

PRELIMINARY DESIGN EVALUATION PHASE CHECKLIST
(30% DESIGN LEVEL)

Preliminary Design Report

- General concept of project / alternative(s) under consideration
- Documentation of subsurface conditions, including a summary of previous explorations and data and results of explorations performed for the preliminary design. This could include test borings, test pits, monitoring well or piezometer data, soil and rock laboratory testing, etc
- Identification of proposed materials for the project, including evaluation of the suitability of onsite materials and the need for offsite borrow sources.
- Construction diversion and reservoir operation constraints.
- Discussion on dewatering and level of engineering reviews.
- If appropriate for the project, a hydrology study should be prepared to develop the Inflow Design Flood (IDF) to be used for spillway sizing
- An EOPCC or Preliminary-Level Construction Cost Estimate appropriate for this stage of design
- Hydraulic/geotechnical/structural/hydrological analysis as needed to generally size the proposed components of work

Preliminary Drawings

- Plans illustrating existing conditions, including structures, utilities, property limits and ownership, site access, etc.
- A preliminary set of drawings that illustrate general project concepts, approximate limits of various aspects of the work (e.g., excavations, finished grading, overall disturbance, etc.), proposed spillway and outlet works structures, general concepts for filters and drains.

Specifications List (Optional)

- A list of anticipated specifications, particularly if there are unique materials or construction methods proposed

30% Design Review Meeting

(following review of *Preliminary Design Report* by dam owner and MTDSP)

- Acceptable simplifying assumptions
- Additional data needs and schedule for collection
- Schedule and uncertainties with potential to impact schedule
- Analysis expectations for *Draft Design Report*
- Agreement on diversion plan and reservoir operation
- Engineer internal QA/QC procedures and expectations
- Environmental Requirements (NEPA, MEPA, etc.)