

## Construction Schedule

In general, the driving factor for completion of the above listed work items (excluding the reservoirs) for any of the alternative projects (except 1 and 5B) will be the time to construct the many miles of pipelines proposed. In particular, the time needed to excavate the trenches and to place and weld the sections of larger diameter pipe would take the most time.

Construction of pump stations and electrical substations would also take many months, primarily due to the long lead time needed for manufacture and delivery of the pumps and the electrical controls and transformers.

We estimate that the time to construct the alternative projects can be approximated as follows:

Alternative Project	Total Length of Pipelines (feet)	Diameter Range of Pipelines (inches)	Time to Construct	
			(work days)	(calendar years) (1)(5)
2 (any)	275,000 to 315,000	8" to 60"	490 (2)	1.9
3 (any)	308,000 to 337,000	8" to 60"	435 (2)	1.7
4	187,000	42" to 48"	460 (3)	2.4 (6)
5A	39,000	48" to 54"	260 (4)	1.0

### Notes:

- (1) Based on 250 workdays per calendar year.
- (2) Assuming 4 work crews working simultaneously.
- (3) Assuming 3 work crews working simultaneously.
- (4) Assuming 1 work crew.
- (5) These times are for completion of actual construction activities, not full contract time which would include time for mobilization/demobilization, cleanup, completion of "punch list" (correction of deficient work) and testing of completed project components and system.
- (6) Includes additional 6 months time needed for completion of reconstruction/widening/stabilization of portions of Pine Flat Road prior to pipeline construction. This work must be substantially completed before the pipeline contractor can start work up Pine Flat Road.