTPP test sites. Also responsible for representing the Western Region on Specific Pavement Study (SPS) construction projects on rural and urban highways across the region and rubber-modified asphalt concrete construction projects throughout the country. Other responsibilities included project recruitment, construction correspondence, review and approval of laboratory data and construction reports.

Dec. 1993 to May 1995

**TECHNICIAN/RESEARCH ASSISTANT II**, Washington State University; Pullman WA

Experience includes assisting in the new Washington State University Civil Engineering Bituminous Laboratory and reviewing literature for the Washington State Department of Transportation. Primary responsibilities included receiving, assembling and testing laboratory equipment for the new bituminous laboratory, and reviewing literature on the effects of recycling scrap rubber tires in asphalt pavement. Fluent in pavement analysis software such as MODULUS, AASTO, and Elsym5.

Feb 1990 to Dec 1993

**ENGINEERING INTERN** - Thurston County Public Works, Engineering Division,  
Design/Construction Department; Olympia WA

Extensive experience in all aspects of design and construction of bridges, roads, storm sewer systems and water/wastewater treatment systems. Experience includes working with right-of-way and easement research, U.L.I.D., correspondence, AutoCAD design, item quantity calculations, engineering and pay estimates, specifications, contract bid documents, construction inspection and management, surveying and public relations.

### **TECHNICAL PUBLICATIONS**

VISCOSITY CHARACTERISTICS OF RUBBER-MODIFIED ASPHALTS, T. Lougheed, and A.T. Papagiannakis, approved for publication to the A.S.C.E. Journal of Materials in Civil Engineering.

CHARACTERISTICS OF RUBBER-MODIFIED ASPHALTS, T.J. Lougheed, Masters Thesis, Washington State University, 1995.

### **CONTINUING EDUCATION**

Courses completed since college graduation include:

Federal Highway Administration - Manual Distress Survey Certification;  
Minneapolis, MN

Washington State Department of Transportation - Miscellaneous Documentation Course

Victor O. Schinnerer - Professional Liability, Short Course

Maccaferri Gabiens, Short Course

### **MEMBERSHIPS**

ASCE - American Society of Civil Engineers

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