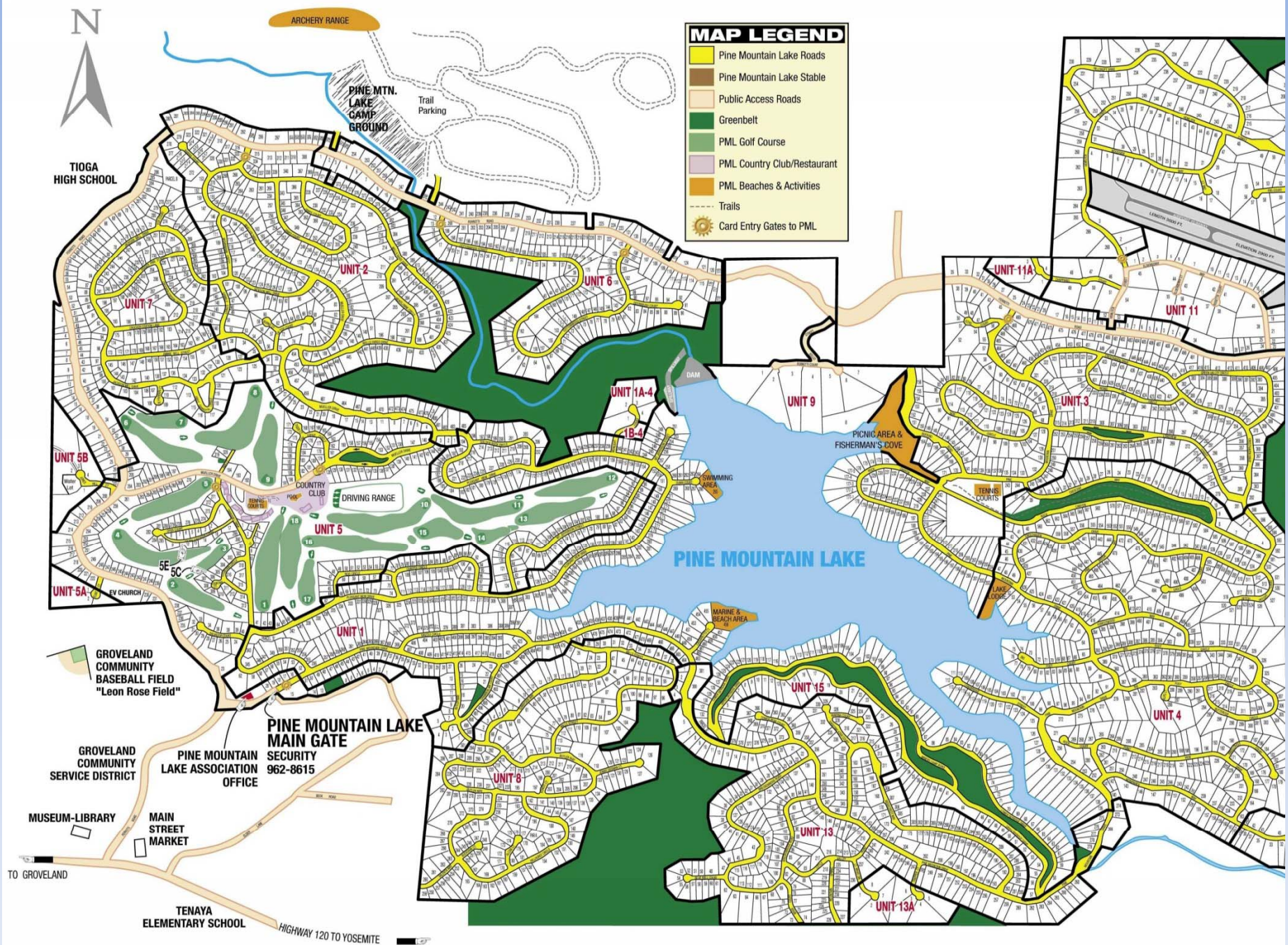


Pine Mountain Lake Dredging Project



Moffatt & Nichol
Project Engineers

Cooper Crane & Rigging, Inc.
Contractor



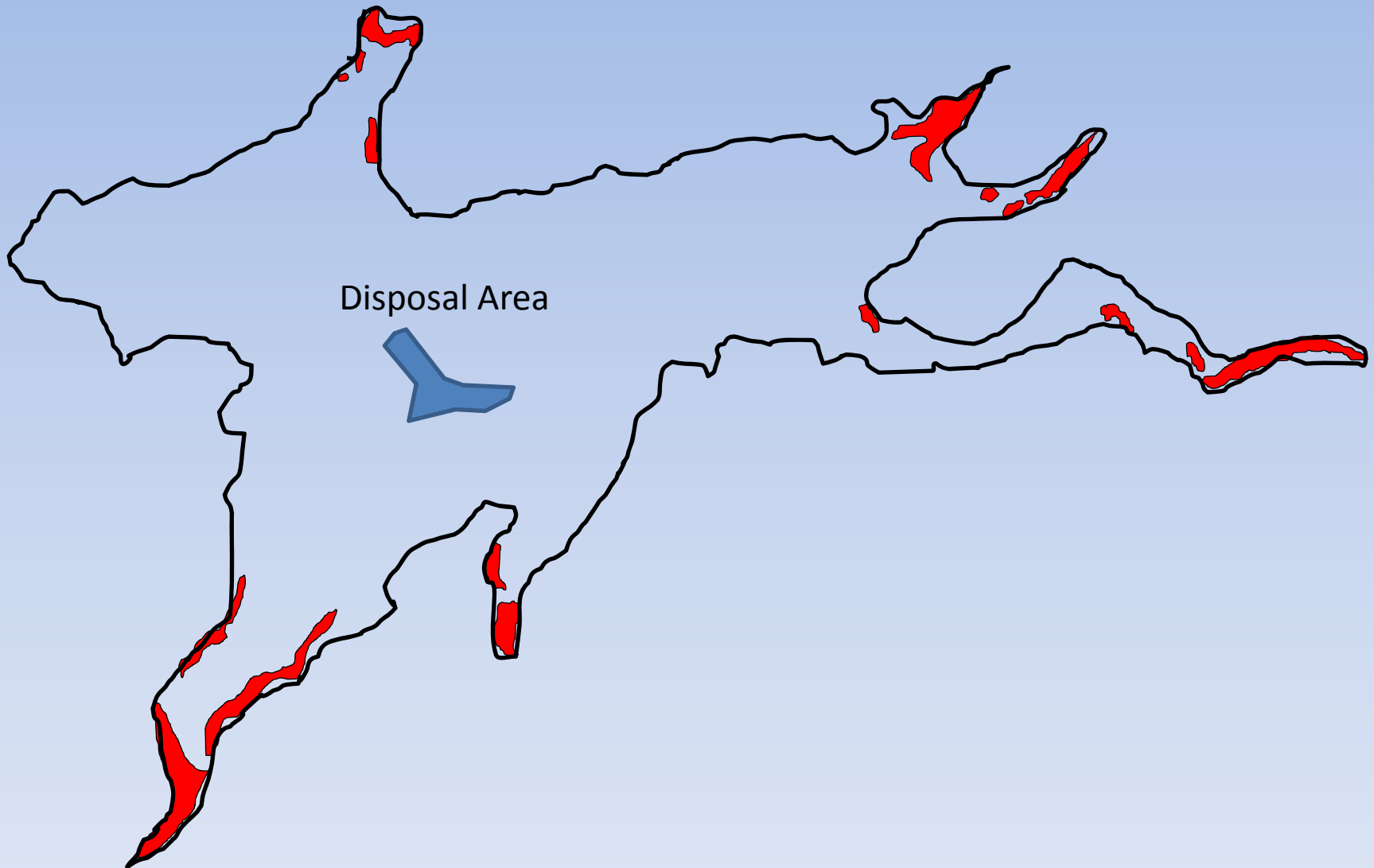
Project Need: Restore Navigable Depth



Project Need: Improve Channel Flow & Water Quality

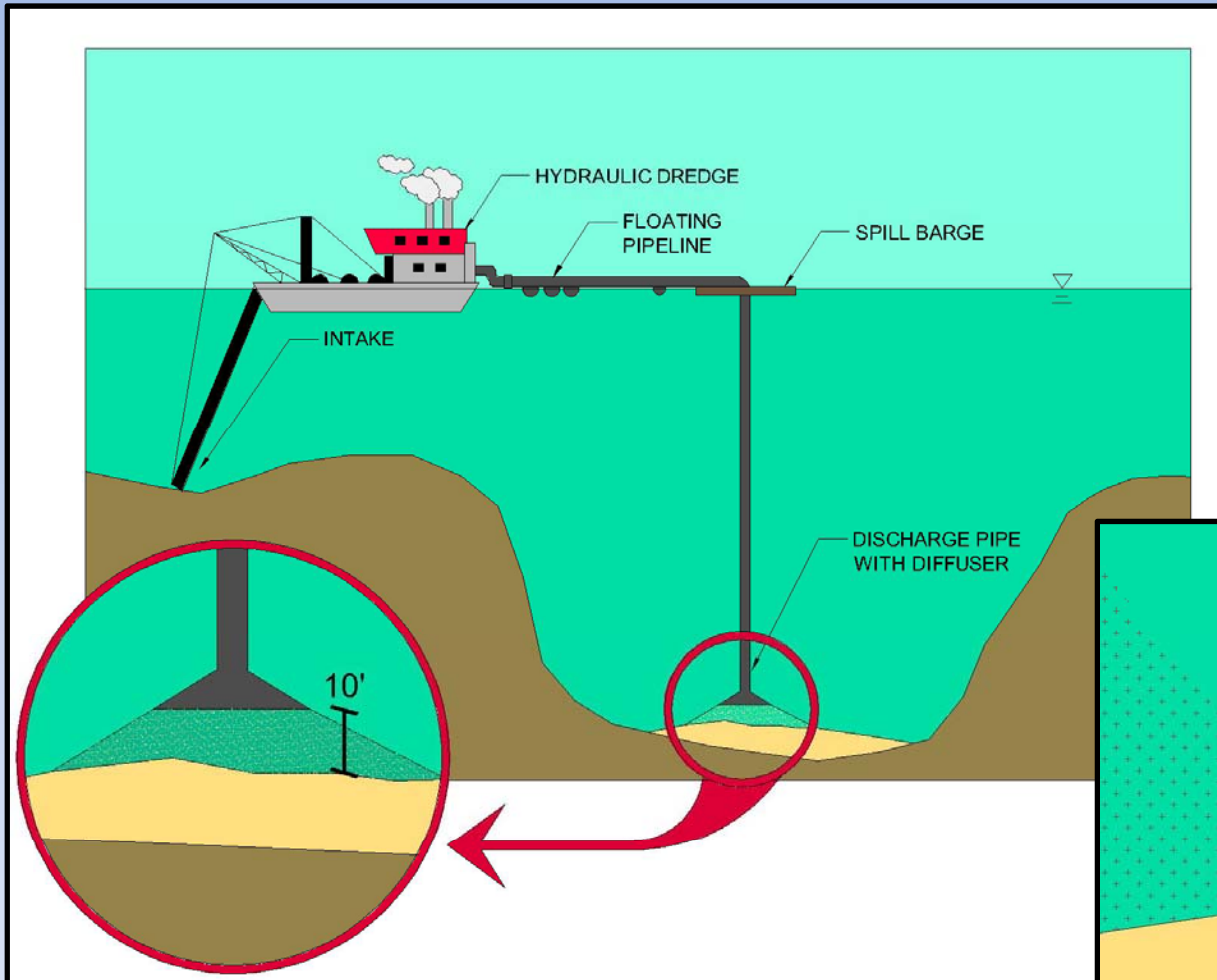


Project Layout

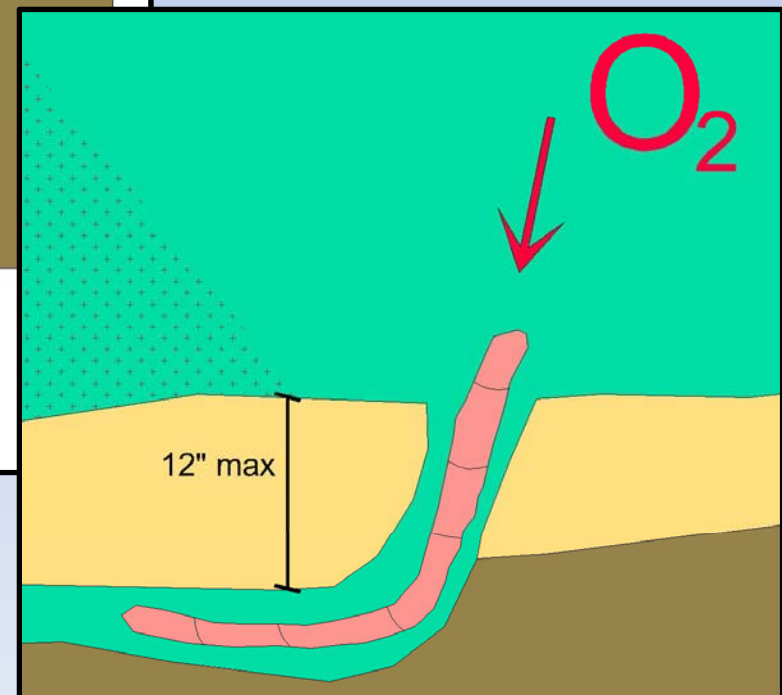


REGULATORY CHALLENGES

Proposed BMPs



Thin Layer Placement to aid benthic recovery



Discharge Pipe:

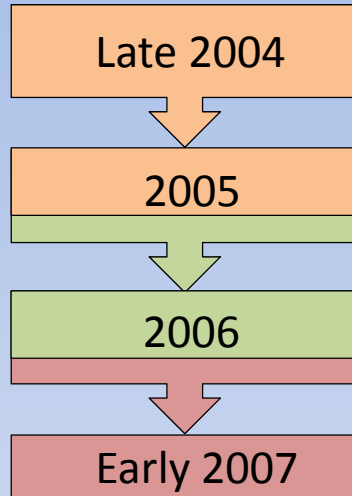
- *Within 10' of lake bottom

- *Diffuser

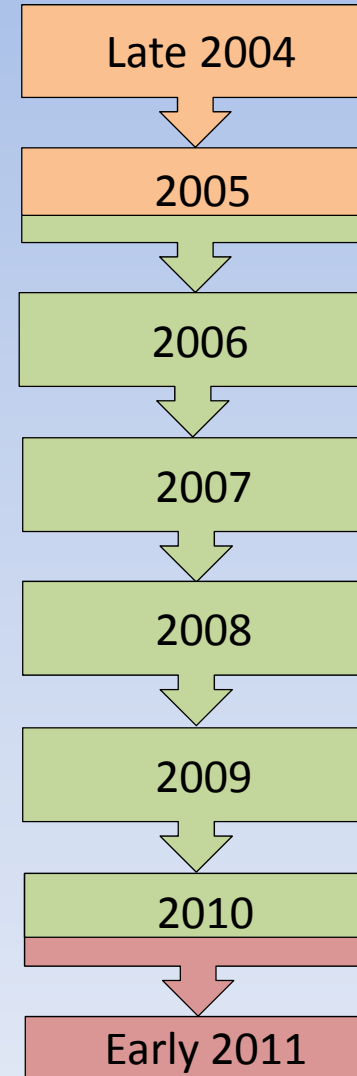
REGULATORY CHALLENGES

Timelines

The Plan



The Reality



REGULATORY CHALLENGES

Why Regulatory Process Took 5 Years



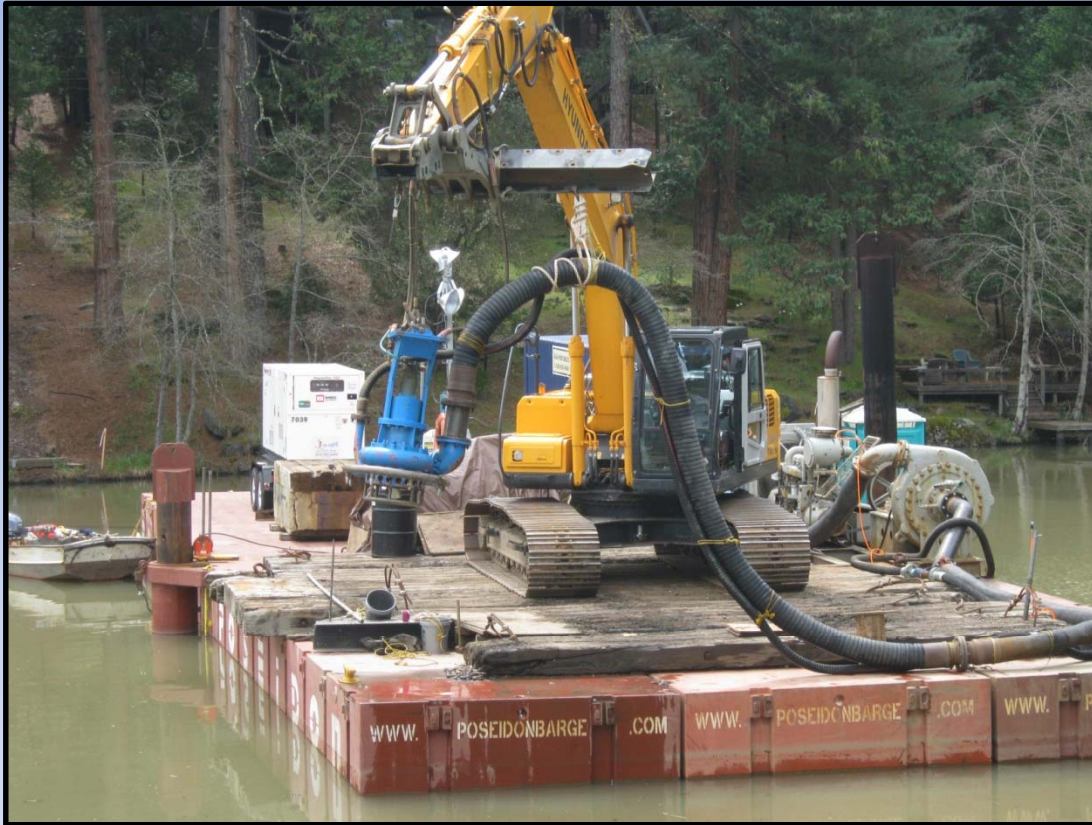
CONSTRUCTION CHALLENGES

Mobilization



CONSTRUCTION CHALLENGES

System – Toyo Portable Barge



Toyo Portable Barge

Toyo Pump



CONSTRUCTION CHALLENGES

Excavator Portable Barge



Excavator Portable Barge

Material Handling Portable Barge



CONSTRUCTION CHALLENGES

Material Disposal Portable Barge



Hydraulic Disposal



"Mechanical-Hydraulic" Disposal

CONSTRUCTION CHALLENGES

Varying Material



CONSTRUCTION CHALLENGES

Weather



THE CREW



Communication with Owner

The Right Contractor

Adaptability



