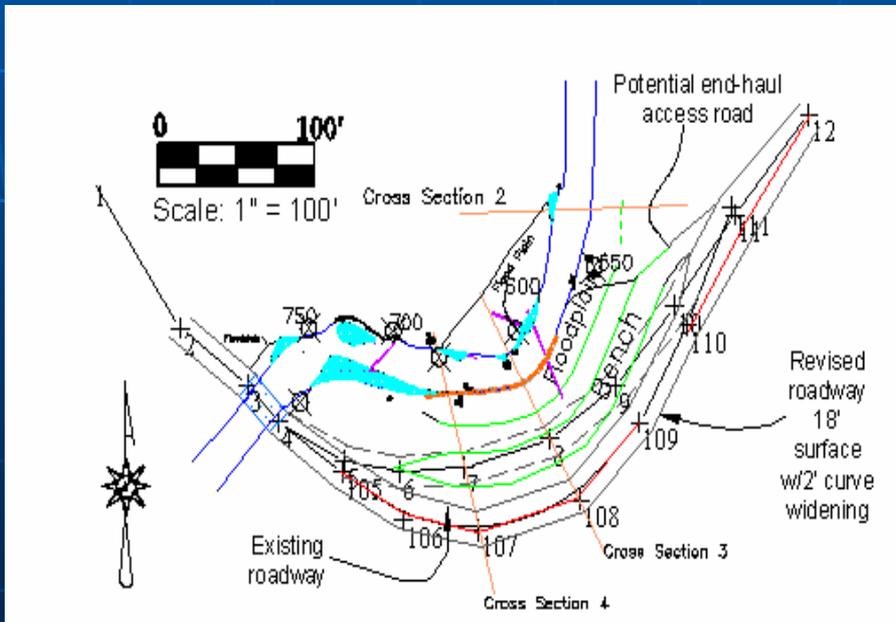


# Review of Rack Creek 2004-2005 Projects: LWD and Bank Vegetation



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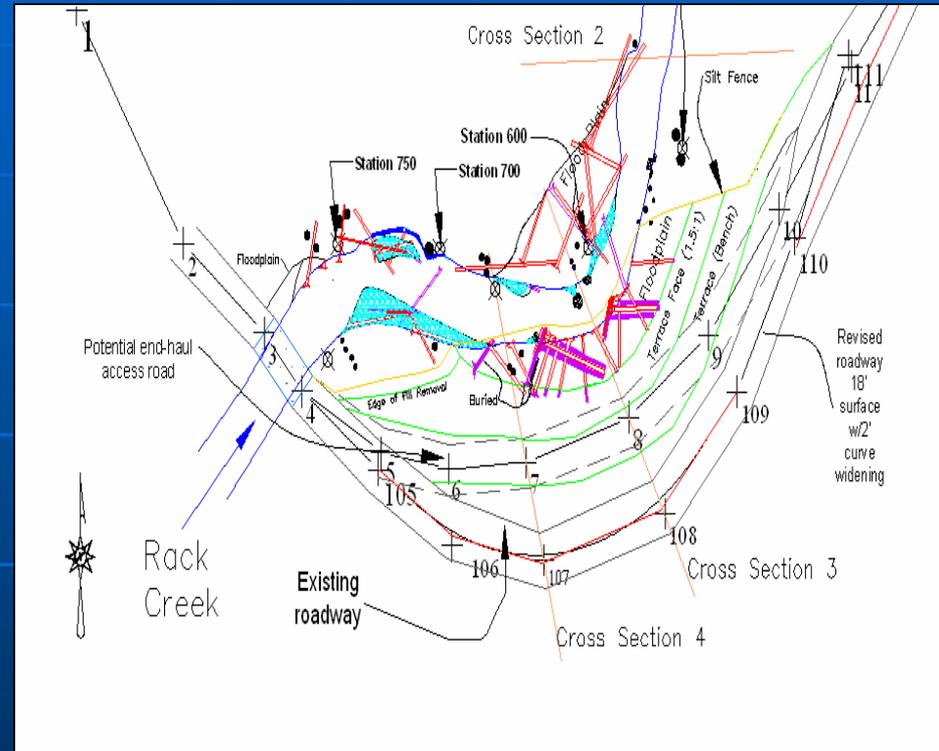
# Objectives

- Minimize erosion of road fill
- Improve cover for bull trout
- Minimize delivery of road-generated fine sediment
- Enhance riparian conditions



# Design Criteria

- Stable LWD which dissipates energy of  $>$ bankful flows
- Scour pools formed by LWD
- Promote storage of cobble and large gravel
- Stable floodplain surfaces
- Native vegetation which minimizes surface erosion and provides future functional LWD



# Complexity...

- Mobilization of wood to 2 different staging areas along 200 Road
  - Initial placement via Crane and hand-built techniques)
  - Post-floodplain construction of lwd jams using Excavator
  - **Solution:** Maps depicting staging areas and color coded logs corresponding to each staging area.
- Coordination with Operations on 200 road improvement work with crane access and temporary road blockage
  - **Solution:** Groveling, communication, and flexibility
- Working on a core road
  - **Solution:** Crane work on day before 3-day weekend. Communication



# Coordination



- Mobilization of LWD to two staging areas
- Finishing 200 Road improvements for crane access
- Crew/operator availability (June)
- Low flows in creek (August)
- Availability of archeologist for monitoring

# Coordination (continued)

- Scheduling EarthCorps crews
  - Installation of silt fence
  - Positioning/repositioning of LWD prior to floodplain excavation
  - Post project cleanup and monitoring
  - Development and implementation of planting plan



# Lessons Learned

- Stage LWD as early as possible (preferably in winter)
- Benefited greatly from timely input from Operations and Ecosystems staff
- Pre-project site review with Operations crew chief and archeologist allowed us to sort out monitoring plans



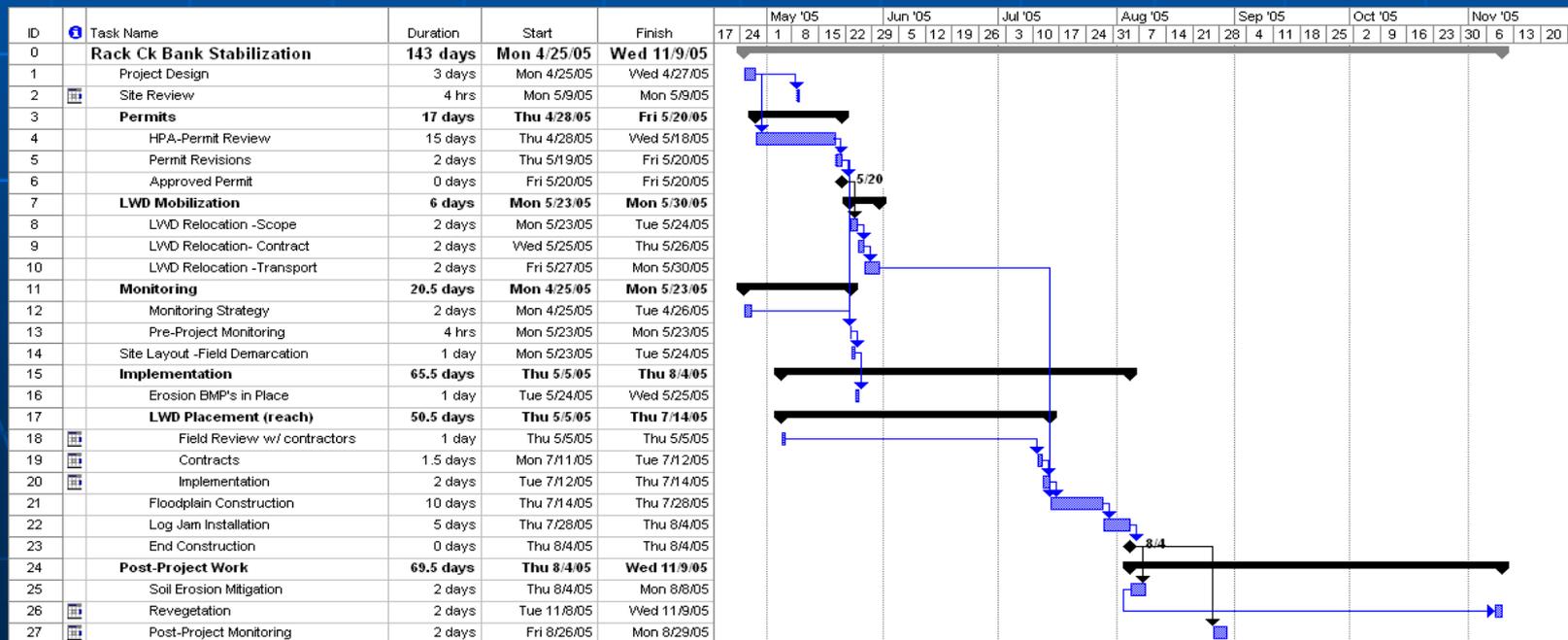
# Lessons Learned (continued)

- Thoroughly explain and closely oversee field help...  
yes, you can actually install silt fencing upside down
- Anticipate issues like high fire precaution levels which dramatically slow progress...



# Lessons Learned (continued)

- Verify availability and order critical materials (e.g., geotec fabric) before you actually need them
- The process of laying out logistics in Microsoft Project was helpful



# Lessons Learned (continued)

- **Sort out availability of water trailers well in advance**
- **Set up road signs well in advance**
- **Have seasoned Operations forest worker communicate location of LWD placement to ornery, over-caffeinated crane operators**



# Final Product

