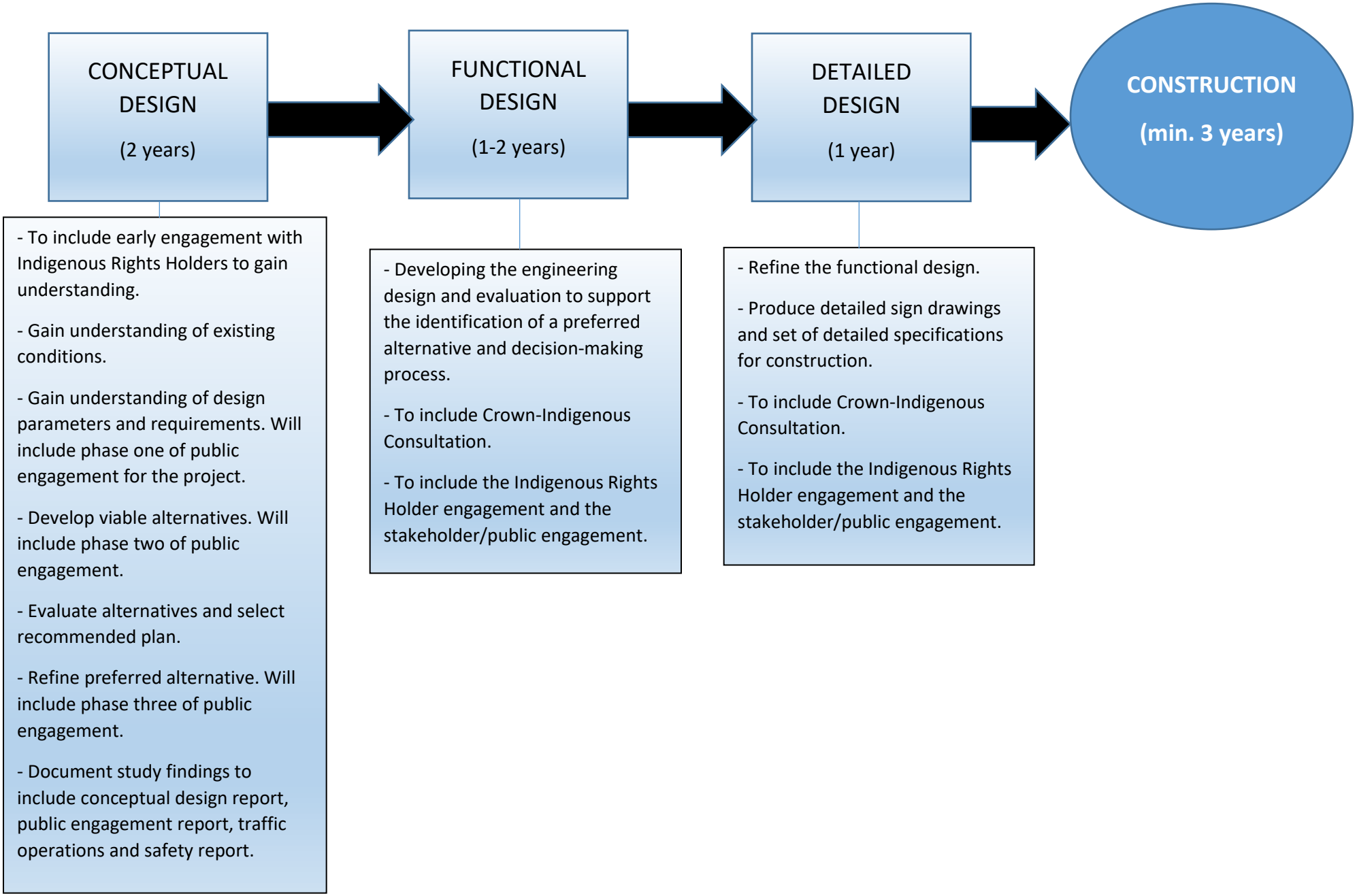CONCEPTUAL DESIGN STUDY PTH 1 – PROCESS FLOW CHART