Per Jim Hall 1/7/08 Cost to Date

Phase 1 Dec 26 to Jan 6				
Bypass pumping, slide-rail shaft, 96-inch manhole, 48-inch bypass sewer, manhole cone				
Work	Quant	Unit	Unit Price	Item Total
MOORE Constr.				
Godwin Pumps	1	LS	\$50,000	\$50,000
Equipment	1	LS	\$35,000	\$35,000
Labor	1	LS	\$27,000	\$27,000
Material	1	LS	\$50,000	\$50,000
MRP Services (CCTV, MH entries, and pump				
watch)	1	LS	\$35,000	\$35,000
Markup (estimated)	20.00%			\$39,400
Phase 1 Total				\$236,400

Phase 2 -- Jan 4 to Feb 4

60-inch bore and jack under RR, jacking pit, large dia MH, connection to existing MHs, street resurfacing, continued flow bypass, erosion control, inlets, 48-inch MH on sanitary sewer.

T/M Contract Work	Quant	Unit	Unit Price	Item Total
60-inch Bore & Jack Casing	100	LF	\$500	\$50,000
HDPE Carrier Pipe & Grout	100	LF	\$250	\$25,000
Drill Crew	7	day	\$6,740	\$47,180
Jacking Pit	1	LS	\$15,000	\$15,000
84-inch MH and connect	1	LS	\$50,000	\$50,000
Connect to existing MH	1	LS	\$10,000	\$10,000
48-inch MH	1	EA	\$4,000	\$4,000
Inlets & Leads	2	EA	\$1,000	\$2,000
Street Resurfacing	1900	SF	\$35	\$66,500
Continued Flow Bypass	50	day	\$4,500	\$225,000
Abandon exist 48-inch	47	CY	\$200	\$9,400
Erosion Control	1	LS	\$2,000	\$2,000
Prime Contr Markup on Bore	1	LS	\$44,000	\$44,000
Subtotal				\$550,080
Moore Exc. Markup @ 17.85%	17.85%			\$98,189
Phase 2 Total				\$648,269
50% Contingency on Contract				\$324,135
Construction Management (12%)				\$77,792
Total Construction Phase				\$1,050,196
Design (10%)				\$64,827
Project Life				\$1,115,023

\$795/hr for 8 h preme

Phase 3 ? To ?	··			
Lining 48-inch brick sewer between 3rd and 1s	t			
T/M Contract Work	Quant	Unit	Unit Price	Item Total
CIPP lining 1.1" thick	430	LF	\$600	\$258,000
Flow Diversion	10	day	\$4,500	\$45,000
Re-establish connections	5	EA	\$500	\$2,500
Adjust MH for insertion	1	LS	\$1,000	\$1,000
Clean & Video Inspect	430	LS	\$3	\$1,290
Point Repair	1	EA	\$5,000	\$5,000
Manhole at 2nd	1	EA	\$20,000	\$20,000
Phase 3 Total				\$332,790
50% Contingency on Contract				\$166,395
Construction Management (12%)				\$39,935
Total Construction Phase				\$539,120
Design (10%)				\$33,279
Project Life				\$572,399

Engineer's Estimate Checklist for Optimal Confidence

Project Name/Number: SE 1st & Oak Einergency Swel Rephiliment Engineer:	- שטר	()vo)	rak FP
Level of Effort to prepare this estimate:			
Items included in this estimate:			
Items excluded in this estimate:			
<u>Project Scope</u>	<u>Yes</u>	<u>No</u>	Not Applicab le
Is the project scope clearly understood and well defined?			
Are pay items identified according to project specifications?			
Are materials and quantities accurate for execution of the job?			×
Is the extent of street resurfacing understood and accounted for?			· * <
Is utility coordination and/or relocation, and potential project delay, understood			<u>×</u>
and accounted for in this estimate?		_	72-
Are environmental and soil conditions understood, and are the extent and methods			≯
of any required disposal accounted for in this estimate?			χ.
Has Traffic Control been estimated according to project-specific conditions?			*
Are project-specific mobilization costs understood and accounted for in this estimate?			≥ <
Have known extra work items, or force account items, been accounted for?	X		
Comments: Project is an emergency that will be	CaTH (tel on a
force-account basis. The project sope is understo	_ / +	n the	best of our
			Construct
Project Schedule	Yes	<u>No</u>	Not Applicable
Have availability and delivery time of important materials and equipment been checked?			
Has the contract time been determined with/by the Construction Manager?			<u> </u>
Have contract time cost impacts been accounted for in this estimate?			
Have construction season cost impacts been accounted for in this estimate?	×		
Are schedule constraints and/or schedule acceleration requirements understood,			×
well defined, and accounted for in this estimate?			×
		_	U.
Have unusual work time requirements (ie 24 hr work or limited street closure times) been accounted for in this estimate?			×
Commenter The empire of the hatter maker it difficult to	2000	col 1	tunitho
length at the contract la come la come to	61	201-	11/2/20 6 (6)
Comments: The emergency nature makes it difficult to plength of the contract bearinable estimate is bypass will continue for that long		- July	s. We're assumming
Quality Assurance			
Are quantity take-off calculations and back-up information documented?	<u>Yes</u>	<u>No</u>	Not Applicable
Are unit prices verified with vendors and sources documented? Are historical unit packs adjusted (to midwint of posts units) from any interest of initial control of the c			ėx .
Are historical unit costs adjusted (to midpoint of construction) from projects of similar			>
scale, similar site and similar construction conditions?			~.
Have non-standard items been estimated "bottom-up"?			>
Is a contingency in this estimate? If so, describe: 30% Contingency	25-		
Are "plug" estimates used? If so, describe:			×
Was this estimate checked? (quantities and costs)	X	~	
Was this estimate checked? (quantities and costs) Comments: Estimate used historical unit costs from a similar Estimate was checked by Design Engineer and Cons	Pin	jecc.	
_ CSTIMATE Was colched by Design Engineer and cons	mi	מער א	Manager,
DITE. TO A			
Bidding Environment	<u>Yes</u>	<u>No</u>	Not Applicable
Is this project directed to the sheltered market and is this accounted for in this estimate?		X	
Has the time/season of advertising been factored into the estimate?			×
Are circumstances known that would limit the bidding pool and is this accounted for?			×
Comments:			
	4.4.		
Implementation Procedures for Capital Projects	Yes	<u>No</u>	Not Applicable
Does the project construction estimate agree with the current budget?			\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\
If "No", has a Trend Alert been prepared?			\mathbf{X}
Comments:			