Seattle-Tacoma International Airport

Third Runway Mitigation Projects

FAA Northwest Mountain Region Airports Conference

Robin Kordik, Port of Seattle

April 12, 2006

Third Runway Project
2004 – 2005 Contract Summary

2004-05 Embankment/S. 154th St Construction Project - Completion February 2006

- **Contract Amount -- $192,639,883**

Scope

- **Miller Creek Enhancements**
- **New Road Construction**
- **Embankment/Wall Construction**

Runway Construction To Date

Embankment / Wall Construction

- Imported Fill Quantity ~6 Million cubic yards
- Embankment Construction ~9 Million cubic yards
- Total Truck Loads to Date ~390,000
- Total Truck Miles to Date over 20 million miles
- Wall Construction

154th Wall	1200 Ft long & 40 Ft high
North Wall	900 Ft long & 85 Ft high
West Wall	1425 Ft long & 135 Ft @ highest point
South Wall	1000 Ft long & 40 Ft @ highest point

- At the end of this current contract, over 75% of the embankment will be complete

Environmental Elements

Miller Creek, Vacca Farm, Lora Lake

- Tons of debris removed (Tires, cars, tanks, etc)
- Over 1200 feet of creek relocation
- Multiple acres of creek enhancements
- 85 acres of floodplain & wetlands improvements
- Over 168,000 new plants

Stormwater Treatment

- Over 75 million gallons to date

Offsite mitigation - Auburn

- 68 acres of waterfowl wetland habitat

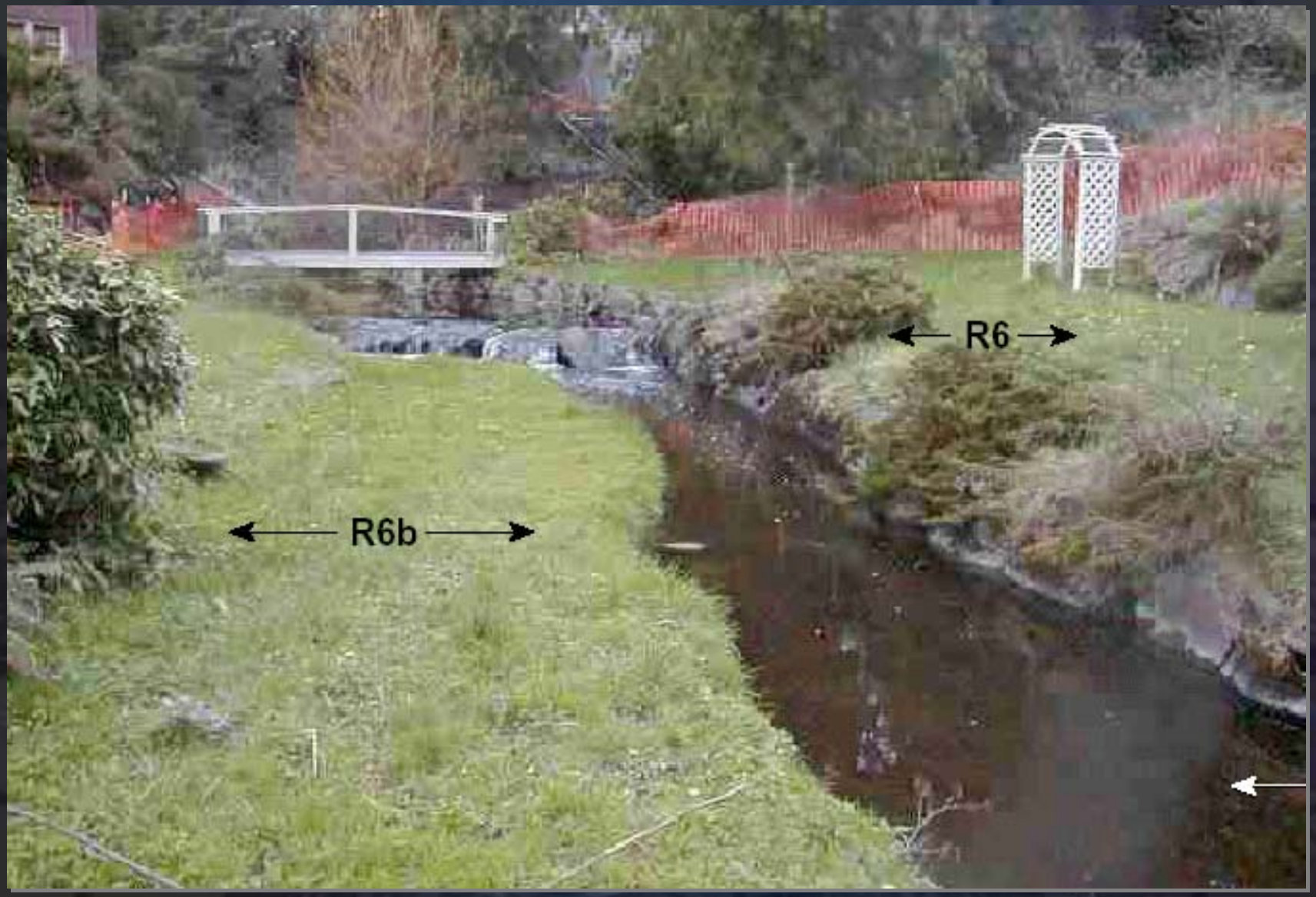
Embankment Site in July 2004

Miller Creek Relocation at Vacca Farm, Pre-construction

Relocated Miller Creek – Fall 2004

Miller Creek Pre-Construction

Instream Enhancement Pre-Construction



Miller Creek Post-Construction: Channel and Bank Restoration

Instream Enhancements

154th/156th Street Bridge
Gravel
Logs and Wood
Boulders

Old 154th/156th Bridge
Remove Riprap
Reslope Banks
Native Vegetation

Miller Creek Enhancements – Sept 2005

Miller Creek Enhancements – Sept 2005

Lora Lake Shoreline Pre-Construction

Lora Lake: Post-Construction

Vacca Farm Pre-Construction

Lora Lake and Vacca Farm

Seasonal Flooding and Crop Residues

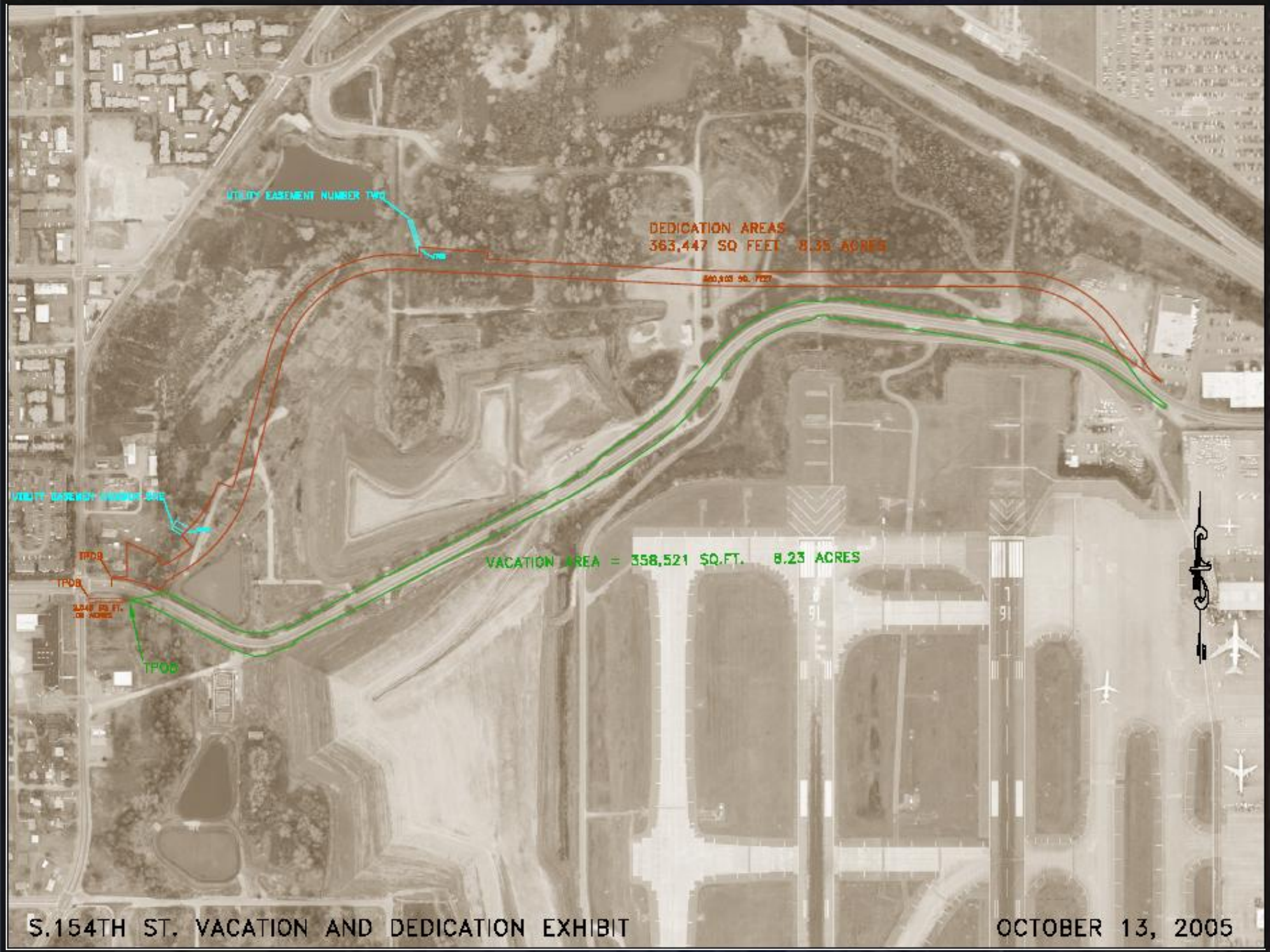
Vacca Farm Post-Construction

Vacca Farm Planting – November 2005

154th/156th Road Construction

Relocate South 154th St & 156th Way from Des Moines Memorial Drive to 24th Avenue South

- New underground & overhead electrical power
- New sanitary sewer
- New 36” water distribution line
- New bridge across Miller Creek


UTILITY EASEMENT NUMBER TWO
DEDICATION AREAS
363,447 SQ FEET 8.35 ACRES
VACATION AREA = 358,521 SQ.FT. 8.23 ACRES
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S.154TH ST. VACATION AND DEDICATION EXHIBIT
OCTOBER 13, 2005

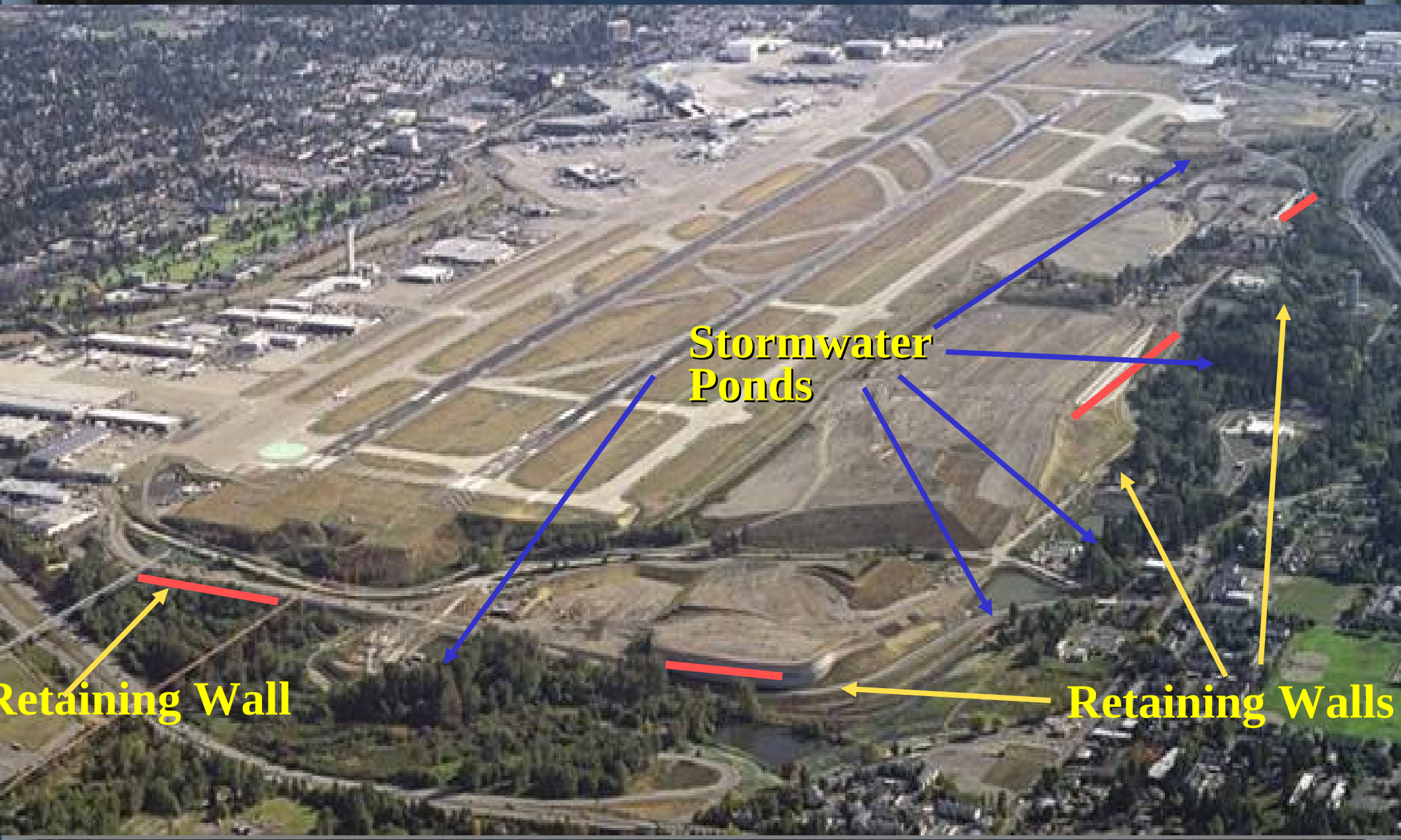
New 154th Road – November 2005

Embankment Construction

July 2004

Embankment – November 2005

Runway Construction Walls - 2005



South Wall Planting

Off-Site Mitigation

In Auburn

- Wetland creation
- Wetland restoration
- Buffer enhancement

Auburn Wetland

Auburn Wetland

Natural Resource Mitigation Projects

- Miller Creek Relocation
- Vacca Farm Wetland and Floodplain
- Lora Lake Shoreline
- Miller Creek Enhancements
- Tyee Valley Golf Course
- Des Moines Way Nursery

Total On-Site Mitigation: 119 acres

- Auburn (off-site): 68 acres

Current Contract Activity

2006: Embankment/RW 16L Safety Area Expansion Project

- Bid awarded January 2006
- Construction – February thru December 2006

2007: Runway/Taxiway Construction/RW 16R Safety Area Expansion Project –

- Construction – March 2007 – Summer 2008
- Construction of Des Moines Nursery Mitigation
- Construction of Tyee Golf Course/Des Moines Creek Mitigation

2008: Runway to open in late fall