

Water Calculations and Cost Estimates
Stead

Estimated costs for the Water Facilities in Stead/Lemmon Valley

No.	Description	Qty.	Unit	Unit Cost	Total Cost	Reno TMSA	County TMSA
1 Vidler Tank to Lemmon Drive at Matterhorn Intersection							
1.1	Transmission						
	30" Pipe	21,600	L.F.	\$360.00	\$7,776,000*	\$1,632,510	\$4,298,290
1.2	Storage						
	Tank (Vidler 2)	2,500,000	Gal	\$1.00	\$2,500,000*	\$484,310	\$2,015,690
					Subtotal = \$10,276,000		
2 Lemmon Drive at Matterhorn Intersection to the Proposed Pump Station at Virginia Street							
2.1	Transmission						
	24" Pipe	20,080	L.F.	\$288.00	\$5,783,000	\$2,351,020	\$3,431,980
	16" Pipe	3,130	L.F.	\$192.00	\$601,000	\$284,830	\$316,170
	12" Pipe	2,670	L.F.	\$144.00	\$384,500	\$241,690	\$142,810
					Subtotal = \$ 6,768,500		
3 Proposed Pump Station at Virginia Street to TOD							
3.1	Transmission						
	16" Pipe	9,790	L.F.	\$192.00	\$1,879,700	\$1,564,640	\$315,060
	14" Pipe	9,780	L.F.	\$168.00	\$1,643,000	\$1,521,820	\$121,180
	12" Pipe	5,810	L.F.	\$144.00	\$836,600	\$562,400	\$274,200
	10" Pipe	4,100	L.F.	\$120.00	\$492,000	\$492,000	-
	Pump Station 1	186	HP		\$563,200	\$360,080	\$203,120
					Subtotal = \$ 5,414,500		
4 North Virginia Supply							
4.1	Transmission						
	12" Pipe	1,310	L.F.	\$144.00	\$188,600.00	\$120,580	\$68,020
	Wholesale Meter	1	Ea	\$60,000.00	\$60,000.00	\$38,360	\$21,640
					Subtotal = \$ 248,600		
5 Lemmon Drive to Airport							
5.1	Transmission						
	30" Pipe	26,180	L.F.	\$360.00	\$9,424,800*	\$1,866,360	\$3,066,280
					Subtotal = \$ 9,424,800		
6 Intermountain Tank to Airport							
6.1	Transmission						
	18" Pipe	3,820	L.F.	\$216.00	\$825,100*	\$220,150	\$211,680
6.2	Storage						
	Tank (Inter Mountain)	2,500,000	Gal	\$1.00	\$2,500,000	\$1,274,510	\$1,225,490
					Subtotal = \$ 3,325,100		
7 Airport to Silver Knolls Tank							
7.1	Transmission						
	16" Pipe	2,020	L.F.	\$192.00	\$387,800	-	\$387,800
	14" Pipe	5,590	L.F.	\$168.00	\$939,100	-	\$939,100
	12" Pipe	11,290	L.F.	\$144.00	\$1,625,800	-	\$1,625,800
	Pump Station 2	223	HP		\$623,200	-	\$623,200

Estimated costs for the Water Facilities in Stead/Lemmon Valley

No.	Description	Qty.	Unit	Unit Cost	Total Cost	Reno TMSA	County TMSA
7.2	Storage						
	Tank (Silver Knolls)	1,300,000	Gal	\$1.00	\$1,300,000	\$662,750	\$637,250
					Subtotal =	\$ 4,875,900	
8	Silver Knolls Area						
8.1	Transmission						
	18" Pipe	2,620	L.F.	\$216.00	\$565,900	\$94,320	\$471,580
	12" Pipe	5,290	L.F.	\$144.00	\$761,800	\$277,420	\$484,380
	10" Pipe	23,040	L.F.	\$120.00	\$2,764,800	\$1,382,540	\$1,382,260
					Subtotal =	\$ 4,092,500	
9	Heppner Tank						
9.1	Transmission						
	14" Pipe	4310	L.F.	\$168.00	\$724,100	-	\$724,100
9.2	Storage						
	Tank (Heppner)	600,000	Gal	\$1.00	\$600,000	-	\$600,000
					Subtotal =	\$1,324,100	
10	E Lemmon Tank						
10.1	Transmission						
	20" Pipe	10860	L.F.	\$240.00	\$2,606,400	\$880,900	\$1,725,500
10.2	Storage						
	Tank (E Lemmon)	2,500,000	Gal	\$1.00	\$2,500,000	\$1,498,110	\$1,001,890
					Subtotal =	\$5,106,400	
11	Wells						
	Proposed Well Pump Station (1000gpm @ 550ft)	3	Ea	\$760,000.00	\$2,280,000*	\$475,510	\$1,267,030
	Reconstruction of Well (Well 8) with new Pump (1000gpm @ 550ft)	1	Ea	\$600,000.00	\$600,000*	\$125,130	\$333,430
	Reconstruction of Well (Well 5 & 7) with new Pump (1000gpm @ 400ft)	2	Ea	\$540,000.00	\$1,080,000*	\$225,200	\$600,200
					Subtotal =	\$ 3,960,000	
					Construction Total =	\$54,816,000	\$ 18,637,000
						\$ 28,515,000	
12	Other Costs						
	Engineering (20%)				\$10,963,200	\$ 3,727,000	\$ 5,703,000
	Contingency (20%)				\$10,963,200	\$ 3,727,000	\$ 5,703,000
					Total =	\$76,742,000	\$ 26,091,000
						\$ 39,921,000	

Note: [1] * - A portion of the total costs (\$10,730,000) is allocated to Cold Springs area
 [2] 20 Cities ENRCCI = 7,942 May 2007