Initial	DATE
Made by BB	3/29/2004
Revised by	
Revised by	
Revised by	
Checked by	

COUNTY OF SANTA CRUZ
DEPARTMENT OF PUBLIC WORKS

PRELIMINARY ESTIMATE OF COST

FOR

BOULDER CREEK
FORCE MAIN REPLACEMENT PROJECT
FROM PUMP STATION 1 TO FERN ROCK WAY

Item No	Item Description	Unit	Quantity	Unit Price	Amount
1	Trench Shoring	LS	1	$10,000.00	$10,000.00
2	Four-Inch PVC Force Main	LF	6,200	$90.00	$558,000.00
3	Four-Inch Steel Force Main crossing Boulder Creek	LF	240	$200.00	$48,000.00
4	Sewer Cleanout	EA	2	$1,500.00	$3,000.00
5	Sewer Bypass	LS	1	$10,000.00	$10,000.00
6	Finish Roadway	LS	1	$25,000.00	$25,000.00
7	Extra Work	LS	1	$40,000.00	$40,000.00

NOTES

1. Estimate does not include:
a) rebuilding lift stations
b) replacing pipeline from end of Fern Rock Way to Leachfield
c) replacing force main from PS #4

2. Costs may increase due to unanticipated site conditions.

3. 4-inch force main replacement will require PVC Pressure Pipe

Contract total		$694,000.00
Contingencies	11.88%	$82,471.70
	Subtotal	$776,471.70
Exist. System Survey		$10,000.00
Design Engineering		$10,000.00
Agency Permits		$10,000.00
Construction Inspection		$15,000.00
Encroachment Permit		$2,000.00
Right-of-Way Engineering		$2,000.00
	Subtotal	$825,471.70
Overhead	6%	$49,528.30
	PROJECT TOTAL	$875,000.00