

PROJECT PROSPECTUS										
Part 1 - Project Request (Page 1 of 2)										
Key Number					Jurisdiction					
Region					Area			District		
North 8th Street Bridge <i>Bridge No 3</i>					2			5		5
State Highway No.		Project Name			Mile Post		Length (mi) (ft)			
					From		To 0.00			
<input checked="" type="checkbox"/> Urban	<input type="checkbox"/> Rural	City	MEO	<input checked="" type="checkbox"/> Within	<input type="checkbox"/> Outside	County	Road/Street Name			
		Springfield				Lane	8th Street			
Route No.		NHSN	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO	Applicant (If other than State)					
					City of Springfield					
US Congressional District			State Senate District			State Representative District				
Cost Estimates (x \$ 1,000)			Project Components				Right Of Way			
Preliminary Engineering		\$88	Grading	X	Files	(F)	2			
Right Of Way		\$20	Paving	X	Hectares	(H)	1			
Utility Reimbursement			Structures	X	Relocations	(R)	0			
			Signing		Acquisitions	(A)	2			
Roadway		\$44	Signals		Easements	(E)				
Structures		\$194	Illumination		Work By / State / Consultant / Applicant					
Signals		\$0			Preliminary Engineering	(PE)	C			
Illumination		\$0			Construction Engineering	(CE)	C			
Temp. Protection		\$6			Right Of Way Description	(RWD)	C			
Construction Services		\$74			Right Of Way Acquisition	(ROA)	C			
Const. Engineering		\$44	Project Categories					Constructed By		
Remove Existing Bridge		\$16	Environmental Class	(1-3, PCB)	4	<input checked="" type="checkbox"/> Contract	<input type="checkbox"/> County Force			
Other		\$36	Design Category	(A-F)	7	<input type="checkbox"/> State Force	<input type="checkbox"/> Other			
Total CE and Construction:		\$413	Work Type Code	(1-13)	5	<input type="checkbox"/> City Force				
Total Estimate:		\$ 501	Primary SHP Work Type:							
Recommended Let Date By Federal Fiscal Year (Quarter-Year):										
PE Fund:			RW Fund:			UR Fund:		CE-CN Fund:		
PE EA:			RW EA:			UR EA:		CE-CN EA:		
Item	Existing	Proposed	Define The Problem:							
Travel Lanes (N)	2	2	<p>The existing bridge is a 2 span prestressed slab bridge founded on timber substructure. The bridge is considered structurally deficient. The timber piles are very decayed and the timber caps are also very decayed with some crush beginning to show. The bridge rails are substandard and the roadway width is substandard.</p> <div style="border: 2px solid black; padding: 5px; text-align: center;"> <p>RECEIVED</p> <p>OCT 15 2003</p> <p>BRIDGE SECTION</p> </div>							
Structures (S)	1	1								
Signals (N)	0	0								
R/W (R)	0	0								
Average Daily Traffic	0	250								
Year of ADT	2003	N/A								
Throughway (YN)	Y	Y								
Describe Proposed Solution - Attach sketch map										
Construct a new precast prestressed single-span concrete bridge on the same alignment. Close the road during construction.										
Prepared By:			Date:		OTC Approval Date:		Program/Car:		Funding/Amount:	

PROJECT PROSPECTUS
 Part 1 Project Request (Page 2 of 2)

Location: North 6th Street Bridge	Region: 2	Year: 5	Jurisdiction:
-----------------------------------	-----------	---------	---------------

Project Justification:

The existing bridge substructure is in poor condition and needs extensive rehabilitation. The bridge rail and roadway width are substandard. The sufficiency rating is 47.4. The bridge has been deemed unsuitable for public use and is currently closed to all traffic, including emergency services. Occupants of an adjoining 125 unit apartment complex are thus relegated to one (1) access/egress which poses potential danger during a fire. Replacement of the bridge will allow the City to reopen this traffic corridor and ultimately reduce risk and liability.

Additional Information For Project Requested By Local Jurisdictions

Responsible Local Office To Be Contacted For The Following Activities:

- 1. Public Hearing / Citizen Involvement _____ (Office) _____ (Phone)
- 2. Environmental / Planning _____ (Office) _____ (Phone)
- 3. Pre-Engineering _____ (Office) _____ (Phone)

This Official Request is From:

City of: Springfield and/or _____ County: _____

By: _____ By: Al Peroutka - City Engineer

By: _____ By: Ed Black - Maintenance Manager

By: _____ By: Gayle Harley, PE - OBEC Engineers

Applicable Intergovernmental Agreements:

IGA Number	Jurisdiction Name	Agreement Date
_____	_____	_____
_____	_____	_____
_____	_____	_____

Administrative Recommendation

Bridge Prospectus Cost Estimate

Applicant		City of Springfield		NBIS		Bridge No.		3	
Project		North St. Over Bridge		Region		Area		District	
Section		North St. Over Bridge		2		5		5	
<u>New Bridge/Roadway Configuration</u>				<u>Existing Bridge</u>					
Left Side Rail	1.5 feet			Bridge Length	44 feet				
Left Sidewalk	5 feet			Bridge Width	28.2 feet				
Shoulder	2 feet			Area	1240.8 square ft.				
Lane 2	feet			New AC Top Width	28 feet				
Lane 1	12 feet			New AC Depth	4 inches				
---CL---	0 feet			New Base Depth	12 inches				
Lane 1	12 feet			Project Length	200 feet				
Lane 2	0 feet			New Road Work Length	150 feet				
Shoulder	2 feet			X-Section Slope	3 ft				
Right Sidewalk	feet			AC Avg Width	29 feet				
Right Side Rail	1.5 feet			Base Avg Width	33 feet				
Bridge Length	50 feet			Asphalt Density	150 pounds/cuft				
Bridge Width	36 feet			Base Density	120 pounds/cuft				
New Area	1800 square ft.			New AC Required	109 tons				
				New Base Required	297 tons				
COST ESTIMATE									
	Quantity	Unit	Price	Cost (\$x1000s)					
Right-of-Way	1	Acre	\$ 20,000	\$20					
==Roadway==									
Clear & Grub	\$ 5,088	lump sum		\$5					
General Excavation	295	cubic yards	\$ 12.00	\$4					
Embankment in Place		cubic yards	\$ 12.00	\$0					
Pavement Removal		square feet	\$ 0.45	\$0					
Aggregate Base	297	tons	\$ 16.00	\$5					
Asphalt Concrete	109	tons	\$ 56.00	\$6					
Riprap	196	cubic yards	\$ 50.00	\$10					
Guardrail, Type 2A		feet	\$ 11.50	\$0					
Guardrail, Type 3	50	feet	\$ 38.00	\$2					
Guardrail Trans	4	each	\$ 1,600.00	\$6					
Flared Terminals	4	each	\$ 1,600.00	\$6					
				Subtotal Roadway		\$44			
Structures	1,800	square feet	\$ 108.00	\$194					
Signals	\$ -	lump sum		\$0					
Illumination	\$ -	lump sum		\$0					
Temporary Protection	\$ 6,100	lump sum		\$5					
Remove Existing Bridge	1,241	square feet	\$ 13.00	\$16					
Mobilization	\$ 29,500	lump sum		\$30					
Erosion Ctrl / Restortation	\$ 5,000	lump sum		\$5					
Detour Bridge		square feet	\$ 25.00	\$0					
				Subtotal Structures		\$251			
				Subtotal Construction		\$295			
==Engineering==									
Construction Engineering	15	percent of construction		\$44					
Contingency	25	percent of construction		\$74					
				Subtotal Const Eng		\$118			
Preliminary Engineering				\$39					
Consultant	20	percent of construction		\$59					
State	1	percent of construction		\$3					
County	2	percent of construction		\$6					
				Subtotal PE		\$68			
				Total Estimate		\$507			

Bridge Project Prospectus Additional Bridge Information

Applicant: City of Springfield		NBS Bridge Number: 111					
Project Name/Section: North 6th Street Bridge		Region: 1	Area: 1				
Funding Preferred Source: <input checked="" type="checkbox"/> OTIA III <input type="checkbox"/> Federal HBRR Acceptable Source: <input checked="" type="checkbox"/> OTIA III <input type="checkbox"/> Federal HBRR	Heavy Vehicle Usage <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%; text-align: center;">Existing</td> <td style="width: 50%; text-align: center;">Proposed</td> </tr> <tr> <td style="text-align: center;">Truck AADT: <input type="text"/></td> <td style="text-align: center;">Truck AADT: <input type="text"/></td> </tr> </table> Fire Truck Usage: <input checked="" type="checkbox"/> YES, at least 25% of trips use bridge. <input type="checkbox"/> NO, Less than 25% of trips	Existing	Proposed	Truck AADT: <input type="text"/>	Truck AADT: <input type="text"/>	Detour Detour Route: Length: <input type="text" value="0.35"/> Map: (Please attach map)	
Existing	Proposed						
Truck AADT: <input type="text"/>	Truck AADT: <input type="text"/>						

Regional Freight Corridor Analysis:

Special Consideration:

The limited access/egress to the 125 unit apartment complex for emergency services vehicles (fire and ambulance) is the primary concern we wish to submit. If a fire were to break-out in the apartment complex, especially near the only traffic outlet at 5th Street, residents could potentially be trapped and loss of life and property may result. The permanent bridge closure also limits the Fire Department's ability to maneuver fire apparatus and coordinate fire and rescue strategies.