CEF Fact Sheet

Date of Estimate:	October 1, 1998
FEMA Region:	III
Preparer(s):	Tom Rathburn (FEMA) and Beth Ingalls (State)
Applicant Name:	St. Joseph's College
Project Title:	Bridge Replacement
Damaged Facility:	Simmond's Arch Bridge
Declaration Number:	FEMA-1234-DR-MD
Project Number:	5678
PA ID No.:	955-91000
Date of Inspection:	September 29, 1998
Event Date(s)	September 15, 1998
Work Category:	C
Type of Work:	New
(Enter New, Repair, etc.)	
Scope:	Floodwaters washed out 26 ft wide x 24 ft long bridge, including: 24 ft long concrete arch culvert (cross section: 5 ft high at center; 3 ft high on ends;
	24 ft wide; 9 in thick), 2 - 3 ft wide, 24 ft long concrete footings; overlying earth fill; 2 - 26 ft wide, 1 ft thick concrete headwalls; 4 - 12 ft long, 1 ft thick wingwalls (ends 9 ft and 6 ft high) with 3 ft x 2 ft concrete footings; 26 ft x 16 ft wide asphalt road (4 in thick with 6 in base course) on bridge; 26 ft x 6 ft wide grass pathway on bridge; 2 galvanized steel guardrails (75 LF each); 37 LF handrail along pathway; and approx 10 CY of riprap. Scour removed 25 LF of 16 ft wide asphalt road and fill on each approach. Remove approx 62 CY of concrete from stream and dispose. Replace all elements using same quantities. Total fill volume = approx 275 CY. Use Class A concrete for footings and headwalls. Add topsoil and seed for pathway.

CEF Notes

Damaged Facility:		Simmond's Arch Bridge
Applicant Name:		St. Joseph's College
Project Number:		5678
Date of Estimate:		October 1, 1998
Preparer(s):		Tom Rathburn (FEMA) and Beth Ingalls (State)
Part A Notes:	A 1 -	Concrete removal and disposal was completed by a contractor
l un A Notos.	,	before the project formulation team met with the applicant. Actual
		costs have been used for this work. For uncompleted work,
		construction costs are based on 1998 R.S. Means unit costs with
		appropriate city index for each CSI division of work.
		appropriate only index for each ear arriver or month
	A.2 -	Construction costs are based on 1998 R.S. Means unit costs with
		appropriate city index for each CSI division of work.
Part B Notes:	B.1 -	General Requirements include Quality Control testing of concrete
		at 1% and Submittals at 1%
	B.2 -	Standard CEF factor used for General Conditions
		otandard GET ractor used for General Conditions
Part C Notes:	C.1 -	Scope of new construction is well defined, 2% used for design
		scope contingency.
	C.2 -	Constructibility costs for dewatering during installation of headwall
		and wingwalls, 2% contingency factor used to account for cost not
		included in Part A.
	C.3 -	Access at site is limited, used 2%. No Storage or Staging costs
		applicable to scope of work included in Part A.
		Project is too small for economies of scale factor.
Part D Notes:		Standard CEF factor used for GC's Home Office Overhead
	D.2 -	Standard CEF factor used for GC's Insurance, Payment &
		Performance Bond
		Standard CEF factor used for GC's Profit
Part E Notes:	E.1 -	(Design = 1 month, Bid & Award = 1 month) Uncompleted
		Construction is: 6 months/2 (midpoint of uncompleted
		construction) = 3 months
Part F Notes:	F1-	Plan review costs are based on Montgomery County, MD
arti Notes.		requirements
	F2-	Permit costs are based on Montgomery County, MD requirements
		Tomic cools are based on workgomery county, we requirement
Part G Notes:	G.1 -	Standard CEF factor used for Change Orders
		0. 1.10557
Part H Notes:	H.1 -	Standard CEF factor used for Project Management - Design
		Phase
		Standard CEF factor used for A/E Design Contract Costs
	H.3 -	Standard CEF factor used for Project Management - Construction Phase
Miscellaneous		r nasc
Notes & Comments:		
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Use mouse to		
Activate Cursor:		

CEF Part A Estimate

Item No.	Item Description Title / Component Description	Div. # or Cost Code	Qty	Units	Unit Price	City Adj Factor	Total Cost
Comple	ted					<u> </u>	
	Permanent						
1	Concrete and masonry removal	Actual cost	62.00	CY	\$ 110.00	1.00	\$ 6,820.00
2	Concrete disposal, including loading and 5 mile haul	Actual cost	93.00	CY	\$ 10.00	1.00	\$ 930.00
3	Dump charges for building construction	Actual cost	7.75	TON	\$ 50.00	1.00	\$ 387.50
	materials				\$ -		\$ -
					\$ -		\$ -
			Co	omplet	ed - Perma	nent Total	\$ 8,137.50
	Non-Permanent						
					\$ -		\$ -
					\$ -		\$ -
					\$ -		\$ -
					\$ -		\$ -
			Compl	eted -	Non-Perma	nent Total	\$ -
Uncomp	pleted						
	Permanent						
	Bridge Replacement				\$ -		\$ -
4	Concrete Arch Culvert	Contractor Quote	35.00	CY	\$ 930.00	1.00	\$ 32,550.00
5	Concrete Wing Walls (4 ea)	025-508-1100	12.22	CY	\$ 315.00		\$ 3,310.40
6	Concrete Head Walls (2 ea) Concrete, class "A" for footings (4 ea)	025-508-1100	6.10	CY	\$ 315.00		\$ 1,652.49
7	2'x3'x14'	025-508-1000	12.50	CY	\$ 220.00	0.86	\$ 2,365.00
8	Backfill, granular (including approaches)	022-308-1511	275.00	CY	\$ 22.79	0.86	\$ 5,389.84
9	Backfill, granular, add for small areas	022-308-8900	275.00	CY	\$ 1.80	0.86	\$ 425.70
	Pavement Replacement (Incl Approaches)				\$ -		\$ -
10	Aggregate base course 6" thick, 16' wide	022-308-1511	25.00	CY	\$ 21.00	0.86	\$ 451.50
11	Aggregate base course 6" thick, 16' wide, add for small areas	022-308-8900	25.00	CY	\$ 1.80	0.86	\$ 38.70
12	Bituminous base course, 4" thick	022-308-2005	31.00	TON	\$ 25.50	0.86	\$ 679.83
13	Bituminous base course, 4" thick, add for small areas	022-308-8900	31.00	TON	\$ 2.13	0.86	\$ 56.79
	Pathway and Railings				\$ -		\$ -
14	Top Soil	029-204-3800	25.00	SY	\$ 5.80	0.86	\$ 124.70
15	Seeding	029-308-4400	25.00	SY	\$ 0.08	0.86	\$ 1.08
16	Bridge railing, painted steel pipe	Contractor Quote	37.00	LF	\$ 42.00	1.00	\$ 1,554.00
17	Guardrail, galvanized steel beam plate	028-404-0900	150.00	LF	\$ 31.00	0.86	\$ 3,999.00
18	Guardrail, galvanized steel wrap around ends	028-404-0300	4.00	EA	\$ 99.50	0.86	\$ 342.28
	Scour Protection					<u>L</u>	\$ -
19	Riprap, dumped	022-712-0100	10.00	CY	\$ 36.00	0.86	\$ 309.60
					\$ -		\$ -
			Unce	omplet	ed - Perma	nent Total	\$ 53,250.89
	Non-Permanent						
20	Dewatering	021-404-0600	40.00	day	\$ 128.00		\$ 4,403.20
21	Sediment erosion control, silt fencing	022-704-1100	60.00	LF	\$ 0.82	2 0.86	\$ 42.31
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PART A through E SUBTOTAL \$ 8,138 \$ - \$ - \$ - \$ - \$ 8,13 Plan Review and Construction Permit Cost F.1 Plan Review Fees (List Individual Requirements Separately) \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ Construction Permit Fees (List Individual Requirements Separately) Part F Total Par
PART F Plan Review and Construction Permit Cost F.1 Plan Review Fees (List Individual Requirements Separately) F.2 Construction Permit Fees (List Individual Requirements Separately) Part F Total PART A through F SUBTOTAL Applicant's Reserve for Change Orders Applicant's Reserve for Change Orders Applicant's Reserve for Change Orders S - S - S - S - S - S - S - S - S - S
F.1 Plan Review Fees (List Individual Requirements Separately) \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$
F.1 Plan Review Fees (List Individual Requirements Separately) \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$
F.2 Construction Permit Fees (List Individual Requirements Separately) Part F Total PART A through F SUBTOTAL PART G Applicant's Reserve for Change Orders Applicant's Reserve for Change Orders \$ - \$ - \$ - \$ - \$ - \$ - \$ 8.13
Part F Total
Part F Total
CList Individual Requirements Separately)
Clist Individual Requirements Separately)
PART A through F SUBTOTAL PART G Applicant's Reserve for Change Orders 7.0% S - \$ - \$ - \$ - \$ - \$ 8,13 Applicant's Reserve for Change Orders S - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -
PART A through F SUBTOTAL PART G Applicant's Reserve for Change Orders 7.0% S - \$ - \$ - \$ - \$ - \$ 8,13 Applicant's Reserve for Change Orders S - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -
PART A through F SUBTOTAL \$ 8,138 \$ - \$ - \$ - \$ 8,138 PART G Applicant's Reserve for Change Orders \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$
PART A through F SUBTOTAL \$ 8,138 \$ - \$ - \$ - \$ 8,138 PART G Applicant's Reserve for Change Orders \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$
PART G Applicant's Reserve for Change Orders 7.0% \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$
G Applicant's Reserve for Change Orders 7.0% \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$
G Applicant's Reserve for Change Orders 7.0% \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$
\$ - \\$ - \\$ - \\$ - \\$ -
PART A through G SUBTOTAL \$ 8,138 \$ - \$ - \$ - \$ - \$ 8,13
PARTA tilrough G SUBTUTAL S 0,130 [S - [S
PART H Applicant's Project Management and Design Costs
H.1 Applicant's Project Management - Design Phase 1.0%
\$ - \$ - \$ - \$ - \$ -
H.2 A/E Design Contract Cost
Above Average Complexity (Curve A) 0.0% \$ - \$ - \$ - \$ -
Average Complexity (Curve B)
Basic Construction Inspection Services
H.3
Part H Total \$ 488 \$ - \$ - \$ - \$ - \$ \$ 48
PART A through H SUBTOTAL \$ 8,626 \$ - \$ - \$ - \$ - \$ 8,62

	St. Jos	eph's	College	e - Bridge	e Rep	lace	ement					
		•		New	\$	-	\$ -	\$	-	\$ -		Total
PART A		"	Base Costs"	for Construction	n Work-In	Trades	6					
A.1	Permanent Work (From Part A Estimate)			\$ 53,251							\$	53,251
A.2	Non-Permanent Job Specific Work (From Part	A Estim	ate)	\$ 4,446							\$	4,446
		Р	art A Total	\$ 57,697	\$	-	\$ -	\$	-	\$ -	\$	57,697
PART B		Ge	eneral Requir	ements and Ge	neral Con	nditions	5					
B.1	General Requirements		ange to High		Ent	tor %	in Appropr	ata Calı	ımn			
Б.1	Safety & Security - Airports, Ports & Govt. Owned Marinas	4.0%	6.0%		EIII	ter %	пі Арріорі	ale Coll	umm			
	Temporary Services & Utilities	0.0%	1.0%									
	Quality Control Submittals	0.0%	1.0% 5.0%	1.00%								
	Submittals	0.078	3.076	\$ 1,154	\$	-	\$ -	\$	-	\$ -	\$	1,154
B.2	General Conditions (4.25%)			\$ 2,452	\$	_	\$ -	\$		\$ -	e	2,452
				φ 2,432	Ψ	_	Ψ -	ıφ		- Ι	φ	2,432
		Р	art B Total	\$ 3,606	\$	-	\$ -	\$	-	\$ -	\$	3,606
	PART A thro	uah B S	UBTOTAL	\$ 61,303	\$	-	\$ -	\$	-	\$ -	\$	61,303
		-					*			*		
PART C			Constru	ction Cost Cont	ingencies							
			ange		_							
C.1	Design-Phase Scope Contingencies Preliminary Engineering Analysis	Low 1 15.0%	20.0%		Ent	ter %	in Appropr	ate Colu	umn		-	
	Working Drawings	2.0%	10.0%	2.00%								
				\$ 1,226	\$	-	\$ -	\$	-	\$ -	\$	1,226
C.2	Facility or Project Constructability			}	Ent	ter %	in Appropr	ate Colu	umn			
0.2	Facility or Project Constructability Facility or Project Type and Complexity	(See IG	for Values)	2.00%								
				\$ 1,226	\$	-	\$ -	\$	-	\$ -	\$	1,226
				1								
C.3	Access, Storage & Staging Contingencies		ange to High		Ent	ter %	in Appropr	ate Colu	umn			
	Access Contingencies	1.0%	4.0%	2.00%								
	Storage Contingencies Staging Contingencies	1.0%	4.0% 4.0%	0.00%								
	Staging Contingencies	1.076	4.076	\$ 1,226	\$	-	\$ -	\$	-	\$ -	\$	1,226
				_	_			_		_		
C.4	Economies of Scale		0.0%	\$ -	\$	-	\$ -	\$	-	\$ -	\$	_
		_			1.			1.		1.		
		Р	art C Total	\$ 3,678	\$	-	\$ -	\$	-	\$ -	\$	3,678
	PART A thro	ugh C S	UBTOTAL	\$ 64,981	\$	-	\$ -	\$	-	\$ -	\$	64,981
			2 10									
PART D			General Con	tractor's Overh	ead and F	rofit						
D.1	GC's Home Office Overhead		7.7%	V								
				\$ 5,004	\$	-	\$ -	\$	-	\$ -	\$	5,004
D.2	GC's Insurance, Payment & Performance Bond	ds	3.3%	V								
	,,		0.070	\$ 2,144	\$	-	\$ -	\$	-	\$ -	\$	2,144
		onstruction				/pe of pr	oject, and applion Repair/Retr		n boxes to	apply the factor.		
D.3	General Contractor's Profit	air/Retrofit	10.0%	V Constitut	Г		Repail/Reti				1	
0	and the second s			\$ 7,213	\$	-	\$ -	\$		\$ -	\$	7,213
			ort D Tot-!	. 4400:	•		•	•			•	11001
		Р	art D Total	\$ 14,361	Ъ	-	\$ -	\$	-	\$ -	\$	14,361
	PART A thro	ugh D S	UBTOTAL	\$ 79,342	\$	-	\$ -	\$	-	\$ -	\$	79,342
						-						

		St. Josep	oh's	College	e -	Bridge	e Re	plac	eme	ent						
						New	\$	-	\$	-	\$	-	\$	-		Total
ART E				Cos	st Esc	alation Fa	ctors									
		M	onths	Monthly Factor												
E	Cost Escalation Factor		3	0.188%	\$	447	\$	-	\$	-	\$	-	\$	-	\$	44
		DADT A 4h	L F 01	IDTOTAL	_	79,790	\$		\$		\$		\$	_	\$	70.70
		PART A throug	n E 50	JBIOIAL	\$	79,790	\$	-	\$	-	\$		\$	-	\$	79,79
ART F	_			Plan Review	and (Construction	n Permi	t Cost								
F.1	Plan Review Fees				_				1				_			
	Montgomery County Department of Public \	Vorks			\$	500										
					\$	500	\$	-	\$	-	\$	-	\$	-	\$	50
F.2	Construction Permit Fees														l	
	Montgomery County Construction Fee				\$	1,500										
					\$	1,500	\$	-	\$	-	\$	-	\$	-	\$	1,5
			P	art F Total	\$	2,000	\$	-	\$	-	\$	-	\$	-	\$	2,0
													1			
		PART A throug	jh F Sl	JBTOTAL	\$	81,790	\$	-	\$	-	\$	-	\$	-	\$	81,7
ART G				Applicant's	Rese	erve for Cha	nge Or	ders								
G	Applicant's Reserve for Change O	rders		7.0%		√ VC 101 OHC	Ingo On	1	Γ		П					
					\$	5,725	\$	-	\$	-	\$	-	\$	-	\$	5,7
		PART A throug	h G SI	IRTOTAL	¢.	87,515	\$		\$		\$		\$		6	87,5
	'	ANTAUIIOUG	0 50	BIOIAL	φ	07,313	Ψ		φ		φ		Ψ	-	ų.	07,5
NRT H			Appl	icant's Proje	ct Ma	nagement	and De	esign Co	sts							
H.1	Applicant's Project Management -	Design Phase		1.0%	F	7]	_						
					\$	875	\$	-	\$	-	\$	-	\$	-	\$	8
H.2	A/E Design Contract Cost				l											
	Above Average Complexity (Curve A)		П	11.9%	\$	-	\$	-	\$	-	\$	-	\$	-		
	Average Complexity (Curve B)			9.3%	\$	8,161		-	\$	-	\$	-	\$	-		
	Basic Construction Inspection Services			3.0%	\$	8,161	\$	-	\$	-	\$	-	\$	-	S	8,1
					<u> </u>					_		,			Ť	
						<u> </u>			\$				<u>□</u>			5,2
H.3	Project Management - Construction	on Phase		6.0%		5 251	8				8	-			S .	
Н.3	Project Management - Construction	on Phase			\$	5,251				-	\$	-		-	\$	
Н.3	Project Management - Construction	on Phase	Pa	6.0% art H Total	\$	5,251 14,287		-	\$		\$	-	\$	-	\$	
H.3		on Phase		art H Total	\$		\$	-		-		-		-	\$ \$	14,28
H.3				art H Total	\$	14,287	\$	-	\$	-	\$	-	\$	-	\$	14,28

Total Project Summary

		Cor	npleted	Und	completed		Total
PART A	"Base Costs" for Construction Work In Trades	\$	8,138	\$	57,697	\$	65,835
	A.1 Permanent Work	\$	8,138	\$	53,251	\$	61,389
	A.2 Non-Permanent Job Specific Work (From Part A Estimate)	\$	-	\$	4,446	\$	4,446
PART B	General Requirements and General Conditions	\$	-	\$	3,606	\$	3,606
	B.1 General Requirements	\$	-	\$	1,154	\$	1,154
	B.2 General Conditions	\$	-	\$	2,452	\$	2,452
PART C	Construction Cost Contingencies (Design and Construction)	\$	-	\$	3,678	\$	3,678
	C.1 Standard Design-Phase Scope Contingencies	\$	-	\$	1,226	\$	1,226
	C.2 Facility or Project Constructability	\$	-	\$	1,226	\$	1,226
	C.3 Access, Storage, and Staging Contingencies	\$	-	\$	1,226	\$	1,226
	C.4 Economies of Scale in New Construction	\$	-	\$	-	\$	-
PART D	General Contractor's Overhead and Profit	\$	-	\$	14,361	\$	14,361
	D.1 General Contractor's Home Office Overhead Costs	\$	-	\$	5,004	\$	5,004
	D.2 General Contractor's Insurance, Payment, and Performance Bonds	\$	-	\$	2,144	\$	2,144
	D.3 Contractor's Profit	\$	-	\$	7,213	\$	7,213
PART E	Cost Escalation Allowance	\$	-	\$	447	\$	447
PART F	Plan Review and Construction Permit Costs	\$	_	\$	2,000	\$	2,000
	F.1 Plan Review Fees	\$	-	\$	500	\$	500
	F.2 Construction Permit Fees	\$	-	\$	1,500	\$	1,500
PART G	Applicant's Reserve for Construction	\$	-	\$	5,725	\$	5,725
		•		<u> </u>	-,	·	-,
PART H	Applicant's Project Management and Design Costs	\$	488	\$	14,287	\$	14,775
	H.1 Applicant's Project Management - Design Phase	\$	-	\$	875	\$	875
	H.2 Architecture & Engineering Design Contract Costs	\$	-	\$	8,161	\$	8,161
	H.3 Project Management - Construction Phase	\$	488	\$	5,251	\$	5,739
	Complete Project Total for Completed and Uncompleted Work	\$	8,626	\$	101,802	\$	110,428