



**PORTLAND-MILWAUKIE**  
LIGHT RAIL PROJECT

# Preliminary Engineering

## **What is Preliminary Engineering?**

Preliminary Engineering (PE) is analysis and design work to produce construction plans, specifications and cost estimates. PE brings plans to 30 percent complete. The next step, Final Design, brings plans to 100 percent completion.

## **When is it happening?**

Spring 2009 – Spring 2010

Summer 2009: 15 percent level of design complete

Fall 2009: 25 percent level of design complete

Spring 2010: 30 percent level of design complete

## **What work does PE include?**

Design issues include track alignment, station locations, bridge types, and Park & Ride types. PE also includes engineering surveys and traffic analysis, developing a finance plan, confirming local funding commitments and refining construction schedules and costs.

## **What is the product of PE?**

A Draft Conceptual Design Report will be developed, which is a narrative and visual description of major elements such as stations, track location, and bridge types and locations.