Preliminary Calculation of Revenue Requirement

Total Plant Additions	\$	940,000
Less: 1/2 Year Depreciation	_	(9,275)
Net Plant Additions	\$	930,725
Rate of Return		5.05%
Increase in Net Operating Income Requirement	\$	47,031
Add: Annual Depreciation Expense		18,549
Annual Property Taxes	-	11,516
Increase in Revenue Requirement	\$	77,097
2017 Operating Revenues	\$	276,888
% Increase in Annual Water Revenues		27.84%

Weighted Average Cost of Capital for Rosebrook Pressure Reduction Project

								Weighted
								Average
			Interest	Interest	Amortization	Total	Cost	Cost of
Financing	<u>Amount</u>	Percent	Rate	Expense	of Fin Costs	Interest	Rate	Capital
CoBank	\$940.000	100.00%	5.00%	\$47,000	\$500	\$47,500	5.05%	5.05%

Plant / Accumulated Depreciation / Depreciation Expense

PUC		Total Estimated	Depr	Annual Depr	One-Half Year	Tax Value as Percent	Combined Property	Annual Prop Tax
Account	ltem	Costs	Rate	Ехр	<u>Depr</u>	NetUtilPlant	Tax Rate	Expense
707	Well Pump Replacement							
307	Well #1 Vertical Turbine Pump							
307	Well #2 Submersible Pump							
304	Electrical / Controls							
304	Mechanical / Piping	(
	Storage Tank Booster Station							
304	Building (16 Ft. x 18 ft.)	106,490	2.50%	2,662	1,331	55.32%	36.26	2,110
304	Site Work / Grading	51,766	2.50%	1,294	647	55.32%	36.26	1,025
304	Driveway / Access	29,581	2.50%	740	370	55.32%	36.26	586
304	Electric Service	36,976	2.50%	924	462	55.32%	36.26	732
307	Pumps / Mechanical	66,556	10.00%	6,656	3,328	55.32%	36.26	1,268
304	Electrical	29,581	2.50%	740	370	55.32%	36.26	586
304	Emergency Generator	51,766	2.50%	1,294	647	55.32%	36.26	1,025
304	Plping / Valves	51,766	2.50%	1,294	647	55.32%	36.26	1,025
304	Telemetry / Controls	29,581	2.50%	740	370	55.32%	36.26	586
50.	Telement / / controls	454,062	2.3070	16,343	8,172	55.5270	36.20	8,945
	Crawford Ridge Booster Station							
304	Building (14 Ft. x 16 ft.)							
304	Site Work / Grading							
304	Driveway / Access							
304	Electric Service							
307	Pumps / Mechanical							
304	Electrical							
304	Emergency Generator							
304	Piping / Valves							
304	Telemetry / Controls							
	Mt. Washington Place Booster Station	===						
304	Building (14 Ft. × 16 ft.)							
304	Site Work / Grading							
304	Driveway / Access							
304	Electric Service							
307								
304	Pumps / Mechanical							
	Electrical							
304	Emergency Generator							
304	Piping / Valves							
304	Telemetry / Controls	_						
	Dedicated Tank Water Main							
331	8 Inch Ductile Water Main	454,770	2.00%	1,692	846	55.32%	36.26	9,106
331	8 Inch Gate Valves	7,084	2.00%	198	99	55.32%	36.26	140
331	3" Bit Pavement Trench Patch	17,001	2.00%	119	59	55.32%	36.26	340
335	Hydrant	7,084	2.00%	198	99	55.32%	36.26	140
		485,938		2,206	1,103			2,572
225	Pressure Reducing Valaves (Rosebroo Lane, Mt.	Adams Lane)						
331	Pressure Reducing Valve Vaults							
331	Pressure Reducting Valves							
331	Gate Valves / Bypass Piping							
331	Pavement Replacement			_				
	Total Construction Costs	940,000		18,549	9,275			11,516
303	Land Easement	-,	0.00%	- 8	Ç=	55.32%	36.26	100
	Total Project Costs	940,000		18,549	9,275			11,516
		2,0000000 200000		607 007-007-007-007-007				
	Tax Value as percent of Total Net Utility Plant	848,200		1,533,175		55.32%	4	
	Combined Property Tax Rate (State and Town)	\$ 6.60		\$ 29.66			\$ 36.26	

Horizon Engineering, In	c.'s Preliminary Opinion of Probable Costs
System Improvements	or Limited Pressure Reduction

System Improvements for Limited Pressure Reduction		Total		within	Adjusted Total		llocation f Indirect	Adjusted Total
<u>tem</u>		Costs	P	roj (tem	Costs		Costs	Costs
General Conditions/Mobilization Well Pump Replacement	\$	25,000		- \$	25,000	\$	(25,000) \$	-
Well #1 Vertical Turbine Pump								
Well #2 Submersible Pump								
Electrical / Controls								
Mechanical / Plping								
Storage Tank Booster Station	_							
Building (16 Ft. x 18 ft.)	5	72,000	•	3,166 \$	75,166		31,324 \$	106,49
Site Work / Grading	10963	35,000	100	1,539	36,539		15,227	
Driveway / Access		20,000		879	20,879		8,701	51,76 29,58
Electric Service		25,000		1,099	26,099		10,876	36,97
Pumps / Mechanical		45,000		1,979	46,979		19,577	66,55
Electrical		20,000		879	20,879		8,701	29,58
Emergency Generator		35,000		1,539	36,539		15,227	51,76
Piping / Valves		35,000		1,539	36,539		15,227	51,76
Felemetry / Controls		20,000		879	20,879		8,701	29,58
Connection to Existing		5,000		(5,000)	8		8	
Surface Restoration		7,500		(7,500)	-			
Erosion Control		1,000		(1,000)				
	5	320,500	5	(0) 5	320,500	\$	133,562 \$	454,06
Crawford Ridge Booster Station								
Building (14 Ft, x 16 ft.)								
Site Work / Grading								
Driveway / Access								
Electric Service Pumps / Mechanical								
Electrical Emergency Generator								
Plping / Valves								
Felemetry / Controls								
Connection to Existing								
Surface Restoration								
Erosion Control								
Mt. Washington Place Booster Station								
Building (14 Ft. x 16 ft.)								
Site Work / Grading				753				
Driveway / Access								
Electric Service								
Pumps / Mechanical								
Electrical								
Emergency Generator								
Piping / Valves Telemetry / Controls								
Connection to Existing								
Surface Restoration								
Erosion Control								
	1							
Dedicated Tank Water Main								
Inch HDPE Water Main	S	237,500	\$	83,500 \$	321,000	\$	133,770 \$	454,77
Directional Bore River Crossing		40,000	\$	(40,000)	•			•
edge Removal		22,500		(22,500)				
Inch Gate Valves		5,000		14.0	5,000		2,084	7,08
Connection to Existing		9,000		(9,000)	37		15	
** Bit Pavement Trench Patch		12,000			12,000		5,001	17,00
lydrant		5,000			5,000		2,084	7,08
Surface Restoration		10,000		(10,000)			52	
Frosion Control	-	2,000	_	(2,000)	•	_		
Pressure Reducing Valaves (Rosebroo Lane, Mt. Adams Lane	5	343,000	\$. \$	343,000	\$	142,938 \$	485,93
Pressure Reducing Valve Vaults	P.							
Pressure Reducting Valves								
Gate Valves / Bypass Piping								
Connection to Existing								
Pavement Replacement								
Traffic Control								
Surface Restoration								
Erosion Control								
Subtotal Construction Costs	5	688,500	\$	(0) S	688,500	\$	251,500 \$	940,00
L5% Contingency	,	103,275	4	525	103,800	¥	(103,800)	240,00
	ė.	791,775	\$	525 \$	792,300	\$	147,700 \$	940,00
Total Construction Costs				222 7	4,000	*	,	
	3							
Fotal Construction Costs Land Easement - Unknown? Legal	3				10.000		(10,000)	
and Easement - Unknown? egal	3	10,000			10,000 137,700		(10,000) (137,700)	
and Easement - Unknown?	5		5	525 \$	10,000 137,700 940,000	\$	(10,000) (137,700)	940,00

Total Costs of Projects \$ 940,000

Source of Funds:

CoBank \$ 940,000

Use of Funds:

2019 Pressure Reduction Project - Phase 1 \$ 940,000

Estimated Financing Costs on portion of the CoBank Loan

	<u>Fi</u>	in Costs
CoBank	\$	5,000
Stephen P. St. Cyr & Associates Total Financing Costs	\$	5,000
Life of Loan		20 Yrs.
Annual Amortization Expense	\$	500