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# *Appendix D: Cost Estimate Analysis*

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# Conceptual Estimate

**Alternative B1**

County: Wake

Route: CVA  
 From: Creedmoor Rd. to Glenwood Rd.  
 Typical Section: 3 lane, curb & gutter

<b>CONSTR. COST</b>
<b>\$21,400,000</b>

Prepared By: Louis Berger Group  
 Requested By: City of Raleigh

Description	Quantity	Unit	Unit Price	Amount
Right of Way	1	LS	\$ 2,000,000.00	\$ 2,000,000.00
<b>Paving</b>				
New Pavement				
-Widening along Glenwood Ave.	11,147	SF	\$ 20.00	\$ 222,940.00
-From bridge to Creedmoor Rd.	41,481	SF	\$ 20.00	\$ 829,620.00
<b>Signing</b>				
New Traffic Signal	1	Each	\$ 200,000.00	\$ 200,000.00
-Creedmoor Rd. & CVA				
Remove Traffic Signal	1	Each	\$ 50,000.00	\$ 50,000.00
-Creedmoor Rd. & Crabtree Valley Mall				
<b>Structures</b>				
Bridge				
-Glenwood Ave. to Creedmoor Rd.	93,039	SF	\$ 150.00	\$ 13,955,850.00
Retaining Wall				
-Along WB Glenwood Ave. 400' L 12' Av. Height	2,400	SF	\$ 50.00	\$ 120,000.00
-Along EB Glenwood Ave. 301' L 12' Av. Height	1,806			
Traffic Control	1	LS	\$ 400,000.00	\$ 400,000.00
Utilities	1	LS	\$ 600,000.00	\$ 600,000.00

<b>Contract Cost</b> .....	\$ 15,800,000.00
<b>E. &amp; C. 15%</b> .....	\$ 2,400,000.00
<b>Misc. &amp; Mobilization 20%</b> .....	\$ 3,200,000.00
<b>Construction Cost</b> .....	<b>\$ 21,400,000.00</b>

# Conceptual Estimate

**Alternative B2**

County: Wake

Route: CVA

From: Blue Ridge Rd. to Creedmoor Rd.

Typical Section: 4 lane, curb & gutter with raised median

<b>CONSTR. COST</b>
<b>\$7,900,000</b>

Prepared By: Louis Berger Group

Requested By: City of Raleigh

Description	Quantity	Unit	Unit Price	Amount
Right of Way	1	LS	\$ 400,000.00	\$ 400,000.00
<b>Paving</b>				
New Pavement				
-CVA to Blue Ridge Rd.	228,940	SF	\$ 20.00	\$ 4,578,800.00
<b>Signal</b>				
New Traffic Signal	3	Each	\$ 200,000.00	\$ 600,000.00
-CVA & Blue Ridge Rd.				
-Creedmoor Rd. & CVA				
-Homewood Banks Dr. & CVA				
Traffic Control	1	LS	\$ 200,000.00	\$ 200,000.00
Utilities	1	LS	\$ 250,000.00	\$ 250,000.00

<b>Contract Cost</b> .....		\$	5,800,000.00
<b>E. &amp; C. 15%</b> .....		\$	900,000.00
<b>Misc. &amp; Mobilization 20%</b> .....		\$	1,200,000.00
<b>Construction Cost</b>		<b>\$</b>	<b>7,900,000.00</b>

# Conceptual Estimate

**Alternative B4**

County: Wake

Route: CVA

From: Blue Ridge Rd. to Creedmoor Rd.

Typical Section: 4 lane, curb & gutter with raised median

<b>CONSTR. COST</b>
<b>\$10,000,000</b>

Prepared By: Louis Berger Group

Requested By: City of Raleigh

Description	Quantity	Unit	Unit Price	Amount
Right of Way	1	LS	\$ 100,000.00	\$ 100,000.00
<b><u>Paving</u></b>				
New Pavement				
-From proposed bridge to Creedmoor Rd.	326,146	SF	\$ 20.00	\$ 6,522,920.00
Pavement Removal				
-Old CVA	69,349	SF	\$ 0.56	\$ 38,527.00
<b><u>Signaling</u></b>				
New Traffic Signal	3	Each	\$ 200,000.00	\$ 600,000.00
-Homewood Banks Dr. & CVA				
-Creedmoor Rd. & CVA				
-Blue Ridge Rd. & CVA				
Traffic Control	1	LS	\$ 200,000.00	\$ 200,000.00
Utilities	1	LS	\$ 250,000.00	\$ 250,000.00

<b>Contract Cost</b> .....	\$ 7,400,000.00
<b>E. &amp; C. 15%</b> .....	\$ 1,100,000.00
<b>Misc. &amp; Mobilization 20%</b> .....	\$ 1,500,000.00
<b>Construction Cost</b> .....	<b>\$ 10,000,000.00</b>

# Conceptual Estimate

Alternative A1

County: Wake

Route: Varies  
 From: Blue Ridge Rd. to I-440  
 Typical Section: Varies

<b>CONSTR. COST</b>
<b>\$29,500,000</b>

Prepared By: Louis Berger Group  
 Requested By: City of Raleigh

Description	Quantity	Unit	Unit Price	Amount
Right of Way	1	LS	\$ 650,000.00	\$ 650,000.00
<b>Paving</b>				
New Pavement	521,118	SF	\$ 20.00	\$ 10,422,360.00
Pavement Removal	73,486	SF	\$ 0.56	\$ 40,826.00
<b>Signals</b>				
New Traffic Signal	2	Each	\$ 200,000.00	\$ 400,000.00
-Glenwood Ave. & I440 off/on ramp				
-Homewood Banks & CVA				
Add/remove Traffic Signal	1	Each	\$ 250,000.00	\$ 250,000.00
-CVA at Blue Ridge Rd.				
<b>Signs</b>				
Ground Mounted Signs	1	LS	\$ 300,000.00	\$ 300,000.00
Overhead Signs	10	Each	\$ 150,000.00	\$ 1,500,000.00
<b>Structures</b>				
<b>Bridge</b>				
-Widening- WB I-440 over Glenwood Ave.	7,849	SF	\$ 150.00	\$ 1,177,350.00
-CVA over I-440	9,412	SF	\$ 150.00	\$ 1,411,800.00
-WB I-440 to CVA	1,558	SF	\$ 150.00	\$ 233,700.00
-CVA over Arrow Dr.	4,557	SF	\$ 150.00	\$ 683,550.00
-Bridge extension on Arrow Dr.	8,573	SF	\$ 150.00	\$ 1,285,950.00
-Widening- Mall Entrance	1,728	SF	\$ 150.00	\$ 259,200.00
<b>Bridge Removal</b>				
-Over I-440	11,803	SF	\$ 30.00	\$ 354,090.00
<b>Retaining Wall</b>				
- CVA Ext. lt./rt. 427' L 12' Av. Height	2,562	SF	\$ 50.00	\$ 128,100.00
-CVA to I-440 WB 2261' L 10' Av. Height	22,610	SF	\$ 50.00	\$ 1,130,500.00
-WB I-440 to CVA 293' L 10' Av. Height	2,930	SF	\$ 50.00	\$ 146,500.00
-Glenwood Ave. to I-440 709' L 10' Av. Height	7,090	SF	\$ 50.00	\$ 354,500.00
Traffic Control	1	LS	\$ 750,000.00	\$ 750,000.00
Utilites	1	LS	\$ 300,000.00	\$ 300,000.00

<b>Contract Cost</b> .....	\$ 21,800,000.00
<b>E. &amp; C. 15%</b> .....	\$ 3,300,000.00
<b>Misc. &amp; Mobilization 20%</b> .....	\$ 4,400,000.00
<b>Construction Cost</b> .....	<b>\$ 29,500,000.00</b>

# Conceptual Estimate

Route: Varies  
 From: Blue Ridge Rd. to I-440  
 Typical Section: Varies

**Alternative A3**

County: Wake

<b>CONSTR. COST</b>
<b>\$44,300,000</b>

Prepared By: Louis Berger Group  
 Requested By: City of Raleigh

Description	Quantity	Unit	Unit Price	Amount
Right of Way	1	LS	\$ 900,000.00	\$ 900,000.00
<b>Paving</b>				
New Pavement	714,351	SF	\$ 20.00	\$ 14,287,020.00
Pavement Removal	71,699	SF	\$ 0.56	\$ 39,833.00
<b>Signing</b>				
New Traffic Signal	2	Each	\$ 200,000.00	\$ 400,000.00
-Glenwood Ave. & I-440 off/on ramp				
-Homewood Banks & CVA				
Add/remove Traffic Signal	1	Each	\$ 250,000.00	\$ 250,000.00
-CVA at Blue Ridge Rd.				
<b>Signs</b>				
Ground Mounted Signs	1	LS	\$ 400,000.00	\$ 400,000.00
Overhead Signs	15	Each	\$ 150,000.00	\$ 2,250,000.00
<b>Structures</b>				
<b>Bridge</b>				
- Loop-Blue Ridge Rd./CVA	12,815	SF	\$ 150.00	\$ 1,922,250.00
-CVA over Blue Ridge	25,709	SF	\$ 150.00	\$ 3,856,350.00
-CVA over Arrow Dr.	3,470	SF	\$ 150.00	\$ 520,500.00
-CVA over I-440	16,523	SF	\$ 150.00	\$ 2,478,450.00
-CVA over Ridge Rd.	3,104	SF	\$ 150.00	\$ 465,600.00
-WB I-440 to CVA	1,558	SF	\$ 150.00	\$ 233,700.00
-Widening- WB I-440 over Glenwood Ave.	7,849	SF	\$ 150.00	\$ 1,177,350.00
-Widening- Mall Entrance Bridge	1,728	SF	\$ 150.00	\$ 259,200.00
<b>Bridge Removal</b>				
-Over I-440	11,803	SF	\$ 30.00	\$ 354,090.00
<b>Retaining Wall</b>				
-CVA Ext. lt./rt. 1264' L 12' Av. Height (before loop)	7,584	SF	\$ 50.00	\$ 379,200.00
-CVA Ext. lt./rt. 673' L 10' Av. Height (after loop)	6,730	SF	\$ 50.00	\$ 336,500.00
-WB I-440 to CVA 306' L 10' Av. Height	3,060	SF	\$ 50.00	\$ 153,000.00
-CVA to WB I-440 2261' L 10' Av. Height	22,610	SF	\$ 50.00	\$ 1,130,500.00
Traffic Control	1	LS	\$ 750,000.00	\$ 750,000.00
Utilities	1	LS	\$ 300,000.00	\$ 300,000.00

<b>Contract Cost</b> .....	\$ 32,800,000.00
<b>E. &amp; C. 15%</b> .....	\$ 4,900,000.00
<b>Misc. &amp; Mobilization 20%</b> .....	\$ 6,600,000.00
<b>Construction Cost</b> .....	<b>\$ 44,300,000.00</b>

# Conceptual Estimate

Route: Varies  
 From: I-440 to Blue Ridge Rd.  
 Typical Section: Varies

**Iternative A3-B**

County: Wake

<b>CONSTR. COST</b>
<b>\$40,100,000</b>

Prepared By: Louis Berger Group  
 Requested By: City of Raleigh

Description	Quantity	Unit	Unit Price	Amount
Right of Way	1	LS	\$ 1,600,000.00	\$ 1,600,000.00
<b><u>Paving</u></b>				
New Pavement	653,996	SF	\$ 20.00	\$ 13,079,920.00
Pavement Removal	56,222	SF	\$ 0.56	\$ 31,234.00
<b><u>Signing</u></b>				
New Traffic Signal	2	Each	\$ 200,000.00	\$ 400,000.00
-Glenwood Ave. & I-440 off/on ramp				
-Homewood Banks Rd. & CVA				
Add/remove Traffic Signal	1	Each	\$ 250,000.00	\$ 250,000.00
-CVA at Blue Ridge Rd.				
<b><u>Signs</u></b>				
Ground Mounted Signs	1	LS	\$ 400,000.00	\$ 400,000.00
Overhead Signs	15	Each	\$ 150,000.00	\$ 2,250,000.00
<b><u>Structures</u></b>				
<b>Bridge</b>				
- Loop-Blue Ridge Rd./CVA	12,815	SF	\$ 150.00	\$ 1,922,250.00
-CVA over Blue Ridge	25,709	SF	\$ 150.00	\$ 3,856,350.00
-CVA over Arrow Dr.	3,470	SF	\$ 150.00	\$ 520,500.00
-CVA over I-440	12,922	SF	\$ 150.00	\$ 1,938,300.00
-Widening of Mall Entrance Bridge	1,728	SF	\$ 150.00	\$ 259,200.00
-WB I-440 to CVA	1,558	SF	\$ 150.00	\$ 233,700.00
-CVA over Ridge Rd.	2,721	SF	\$ 150.00	\$ 408,150.00
-Widening- WB I-440 over Glenwood Ave.	7,849	SF	\$ 150.00	\$ 1,177,350.00
<b>Bridge Removal</b>				
-Over I-440	11,803	SF	\$ 30.00	\$ 354,090.00
<b>Retaining Wall</b>				
-CVA Ext. It./rt. 1264' L 12' Av. Height (before loop)	7,584	SF	\$ 50.00	\$ 379,200.00
-CVA Ext. It./rt. 673' L 10' Av. Height (after loop)	6,730	SF	\$ 50.00	\$ 336,500.00
-WB I-440 to CVA 305' L 10' Av. Height	3,050	SF	\$ 50.00	\$ 152,500.00
-CVA to WB I-440 1979' L 10' Av. Height	19,790	SF	\$ 50.00	\$ 989,500.00
Traffic Control	1	LS	\$ 750,000.00	\$ 750,000.00
Utilites	1	LS	\$ 300,000.00	\$ 300,000.00

<b>Contract Cost</b> .....	\$ 29,700,000.00
<b>E. &amp; C. 15%</b> .....	\$ 4,500,000.00
<b>Misc. &amp; Mobilization</b> .....	\$ 5,900,000.00
<b>Construction Cost</b> .....	<b>\$ 40,100,000.00</b>

# Conceptual Estimate

Route: Varies  
 From: Blue Ridge Rd. to I-440  
 Typical Section: Varies

**Alternative A4**

County: Wake

<b>CONSTR. COST</b>
<b>\$65,700,000</b>

Prepared By: Louis Berger Group  
 Requested By: City of Raleigh

Description	Quantity	Unit	Unit Price	Amount
Right of Way	1	LS	\$ 1,250,000.00	\$ 1,250,000.00
<b>Paving</b>				
New Pavement	663,295	SF	\$ 20.00	\$ 13,265,900.00
Pavement Removal	64,682	SF	\$ 0.56	\$ 35,934.00
<b>Signals</b>				
New Traffic Signal	3	Each	\$ 200,000.00	\$ 600,000.00
-Glenwood Ave. & I440 off/on ramp				
-Lead Mine Rd & Glenwood Ave.				
-CVA & Homewood Banks Rd.				
Add/remove Traffic Signal	1	Each	\$ 250,000.00	\$ 250,000.00
-CVA at Blue Ridge Rd.				
<b>Signs</b>				
Ground Mounted Signs	1	LS	\$ 400,000.00	\$ 400,000.00
Overhead Signs	15	Each	\$ 150,000.00	\$ 2,250,000.00
<b>Structures</b>				
<b>Bridge</b>				
-Widening of Mall Entrance Bridge	1,728	SF	\$ 150.00	\$ 259,200.00
-Loop-Blue Ridge Rd./CVA	12,815	SF	\$ 150.00	\$ 1,922,250.00
-CVA over Blue Ridge	25,709	SF	\$ 150.00	\$ 3,856,350.00
-CVA over Arrow Dr.	3,470	SF	\$ 150.00	\$ 520,500.00
-CVA over I-440	16,523	SF	\$ 150.00	\$ 2,478,450.00
-WB I-440 to CVA	1,558	SF	\$ 150.00	\$ 233,700.00
-CVA over Ridge Rd.	3,104	SF	\$ 150.00	\$ 465,600.00
-Widening- WB I-440 over Glenwood Ave.	7,849	SF	\$ 150.00	\$ 1,177,350.00
-Flyover 1 - Lead Mine Rd. to I-440	69,826	SF	\$ 150.00	\$ 10,473,900.00
-Flyover 2 - Lead Mine Rd. to I-440	10,184	SF	\$ 150.00	\$ 1,527,600.00
-Flyover 3 - Lead Mine Rd. to I-440	8,893	SF	\$ 150.00	\$ 1,333,950.00
-Flyover - Lead Mine to Glenwood Ave.	8,208	SF	\$ 150.00	\$ 1,231,200.00
<b>Bridge Removal</b>				
-Over I-440	11,803	SF	\$ 30.00	\$ 354,090.00
<b>Retaining Wall</b>				
-CVA Ext. It./rt. 1264' L 12' Av. Height (before loop)	7,584	SF	\$ 50.00	\$ 379,200.00
-CVA Ext. It./rt. 676' L 10' Av. Height (after loop)	6,760	SF	\$ 50.00	\$ 338,000.00
-WB I-440 to CVA 309' L 10' Av. Height	3,090	SF	\$ 50.00	\$ 154,500.00
-CVA toWB I-440 2248' L 10' Av. Height	22,480	SF	\$ 50.00	\$ 1,124,000.00
-Flyover 1- Lead Mine Rd. It./rt. 428' L 12' Av. Height	2,568	SF	\$ 50.00	\$ 128,400.00
-Flyover 2- Lead Mine Rd. It./rt. 418' L 10' Av. Height	4,180	SF	\$ 50.00	\$ 209,000.00
-Flyover 3- Lead Mine Rd. It./rt. 652' L 10' Av. Height	6,520	SF	\$ 50.00	\$ 326,000.00
-Flyover 1- WB I-440 It. 805' L 10' Av. Height	8,050	SF	\$ 50.00	\$ 402,500.00
Traffic Control	1	LS	\$ 1,000,000.00	\$ 1,000,000.00
Utilities	1	LS	\$ 750,000.00	\$ 750,000.00

<b>Contract Cost</b> .....	\$ 48,700,000.00
<b>E. &amp; C. 15%</b> .....	\$ 7,300,000.00
<b>Misc. &amp; Mobilization 20%</b> .....	\$ 9,700,000.00
<b>Construction Cost</b> .....	<b>\$ 65,700,000.00</b>



# Conceptual Estimate

Route: Varies  
 From: Blue Ridge to I-440  
 Typical Section: Varies

**Iternative A4-B**

County: Wake

<b>CONSTR. COST</b>
<b>\$52,800,000</b>

Prepared By: Louis Berger Group  
 Requested By: City of Raleigh

Description	Quantity	Unit	Unit Price	Amount
Right of Way	1	LS	\$ 1,500,000.00	\$ 1,500,000.00
<b>Paving</b>				
New Pavement	743,710	SF	\$ 20.00	\$ 14,874,200.00
Pavement Removal	78,346	SF	\$ 0.56	\$ 43,526.00
<b>Signing</b>				
New Traffic Signal	3	Each	\$ 200,000.00	\$ 600,000.00
-Glenwood Ave. & I440 off/on ramp				
-Lead Mine Rd. & Glenwood Ave.				
-CVA & Homewood Banks Rd.				
Add/remove Traffic Signal	1	Each	\$ 250,000.00	\$ 250,000.00
-CVA at Blue Ridge Rd.				
<b>Signs</b>				
Ground Mounted Signs	1	LS	\$ 400,000.00	\$ 400,000.00
Overhead Signs	15	Each	\$ 150,000.00	\$ 2,250,000.00
Traffic Control	1	LS	\$ 1,200,000.00	\$ 1,200,000.00
<b>Structures</b>				
<b>Bridge</b>				
-Widening of Mall Entrance Bridge	1,728	SF	\$ 150.00	\$ 259,200.00
- Loop-Blue Ridge Rd./CVA	12,815	SF	\$ 150.00	\$ 1,922,250.00
-CVA over Blue Ridge	25,709	SF	\$ 150.00	\$ 3,856,350.00
-CVA over Arrow Dr.	3,470	SF	\$ 150.00	\$ 520,500.00
-CVA over I-440	16,523	SF	\$ 150.00	\$ 2,478,450.00
-CVA over Ridge Rd.	3,104	SF	\$ 150.00	\$ 465,600.00
-WB I-440 to CVA	1,558	SF	\$ 150.00	\$ 233,700.00
-Widening- WB I-440 over Glenwood Ave.	7,849	SF	\$ 150.00	\$ 1,177,350.00
- Lead Mine Bridge	20,661	SF	\$ 150.00	\$ 3,099,150.00
<b>Bridge Removal</b>				
-Over I-440	11,803	SF	\$ 30.00	\$ 354,090.00
<b>Retaining Wall</b>				
-CVA Ext. It./rt. 1264' L 12' Av. Height (before loop)	7,584	SF	\$ 50.00	\$ 379,200.00
-CVA Ext. It./rt. 676' L 10' Av. Height (after loop)	6,760	SF	\$ 50.00	\$ 338,000.00
-I-440 WB to CVA 309' L 10' Av. Height	3,090	SF	\$ 50.00	\$ 154,500.00
-CVA to I-440 WB 2251' L 10' Av. Height	22,510	SF	\$ 50.00	\$ 1,125,500.00
-Lead Mine Rd. 1 - It./rt. 440' L 12' Av. Height	2,640	SF	\$ 50.00	\$ 132,000.00
-Lead Mine Rd. 1 - It./rt. 1422' L 12' Av. Height	8,532	SF	\$ 50.00	\$ 426,600.00
-Glenwood Ave. to I-440 550' L 10' Av. Height	5,500	SF	\$ 50.00	\$ 275,000.00
Utilities	1	LS	\$ 750,000.00	\$ 750,000.00

<b>Contract Cost</b> .....	\$ 39,100,000.00
<b>E. &amp; C. 15%</b> .....	\$ 5,900,000.00
<b>Misc. &amp; Mobilization 20%</b> .....	\$ 7,800,000.00
<b>Construction Cost</b> .....	<b>\$ 52,800,000.00</b>

# Conceptual Estimate

Alternative CR

County: Wake

Route: Glenwood Ave.  
 From: Morhead Dr. to Brookhaven Dr.  
 Typical Section: 8 lanes, partially elevated

<b>CONSTR. COST</b>
<b>\$26,100,000</b>

Prepared By: Louis Berger Group  
 Requested By: City of Raleigh

Description	Quantity	Unit	Unit Price	Amount
Right of Way	1	LS	\$ 400,000.00	\$ 400,000.00
<b>Paving</b>				
New Pavement	634,449	SF	\$ 20.00	\$ 12,688,980.00
<b>Signal</b>				
New Traffic Signal	1	Each	\$ 200,000.00	\$ 200,000.00
-Glenwood Ave. & Creedmoor Rd.				
Signal Removal	1	Each	\$ 50,000.00	\$ 50,000.00
-Glenwood Ave. & Marriott Dr.				
<b>Structures</b>				
<b>Bridge</b>				
-Glenwood Ave. over Creedmoor Rd.	15,804	SF	\$ 150.00	\$ 2,370,600.00
<b>Pedestrian Bridge</b>				
-Pedestrian over Glenwood Ave.	1	Each	\$ 1,000,000.00	\$ 1,000,000.00
<b>Retaining Wall</b>				
-Creedmoor Rd. lt./rt. 3865' L 12' Av. Height	23,190	SF	\$ 50.00	\$ 1,159,500.00
-Creedmoor Rd. behind sidewalk 780' L 5' Av. Height	3,900	SF	\$ 50.00	\$ 195,000.00
Traffic Control	1	LS	\$ 750,000.00	\$ 750,000.00
Utilities	1	LS	\$ 500,000.00	\$ 500,000.00

<b>Contract Cost</b> .....			\$	19,300,000.00
<b>E. &amp; C. 15%</b> .....			\$	2,900,000.00
<b>Misc. &amp; Mobilization 20%</b> .....			\$	3,900,000.00
<b>Construction Cost</b> .....			<b>\$</b>	<b>26,100,000.00</b>

# Conceptual Estimate

Route  
From  
Typical Section

Alternative RR

County: Wake

<b>CONSTR. COST</b>
<b>\$11,200,000</b>

Prepared By: Louis Berger Group  
Requested By: City of Raleigh

Description	Quantity	Unit	Unit Price	Amount
Right of Way	1	LS	\$ 300,000.00	\$ 300,000.00
<b>Paving</b>				
New Pavement	230,775	SF	\$ 20.00	\$ 4,615,500.00
Pavement Removal	73,780	SF	\$ 0.56	\$ 40,989.00
<b>Signal</b>				
New Traffic Signal	1	Each	\$ 200,000.00	\$ 200,000.00
-Glenwood Ave. & I440 on/off ramps				
<b>Structures</b>				
Bridge Removal				
-Century Dr.	8,886	SF	\$ 30.00	\$ 266,580.00
Bridge				
-Century Dr. over Crabtree Creek	16,572	SF	\$ 150.00	\$ 2,485,800.00
Traffic Control	1	LS	\$ 250,000.00	\$ 250,000.00
Utilities	1	LS	\$ 150,000.00	\$ 150,000.00

<b>Contract Cost</b> .....	\$ 8,300,000.00
<b>E. &amp; C. 15%</b> .....	\$ 1,200,000.00
<b>Misc. &amp; Mobilization 20%</b> .....	\$ 1,700,000.00
<b>Construction Cost</b> .....	<b>\$ 11,200,000.00</b>

Conceptual Estimate

Route  
From  
Typical Section

Alternative A5-B

County: Wake

<b>CONSTR. COST</b>
<b>\$89,900,000</b>

Prepared By: Louis Berger Group  
Requested By: City of Raleigh

Description	Quantity	Unit	Unit Price	Amount
Right of Way	1	LS	\$ 3,500,000.00	\$ 3,500,000.00
<b>Paving</b>				
New Pavement	1,518,090	SF	\$ 20.00	\$ 30,361,800.00
Pavement Removal	129,655	SF	\$ 0.56	\$ 72,030.56
<b>Structures</b>				
<b>Bridge</b>				
-Glenwood Ave. over Creedmoor Rd.	15,804	SF	\$ 150.00	\$ 2,370,600.00
-Widening of Mall Entrance Bridge	1,728	SF	\$ 150.00	\$ 259,200.00
- Loop-Blue Ridge Rd./CVA	12,815	SF	\$ 150.00	\$ 1,922,250.00
-CVA over Blue Ridge	25,709	SF	\$ 150.00	\$ 3,856,350.00
-CVA over Arrow Dr.	3,470	SF	\$ 150.00	\$ 520,500.00
-CVA over I-440	16,523	SF	\$ 150.00	\$ 2,478,450.00
-CVA over Ridge Rd.	3,104	SF	\$ 150.00	\$ 465,600.00
-WB I-440 to CVA	1,558	SF	\$ 150.00	\$ 233,700.00
-Widening- WB I-440 over Glenwood Ave.	7,849	SF	\$ 150.00	\$ 1,177,350.00
- Lead Mine Bridge	20,661	SF	\$ 150.00	\$ 3,099,150.00
<b>Pedestrian Bridge</b>				
-Pedestrian over Glenwood Ave.	1	Each	\$ 1,000,000.00	\$ 1,000,000.00
<b>Bridge Removal</b>				
-Over I-440	11,803	SF	\$ 30.00	\$ 354,090.00
<b>Retaining Wall</b>				
-CVA Ext. lt./rt. 1264' L 12' Av. Height (before loop)	7,584	SF	\$ 50.00	\$ 379,200.00
-CVA Ext. lt./rt. 676' L 10' Av. Height (after loop)	6,760	SF	\$ 50.00	\$ 338,000.00
-I-440 WB to CVA 309' L 10' Av. Height	3,090	SF	\$ 50.00	\$ 154,500.00
-CVA to I-440 WB 2251' L 10' Av. Height	22,510	SF	\$ 50.00	\$ 1,125,500.00
-Lead Mine Rd. 1 - lt./rt. 440' L 12' Av. Height	2,640	SF	\$ 50.00	\$ 132,000.00
-Lead Mine Rd. 1 - lt./rt. 1422' L 12' Av. Height	8,532	SF	\$ 50.00	\$ 426,600.00
-Creedmoor Rd. lt./rt. 3865' L 12' Av. Height	23,190	SF	\$ 51.00	\$ 1,182,690.00
<b>Signaling</b>				
<b>New Traffic Signal</b>				
-Homewood Banks Dr. & CVA	5	Each	\$ 200,000.00	\$ 1,000,000.00
-Creedmoor Rd. & CVA				
-Glenwood Ave. & I440 off/on ramp				
-Lead Mine Rd. & Glenwood Ave.				
-Glenwood Ave. & Creedmoor Rd.				
<b>Remove Traffic Signal</b>				
-Glenwood Ave. & Marriott Dr.	1	Each	\$ 50,000.00	\$ 50,000.00
<b>Add/Remove Traffic Signal</b>				
-CVA at Blue Ridge Rd.	2	Each	\$ 250,000.00	\$ 500,000.00
-WB I-440 off ramp				
<b>Signs</b>				
Ground Mounted Signs	1	LS	\$ 400,000.00	\$ 400,000.00
Overhead Signs	15	Each	\$ 150,000.00	\$ 2,250,000.00
Traffic Control	1	LS	\$ 3,000,000.00	\$ 3,000,000.00
Utilities	1	LS	\$ 4,000,000.00	\$ 4,000,000.00

Contract Cost .....	\$ 66,600,000.00
E. & C. 15% .....	\$ 10,000,000.00
Misc. & Mobilization 20% .....	\$ 13,300,000.00
<b>Construction Cost .....</b>	<b>\$ 89,900,000.00</b>