

# Hanlon Engineering + Architecture

Design-Planning-Development-Management

Merging Traditional Values with Today's Technologies to Better Serve Our Client's Future.

## Concentrate Filter Expansion Project

Nevada

### SERVICES

HEA PROVIDED DETAIL DESIGN SERVICES TO REMOVE PROCESS BOTTLENECKS IN A MINE'S MILL CONCENTRATE PROCESS. HEA DESIGNED THE ADDITION OF THE FOLLOWING EQUIPMENT:

- ONE CONCENTRATE THICKENING TANK
- TWO CONCENTRATE FILTER PRESSES
- ONE FLOCCULANT MIX SYSTEM
- SLURRY STORAGE TANKS
- SLURRY PUMPS
- A CONCENTRATE CONVEYING & STACKING SYSTEM.

### SCOPE

THE END RESULT WAS MINING COMPANY'S ABILITY TO FULLY REALIZE THE PERMITTED CAPACITY OF 16,000 TPD THROUGHPUT. RECOVERY WAS ALSO INCREASED DUE TO THE ABILITY TO DRAW MORE OF THE FEED INTO THE CONCENTRATE CIRCUIT. HEA PROVIDED CONSTRUCTION MANAGEMENT, PROCUREMENT ASSISTANCE AS WELL AS AIDING IN THE PREPARATION OF PERMITTING DOCUMENTS THAT ALLOWED THE IMPLEMENTATION OF THE DESIGN.

- PROCESS ENGINEERING
- TRADE-OFF STUDIES
- PROCESS DEVELOPMENT & P&ID'S
- BASIC ENGINEERING
- DETAIL ENGINEERING
- CONTROL SYSTEM DESIGN & PROGRAMMING
- PROCUREMENT ASSISTANCE
- PERMITTING ASSISTANCE
- CAPITAL COST ESTIMATE
- CONSTRUCTION MANAGEMENT

### DATA

**CAPITAL COST:**  
\$ 26.0 MILLION



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