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APPENDIX D

List of Powered Equipment

Helicopter (Wilderness Site only) - Provides transport for construction equipment and supplies, ready-to-pour concrete, and emergency evacuation.

Power Drills (Wilderness and Nonwilderness Sites) - Needed for drilling holes into the bedrock and abutments for the installation of anchor bars. Anchor bar holes need to be about 2 inches in diameter and approximately 3 feet into rock. A drill is essential for this purpose. There are presently no reasonable primitive tools for drilling holes into solid rock. Drilling may also be necessary to split alluvial rocks that are too large to be removed by hand. Air drills would be used, which require an air compressor.

Generator (Wilderness and Nonwilderness Sites) - Needed to supply electricity to the air compressor. The generator would power water pumps and power tools at the non-wilderness site.

Air compressor (Wilderness and Nonwilderness Sites) - This will be used to power drills, and clean and dry rock that will come in contact with the concrete. An air compressor is essential for rock drill operations. Compressors allow rock surfaces to be thoroughly cleaned, thereby producing better rock-concrete bond.

Concrete vibrators (Wilderness and Nonwilderness Sites) - Vibrators eliminate voids in the concrete, thereby obtaining good contact with rebar and anchor bars, and producing a visually appealing surface free of rock pockets. The use of vibrators to consolidate the concrete is very important. In lieu of this equipment, the concrete would be rodded, which is not as effective and will leave rock pockets on the outside.

Power tools (Nonwilderness Site only) - Used primarily for building forms, chipping rock, and mixing anchor bar grout. Power tools will probably consist of circular saws, jig saws, handheld drills and grout mixers, and pneumatic hammers.

Pumps (Wilderness and Nonwilderness Sites) - Pumps will be used to dewater the structure foundations. And, depending on the contractor's approach, may be used for stream diversion. The use of pumps is not absolutely necessary, but is highly desirable from a concrete quality standpoint. Non-powered pumps would be used in the Wilderness Area.

Concrete mixer trucks (8 to 10 cubic yards) - Deliver concrete to road accessible contractor use areas.

Flatbed supply trucks - Deliver material and equipment to road accessible contractor use areas.

Water truck (4000 gallon) - Dust control on public roads.

Contractor's personal use vehicles - Transportation to roadside contractor use areas.