



19

CITY OF DANBURY
155 DEER HILL AVENUE
DANBURY, CONNECTICUT 06810

DENA DIORIO
DIRECTOR OF FINANCE

(203)797-4652
FAX: (203)796-1526

MEMORANDUM

TO: MARK D BOUGHTON VIA THE COMMON COUNCIL
FROM: DENA DIORIO *dena*
SUBJECT: ROSE HILL AVENUE BRIDGE
DATE: 2/27/2007

Attached please find a resolution allowing the City of Danbury Engineering Department to apply for and accept funding from the State of Connecticut Department of Transportation Local Bridge Program to fund the reconstruction of the Rose Hill Avenue Bridge. Also attached is a copy of the Supplemental Application. Total project cost is \$2,290,232 with a state grant of 31.14%(\$713,178) and loan request of \$500,000. The City share of this project is available in the 21st Century Public Improvement Bond.

Please contact my office with any questions.

19-1

RESOLUTION

CITY OF DANBURY, STATE OF CONNECTICUT

_____ A. D., 200_

RESOLVED by the Common Council of the City of Danbury:



Rose Hill Avenue over Still River – Bridge No. 04175

That Mark D. Boughton, Mayor of the City of Danbury, is hereby authorized to execute the LOCAL BRIDGE PROGRAM SUPPLEMENTAL APPLICATION on behalf of the City of Danbury for Rose Hill Avenue over Still River, Bridge No. 04175, together with such other documents as may be necessary for the accomplishment of the purposes thereof.



19-2

CITY OF DANBURY
155 DEER HILL AVENUE
DANBURY, CONNECTICUT 06810

ENGINEERING DEPARTMENT
(203) 797-4641
FAX (203) 796-1586

FARID L. KHOURI, P.E.
CITY ENGINEER

February 26, 2007

MEMO TO: Dena R. Diorio, Finance Director
FROM: Farid L. Khouri, P.E., City Engineer 
RE: **Rose Hill Avenue Bridge**
Local Bridge Program Supplemental Application
Project No. 01-24

The final plans and documents on the above noted project are ready to bid.

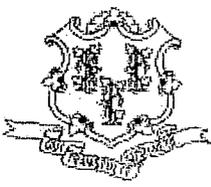
Enclosed please find a copy of the proposed Local Bridge Program Supplemental Application for funding of the reconstruction of the above noted bridge. The City's share of the funding required was included in the 21st Century Public Improvement Bond referendum.

Please note that Common Council approval is required to authorize Mayor Boughton to accept the State grant and sign this application for the project loan.

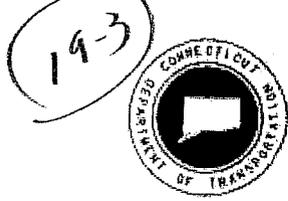
If you have any questions, please feel free to contact me.

Encl. (original application)

C: Mayor Mark D. Boughton
Antonio Iadarola, P.E.
Laszlo L. Pinter, with encl.



CONNECTICUT DEPARTMENT OF TRANSPORTATION



LOCAL BRIDGE PROGRAM SUPPLEMENTAL APPLICATION

SECTIONS 13a-175p through 13a-175u OF THE CONNECTICUT GENERAL STATUTES

Supplemental Application is hereby made by the Town/City/Borough of Danbury for consideration for funding under the provisions and regulations of the Local Bridge Program for Fiscal Year 2007 for the following structure:

Bridge Location: Danbury
Bridge Number: 04175 Sufficiency Rating:
Span Length (existing/proposed): 30 / 30 feet Width (existing/proposed): 50' / 50'

CT Professional Engineer Responsible for Project Design:

Name: Akram Ahmad, P.E.
Firm: AI Engineers, Inc.
License No.: PE20805 Telephone: (860) 635-7740 FAX: (860) 635-7312
Address: 919 Middle Street
City: Middletown State: CT 06457 Zip:

Municipal Information:

Name of Official to Contact: Farid L. Khouri, P.E., City Engineer
Mailing Address: City of Danbury, Engineering Department, 155 Deer Hill Avenue, Danbury, CT 06810
Telephone Number: (203) 797-4641 FAX: (203) 796-1586
E-Mail: f.khouri@ci.danbury.ct.us

Project Cost Data

Table with 2 columns: Preliminary (From Preliminary Application) and Updated. Rows include Preliminary Engineering Fees, Rights-of-Way Cost, Municipal Utility Relocation, Estimated Construction Costs, Construction Engineering, Contingencies, and Total Estimated Project Cost.

19-4

LOCAL BRIDGE PROGRAM
SUPPLEMENTAL APPLICATION

Existing Conditions: Attach detailed description of existing conditions, including Inspection Report & Engineer's Evaluation.

Scope of Proposed Project: Attach detailed description of the Project, including a description of the scope of the work, Final Plans, Specifications, Detailed Estimates & other pertinent data.

- Check List:**
- Plans
 - Specifications
 - Estimates
 - R.O.W. (if applicable)
 - Utilities (if applicable)
 - Permits: Local, State, Federal (if applicable)
 - Public Hearing Date
 - Disposition of Public Hearing _____

Financial Aid Data

Project Grant:

Municipalities allowable grant percentage 31.14 %

$$\begin{array}{rcl}
 \$ \underline{2,290,232.00} & \times & \underline{31.14} \\
 \text{(Total Project Cost)} & \text{(Grant \%)} & = \$ \underline{713,178.00} \\
 & & \text{(Total Grant Amount)}
 \end{array}$$

Project Loan (optional):

Total Eligible Project Cost \$ _____ x 50% = \$ 500,000.
 (Total Amount of Project Loan, 6% Interest, 10 Year Life, Payable Quarterly)

Project Schedule:

Final Design (Accepted by Municipalty)	<u>February 2007</u>
Right-of-Way (Acquisition Complete)	<u>February 2007</u>
Utilities (Coordination Completion)	February 2007
Public Hearing (Advertise)	<u>May 2006</u>
(Conducted)	<u>June 2006</u>
Construction Advertising	<u>May 2007</u>
Construction Contract Award	<u>July 2007</u>
Construction Start	<u>July 2007</u>
Construction Complete	<u>June 2008</u>
Audit Submittal	<u>Sept. 2008</u>

19-5

LOCAL BRIDGE PROGRAM
SUPPLEMENTAL APPLICATION

CERTIFICATIONS:

I, Mark D. Boughton, Mayor, duly authorized
name *title*
by the (Town, City, Borough) of Danbury as so signified by
the attached authorization, do certify and attest to the following:

1. Approval and acceptance of all plans, specifications and estimates. Any digressions from AASHTO and Connecticut Highway Design Manual guidelines have been made in accordance with P.A. 97-214.
2. That all R.O.W. activities associated with the project have been addressed or will be completed by the start of construction and, by a certified appraiser, that the purchase price of all properties being acquired represents the fair market value of such property.
3. That the Municipality owns or has the responsibility for maintaining the structure for which funding is sought and will be responsible for all future maintenance of the structure.
4. That all public and private utility relocations have been addressed.
5. That the design loading for the structure complies with the mandates of the Regulations for the Local Bridge Program.
6. That all permits, regulations, executive orders, etc. required from Federal, State, and Local entities have been obtained.
7. That this project complies with Section 25-68d of the Connecticut General Statutes, Flood Management Certification.
Yes No
If number 7 above is "No", that this project is exempt from Flood Management Certification (project within a drainage basin of less than one square mile).
Yes No
8. That the Public Hearing required under Section 13a-175t of the Connecticut General Statutes was held on _____. (*Attach copies of Legal Notice*)
9. That separate accounts have been established specifically for this project and all additions or disbursements will be made therefrom.

Signed _____ Date _____

Title _____

Municipal Seal

LOCAL BRIDGE PROGRAM
SUPPLEMENTAL APPLICATION

19-6

CERTIFICATIONS (continued)

Additional Certifications Required by a Connecticut Licensed Professional Engineer:

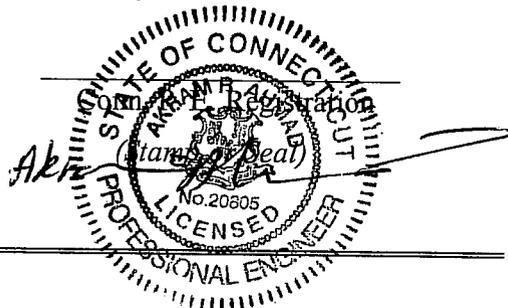
I, AKRAM AHMAD, do hereby certify:
name

1. That the design loading complies with the requirements of the program regulations.
2. That the completed structure will have a 20-year life.
3. That the design reflects the latest AASHTO Standard Specifications for Highway Bridges requirements for structures of that type, or previously agreed to digressions from those standards.
4. That the geometric design reflects the latest Connecticut Highway Design Manual requirements, or previously agreed to digressions from those standards

Signed Akram Ahmad

Date 12/28/06

Title CHIEF STRUCTURAL ENG.



By a Certified Appraiser: (If Applicable)

I, _____, hereby certify that the appraised property values reflect the current fair market value and are fair and reasonable.

Signed _____

Date _____

Title _____

Certification Number

19-7

Rose Hill Avenue Bridge over Still River
 Bridge No. 04175
 Highway Items with Bridge Subtotal
 FINAL DESIGN - Total Project Cost
 Danbury, CT

27-Dec-06

12/27/2006

Highway Items

Item No.	Description	Unit	Qty.	Unit Cost	Total Cost
1	Securing, Construction & Diamantle WSA	LS	1		
2	Unclassified Excavation	LS	1	\$90,000.00	\$90,000
3	Earth Excavation	CY	10	\$35.00	\$350
4	Channel Excavation Earth	CY	621	\$15.00	\$9,315
5	Removal of Granite Stone Curb	CY	5	\$15.00	\$75
6	Cut Concrete Sidewalk	LF	68	\$5.00	\$340
8	Cut Bituminous Type Concrete Pavement	LF	15	\$5.00	\$75
12	Trench Excavation (0-4' Deep)	CY	586	\$3.00	\$1,758
13	Trench Excavation (0-10' Deep)	CY	15	\$4.00	\$60
14	Rock in Trench Excavation (0-10' Deep)	CY	300	\$5.50	\$1,650
15	Abandon Drainage Structure	CY	30	\$50.00	\$1,500
16	Formation of Subgrade	EA	1	\$200.00	\$200
17	Processed Aggregate	SY	784	\$1.50	\$1,176
18	Subbase	Ton	167	\$24.00	\$4,008
20	Sedimentation Control System	CY	330	\$25.00	\$8,250
22	Granular Fill	LF	963	\$3.00	\$2,889
24	Temporary Pavement (\$1.50 for form subgrade, \$8.50 for Proc. Agg & \$10.00 for Bit Conc.)	CY	2	\$30.00	\$60
25	Bituminous Concrete Class 1	SY	262	\$20.00	\$5,240
27	Material for Tack Coat	Ton	181	\$75.00	\$13,575
28	Milling for Pavement Transition	GAL	118	\$4.00	\$472
29	Type C CB (4' Sump)	SY	101	\$10.00	\$1,010
30	Type C CB	EA	2	\$2,000.00	\$4,000
31	Type C CB Over 10' Dep	EA	1	\$1,400.00	\$1,400
32	Manhole	EA	1	\$2,500.00	\$2,500
33	Convert Type C-L CB to Type C CB	EA	2	\$2,500.00	\$5,000
34	Convert CB to Type C-L CB	EA	1	\$1,000.00	\$1,000
43	Bedding Material	EA	1	\$1,500.00	\$1,500
44	15" RCP	CY	27	\$11.00	\$297
45	24" RCP	LF	155	\$40.00	\$6,200
46	Remove Pipe	LF	80	\$55.00	\$4,400
47	Intermidiate Rip Rap	LF	24	\$5.00	\$120
53	Concrete Curbing	CY	3	\$75.00	\$225
54	TPCBC	LF	395	\$22.00	\$8,680
55	Relocate TPCBC	LF	300	\$10.00	\$3,000
60	Remove & Relocate Chain Link Fence	LF	500	\$5.00	\$2,500
61	Concrete Sidewalk	LF	95	\$80.00	\$7,600
62	Concrete Driveway Ramp	SF	3,591	\$10.00	\$35,910
63	Calcium Chloride for Dust Control	CY	24	\$350.00	\$8,400
64	Furnish & Place Topsoil	Ton	1	\$400.00	\$400
65	Turf Establishment	SY	1,490	\$2.50	\$3,725
66	Traffic Person	SY	1,490	\$7.00	\$10,430
67	M P & T	EST	15,000	\$1.00	\$15,000
69	Mobilization	LS	1	\$60,000.00	\$60,000
70	Barricade Warning Light - High Intensity	LS	1	\$70,000.00	\$70,000
71	Traffic Drum	DAY	10,200	\$1.00	\$10,200
72	Construction Barricade Type III	EA	15	\$80.00	\$1,200
73	Remove & Relocate Sign	EA	10	\$350.00	\$3,500
74	4" White Epoxy Resin Pav't Marking	EA	2	\$500.00	\$1,000
75	4" Yellow Epoxy Resin Pav't Marking	LF	781	\$1.50	\$1,172
76	Painted Pav't Marking 4" White	LF	781	\$1.50	\$1,172
77	Painted Pav't Marking 8" White	LF	151	\$1.00	\$151
78	Contaminated Groundwater Handling	LF	162	\$1.00	\$162
79	Contaminated Groundwater Handling - Treat	MGAL	20	\$400.00	\$8,000
80	Construction Signs Bright Fluorescent Sheeting	MGAL	20	\$2,500.00	\$50,000
82	Environmental Health & Safety	SF	476	\$18.00	\$8,568
83	Operation of Waste Stockpile and Treatment Area	LS	1	\$20,000.00	\$20,000
84	Hazardous Material Excavation	MO	10	\$2,000.00	\$20,000
85	Disposal of Controlled Materials	CY	8	\$45.00	\$360
86	Disposal of Hazardous Waste	Ton	1,400	\$65.00	\$91,000
87	Management of Re-Useable Controlled Materials	Ton	10	\$155.00	\$1,550
88	Controlled Material Handling	CY	870	\$40.00	\$34,800
90	Construction Staking	CY	1,740	\$15.00	\$26,100
92	Relocation of Water Mains	LS	1	\$20,000.00	\$20,000
93	Sanitary Sewer Reconstruction	LS	1	\$45,000.00	\$45,000
94	Construction Field Office (Type B)	LS	1	\$86,000.00	\$86,000
95	Test Pits and Sample Testing	MO	10	\$2,000.00	\$20,000
		LS	1	\$8,000.00	\$8,000
Subtotal:					\$852,235
Bridge Cost Estimate					\$841,150
Subtotal:					\$1,693,385
CONTINGENCY - 10%					\$169,338
TOTAL CONSTRUCTION COST:					\$1,862,724

19-8

Date: 12/27/2006

BRIDGE COST ESTIMATE

REPLACEMENT OF ROSE HILL AVENUE BRIDGE OVER STILL RIVER

Bridge No. 04175, City of Danbury

FINAL DESIGN - BRIDGE ITEMS

No.	ITEM	UNIT	QUANTITY	UNIT PRICE	TOTAL COST
7	SAW CUT CONCRETE	LF	12	\$ 10.00	\$ 120.00
9	STRUCTURE EXCAVATION-EARTH (COMPLETE)	CY	1936	\$ 35.00	\$ 67,760.00
10	STRUCTURE EXCAVATION-ROCK (COMPLETE)	CY	80	\$ 65.00	\$ 5,200.00
11	COFFERDAM AND DEWATERING	LF	220	\$ 225.00	\$ 49,500.00
19	PERVIOUS STRUCTURE BACKFILL	CY	1575	\$ 25.00	\$ 39,375.00
23	COMPACTED GRANULAR FILL	CY	65	\$ 35.00	\$ 2,275.00
25	BITUMINOUS CONCRETE, CLASS 1	TON	14	\$ 50.00	\$ 700.00
26	BITUMINOUS CONCRETE, CLASS 2	TON	14	\$ 50.00	\$ 700.00
35	PRESTRESSED DECK UNITS (3'-0" x 2'-0")	LF	32	\$ 240.00	\$ 7,680.00
36	PRESTRESSED DECK UNITS (4'-0" x 2'-0")	LF	284	\$ 240.00	\$ 68,160.00
37	ELASTOMERIC BEARING PADS	CI	5250	\$ 3.00	\$ 15,750.00
38	CLASS "A" CONCRETE	CY	571	\$ 600.00	\$ 342,600.00
39	CLASS "F" CONCRETE	CY	84	\$ 600.00	\$ 50,400.00
40	ASPHALTIC PLUG EXPANSION JOINT SYSTEM	LF	60	\$ 100.00	\$ 6,000.00
41	DEFORMED STEEL BARS	LB	26486	\$ 1.40	\$ 37,080.40
42	DEFORMED STEEL BARS - EPOXY COATED	LB	15920	\$ 1.50	\$ 23,880.00
48	MODIFIED RIPRAP	CY	90	\$ 60.00	\$ 5,400.00
49	MEMBRANE WATERPROOFING (WOVEN GLASS FABRIC)	SY	27	\$ 15.00	\$ 405.00
50	DAMPPOOFING	SY	100	\$ 20.00	\$ 2,000.00
51	TEMPORARY SHEET PILING	SF	3100	\$ 9.00	\$ 27,900.00
52	BAGGED STONE	CF	105	\$ 10.00	\$ 1,050.00
56	6" STRUCTURE UNDERDRAIN	LF	182	\$ 15.00	\$ 2,730.00
57	METAL BRIDGE RAIL - THREE RAIL (COMBINATION)	LF	63	\$ 120.00	\$ 7,560.00
58	4' CHAIN LINK FENCE	LF	211	\$ 25.00	\$ 5,275.00
59	6'-6" CHAIN LINK FENCE (BRIDGE)	LF	63	\$ 100.00	\$ 6,300.00
68	REMOVAL OF EXISTING MASONRY	CY	442	\$ 100.00	\$ 44,200.00
89	PERMANENT SUPPORT OF UTILITIES	LS	1	\$ 10,000.00	\$ 10,000.00
91	POLYVINYL CHLORIDE PLASTIC PIPE WEEPHOLE	EA	13	\$ 50.00	\$ 650.00
96	FLOWABLE CONCRETE FILL MATERIALS	CY	105	\$ 100.00	\$ 10,500.00
				SUB TOTAL	\$841,150.40
				TOTAL	\$841,150.40

ANTICIPATED FINAL COST FIGURES
REPLACEMENT OF ROSE HILL AVENUE BRIDGE OVER STILL RIVER
DATED DEC 27, 2006

ITEMS	Actual Cost	Allowable Cost
A. Preliminary Engineering Fees and Design <i>(Not to Exceed 15% of Construction Cost)</i>	\$215,704	\$238,598
B. Rights-of-Way Cost (If Applicable)	\$15,000	\$15,000
C. Municipally Owned Utility Relocation Cost	\$131,000	\$131,000
D. Estimated Construction Costs (Bridge, Highway, Environmental)	\$1,562,385	\$1,562,385
E. Construction Engineering (Inspection, Materials Testing) <i>(Not to Exceed 15% of Construction Cost)</i>	\$196,804	\$251,127
SUB TOTAL	\$2,120,893	\$2,198,110
F. Contingencies (10% of Construction Costs Only)	\$169,339	\$169,339
Total Estimated Project Cost	\$2,290,232	\$2,367,449
Estimated Grant Reimbursement <i>(31.140% of allowable total Project cost)</i>	\$713,178	
Estimated City Share	\$1,577,053	
**State Local Bridge Project Loan: (Maximum 50% of total project cost)	\$1,145,116	

Estimated cost for the bridge construction inspection:

The estimated length of construction is 10 months which include the start up and close out of inspection documentation. The Estimated cost includes one full time chief inspector for total project. The Estimated cost for the 10 Months is approximately \$196,804

19-10

RESOLUTION

Project Description:

Local Bridge Program
Rose Hill Avenue over Still River - Bridge No. 04175
City of Danbury

Be it RESOLVED, that , _____, _____
name title

of the City of Danbury is hereby authorized to sign the LOCAL BRIDGE PROGRAM
SUPPLEMENTAL APPLICATION on behalf of the CITY OF DANBURY for Rose Hill Avenue
over Still River, Bridge No. 04175.”

ADOPTED by the Common Council of the City of Danbury, Connecticut

on _____
(date)

(Municipal Seal)

Signature of Clerk

Date

19-11

Rose Hill Avenue Bridge Proposed Replacement
Public Information Meeting
Tuesday, June 6, 2006
6:00 – 7:08 p.m.
Conference Room 3C
Danbury City Hall

Attendees: Lynn Waller; Reed & Margaret Mitchell; Farid L. Khouri, P.E., and Tom Hughes from the Engineering Department, City of Danbury.

Comments/Issues:

- Safety of Pedestrian Traffic/Pedestrian Traffic Detour
- Detouring of Vehicles
- Detour Signage in Spanish
- Vehicular Traffic Cutting through Young Property
- Storage of Contaminated Soil
- Vertical & Horizontal Alignment of New Road Construction (Touch Downs)
- Length of Project and Noise Levels
- Working Hours/Will Weekend Work be Allowed?
- Construction Site Safety Fencing, etc.
- Width of New Structure to Not Restrict Flow
- Will Flow be Restricted During Construction?
- Have all Permits/Approvals been Obtained (DEP, EIC, Army Corps)?

19-12

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Legal Notices	
2006-05-31	2006-05-31

LEGAL NOTICE
 A Public Information Meeting will be held on Tuesday, June 6, 2006 at the Danbury City Hall, Conference Room 3C, 6:00 p.m., 155 Deer Hill Avenue, Danbury, Connecticut for the purpose of soliciting public comment on the proposed Replacement of the Rose Hill Avenue Bridge. Plans are available for public inspection in the Engineering Department at City Hall during regular business hours. All interested parties are invited to attend.

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19-13

LEGAL NOTICE

A Public Information Meeting will be held on Tuesday, June 6, 2006 at the Danbury City Hall, Conference Room 3C, 6:00 p.m., 155 Deer Hill Avenue, Danbury, Connecticut for the purpose of soliciting public comment on the proposed Replacement of the Rose Hill Avenue Bridge. Plans are available for public inspection in the Engineering Department at City Hall during regular business hours. All interested parties are invited to attend.