



NORTHERLY SLOPE PROTECTION PONDS C & D AND POND B SLOPE REPAIR

Board of Public Utilities
May 16, 2019

Andrew Wilt, Associate Civil Engineer
Tracy Duenas, Supervising Engineer
Transportation and Public Works

TODAY'S DISCUSSION

- Background
- Base Scope
 - Ponds C/D - eroded slope
 - Pond B - slope failure
- Interior Levee C/D – slope failure
- Constraints
- Contract Review Subcommittee
- Approach to repair interior Levee C/D
- Recommendation to Award Contract

Background

- Pond C/D DSOD inspection / recommendation
- Pond B slope failure

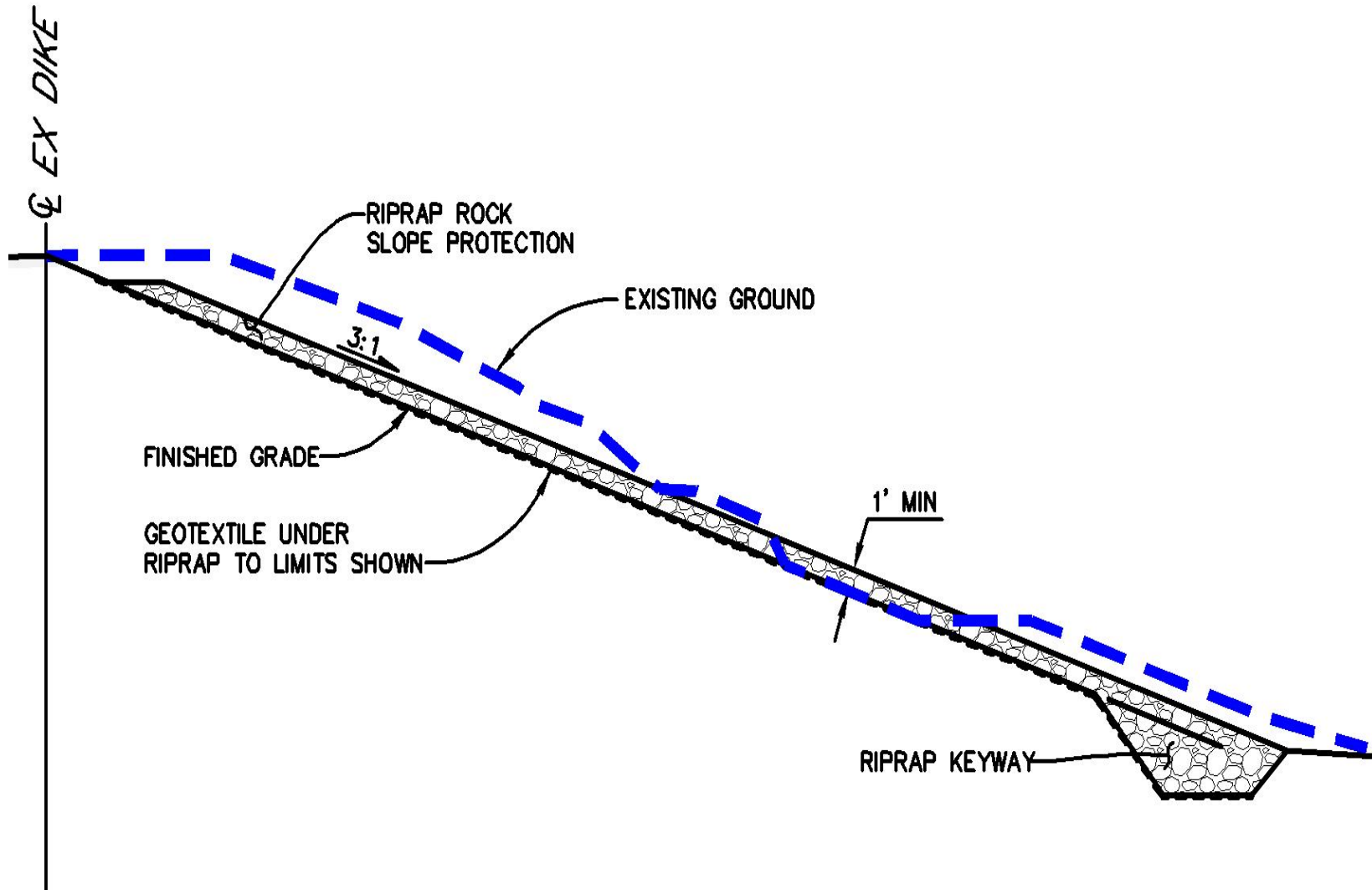
Location of Rehab



Pond C



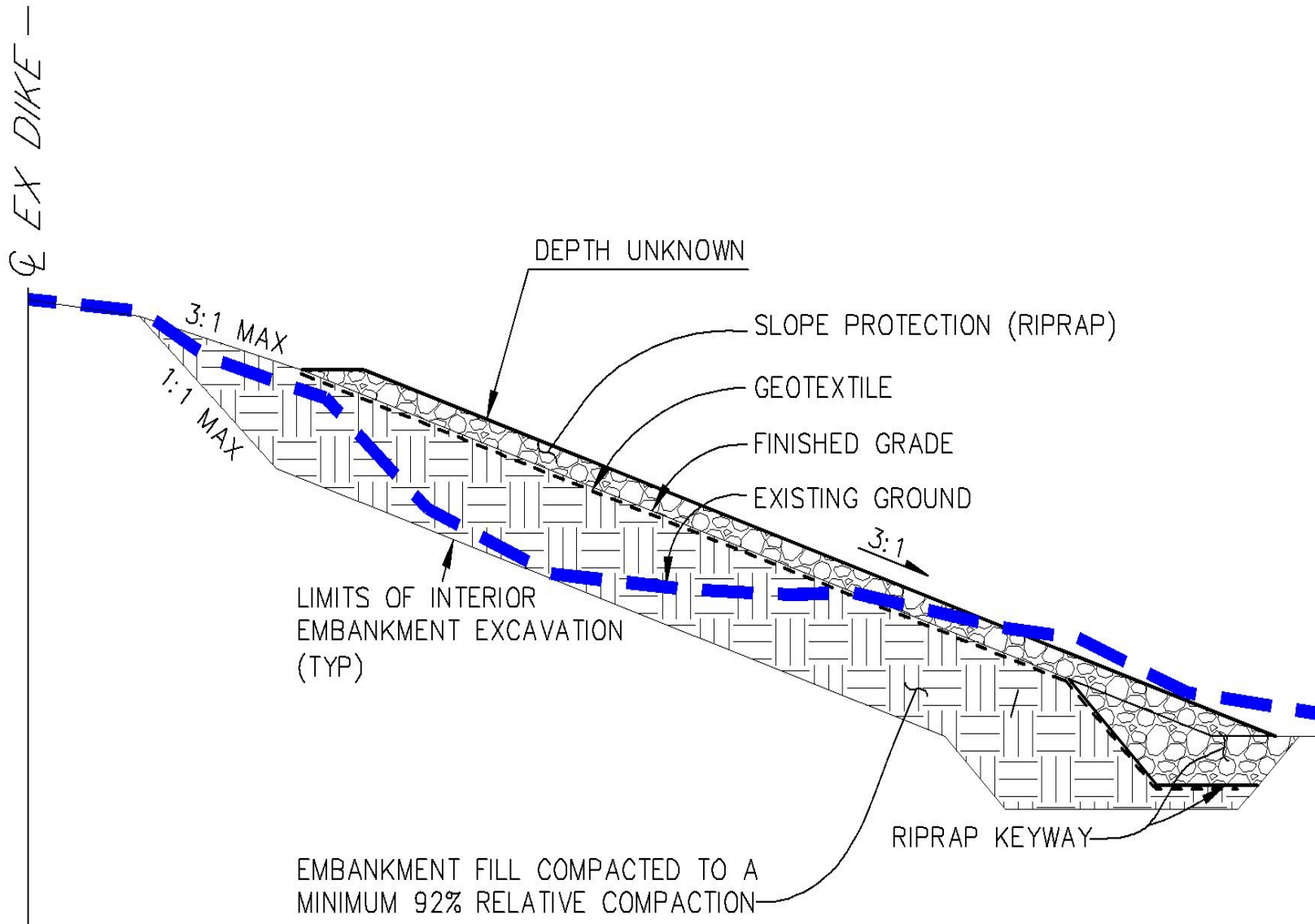
Typical Slope Rehab - Ponds C and D



Pond B



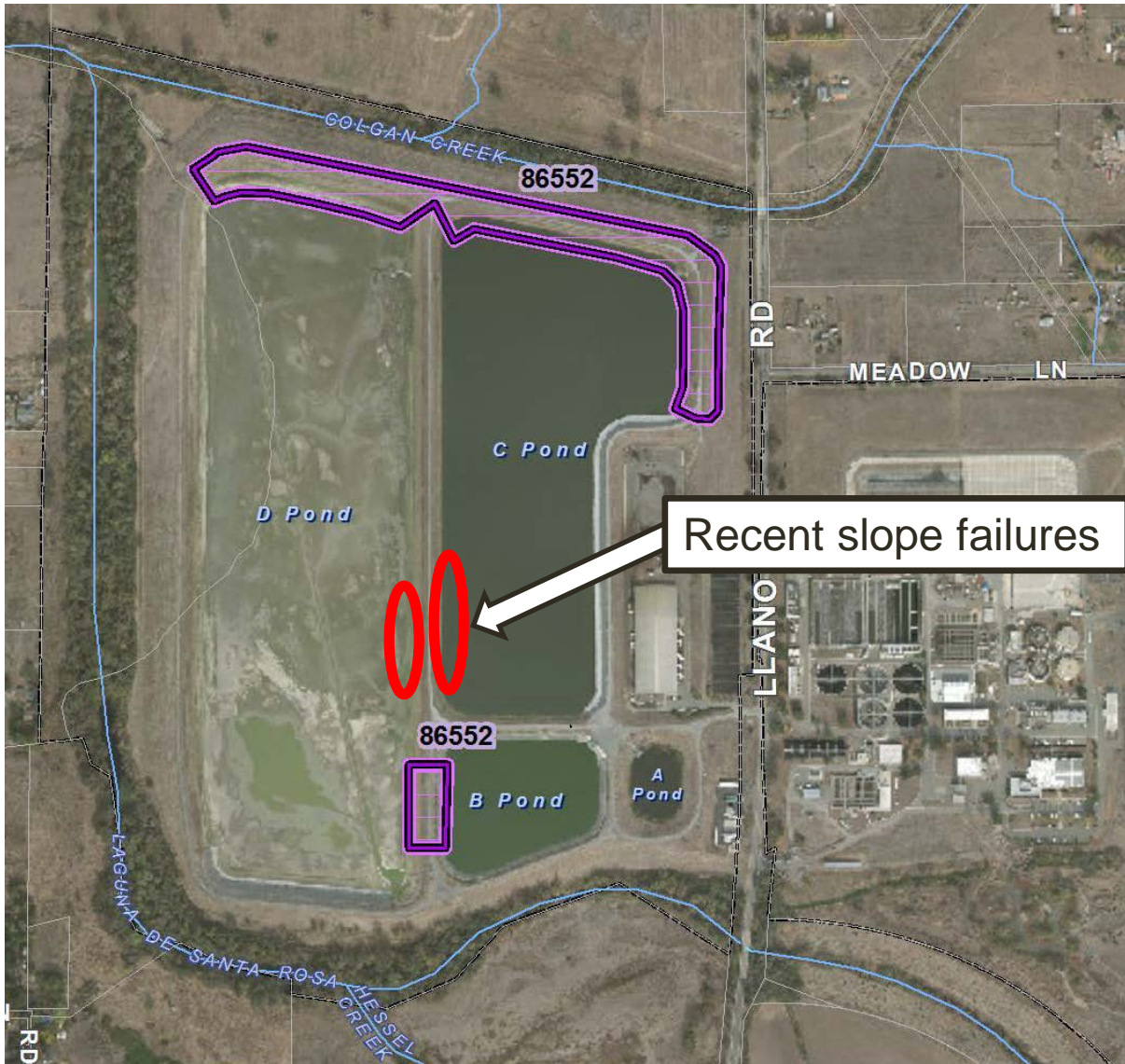
Typical Slope Failure Repair



Location of Rehab



Location of Interior levee C/D Slope Failures



Interior C/D Levee Slope Failures



Constraints

- Not enough time for detailed design to repair recent slope failure
- Construction Season: July 1 – Oct 15
 - Earliest ponds can be drained – July 1
 - Back in operation by Oct 15 (first large rain)

Constraints

- Scheduled Projects
 - Ponds C/D/B: 1 construction season
 - Delta Pond (future): 4 construction seasons beginning Summer 2020
- Operational Constraint:
 - Unable to have C/D *and* Delta empty during same irrigation season

Contract Review Subcommittee

- April 16 - Reviewed project history and scope
- Discussed alternatives for completing interior C/D levee slope repair
- Subcommittee approved moving forward with the proposed construction contract (including interior C/D levee repair)
- CAO was consulted

Approach to Repair Internal C/D Levee

- Interior Embankment Slope Repair Allowance (FA bid item) on this contract
- Bid item allowance = \$290,000
- FA similar to how other CO's are addressed
- Unique due to dollar value.
- Geotechnical engineer on-site

Pros / Cons

- Pros

- Repair this season
- Size won't get larger
- No additional mobilization costs

- Cons

- FA premium
- Poorly defined scope
- Schedule

Timeline

- BPU Contract Award May 16
- NTP June 17
- Anticipated Completion October 15

RECOMMENDATION

- It is recommended by the Transportation and Public Works Department and the Water Department that the Board of Public Utilities, by motion, approve the project and award Construction Contract No. C01909 in the amount of \$1,290,493.75 to the lowest responsive bidder, Granite Construction Company, of Watsonville, CA for Northerly Slope Protection Ponds C & D and Pond B Slope Repair, approve a 20% contingency, and authorize a total contract amount of \$1,548,592.50.