

2d. The objective of the Canyon Lake bypass project is to provide a means to convey the base flows of Rapid Creek during fall and winter past Canyon Lake to allow for periodic maintenance within the lake boundaries. The bypass will provide a means to allow creek flows to go through the lake basin in an enclosed pipeline and outlet to Rapid Creek immediately downstream of Canyon Lake dam without transporting any sediment generated in the lake basin from maintenance activities; thus protecting the fishery and water quality of Rapid Creek.

The bypass project also includes a component to renovate the existing water supply pipelines and valves controlling the water supply to the pond system in Canyon Lake Park. The existing pipelines will be slip lined and new valve/slide gate control boxes will be installed in the park for easy access by maintenance personnel.

This system does not fit into City of Rapid City design specifications as a storm sewer, sanitary sewer, potable water line or other water delivery feature. It is a unique water conveyance meant for stream bypass use on an estimated 10 year in-lake maintenance cycle. The South Dakota Department of Game Fish and Parks will retain ownership of the conveyance and system components and via Memorandum of Understanding with the City of Rapid City establish the general operating and routine maintenance criteria. This memorandum will be of 30 year duration.

When complete the system will not be visible to the public except for the inlet structure (see concept photograph below) and two valve control housings located in Canyon Lake Park near the inlets to each pond system.



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