Lynnwood Transit Center, Park and Ride Lot

Lynnwood, Washington

Owner: Sound Transit

Description:

INCA Engineers, Inc., A Tetra Tech Company (INCA) led a multi-disciplined architectural and engineering team in the site selection, environmental analysis, and design of the new Lynnwood Transit Center for Sound Transit. The expanded facility includes 20 bus bays, passenger loading zones with shelters, a customer service center, and 300 additional parking stalls.

In the first phase of this project, INCA was responsible for site selection and planning, preliminary engineering, and NEPA/SEPA environmental documentation for the proposed transit center, park-and-ride enhancements, and HOV direct access to I-5, which included a freeway flyer alternative. The INCA team prepared biological assessments for consultation with the National Marine Fisheries Service and US Fish and Wildlife Service. INCA prepared the 8-Point Access Decision Report.

For the second phase, INCA was responsible for design mapping and preparing plans, specifications, and estimates (PS&E) for the transit center and park-and-ride improvements. INCA conducted a traffic analysis to determine the required channelization and signal phasing for optimal operation of the 48th Avenue West/200th Street SW and the 46th Avenue West/200th Street SW intersections. INCA then developed the PS&E for these intersections, including transit signal priority improvements. INCA prepared right-of-way plans and legal descriptions for the property acquisitions associated with these improvements. The INCA team provided public involvement support and obtained the necessary permits and approvals.

INCA designed water quality detention ponds, which were renovated for water quality treatment purposes. Design included development of water quality storm hydrographs, development of site plan and details for pond upgrades, and assistance with project specifications for construction. Unique aspects of design included hydraulic analysis of effects of Scriber Creek upon performance of pond outflow control features, and hydraulic modeling of sedimentation process in the proposed pond. A three-cell pond design was developed that promoted sedimentation in the most upstream cells and increased hydraulic residence time in the ponds.

INCA provided design support and shop drawing review for Sound Transit during construction.

Features:

- Project site planning
- Preliminary engineering
- Environmental documentation
- Final design PS&E
- Extensive agency coordination
- 8-point access decision report
- Transit signal priority plans and specifications
- Design of stormwater detention vaults