



## Tri-County Metropolitan Transportation District of Oregon (Tri-Met)

### Westside MAX - Westside-Hillsboro Light Rail Extension Sound Insulation Program

#### Overview:

Tri-Met's first extension of its light rail network headed for the fast-growing high-tech corridor on the Westside. One of the largest public works projects in Oregon's history, the line bored through the West Hills, inspired extensive transit-oriented development and infused community-focused public art into its innovative design. The Westside / Hillsboro Extension involved the construction of 18 miles of light rail double track main line between downtown Portland, Beaverton and Hillsboro, two miles of paved track in Portland and the Hillsboro central business district and 16 miles on a dedicated right-of-way, including the three-mile West Hills tunnel.

OTAK, Inc., under agreement with Tri-Met, contracted with the Jones Payne Group (formerly City Design) to employ its *Soundesign™* technology in carrying out the acoustical / architectural design tasks for 24 homes in Hillsboro. The noise mitigation approach for the program utilized "short wall" noise barriers designed to reduce noise for exterior and interior living spaces on grade. The focus of the "in-house" sound insulation effort was only for upper story rooms used for sleeping purposes.

Furthermore, only those sleeping rooms that have a direct line-of-sight exposure to the track were treated.

#### Services Provided by Jones Payne Included:

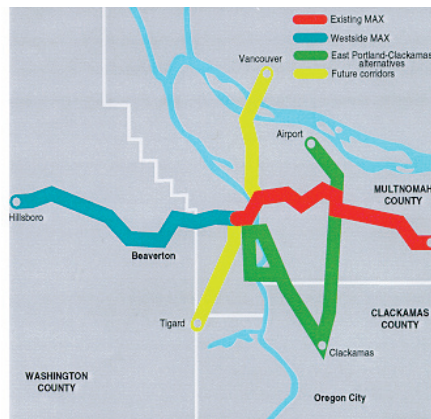
- Treatment Protocol Development
- Presentation Material Development
- Field Assessments
- Preliminary Design Report
- Final Design Report
- Cost Estimating
- Construction Administration Support
- Final Evaluation Report

#### Special Features:

Program schedule required a fast-track design process that would not have been feasible without the experience and systems that Jones Payne brought to the table.

#### Systems Utilized Included:

- Computerized field data collection
- Automated cost estimation
- *Soundesign™* output and specification standards
- Sound Insulation Management Database to track Homeowner contacts, milestones and issues.



#### Work Complete:

24 Units (1996-1997)

#### Construction Costs:

\$3,000,000

For more information please contact Michael Payne in our Boston headquarters at (617) 790-3747 email him at [mpayne@jonespayne.com](mailto:mpayne@jonespayne.com)

#### Did You Know?

Tri-Met was the first transit authority to benefit from Jones Payne's *Soundesign™* technology.