

TO
 Jennifer Blackman
 Bolinas Community Public Utility District
 P.O. Box 390
 Bolinas, CA 94924

JOB NO. 3230.00
DATE January 19, 2015

SUBJECT: Bolinas Community Public Utilities District
 Capital Improvement Plan

Copies	Date	Number	Description
1	1/16/15	22	Budget estimates for the submitted projects

REMARKS

Jennifer,

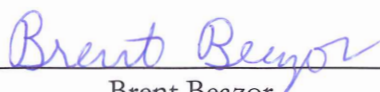
Attached are budget estimates for the CIP projects for which descriptions were provided except for the Wharf Road sewer lift station rehabilitation work. The listed allowance (25% of construction costs) for engineering services is typical for that of a medium sized project (construction cost of \$0.2 - \$0.5M). It would be inadequate for a smaller project and potentially more than necessary on larger ones. The allowance assumes engineering services would consist of base mapping, improvement plan and technical specification preparation, bid assistance including addendum preparation, shop drawing reviews and technical assistance during construction. Obviously, combining small similar projects into a larger one will always be more cost effective from an engineering and administrative standpoint.

Prior to inclusion in a CIP plan, anticipated environmental review, permitting, procurement, administration, construction observation and project closeout costs will need to be added.

Exhibits that illustrate each project could readily be developed should they be desired to facilitate your discussions with the Board. Please contact me with any questions.

Via:		Transmitted:	
<input type="checkbox"/>	Will Call	<input checked="" type="checkbox"/>	As Requested
<input type="checkbox"/>	Hand Deliver	<input type="checkbox"/>	For Approval
<input type="checkbox"/>	First Class Mail	<input type="checkbox"/>	For Your Use
<input type="checkbox"/>	Next Day Delivery	<input type="checkbox"/>	For Review & Comment
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COPY TO

SIGNED 
 Brent Beazor

Bolinas Community Public Utility District
Collection System Pipe Replacement Projects
Arroyo Hondo Creek Supply
Preliminary Estimate of Probable Cost
 January 16, 2015

Item No.	Item	Estimated Quantity	Unit	Unit Cost	Total
1	6" Water Main	1600	LF	\$85	\$136,000
2	6" Valve	2	EA	\$1,500	\$3,000
3	Air/Vaccum Release Valve	2	EA	\$4,000	\$8,000
4	Connection to Existing Main	2	EA	\$4,000	\$8,000
				Sub Total	\$155,000
				Contingency (10%)	\$15,500
				Engineering Services (25%)	\$39,000
				Total	<u>\$210,000</u>

**Bolinas Community Public Utility District
Collection System Pipe Replacement Projects
Woodrat #2 Intake Replacement
Preliminary Estimate of Probable Cost
January 16, 2015**

Item No.	Item	Estimated Quantity	Unit	Unit Cost	Total
1	New Valve Operator	2	EA	\$12,000	\$24,000
2	New Valves, Piping and Screens	2	EA	\$12,000	\$24,000
				Sub Total	\$48,000
				Contingency (10%)	\$5,000
				Engineering Services (25%)	\$12,000
				Total	<u>\$65,000</u>

Note:

These cost estimates assume that the existing supporting structures are reusable and the piping in the pond is flanged and the distance from the handwheel is no more than 40'

Bolinas Community Public Utility District
Collection System Pipe Replacement Projects
Woodrat #1 Overflow Lining
Preliminary Estimate of Probable Cost
 January 16, 2015

Item No.	Item	Estimated Quantity	Unit	Unit Cost	Total
1	Line 24" Overflow Piping	220	LF	\$250	\$55,000
				Sub Total	\$55,000
				Contingency (10%)	\$5,500
				Engineering Services (25%)	\$14,000
				Total	<u>\$75,000</u>

Bolinas Community Public Utility District
Collection System Pipe Replacement Projects
Woodrat #1 Intake Replacement
Preliminary Estimate of Probable Cost
 January 16, 2015

Item No.	Item	Estimated Quantity	Unit	Unit Cost	Total
1	New Valve Operator	1	EA	\$12,000	\$12,000
2	New Valves, Piping and Screens	1	EA	\$12,000	\$12,000
				Sub Total	\$24,000
				Contingency (10%)	\$2,500
				Engineering Services (25%)	\$6,000
				Total	<u>\$33,000</u>

Note:

These cost estimates assume that the existing supporting structures are reusable and the piping in the pond is flanged.

**Bolinas Community Public Utility District
Storage Rehabilitation Projects
Preliminary Estimate of Probable Cost
January 16, 2015**

Recoat Tank #1 or Tank #2

Item No.	Item	Estimated Quantity	Unit	Unit Cost	Total
1	Recoat tank	1	EA	\$146,000	\$146,000
				Sub Total	\$146,000
				Contingency (10%)	\$15,000
				Engineering Services (40%)	\$58,500
				Total	<u>\$220,000</u>

Notes:

Listed construction cost assumes blasting to bare steel and coating the entire tank interior and pressure washing, sanding, spot priming and a single coat on the exterior of the tank.

For this project the engineering services includes construction management and onsite construction observation.

One project recoating both tanks at one time.

Item No.	Item	Estimated Quantity	Unit	Unit Cost	Total
1	Recoat tank	2	EA	\$138,000	\$276,000
				Sub Total	\$276,000
				Contingency (10%)	\$27,500
				Engineering Services (35%)	\$96,500
				Total	<u>\$400,000</u>

Notes:

Listed construction cost assumes blasting to bare steel and coating the entire tank interior and pressure washing, sanding, spot priming and a single coat on the exterior of the tank.

For this project the engineering services includes construction management and onsite construction observation.

Bolinas Community Public Utility District
Distribution System Pipe Replacement Projects
Juniper Road between Elm Road and Ocean Parkway
Preliminary Estimate of Probable Cost
 January 16, 2015

Item No.	Item	Estimated Quantity	Unit	Unit Cost	Total
1	2" Water Main	540	LF	\$65	\$35,100
2	2" Valve	1	EA	\$1,000	\$1,000
3	Wharf Hydrant	1	EA	\$3,500	\$3,500
4	Connection to Existing Main	1	EA	\$3,000	\$3,000
5	Service	4	EA	\$2,100	\$8,400
				Sub Total	\$51,000
				Contingency (10%)	\$5,000
				Engineering Services (25%)	\$13,000
				Total	<u>\$69,000</u>

Bolinas Community Public Utility District
Distribution System Pipe Replacement Projects
Canyon Road
Preliminary Estimate of Probable Cost
January 16, 2015

Replace existing facilities with new facilities in sleeves

Item No.	Item	Estimated Quantity	Unit	Unit Cost	Total
1	6" Water Main Sleeved	500	LF	\$115	\$57,500
2	6" Valve	1	EA	\$1,500	\$1,500
3	Fire Hydrant	1	EA	\$7,000	\$7,000
4	Connection to Existing Main	1	EA	\$5,000	\$5,000
5	Service Sleeved	7	EA	\$3,000	\$21,000

Sub Total	\$92,000
Contingency (10%)	\$9,000
Engineering Services (25%)	\$23,000
Total	<u>\$124,000</u>

Replace existing main with new service laterals in single sleeve

Item No.	Item	Estimated Quantity	Unit	Unit Cost	Total
1	6" Sleeve with Service lines	500	LF	\$105	\$52,500
2	Service	7	EA	\$2,500	\$17,500

Sub Total	\$70,000
Contingency (10%)	\$7,000
Engineering Services (25%)	\$17,500
Total	<u>\$95,000</u>

Bolinas Community Public Utility District
Distribution System Pipe Replacement Projects
Birch Road from Mesa Road to Elm Road
Preliminary Estimate of Probable Cost
 January 16, 2015

Item No.	Item	Estimated Quantity	Unit	Unit Cost	Total
1	4" Water Main	2480	LF	\$75	\$186,000
2	4" Valve	4	EA	\$1,250	\$5,000
3	Connection to Existing Main	5	EA	\$5,000	\$25,000
4	Service	17	EA	\$2,100	\$35,700
				Sub Total	\$251,700
				Contingency (10%)	\$25,000
				Engineering Services (25%)	\$63,000
				Total	<u>\$340,000</u>

Bolinas Community Public Utility District
Distribution System Pipe Replacement Projects
Fern Road between Elm Road and Alder Road
Preliminary Estimate of Probable Cost
 January 16, 2015

Item No.	Item	Estimated Quantity	Unit	Unit Cost	Total
1	4" Water Main	640	LF	\$75	\$48,000
2	2" Valve	2	EA	\$1,000	\$2,000
3	Connection to Existing Main	2	EA	\$4,000	\$8,000
4	Service	5	EA	\$2,100	\$10,500
				Sub Total	\$68,500
				Contingency (10%)	\$7,000
				Engineering Services (25%)	\$17,000
				Total	<u>\$93,000</u>

Bolinas Community Public Utility District
Distribution System Pipe Replacement Projects
Fern Road between Larch Road and Poplar Road
Preliminary Estimate of Probable Cost
 January 16, 2015

Item No.	Item	Estimated Quantity	Unit	Unit Cost	Total
1	2" Water Main	650	LF	\$65	\$42,250
2	2" Valve	2	EA	\$1,000	\$2,000
3	Connection to Existing Main	2	EA	\$3,000	\$6,000
4	Service	1	EA	\$2,100	\$2,100
				Sub Total	\$52,350
				Contingency (10%)	\$5,000
				Engineering Services (25%)	\$13,000
				Total	<u>\$70,000</u>

Bolinas Community Public Utility District
Distribution System Pipe Replacement Projects
Grove Road between Elm Road and Alder Road
Preliminary Estimate of Probable Cost
 January 16, 2015

Item No.	Item	Estimated Quantity	Unit	Unit Cost	Total
1	2" Water Main	640	LF	\$65	\$41,600
2	2" Valve	2	EA	\$1,000	\$2,000
3	Connection to Existing Main	2	EA	\$3,000	\$6,000
4	Service	1	EA	\$2,100	\$2,100
				Sub Total	\$51,700
				Contingency (10%)	\$5,000
				Engineering Services (25%)	\$13,000
				Total	<u>\$70,000</u>

Bolinas Community Public Utility District
Distribution System Pipe Replacement Projects
Mesa Road between Aspen Road and Dogwood Roads connect side street mains to 10" AC main
Preliminary Estimate of Probable Cost
 January 16, 2015

Item No.	Item	Estimated Quantity	Unit	Unit Cost	Total
1	Fire Hydrant	2	EA	\$12,000	\$24,000
2	Connection to Existing Main	3	EA	\$7,000	\$21,000
				Sub Total	\$45,000
				Contingency (10%)	\$4,500
				Engineering Services (25%)	\$11,500
				Total	<u>\$61,000</u>

Note:

The connection to existing main costs assume that the tees on the main and the valves for the branches on those tees already exist.

Bolinas Community Public Utility District
Distribution System Pipe Replacement Projects
Juniper Road between Elm Road and Ocean Parkway
Preliminary Estimate of Probable Cost
 January 16, 2015

Item No.	Item	Estimated Quantity	Unit	Unit Cost	Total
1	4" Water Main	640	LF	\$80	\$51,200
2	4" Valve	1	EA	\$1,250	\$1,250
3	Wharf Hydrant	1	EA	\$3,500	\$3,500
4	Connection to Existing Main	1	EA	\$4,000	\$4,000
5	Service	6	EA	\$2,100	\$12,600
				Sub Total	\$72,550
				Contingency (10%)	\$7,500
				Engineering Services (25%)	\$18,000
				Total	<u>\$98,000</u>

Bolinas Community Public Utility District
Distribution System Pipe Replacement Projects
Cedar Road between Larch Road and Ocean Parkway
Preliminary Estimate of Probable Cost
 January 16, 2015

Item No.	Item	Estimated Quantity	Unit	Unit Cost	Total
1	4" Water Main	2000	LF	\$80	\$160,000
2	2" Valve	2	EA	\$1,000	\$2,000
3	Connection to Existing Main	2	EA	\$7,000	\$14,000
4	Service	16	EA	\$2,100	\$33,600
				Sub Total	\$209,600
				Contingency (10%)	\$21,000
				Engineering Services (25%)	\$52,500
				Total	<u>\$283,000</u>

Bolinas Community Public Utility District
Distribution System Pipe Replacement Projects
Grove Road between Larch Road and Poplar Road
Preliminary Estimate of Probable Cost
 January 16, 2015

Item No.	Item	Estimated Quantity	Unit	Unit Cost	Total
1	2" Water Main	640	LF	\$70	\$44,800
2	2" Valve	2	EA	\$1,000	\$2,000
3	Connection to Existing Main	2	EA	\$3,000	\$6,000
4	Service	2	EA	\$2,100	\$4,200
				Sub Total	\$57,000
				Contingency (10%)	\$5,500
				Engineering Services (25%)	\$14,500
				Total	<u>\$77,000</u>

Bolinas Community Public Utility District
Distribution System Pipe Replacement Projects
Hawthorne Road between Elm Road and Larch Road
Preliminary Estimate of Probable Cost
 January 16, 2015

Item No.	Item	Estimated Quantity	Unit	Unit Cost	Total
1	4" Water Main	1280	LF	\$80	\$102,400
2	4" Valve	3	EA	\$1,250	\$3,750
3	Connection to Existing Main	4	EA	\$5,000	\$20,000
4	Service	5	EA	\$2,100	\$10,500

Sub Total	\$136,650
Contingency (10%)	\$13,500
Engineering Services (25%)	\$34,000
Total	<u>\$184,000</u>

Bolinas Community Public Utility District
Distribution System Pipe Replacement Projects
Kale Road between Larch Road and Poplar Road
Preliminary Estimate of Probable Cost
 January 16, 2015

Item No.	Item	Estimated Quantity	Unit	Unit Cost	Total
1	2" Water Main	640	LF	\$70	\$44,800
2	2" Valve	2	EA	\$1,000	\$2,000
3	Connection to Existing Main	2	EA	\$3,500	\$7,000
4	Service	1	EA	\$2,100	\$2,100
Sub Total					\$55,900
Contingency (10%)					\$5,500
Engineering Services (25%)					\$14,000
Total					<u>\$75,000</u>

Note:

This project will be installed after the Poplar Road main and the tee will be installed in the Poplar Road Main.

Bolinas Community Public Utility District
Distribution System Pipe Replacement Projects
Walnut Road between Larch Road and Poplar Road
Preliminary Estimate of Probable Cost
 January 16, 2015

Replace existing facilities with new main and appurtenances.

Item No.	Item	Estimated Quantity	Unit	Unit Cost	Total
4	2" Water Main	300	LF	\$70	\$21,000
9	2" Valve	1	EA	\$1,000	\$1,000
11	Wharf Hydrant	1	EA	\$3,500	\$3,500
13	Connection to Existing Main	1	EA	\$4,000	\$4,000
14	Service	2	EA	\$2,100	\$4,200

Sub Total	\$33,700
Contingency (5%)	\$1,750
Engineering Services (25%)	\$8,500
Total	<u>\$44,000</u>

Replace existing facilities with two new services.

Item No.	Item	Estimated Quantity	Unit	Unit Cost	Total
4	Dual 1.5" water service lines	300	LF	\$65	\$19,500
14	Service	2	EA	\$3,000	\$6,000

Sub Total	\$25,500
Contingency (10%)	\$2,500
Engineering Services (25%)	\$6,500
Total	<u>\$35,000</u>

Bolinas Community Public Utility District
Distribution System Pipe Replacement Projects
Ocean Avenue from Terrace Avenue to the end of Ocean Avenue
Preliminary Estimate of Probable Cost
 January 16, 2015

Item No.	Item	Estimated Quantity	Unit	Unit Cost	Total
3	4" Water Main	800	LF	\$80	\$64,000
8	4" Valve	1	EA	\$1,250	\$1,250
11	Wharf Hydrant	1	EA	\$3,500	\$3,500
13	Connection to Existing Main	1	EA	\$5,000	\$5,000
14	Service	5	EA	\$2,100	\$10,500
				Sub Total	\$84,250
				Contingency (10%)	\$8,500
				Engineering Services (25%)	\$21,000
				Total	<u>\$114,000</u>

**Bolinas Community Public Utility District
Distribution System Pipe Replacement Projects
Poplar Road between Vine Road and Evergreen
Preliminary Estimate of Probable Cost
January 16, 2015**

Item No.	Item	Estimated Quantity	Unit	Unit Cost	Total
1	8" Water Main	2680	LF	\$100	\$268,000
2	8" Valve	10	EA	\$1,750	\$17,500
3	6" Valve	1	EA	\$1,500	\$1,500
4	Connection to Existing Main	3	EA	\$7,000	\$21,000
14	Service	3	EA	\$2,100	\$6,300
				Sub Total	\$314,300
				Contingency (10%)	\$31,500
				Engineering Services (25%)	\$78,500
				Total	<u>\$424,000</u>

Notes:

Provided documentation stated 3500 feet of 8" main mapping shows approximately 2680 feet.

Some of the valve costs are reflected on adjacent projects.

Documentation shows a connection to walnut however project D18 only shows 300 feet from Larch which does not extend to Poplar.

Bolinas Community Public Utility District
Distribution System Pipe Replacement Projects
Sycamore Road between Elm Road and Ocean Parkway
Preliminary Estimate of Probable Cost
 January 16, 2015

Item No.	Item	Estimated Quantity	Unit	Unit Cost	Total
1	6" Water Main	400	LF	\$90	\$36,000
2	8" Valve	2	EA	\$1,750	\$3,500
3	6" Valve	5	EA	\$1,500	\$7,500
4	Connection to Existing Main	3	EA	\$6,000	\$18,000
				Sub Total	\$65,000
				Contingency (10%)	\$6,500
				Engineering Services (25%)	\$16,500
				Total	<u>\$88,000</u>

Bolinas Community Public Utility District
Sewer Collection System Rehabilitation Projects
Wharf Road from Lift Station to end of Wharf Road
Preliminary Estimate of Probable Cost
 January 16, 2015

Item No.	Item	Estimated Quantity	Unit	Unit Cost	Total
1	Line 8" Sewer	1000	LF	\$50	\$50,000
2	Service	21	EA	\$500	\$10,500

Sub Total	\$60,500
Contingency (10%)	\$6,000
Engineering Services (25%)	\$15,000
Total	<u>\$82,000</u>