PROJECT COST ESTIMATE SUMMARY

Project Name: Requesting Agency: Implementing Agency: Project Scope:

RJC Hot Water Piping	Project No.:	99M089	Date:	13-Jan-09
Facilities Management Division	Estimator:	S. Swinburne		
Facilities Management Division	Checked by:	G. Evans		

At the RJC, replace the existing failed copper piping connecting to and from the boilers, with new welded black steel piping, including fittings and insulation. FMD has declared this project as an emergency and is proceeding with completion of design documents by Sazan Group and Freeman Fong Architecture and construction by Auburn Mechanical. Costs shown are from project beginning of 10/08 through completion of 1/10.

	PROJECT COST	TOTAL PROJECT COST
ELEMENT - DESCRIPTION		
001 - CONSULTANT DESIGN		
Pre-Design Fees	\$14,773	\$14,773
Design Fees	\$260,577	\$260,577
Total 001 - Consultant Design Cost	\$275,350	\$275,350
003 - CONSTRUCTION		
MAX. ALLOWABLE CONST. COST (MACC)	\$2,037,803	\$2,037,803
Sales Tax 9.00% of MACC	\$183,402	\$183,402
Mechanical Permit Fees 1.00% of MACC	\$20,378	\$20,378
Local Grading/Land use Permits		
Land Use State Permits		
Land Use Federal Permits		
Commissioning of MACC		
Moving Cost (\$500-\$1000/person)		
Telephone Cost (\$350/phone)		
Data Communications Costs (\$500/device)		
Relocation/Temporary Construction Cost		
Tenant Relocation Lease Cost		
Security Escort Cost during DAJD 2,080 Hours Construction FMD Hours	\$104,000	\$104,000
Other capitalized Operating Cost		
Survey		
Asbestos Abatement Cost		
Special Inspection & Testing Fee of MACC		
Printing Cost (Bid Documents)	\$320	\$320
Total 003 - Construction Cost	\$2,345,904	\$2,345,904
004 - EQUIPMENT & FURNISHINGS		
Total 004 - Equipment & Furnish. Cost		
005 - CONTINGENCY		
Project Contingency 10.00% of 001, 003, 004,007, & 009		
Total 005 - Contingency Cost	\$268,433	\$268,433
007 - COUNTY FORCE DESIGN		
Project Design of 001, 003, 004		
Other		
Total 007 - County Force Design Cost		
009 - COUNTY FORCE ADMINISTRATION		
GGCIP Project Mgmt 415 Hours		
Total 009 - County Force Admin. Cost	\$63,080	\$63,080
006 - ART of 001,003,005,007 & 009		
Check if project is visible to the public 100 - ADMINISTRATIVE OH 3.50% of total project cost	\$103,347	\$103,347
☑ Check if Major Maintenance	42.2-24.1	\$2 0E6 114
TOTAL PROJECT COST Less Existing Funds: \$70,000	\$3,056,114	\$3,056,114
FUNDS REQUIRED TO COMPLETE PROJECT		\$2,986,114
FUNDS NEGUINED TO COMPLETE PROJECT		42,300,114

CONSULTANT FEE ESTIMATE

Project Name:	RJC Hot Water Piping		MMRF/CIP Number:	99M089
Project Manager:	S. Swinburne		Date:	13-Jan-09
Checked by:	G. Evans			
	Consultant Fee Subtotals	Consultant Fee Totals		
Pre-Design Fees				
Sazan Group: Heating Piping Assessment Report	П	\$13,730		
Wood Harbinger, Inc.: Peer Review of Sazan's Heating Piping Assessment Report		\$1,043		
Total Pre-Design Fee	s:	\$14,773		
<u>Design Fees</u>				
Basic Services:				
Freeman Fong Architecture / Sazan Group:				
Design Development Phase	\$34,841			
Subtotal, Freeman Fong Arch. / Sazan Group		\$34,841		
Sazan Group:				
As-Built Drawings Phase Construction Documents Phase Contractor Price Negotiations Phase Construction Administration Phase Record Drawings Phase	\$17,730 \$52,743 \$7,434 \$142,075 \$5,274			
Subtotal, Sazan Group		\$225,256		
Reimbursable Expenses:		•		
Automobile Mileage	\$480			
Subtotal, Reimbursable Expenses		\$480		
Total Design Fees	s:	\$260,577		

Total Consultant Fee Estimate \$275,350

DETAILED CONSTRUCTION COST

Project Name: RJC Hot Water Piping Project No.: 99M089 Date: 13-Jan-09

Estimator: Sazan Group, Inc.

Item No.	Item Description	Unit	Unit Cost	Qty.	Total Cost
	Construction cost estimate is by Sazan Group, Inc. and is based upon construction market trends for similar commercial water pipe replacement projects:				
1	Remove and replace existing soldered copper hot water piping and insulation with new welded black steel piping, including new fittings and insulation - between boilers and water heaters (costs include General Contractor's 15% Overhead and 15% Profit)	LS	611,403	1	\$611,403
2	Remove and replace existing soldered copper hot water piping and insulation with new welded black steel piping, including new fittings and insulation, between boilers and air handling units (costs include General Contractor's 15% Overhead and 15% Profit)	LS	427,747	1	\$427,747
3	Remove and replace existing soldered copper hot water piping and insulation with new welded black steel piping, including new fittings and insulation - between boilers and variable air volume boxes and fan coil units (costs include General Contractor's 15% Overhead and 15% Profit)	LS	165,076	1	\$165,076
4	Remove and replace existing soldered copper hot water piping and insulation with new welded black steel piping, including new fittings and insulation - piping mains to and from boiler (costs include General Contractor's 15% Overhead and 15% Profit)	LS	220,020	1	\$220,020
5	Subtotal, Construction Cost including Overhead and Profit				\$1,424,246
6	General Conditions: A. Maintain clean site B. Site project engineer, expediter C. Project Manager and Superintendent D. Trailer, tools, lifts, etc.	LS LS LS LS	31,200 93,600 117,000 71,212	1 1 1	\$31,200 \$93,600 \$117,000 \$71,212
7	Subtotal, General Conditions				\$313,012
8	Bond	LS	34,745	1	\$34,745
9	Subtotal, Construction Costs				\$1,772,003
10	Design Contingency (15%)				\$265,800
AXIMUM A	ALLOWABLE CONSTRUCTION COST (MACC):				\$2,037,803

PROJECT SCHEDULE FORM

Contractor Price Negotiations Construction Documents Permits Pre-Design CD Schematic Design P Design Develop. CPN Environment. Review C Water Pipe Study CO CS SD DD WPS Key. **RJC Hot Water Piping** 13-Jan-09 Project: Date:

Construction Closeout Proj. Mgr.: S. Swinburne

	92		345	Dec-10 Yr. Total	6
Dec-08 WPS	25	Dec-09	9		
Oct-08 Nov-08 Dec-08 MPS WPS WPS	20	Oct-09 Nov-09 Dec-09	10	Nov-10	
	20	8	20	Oct-10	
Sep-08		Jul-09 Aug-09 Sep-09	40	Sep-10	
Aug-08		Aug-09 C	96	Jul-10 Aug-10	
30-Inf		0	30	Jul-10	
30-unf		Jun-09 C	40	Jun-10	
May-08		May-09 C	40	May-10	
Apr-08		Apr-09 D/CPN	40	Apr-10	
Mar-08		Mar-09 CD	35	Mar-10	
Feb-08		Feb-09	25	Feb-10	
Jan-08		Jan-09 DD/CD CD	30	Jan-10 CO	G

Total Project Manager Hours