

PROJECT BUDGET FILE

BUILD Grant Request:	\$25,000,000
Other federal funds:	\$ 4,200,000
<u>Non-federal match:</u>	<u>\$10,780,340 (27%)</u>
Total Project Cost:	\$39,980,340

The Town of East Spencer is requesting \$25 million in BUILD construction grant funds to develop environmental documentation, finalize right of way (ROW) acquisition and construct the I-85/SR 2114 interchange in East Spencer, North Carolina. The total project cost is anticipated to be \$39,980,340. Costs are broken out as per specifications in the Notice of Funding Opportunity (NOFO) in the tables below.

Table 1: Budget Overview

Funding Source	Preliminary Engineering	ROW Acquisition	Utility Relocation	Construction	Total Funding
BUILD funds	\$0	\$1,800,000	\$515,000	\$22,685,000	\$25,000,000
Other federal funds (Surface Transportation Block Grant)	\$4,200,000				\$4,200,000
Non-federal funds Town of East Spencer Loan: Town of East Spencer Capital Funds: NC Legislative Grant:				\$10,780,340 \$ 800,000 \$4,980,340 \$5,000,000	\$10,780,340
Total Project Cost	\$4,200,000	\$1,800,000	\$515,000	\$33,465,340	\$39,980,340

Table 2: Cost Per 2020 Census Tracts

2020 Census Tracts	Project Costs Per Census Tract
Rowan 508	\$39,980,340
Total Project Cost: \$39,980,340	

Table 3: Cost Per 2010 Census Tracts

2010 Census Tracts	Project Costs Per Census Tract
Rowan 508	\$39,980,340
Total Project Cost: \$39,980,340	

Table 4: Urban vs. Rural Costs

Urban and Rural	Project Costs
Urban (2020 Census-designated urban area with a population greater than 200,000)	\$13,193,512
Rural (Located outside of a 2020 Census-designated urban area with a population greater than 200,000)	\$26,786,828
Total Project Cost: \$39,980,340	

Table 5: Construction Cost Estimate

Description	Quantity	Unit	Price/Unit	Amount
Clearing and Grubbing	24.0	Acre	\$50,000.00	\$ 1,200,000
Unclassified Excavation	332,980	CY	\$8.50	\$ 2,830,330
Drainage - 4-Lane Divided, Shoulder	4.00	Miles	850,000.00	\$3,400,000
Fine Grading	51,780	SY	\$2.75	\$142,395
Subgrade Stabilization	53,960	SY	\$12.00	\$647,520
-L- Concrete Pavement, Widening	11,185	SY	\$152.00	\$1,700,120
-Y1- Asphalt Pavement, Wedging/Resurfacing	6,000	SY	\$37.00	\$222,000
-Y1- Asphalt Pavement, Widening	3,870	SY	\$80.00	\$309,600
-Y2- Asphalt Pavement, Wedging/Resurfacing	2,330	SY	\$37.00	\$86,210
-Y2- Asphalt Pavement, Widening	720	SY	\$80.00	\$57,600
-Y1RPA- Asphalt Pavement, Full Depth	3,510	SY	\$68.00	\$238,680
-Y1RPB- Asphalt Pavement, Full Depth	3,340	SY	\$68.00	\$227,120
-Y1RPC- Asphalt Pavement, Full Depth	7,325	SY	\$68.00	\$498,100
-Y1LPC- Asphalt Pavement, Full Depth	3,900	SY	\$68.00	\$265,200
2'-6" Concrete Curb & Gutter	1,710	LF	\$30.00	\$51,300
5" Monolithic Concrete Islands	990	SY	\$82.00	\$81,180
Precast Reinforced Concrete Barrier, Single Faced	440	LF	\$105.00	\$46,200
Steel Beam Guardrail	325	LF	\$27.00	\$8,775
Guardrail Anchor Units, Type B-77	4	Each	\$2,950.00	\$11,800
Guardrail Anchor Units, Type TL-3	4	Each	\$3,600.00	\$14,400
Remove Existing Guardrail	620	LF	\$1.50	\$930
Erosion Control	67	Acre	\$60,000.00	\$4,020,000
Pavement Markings - Thermo and Markers				
-L-	1.00	Miles	115,000.00	\$115,000
-Y1-	0.42	Miles	\$35,000.00	\$14,700
-Y1RPA-	0.98	Miles	\$32,000.00	\$31,360
-Y1RPB-	0.48	Miles	\$30,000.00	\$14,400
-Y1RPC-	0.65	Miles	\$32,000.00	\$20,800
-Y1LPC-	0.32	Miles	\$20,000.00	\$6,400
-Y2-	0.16	Miles	\$35,000.00	\$5,600
Traffic Control - Interchange	1.00	LS	\$400,000.00	\$400,000
Structures				
-L- over I-40 Single Span Widening (110' x 13.5')	1,485	SF	\$250.00	\$371,250
-L- Concrete Approach Slabs (2 @ 25' x 13.5')	675	SF	\$50.00	\$33,750
Utility Construction				
Utility Construction (per Utility Unit, 6/13/2023)	1	LS	\$17,300.00	\$17,300
Misc. & Mob (15% Structures & Utilities)	1	LS	\$63,400.00	\$63,400
Misc. & Mob (45% Functional)	1	LS	\$7,500,580	\$7,500,580
Contract Cost				\$24,654,000
Inflation (5 percent per year 2023 to 2025)				\$2,465,400
E. & C. 23.4%				\$6,345,940
Construction Cost				\$33,465,340

Budget Narrative

Funding Sources

Non-federal funding. In addition to the BUILD grant, the Town of East Spencer will secure non-federal matching funding in the amount of \$10,980,340 (a match of 27 percent) from the following sources:

1. Town of East Spencer Capital Account: \$ 4,980,340
2. Town of East Spencer Loan: \$ 800,000
3. State of North Carolina Legislative Grant: \$ 5,000,000
4. **TOTAL NON-FEDERAL FUNDS: \$10,780,340**

A letter attesting to the availability of readily available and unencumbered matching funds is attached to this application.

Other federal funding. In addition, the Cabarrus Rowan Urban Area Metropolitan Planning Organization (CRMPO) has committed to providing \$4,200,000 in federal pass-through funding from the Surface Transportation Block Grant Program for the project's preliminary engineering activities (the request letter is attached to the Funding Commitment Documentation file).

Contingency Amount and Plan

Project concept designs were developed in 2023 and are provided in the supplemental materials. Cost estimates initially included a 17 percent contingency per standard North Carolina Department of Transportation (NCDOT) cost estimation protocols. Because the estimate is more than one year old, the estimate was updated for inflation. To ensure delivery, the contingency amount was increased to 23.4 percent. NCDOT policy is to anticipate an annual inflation rate of 5 percent, resulting in an estimated construction cost of \$33,465,340. NCDOT will oversee construction work and has developed cost containment measures. These include a Cost Containment Planning Checklist and a Cost Containment Worksheet. Both forms are included in the supplemental materials.

Level of Design

Current cost estimates are based on conceptual designs (roughly 15 percent plans) that were completed in 2023. These designs are based on existing aerial photography. Once BUILD funding is secured, 60 percent plans will be developed to complete the environmental document and right of way (ROW) determinations.

Cost Estimates

Quantities for cost estimates were developed by the NCDOT Feasibility Studies Unit (FSU) project consultant. Based on these quantities, NCDOT developed cost estimates for construction, utilities and ROW.

Cost Share

Despite its eligibility for 100 percent federal funding because: (1) the project is primarily in a rural location; and (2) the project is located in a designated Area of Persistent Poverty(AoPP)/Historically Disadvantaged Community (HDC), the Town of East Spencer is demonstrating a significant local commitment of non-federal funds in the amount of \$14,980,340, which is 37 percent of the total

project cost. In addition, the Town of East Spencer has begun discussions to file a Letter of Interest with DOT's Build America Bureau for a \$5 million TIFIA direct loan instrument, which would be added to the project's funding portfolio.