

North Carolina Department of Transportation
Preliminary Estimate

TIP No. **U-4700A**

Route: US 321

From: US 70 Interchange in Hickory to Just South of US 321A / New Farm Rd.

Typical Section: 6-Lane Superstreet

Prepared By: RK&K Engineers

Requested By: Statewide Tier Priority / Estimate Improvement

Priced By: Chris Smith, PE

90% PLANS

County: **Catawba, Caldwell, & Burke**

Date

8/18/2022
2/9/2026
2/23/2026

CONSTR. COST
\$282,400,000

Line Item	Des	Sec No.	Description	Quantity	Unit	Price	Amount
<u>ROADWAY</u>							
0000100000-N	M	800	Mobilization	1	LS	\$ 10,797,762.73	\$ 10,797,762.73
0004000000-N	M	801	Construction Surveying	1	LS	\$ 2,400,000.00	\$ 2,400,000.00
0000700000-N	M	SP	Field Office	1	LS	\$ 250,000.00	\$ 250,000.00
0001000000-E	G	200	Clearing & Grubbing (35.8 Acres)	35.8	LS	\$ 55,000.00	\$ 1,969,000.00
0008000000-E	G	200	Supplementary Clearing & Grubbing	3	ACR	\$ 10,000.00	\$ 30,000.00
0015000000-N	G	205	Sealing Abandoned Wells	1	EA	\$ 4,050.00	\$ 4,050.00
0029000000-N	G	SP	Type III Reinforced Approach Fill, -L- Sta. 169+30 +/- RT	1	LS	\$ 78,000.00	\$ 78,000.00
0029000000-N	G	SP	Type III Reinforced Approach Fill, -L- Sta. 169+73 +/- LT	1	LS	\$ 78,000.00	\$ 78,000.00
0029000000-N	G	SP	Type III Reinforced Approach Fill, -Y4- Sta. 26+03 +/-	1	LS	\$ 85,000.00	\$ 85,000.00
0029000000-N	G	SP	Type III Reinforced Approach Fill, -Y7- Sta. 129+99 +/- (Railroad Bridge)	1	LS	\$ 80,000.00	\$ 80,000.00
0029000000-N	G	SP	Type III Reinforced Approach Fill, -Y19FLY- Sta. 15+05 +/-	1	LS	\$ 40,000.00	\$ 40,000.00
0029000000-N	G	SP	Type III Reinforced Approach Fill, -Y19FLY- Sta. 25+13 +/-	1	LS	\$ 50,000.00	\$ 50,000.00
0029000000-N	G	SP	Type III Reinforced Approach Fill, -Y21- Sta. 37+08 +/-	1	LS	\$ 77,000.00	\$ 77,000.00
0022000000-E	G	225	Unclassified Excavation	360,700	CY	\$ 14.00	\$ 5,049,800.00
0106000000-E	G	230	Borrow Excavation	872,900	CY	\$ 13.00	\$ 11,347,700.00
0134000000-E	D	240	Drainage Ditch Excavation	17,760	CY	\$ 18.00	\$ 319,680.00
0156000000-E	G	250	Removal of Existing Asphalt Pavement	38,405	SY	\$ 10.00	\$ 384,050.00
0177000000-E	G	250	Breaking of Existing Asphalt Pavement	25,870	SY	\$ 5.00	\$ 129,350.00
0192000000-N	G	260	Proof Rolling	60.0	HR	\$ 300.00	\$ 18,000.00
0225000000-E	G	SP	Reinforced Soil Slopes	4,300	SY	\$ 90.00	\$ 387,000.00
1011000000-N	P	500	Fine Grading	316,350	SY	\$ 3.50	\$ 1,107,225.00
1077000000-E	P	SP	#57 Stone	230	TON	\$ 70.00	\$ 16,100.00
1121000000-E	P	520	Aggregate Base Course	4,510	TON	\$ 55.00	\$ 248,050.00
1275000000-E	P	600	Prime Coat	5,960	GAL	\$ 7.00	\$ 41,720.00
1297000000-E	P	607	Milling Asphalt Pavement, 3" Depth	405	SY	\$ 17.00	\$ 6,885.00
1330000000-E	P	607	Incidental Milling	5,980	SY	\$ 14.00	\$ 83,720.00
1491000000-E	P	610	Asphalt Conc. Base Course, Type B25.0C	134,370	TON	\$ 86.00	\$ 11,555,820.00
1503000000-E	P	610	Asphalt Conc. Intermediate Course, Type I19.0C	81,010	TON	\$ 88.00	\$ 7,128,880.00
1519000000-E	P	610	Asphalt Conc. Surface Course, Type S9.5B	22,170	TON	\$ 92.00	\$ 2,039,640.00
1523000000-E	P	610	Asphalt Conc. Surface Course, Type S9.5C	53,930	TON	\$ 88.00	\$ 4,745,840.00
1575000000-E	P	620	Asphalt Binder for Plant Mix	14,315	TON	\$ 650.00	\$ 9,304,750.00
1693000000-E	P	654	Asphalt Plant Mix, Pavement Repair	2,235	TON	\$ 250.00	\$ 558,750.00
2000000000-N	G	806	Right-of-Way Markers	488	EA	\$ 350.00	\$ 170,800.00
2020000000-N	G	806	Control-of-Access Markers	95	EA	\$ 350.00	\$ 33,250.00
2021000000-N	G	SP	Generic Grading Item - Permanent Easement Markers	922	EA	\$ 350.00	\$ 322,700.00
2535000000-E	P	846	8" x 12" Concrete Curb	5,050	LF	\$ 30.00	\$ 151,500.00

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Line Item	Des	Sec No.	Description	Quantity	Unit	Price	Amount
2538000000-E	P	846	2'-9" Concrete Curb & Gutter	2,660	LF	\$ 42.00	\$ 111,720.00
2542000000-E	P	846	1'-6" Concrete Curb & Gutter	24,115	LF	\$ 30.00	\$ 723,450.00
2549000000-E	P	846	2'-6" Concrete Curb & Gutter	27,810	LF	\$ 34.00	\$ 945,540.00
2556000000-E	P	846	Shoulder Berm Gutter	9,740	LF	\$ 43.00	\$ 418,820.00
2577000000-E	P	846	Concrete Expressway Gutter	7,200	LF	\$ 46.00	\$ 331,200.00
2591000000-E	P	848	4" Concrete Sidewalk	4,500	SY	\$ 62.00	\$ 279,000.00
2605000000-N	P	848	Concrete Curb Ramps	40	EA	\$ 2,950.00	\$ 118,000.00
2612000000-E	P	848	6" Concrete Driveway	1,900	SY	\$ 115.00	\$ 218,500.00
2627000000-E	P	852	4" Concrete Island Cover	285	SY	\$ 110.00	\$ 31,350.00
2655000000-E	P	852	5" Monolithic Concrete Islands (Keyed In)	7,975	SY	\$ 98.00	\$ 781,550.00
2717000000-E	P	854	Variable Height Concrete Barrier, Type T	2,160	LF	\$ 190.00	\$ 410,400.00
2717000000-E	P	854	Variable Height Concrete Barrier, Type T1	1,770	LF	\$ 350.00	\$ 619,500.00
2717000000-E	P	854	Variable Height Concrete Barrier, Type T2	975	LF	\$ 500.00	\$ 487,500.00
2710000000-N	P	854	Concrete Barrier Transition Section	15	EA	\$ 30,000.00	\$ 450,000.00
2724000000-E	P	857	Precast Reinforced Concrete Barrier, Single Faced	5,740	LF	\$ 135.00	\$ 774,900.00
3000000000-N	GR	SP	Impact Attenuator Unit, Type 350	7	EA	\$ 30,000.00	\$ 210,000.00
3030000000-E	GR	862	Steel Beam Guardrail	18,584.0	LF	\$ 28.00	\$ 520,352.00
3045000000-E	GR	862	Steel Beam Guardrail, Shop Curved	1,469	LF	\$ 34.00	\$ 49,946.00
3105000000-N	GR	862	Steel Beam Guardrail Terminal Sections	10	EA	\$ 120.00	\$ 1,200.00
3150000000-N	GR	862	Additional Guardrail Posts	10	EA	\$ 60.00	\$ 600.00
3195000000-N	GR	862	Guardrail End Units, Type AT-1	11	EA	\$ 1,000.00	\$ 11,000.00
3210000000-N	GR	862	Guardrail End Units, Type CAT-1	26	EA	\$ 1,100.00	\$ 28,600.00
3215000000-N	GR	SP	Guardrail Anchor Units, Type III	8	EA	\$ 2,600.00	\$ 20,800.00
3287000000-N	GR	SP	Guardrail End Units, Type TL-3	29	EA	\$ 3,500.00	\$ 101,500.00
3288000000-N	GR	SP	Guardrail End Units, Type TL-2	12	EA	\$ 3,400.00	\$ 40,800.00
3317000000-N	GR	SP	Guardrail Anchor Units, Type B-77	38	EA	\$ 2,800.00	\$ 106,400.00
3360000000-E	GR	863	Remove Existing Guardrail	10,610	EA	\$ 1.00	\$ 10,610.00
3365000000-E	GR	863	Remove Existing Guiderail	1,450	LF	\$ 3.00	\$ 4,350.00
3389400000-E	GR	865	Double Faced Cable Guiderail	690	LF	\$ 9.00	\$ 6,210.00
3389500000-N	GR	865	Additional Guiderail Posts	10	EA	\$ 85.00	\$ 850.00
3389600000-N	GR	865	Cable Guiderail Anchor Units	3	EA	\$ 2,000.00	\$ 6,000.00
3503000000-E	F	866	Woven Wire Fence, 47" Fabric	21,500	LF	\$ 5.50	\$ 118,250.00
3509000000-E	F	866	4" Timber Fence Posts, 7'-6" Long	1,200	EA	\$ 40.00	\$ 48,000.00
3515000000-E	F	866	5" Timber Fence Posts, 8'-0" Long	620	EA	\$ 52.00	\$ 32,240.00
3536000000-E	F	866	Chain Link Fence, 48" Fence	5,090	LF	\$ 13.50	\$ 68,715.00
3542000000-E	F	866	Metal Line Posts for 48" Chain Link Fence	285	EA	\$ 70.00	\$ 19,950.00
3548000000-E	F	866	Metal Terminal Posts for 48" Chain Link Fence	35	EA	\$ 150.00	\$ 5,250.00
			DRAINAGE				
0318000000-E	D	300	Foundation Conditioning Material, Minor Structures	7,650	TON	\$ 60.00	\$ 459,000.00
0320000000-E	D	300	Foundation Conditioning Geotextile	24,050	SY	\$ 3.50	\$ 84,175.00
	D	310	15" Side Drain Pipe	162	LF	\$ 95.00	\$ 15,390.00
	D	310	12" Drainage Pipe	68	LF	\$ 88.00	\$ 5,984.00
	D	310	15" Drainage Pipe	17,484	LF	\$ 80.00	\$ 1,398,720.00
	D	310	18" Drainage Pipe	5,771	LF	\$ 90.00	\$ 519,390.00
	D	310	24" Drainage Pipe	6,956	LF	\$ 120.00	\$ 834,720.00
	D	310	30" Drainage Pipe	2,304	LF	\$ 145.00	\$ 334,080.00
	D	310	36" Drainage Pipe	904	LF	\$ 200.00	\$ 180,800.00
	D	310	42" Drainage Pipe	1,532	LF	\$ 250.00	\$ 383,000.00
	D	310	48" Drainage Pipe	2,100	LF	\$ 300.00	\$ 630,000.00
0414000000-E	D	310	60" RC Pipe Culverts, Class III	228	LF	\$ 750.00	\$ 171,000.00
0420000000-E	D	310	66" RC Pipe Culverts, Class III	1,092	LF	\$ 830.00	\$ 906,360.00
0448200000-E	D	310	15" RC Pipe Culverts, Class IV	11,088	LF	\$ 105.00	\$ 1,164,240.00
0448300000-E	D	310	18" RC Pipe Culverts, Class IV	2,084	LF	\$ 135.00	\$ 281,340.00
0448400000-E	D	310	24" RC Pipe Culverts, Class IV	3,856	LF	\$ 175.00	\$ 674,800.00
0448500000-E	D	310	30" RC Pipe Culverts, Class IV	2,624	LF	\$ 210.00	\$ 551,040.00
0448600000-E	D	310	36" RC Pipe Culverts, Class IV	724	LF	\$ 285.00	\$ 206,340.00
0448700000-E	D	310	42" RC Pipe Culverts, Class IV	1,344	LF	\$ 340.00	\$ 456,960.00
0448000000-E	D	310	48" RC Pipe Culverts, Class IV	192	LF	\$ 400.00	\$ 76,800.00
0448000000-E	D	310	66" RC Pipe Culverts, Class IV	932	LF	\$ 850.00	\$ 792,200.00
0354000000-E	D	310	66" RC Pipe Culverts, Class V	380	LF	\$ 900.00	\$ 342,000.00
0354000000-E	D	310	72" RC Pipe Culverts, Class V	480	LF	\$ 950.00	\$ 456,000.00
	D	310	12" CS Pipe Elbows	4	EA	\$ 525.00	\$ 2,100.00

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	D	310	15" CS Pipe Elbows	122	EA	\$ 650.00	\$ 79,300.00
	D	310	18" CS Pipe Elbows	12	EA	\$ 835.00	\$ 10,020.00
	D	310	24" CS Pipe Elbows	12	EA	\$ 1,100.00	\$ 13,200.00
	D	310	30" CS Pipe Elbows	10	EA	\$ 1,500.00	\$ 15,000.00
	D	310	48" CS Pipe Elbows	2	EA	\$ 2,800.00	\$ 5,600.00
0973100000-E	D	330	18" Welded Steel Pipe, 0.375" Thick, Grade B in Soil	448	LF	\$ 650.00	\$ 291,200.00
0973100000-E	D	330	24" Welded Steel Pipe, 0.375" Thick, Grade B in Soil	620	LF	\$ 800.00	\$ 496,000.00
0973100000-E	D	330	30" Welded Steel Pipe, 0.375" Thick, Grade B in Soil	584	LF	\$ 950.00	\$ 554,800.00
	D	330	36" Welded Steel Pipe, 0.375" Thick, Grade B in Soil	64	LF	\$ 1,900.00	\$ 121,600.00
0973100000-E	D	330	48" Welded Steel Pipe, 0.500" Thick, Grade B in Soil	368	LF	\$ 2,200.00	\$ 809,600.00
0973100000-E	D	330	72" Welded Steel Pipe, 0.750" Thick, Grade B in Soil	328	LF	\$ 4,000.00	\$ 1,312,000.00
0995000000-E	D	340	Pipe Removal	26,702	LF	\$ 26.00	\$ 694,252.00
	D	838	Endwalls	17.70	CY	\$ 1,800.00	\$ 31,860.00
2220000000-E	D	838	Reinforced Endwalls	7	CY	\$ 2,500.00	\$ 16,500.00
2253000000-E	D	840	Pipe Collars	3.6	CY	\$ 1,900.00	\$ 6,914.10
2264000000-E	D	840	Pipe Plugs	12.1	CY	\$ 1,800.00	\$ 21,756.60
2275000000-E	D	SP	Flowable Fill	1,028	CY	\$ 350.00	\$ 359,800.00
2286000000-N	D	840	Masonry Drainage Structures	772	EA	\$ 4,000.00	\$ 3,088,000.00
2308000000-E	D	840	Masonry Drainage Structures	1,180	LF	\$ 550.00	\$ 648,970.36
2970000000-N	D	840	Masonry Drainage Structures	155.170	CY	\$ 2,200.00	\$ 341,374.00
2364000000-N	D	840	Frame with Two Grates, STD 840.16	89	EA	\$ 1,300.00	\$ 115,700.00
	D	840	Frame with Two Grates, STD 840.20	63	EA	\$ 1,300.00	\$ 81,900.00
	D	840	Frame with Two Grates, STD 840.22	42	EA	\$ 1,300.00	\$ 54,600.00
2366000000-N	D	840	Frame with Two Grates, STD 840.24	138	EA	\$ 1,400.00	\$ 193,200.00
2355000000-N	D	840	Frame with Two Grates, STD 840.29	138	EA	\$ 1,300.00	\$ 179,400.00
2374000000-N	D	840	Frame with Grate & Hood, STD 840.03, Type E	37	EA	\$ 1,400.00	\$ 51,800.00
2374000000-N	D	840	Frame with Grate & Hood, STD 840.03, Type F	82	EA	\$ 1,400.00	\$ 114,800.00
2374000000-N	D	840	Frame with Grate & Hood, STD 840.03, Type G	64	EA	\$ 1,400.00	\$ 89,600.00
2396000000-D	D	840	Frame with Cover, STD 840.54	89	EA	\$ 1,000.00	\$ 89,000.00
2407000000-N	D	840	Steel Frame with Two Grates, STD. 840.37	14	EA	\$ 3,500.00	\$ 49,000.00
2418000000-E	D	SP	Frame with Grates, Driveway Drop Inlet	30	LF	\$ 450.00	\$ 13,500.00
	D	SP	Frame with Grates, Drop Inlet in Approach Slab, STD. 840.13	1	EA	\$ 1,500.00	\$ 1,500.00
2800000000-N	D	858	Adjustment of Catch Basins	12	EA	\$ 1,800.00	\$ 21,600.00
2815000000-N	D	858	Adjustment of Drop Inlets	8	EA	\$ 1,900.00	\$ 15,200.00
2830000000-N	D	858	Adjustment of Manholes	10	EA	\$ 2,000.00	\$ 20,000.00
2938000000-N	D	859	Convert Existing Drop Inlet to Junction Box with Manhole	7	EA	\$ 3,500.00	\$ 24,500.00
2893000000-N	D	859	Convert Existing Catch Basin to Junction Box with Manhole	1	EA	\$ 3,500.00	\$ 3,500.00
	D	859	Convert Existing Catch Basin to Drop Inlet	1	EA	\$ 3,300.00	\$ 3,300.00
2950000000-N	D	859	Convert Existing Junction Box to Drop Inlet	1	EA	\$ 3,300.00	\$ 3,300.00
	D	SP	Funnel Drain, STD. 820.01	2	EA	\$ 2,000.00	\$ 4,000.00
	D	SP	Berm Drainage Outlet	2	EA	\$ 3,000.00	\$ 6,000.00
3628000000-E	D	876	Rip Rap, Class I	890	TON	\$ 85.00	\$ 75,650.00
3635000000-E	D	876	Rip Rap, Class II	1,000	TON	\$ 85.00	\$ 85,000.00
3649000000-E	D	876	Rip Rap, Class B	4,860	TON	\$ 80.00	\$ 388,800.00
3656000000-E	D	876	Geotextile for Drainage	2,845	SY	\$ 4.00	\$ 11,380.00
			<u>EROSION CONTROL</u>				
		270	Geotextile for Soil Stabilization	2,800	SY	\$ 4.00	\$ 11,200.00
		876	Geotextile for Drainage	29,475	SY	\$ 3.50	\$ 103,162.50
		1605	Temporary Silt Fence	157,005	LF	\$ 3.00	\$ 471,015.00
		1610	Erosion Control Stone, Class A	9,420	Ton	\$ 70.00	\$ 659,400.00
		1610	Erosion Control Stone, Class B	18,500	Ton	\$ 65.00	\$ 1,202,500.00
		1610	Sediment Control Stone	35,150	Ton	\$ 60.00	\$ 2,109,000.00
		1615	Temporary Mulching	280	Acres	\$ 1,100.00	\$ 308,000.00
		1620	Seed for Temporary Seeding	8,900	LB	\$ 3.00	\$ 26,700.00
		1620	Fertilizer for Temporary Seeding	47	Ton	\$ 1,250.00	\$ 58,125.00
		1622	Temporary Slope Drains	19,610	LF	\$ 18.00	\$ 352,980.00
		SP	Safety Fence	680	LF	\$ 3.00	\$ 2,040.00
		1630	Silt Excavation	180,470	CY	\$ 2.50	\$ 451,175.00
		1631	Matting for Erosion Control	503,860	SY	\$ 1.50	\$ 755,790.00
		SP	Coir Fiber Mat	2,710.0	SY	\$ 8.00	\$ 21,680.00
		1632	1/4" Hardware Cloth	64,570.0	LF	\$ 5.00	\$ 322,850.00
		SP	36" Temporary Pipe	95.0	LF	\$ 150.00	\$ 14,250.00

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		1638	Stilling Basins	687.0	CY	\$ 25.00	\$ 17,175.00
		1639	Special Stilling Basins	205.0	Each	\$ 1,200.00	\$ 246,000.00
		SP	Coir Fiber Wattle	19,350.0	LF	\$ 9.00	\$ 174,150.00
		SP	Coir Fiber Wattle Barrier	7,993.0	LF	\$ 13.00	\$ 103,909.00
		SP	Polyacrylamide (PAM)	25,615.0	LB	\$ 6.00	\$ 153,690.00
		1640	Coir Fiber Baffle	11,420.0	LF	\$ 8.00	\$ 91,360.00
		SP	***Skimmer- (1-1/2")	14.0	Each	\$ 1,500.00	\$ 21,000.00
		SP	***Skimmer- (2")	4.0	Each	\$ 2,100.00	\$ 8,400.00
		SP	***Skimmer- (3")	1.0	Each	\$ 2,400.00	\$ 2,400.00
		1660	Seeding and Mulching	159.0	Acres	\$ 2,700.00	\$ 429,300.00
		1660	Mowing	219.0	Acres	\$ 200.00	\$ 43,800.00
		1661	Seed for Repair Seeding	2,850.0	LB	\$ 7.00	\$ 19,950.00
		1661	Fertilizer for Repair Seeding	9.3	Ton	\$ 1,400.00	\$ 12,950.00
		1662	Seed For Supplemental Seeding	3,850.0	LB	\$ 5.00	\$ 19,250.00
		1665	Fertilizer Topdressing	115.5	Ton	\$ 1,100.00	\$ 127,050.00
		SP	Impervious Dike	653.0	LF	\$ 100.00	\$ 65,300.00
		1667	Specialized Hand Mowing	135.0	MHR	\$ 120.00	\$ 16,200.00
		1675	Response for Erosion Control	200.0	Each	\$ 150.00	\$ 30,000.00
		SP	Culvert Diversion Channel	901.0	CY	\$ 30.00	\$ 27,030.00
		1670	Reforestation	0.8	Acres	\$ 7,500.00	\$ 5,625.00
		SP	Concrete Washout Structure	8.0	Each	\$ 1,500.00	\$ 12,000.00
			<u>TRAFFIC CONTROL</u>				
	Y		Traffic Control	1	LS	\$ 5,126,300.00	\$ 5,126,300.00
			<u>SIGNING, SIGNALS & PAVEMENT MARKING</u>				
4048000000-E	S	902	Reinforced Concrete Sign Foundation	6	CY	\$ 960.00	\$ 5,760.00
4054000000-E	S	902	Plain Concrete Sign Foundation	2	CY	\$ 1,000.00	\$ 2,000.00
4057000000-E	S	SP	Overhead Footing	186	CY	\$ 2,050.00	\$ 381,300.00
4060000000-E	S	903	Supports, Breakaway Steel Beam	4,406	LB	\$ 10.00	\$ 44,060.00
4066000000-E	S	903	Supports, Simple Steel Beam	2,642	LB	\$ 9.00	\$ 23,778.00
4072000000-E	S	903	Supports, 3-LB Steel U-Channel	6,778	LF	\$ 10.00	\$ 67,780.00
4080000000-N	S	903	Supports, Barrier (Large)	2	EA	\$ 1,200.00	\$ 2,400.00
4082100000-N	S	906	Supports, Overhead Sign Structure A at Offsite NB US 321	1	LS	\$ 160,000.00	\$ 160,000.00
4082100000-N	S	906	Supports, Overhead Sign Structure B at -L- Sta. 25+00	1	LS	\$ 150,000.00	\$ 150,000.00
4082100000-N	S	906	Supports, Overhead Sign Structure C at -L- Sta. 32+21	1	LS	\$ 180,000.00	\$ 180,000.00
4082100000-N	S	906	Supports, Overhead Sign Structure D at -L- Sta. 40+58	1	LS	\$ 70,000.00	\$ 70,000.00
4082100000-N	S	906	Supports, Overhead Sign Structure E at -L- Sta. 45+50	1	LS	\$ 60,000.00	\$ 60,000.00
4082100000-N	S	906	Supports, Overhead Sign Structure F at -L- Sta. 56+00	1	LS	\$ 170,000.00	\$ 170,000.00
4082100000-N	S	906	Supports, Overhead Sign Structure G at -Y13B- Sta. 13+00	1	LS	\$ 215,000.00	\$ 215,000.00
4082100000-N	S	906	Supports, Overhead Sign Structure H at -Y19- Sta. 22+35	1	LS	\$ 87,500.00	\$ 87,500.00
4082100000-N	S	906	Supports, Overhead Sign Structure I at -L- Sta. 215+47	1	LS	\$ 80,000.00	\$ 80,000.00
4082100000-N	S	906	Supports, Overhead Sign Structure J at -L- Sta. 244+39	1	LS	\$ 55,000.00	\$ 55,000.00
4096000000-N	S	904	Sign Erection, Type D	12	EA	\$ 200.00	\$ 2,400.00
4102000000-N	S	904	Sign Erection, Type E	321	EA	\$ 100.00	\$ 32,100.00
4108000000-N	S	904	Sign Erection, Type F	40	EA	\$ 170.00	\$ 6,800.00
4109000000-N	S	904	Sign Erection, Type A (Overhead)	19	EA	\$ 1,700.00	\$ 32,300.00
4109000000-N	S	904	Sign Erection, Type B (Overhead)	8	EA	\$ 1,000.00	\$ 8,000.00
4110000000-N	S	904	Sign Erection, Type A (Ground Mounted)	14	EA	\$ 950.00	\$ 13,300.00
4110000000-N	S	904	Sign Erection, Type B (Ground Mounted)	9	EA	\$ 550.00	\$ 4,950.00
4116100000-N	S	904	Sign Erection, Relocate Type A (Ground Mounted)	1	EA	\$ 1,100.00	\$ 1,100.00
4116100000-N	S	904	Sign Erection, Relocate Type D	4	EA	\$ 260.00	\$ 1,040.00
4116100000-N	S	904	Sign Erection, Relocate Type E	3	EA	\$ 200.00	\$ 600.00
4138000000-N	S	907	Disposal of Support, Steel Beam	1	EA	\$ 700.00	\$ 700.00
4149000000-N	S	907	Disposal of Sign System, Overhead	3	EA	\$ 14,000.00	\$ 42,000.00
4152000000-N	S	907	Disposal of Sign System, Steel Beam	3	EA	\$ 550.00	\$ 1,650.00
4155000000-N	S	907	Disposal of Sign System, U-Channel	300	EA	\$ 6.00	\$ 1,800.00
4157000000-N	S	907	Disposal of Sign System, Wood	1	EA	\$ 50.00	\$ 50.00
4192000000-N	S	907	Disposal of Support, U-Channel	7	EA	\$ 15.00	\$ 105.00
4366000000-E	S	SP	Department Furnished, Type A Sign	3,137.8	SF	\$ 30.00	\$ 94,134.00
4366000000-E	S	SP	Department Furnished, Type B Sign	394.5	SF	\$ 30.00	\$ 11,835.00
4366000000-E	S	SP	Department Furnished, Type D Sign	114.8	SF	\$ 30.00	\$ 3,444.00
4366000000-E	S	SP	Department Furnished, Type E Sign	1,983	SF	\$ 30.00	\$ 59,490.00

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Line Item	Des	Sec No.	Description	Quantity	Unit	Price	Amount
436600000-E	S	SP	Department Furnished, Type F Sign	578	SF	\$ 30.00	\$ 17,340.00
468500000-E	PM	1205	Thermoplastic Pavement Marking Lines (4", 90 Mils)	74,887	LF	\$ 1.00	\$ 74,887.00
468800000-E	PM	1205	Thermoplastic Pavement Marking Lines (6", 90 Mils)	118,763	LF	\$ 1.40	\$ 166,268.20
469500000-E	PM	1205	Thermoplastic Pavement Marking Lines (8", 90 Mils)	2,868	LF	\$ 3.00	\$ 8,604.00
470000000-E	PM	1205	Thermoplastic Pavement Marking Lines (12", 90 Mils)	17,893	LF	\$ 3.75	\$ 67,098.75
470500000-E	PM	1205	Thermoplastic Pavement Marking Lines (16", 90 Mils)	160	LF	\$ 9.00	\$ 1,440.00
471000000-E	PM	1205	Thermoplastic Pavement Marking Lines (24", 90 Mils)	3,528	LF	\$ 10.50	\$ 37,044.00
472100000-E	PM	1205	Thermoplastic Pavement Marking Character (90 Mils)	44	EA	\$ 150.00	\$ 6,600.00
472500000-E	PM	1205	Thermoplastic Pavement Marking Symbol (90 Mils)	373	EA	\$ 200.00	\$ 74,600.00
484701000-E	PM	1205	Polyurea Pavement Marking Lines (4", 20 Mils)	2,606	LF	\$ 3.50	\$ 9,121.00
484703000-E	PM	1205	Polyurea Pavement Marking Lines (6", 90 Mils)	10,992	LF	\$ 4.00	\$ 43,968.00
490000000-E	PM	1251	Permanent Raised Pavement Markers	101	EA	\$ 15.00	\$ 1,515.00
490500000-E	PM	1253	Snowplowable Pavement Markers	2,401	EA	\$ 40.00	\$ 96,040.00
704850000-E	Z	1705	Pedestrian Signal Head (16", 1 Section with Countdown)	16	EA	\$ 1,500.00	\$ 24,000.00
706000000-E	Z	1705	Signal Cable	42,450	LF	\$ 4.50	\$ 191,025.00
712000000-E	Z	1705	Vehicle Signal Head (12", 3 Section)	260	EA	\$ 1,300.00	\$ 338,000.00
713200000-E	Z	1705	Vehicle Signal Head (12", 4 Section)	10	EA	\$ 1,700.00	\$ 17,000.00
714400000-E	Z	1705	Vehicle Signal Head (12", 5 Section)	16	EA	\$ 2,200.00	\$ 35,200.00
725200000-E	Z	1710	Messenger Cable (1/4")	15,520	LF	\$ 4.50	\$ 69,840.00
726400000-E	Z	1710	Messenger Cable (3/8")	6,770	LF	\$ 9.00	\$ 60,930.00
727900000-E	Z	1715	Tracer Wire	9,135	LF	\$ 1.50	\$ 13,702.50
730000000-E	Z	1715	Unpaved Trenching (1 conduit, 2 inch)	17,810	LF	\$ 15.00	\$ 267,150.00
730100000-E	Z	1715	Directional Drill (1 conduit, 2 inch)	3,735	LF	\$ 30.00	\$ 112,050.00
730100000-E	Z	1715	Directional Drill (2 conduit, 2 inch)	3,470	LF	\$ 38.00	\$ 131,860.00
731200000-N	Z	1716	Junction Box (Special Over-Size, Heavy Duty 36"x24"x24")	3	EA	\$ 1,900.00	\$ 5,700.00
732400000-N	Z	1716	Junction Box (Standard Size)	77	EA	\$ 800.00	\$ 61,600.00
734800000-N	Z	1716	Junction Box (Over-Size, Heavy Duty)	146	EA	\$ 1,300.00	\$ 189,800.00
736000000-N	Z	1720	Wood Pole	41	EA	\$ 1,600.00	\$ 65,600.00
737200000-N	Z	1721	Guy Assembly	153	EA	\$ 1,050.00	\$ 160,650.00
742000000-E	Z	1722	2" Riser with Weatherhead	35	EA	\$ 1,100.00	\$ 38,500.00
744400000-E	Z	1725	Inductive Loop Sawcut	12,930	LF	\$ 18.00	\$ 232,740.00
745600000-E	Z	1726	Lead-in Cable (14-2)	37,825	LF	\$ 3.00	\$ 113,475.00
748100000-N	Z	SP	Site Survey	16	EA	\$ 1,500.00	\$ 24,000.00
748120000-N	Z	SP	Luminaire Arm for Video System	79	EA	\$ 1,300.00	\$ 102,700.00
748124000-N	Z	SP	Camera Without Internal Loop Emulator Processing Unit	79	EA	\$ 5,500.00	\$ 434,500.00
748126000-N	Z	SP	External Loop Emulator Processing Unit	18	EA	\$ 5,500.00	\$ 99,000.00
748128000-N	Z	SP	Relocate Camera Sensor Unit	54	EA	\$ 435.00	\$ 23,490.00
748400000-N	Z	SP	Microwave Vehicle Detector	1	EA	\$ 22,000.00	\$ 22,000.00
751600000-E	Z	1730	Communications Cable (24 Fiber)	24,575	LF	\$ 4.75	\$ 116,731.25
752800000-E	Z	1730	Drop Cable (12 Fiber)	15,910	LF	\$ 4.30	\$ 68,413.00
754000000-N	Z	1731	Splice Enclosure	14	EA	\$ 3,000.00	\$ 42,000.00
754100000-N	Z	1731	Modify Splice Enclosure	11	EA	\$ 2,200.00	\$ 24,200.00
755200000-N	Z	1731	Interconnect Center	23	EA	\$ 2,200.00	\$ 50,600.00
756600000-N	Z	1733	Delineator Marker	25	EA	\$ 170.00	\$ 4,250.00
758800000-N	Z	SP	Metal Pole with Single Mast Arm	20	EA	\$ 32,000.00	\$ 640,000.00
759000000-N	Z	SP	Metal Pole with Dual Mast Arm	3	EA	\$ 48,000.00	\$ 144,000.00
761300000-N	Z	SP	Soil Test	18	EA	\$ 2,100.00	\$ 37,800.00
761410000-E	Z	SP	Drilled Pier Foundation	163	CY	\$ 1,750.00	\$ 285,250.00
763600000-N	Z	1745	Sign for Signals	50	EA	\$ 715.00	\$ 35,750.00
764220000-N	Z	1743	Type II Pedestal with Foundation	44	EA	\$ 3,800.00	\$ 167,200.00
768400000-N	Z	1750	Signal Cabinet Foundation	18	EA	\$ 2,800.00	\$ 50,400.00
774400000-N	Z	1751	Detector Card (Type 170)	79	EA	\$ 260.00	\$ 20,540.00
775600000-N	Z	1751	Controller with Cabinet (Type 2070L, Base Mounted)	19	EA	\$ 28,000.00	\$ 532,000.00
790100000-N	Z	1753	Cabinet Base Extender	19	EA	\$ 800.00	\$ 15,200.00
798000000-N	Z	SP	Generic Signal Item(Protective Coat for Double Mast Arm with Metal Pole)	3	EA	\$ 7,000.00	\$ 21,000.00
798000000-N	Z	SP	Generic Signal Item(Protective Coat for Single Mast Arm with Metal Pole)	20	EA	\$ 3,000.00	\$ 60,000.00
798000000-N	Z	SP	Generic Signal Item(Protective Coat for Pedestal)	41	EA	\$ 400.00	\$ 16,400.00
798000000-N	Z	SP	Generic Signal Item(Junction Box Markers)	36	EA	\$ 300.00	\$ 10,800.00
798000000-N	Z	SP	Generic Signal Item(Ethernet Edge Switch)	23	EA	\$ 3,500.00	\$ 80,500.00
798000000-N	Z	SP	Generic Signal Item(Digital CCTV Cameral Assmebly)	13	EA	\$ 7,000.00	\$ 91,000.00
798500000-N	Z	SP	Generic Signal Item(CCTV Wood Pole)	2	EA	\$ 4,000.00	\$ 8,000.00

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Line Item	Des	Sec No.	Description	Quantity	Unit	Price	Amount
798000000-E	Z	SP	Generic Signal Item(5/8"x10' Grounding Electrode)	6	EA	\$ 400.00	\$ 2,400.00
799000000-E	Z	SP	Generic Signal Item(#4 Solid Bare Grounding Conductor)	60	LF	\$ 9.00	\$ 540.00
799100000-E	Z	SP	Generic Signal Item(Ethernet Cable)	315	LF	\$ 5.00	\$ 1,575.00
			<u>RAILROAD</u>				
025500000-E	G	SP	Generic Grading Item (Excavation Within Railroad ROW - Hauling & Disposal of Contaminated Soils)	9,477	TON	\$ 100.00	\$ 947,700.00
380400000-E	T	SP	Aggregate Base Course (Subballast)	9,525	TON	\$ 50.00	\$ 476,250.00
382000000-E	T	SP	Railroad Track To Be Relocated	1,645	LF	\$ 100.00	\$ 164,500.00
382800000-E	T	SP	Railroad Track To Be Removed & Relaid	1,655	LF	\$ 300.00	\$ 496,500.00
385200000-E	T	SP	Railroad Detour Track To Be Constructed And Removed	1,660	LF	\$ 350.00	\$ 581,000.00
385600000-E	T	SP	Stone Ballast	5,190	TON	\$ 60.00	\$ 311,400.00
388300000-N	T	SP	Generic Trackwork Item (Remove Existing Railroad Signal)	1	LS	\$ 50,000.00	\$ 50,000.00
388300000-N	T	SP	Generic Trackwork Item (Temporary Railroad Signal)	1	LS	\$ 500,000.00	\$ 500,000.00
388300000-N	T	SP	Generic Trackwork Item (Proposed Railroad Signal)	2	LS	\$ 675,000.00	\$ 1,350,000.00
801400000-N	B	SP	Temporary Railroad Shoring For Bent, Station (Detour Bridge @ -L- STA 61+95 +/-)	1,225	SF	\$ 150.00	\$ 183,750.00
			<u>UTILITIES</u>				
283000000-N	D	858	Adjustment of Manholes	40	EA	\$ 1,300.00	\$ 52,000.00
284500000-N	D	858	Adjustment of Meter Boxes or Valve Boxes	2	EA	\$ 1,200.00	\$ 2,400.00
532520000-E	U	1510	2" Water Line (PVC, SDR 21)	404	LF	\$ 75.00	\$ 30,300.00
532560000-E	U	1510	6" Water Line (DI, PC 350)	4,051	LF	\$ 120.00	\$ 486,120.00
532560000-E	U	1510	6" Water Line (PVC, SDR 21)	569	LF	\$ 120.00	\$ 68,280.00
532580000-E	U	1510	8" Water Line (DI, PC 350)	6,678	LF	\$ 140.00	\$ 934,920.00
532580000-E	U	1510	8" Water Line (DI RJ, PC 350)	42	LF	\$ 140.00	\$ 5,880.00
532600000-E	U	1510	10" Water Line (DI, PC 350)	131	LF	\$ 180.00	\$ 23,580.00
532600000-E	U	1510	10" Water Line (DI RJ, PC 350)	672	LF	\$ 180.00	\$ 120,960.00
532600000-E	U	1510	12" Water Line (DI, PC 350)	4,527	LF	\$ 200.00	\$ 905,400.00
532660000-E	U	1510	16" Water Line (DI, PC 250)	702	LF	\$ 375.00	\$ 263,250.00
532700000-E	U	1510	20" Water Line (DI, PC 250)	1,879	LF	\$ 400.00	\$ 751,600.00
532700000-E	U	1510	20" Water Line (DI RJ, PC 250)	703	LF	\$ 400.00	\$ 281,200.00
532900000-E	U	1510	Ductile Iron Water Pipe Fittings	97,190	LB	\$ 14.00	\$ 1,360,660.00
553600000-E	U	1515	2" Valve	1	EA	\$ 2,200.00	\$ 2,200.00
553800000-E	U	1515	4" Valve	1	EA	\$ 2,900.00	\$ 2,900.00
554000000-E	U	1515	6" Valve	37	EA	\$ 3,150.00	\$ 116,550.00
554600000-E	U	1515	8" Valve	14	EA	\$ 4,150.00	\$ 58,100.00
555200000-E	U	1515	10" Valve	3	EA	\$ 5,500.00	\$ 16,500.00
555800000-E	U	1515	12" Valve	4	EA	\$ 7,800.00	\$ 31,200.00
555860000-E	U	1515	16" Valve	1	EA	\$ 21,000.00	\$ 21,000.00
555900000-E	U	1515	20" Valve	2	EA	\$ 32,000.00	\$ 64,000.00
557160000-E	U	1515	6" Tapping Valve	2	EA	\$ 14,000.00	\$ 28,000.00
557300000-E	U	1515	20" Tapping Valve	2	EA	\$ 55,000.00	\$ 110,000.00
558920000-E	U	1515	2" Air Release Valve	1	EA	\$ 17,000.00	\$ 17,000.00
560600000-E	U	1515	2" Blow Off	5	EA	\$ 5,000.00	\$ 25,000.00
564310000-E	U	1515	3/4" Water Meter	9	EA	\$ 3,100.00	\$ 27,900.00
564800000-N	U	1515	Relocate Water Meter	19	EA	\$ 2,700.00	\$ 51,300.00
564900000-N	U	1515	Reconnect Water Meter	15	EA	\$ 2,000.00	\$ 30,000.00
565610000-E	U	1515	Relocate 1" RPZ Back-Flow Preventor	1	EA	\$ 3,500.00	\$ 3,500.00
565610000-E	U	1515	Relocate 1.5" RPZ Back-Flow Preventor	1	EA	\$ 5,000.00	\$ 5,000.00
566600000-E	U	1515	Fire Hydrant	16	EA	\$ 9,250.00	\$ 148,000.00
567200000-N	U	1515	Relocate Fire Hydrant	8	EA	\$ 5,000.00	\$ 40,000.00
567300000-E	U	1515	Fire Hydrant Leg	329	LF	\$ 140.00	\$ 46,060.00
568650000-E	U	1515	Water Service Line	1,385	LF	\$ 75.00	\$ 103,875.00
569130000-E	U	1520	8" Sanitary Gravity Sewer (PVC SDR 35)	5,806	LF	\$ 275.00	\$ 1,596,650.00
569130000-E	U	1520	8" Sanitary Gravity Sewer (DI PC 50)	156	LF	\$ 210.00	\$ 32,760.00
569130000-E	U	1520	8" Sanitary Gravity Sewer (DI PC 52)	374	LF	\$ 210.00	\$ 78,540.00
569130000-E	U	1520	8" Sanitary Gravity Sewer (DI PC 350)	1,696	LF	\$ 210.00	\$ 356,160.00
569150000-E	U	1520	12" Sanitary Gravity Sewer (PVC SDR 35)	406	LF	\$ 250.00	\$ 101,500.00
570930000-E	U	1520	6" Force Main Sewer (PVC SDR 21)	74	LF	\$ 220.00	\$ 16,280.00
570940000-E	U	1520	8" Force Main Sewer (PVC SDR 21)	1,934	LF	\$ 175.00	\$ 338,450.00
576800000-N	U	1520	Sanitary Sewer Clean-Out	4	EA	\$ 2,500.00	\$ 10,000.00
576900000-E	U	1520	Ductile Iron Sewer Pipe Fittings	1,805	LB	\$ 18.00	\$ 32,490.00

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5775000000-E	U	1525	4' Dia. Utility Manhole	70	EA	\$ 8,200.00	\$ 574,000.00
5781000000-E	U	1525	Utility Manhole Wall, 4' Dia.	194.3	LF	\$ 600.00	\$ 116,580.00
5776000000-E	U	1525	5' Dia. Utility Manhole	3	EA	\$ 12,000.00	\$ 36,000.00
5782000000-E	U	1525	Utility Manhole Wall, 5' Dia.	16.3	LF	\$ 750.00	\$ 12,225.00
5798000000-E	U	1530	Abandon 2" Utility Pipe (Water)	263	LF	\$ 16.00	\$ 4,208.00
5798000000-E	U	1530	Abandon 4" Utility Pipe (Sewer)	89	LF	\$ 18.00	\$ 1,602.00
5800000000-E	U	1530	Abandon 6" Utility Pipe (Water)	7,295	LF	\$ 12.00	\$ 87,540.00
5800000000-E	U	1530	Abandon 6" Utility Pipe (Sewer)	1,008	LF	\$ 12.00	\$ 12,096.00
5801000000-E	U	1530	Abandon 8" Utility Pipe (Water)	6,968	LF	\$ 18.00	\$ 125,424.00
5801000000-E	U	1530	Abandon 8" Utility Pipe (Sewer)	10,093	LF	\$ 18.00	\$ 181,674.00
5802000000-E	U	1530	Abandon 10" Utility Pipe (Water)	520	LF	\$ 23.00	\$ 11,960.00
5804000000-E	U	1530	Abandon 12" Utility Pipe (Water)	5,101	LF	\$ 22.00	\$ 112,222.00
5805000000-E	U	1530	Abandon 12" Utility Pipe (Sewer)	396	LF	\$ 22.00	\$ 8,712.00
5810000000-E	U	1530	Abandon 16" Utility Pipe (Water)	575	LF	\$ 35.00	\$ 20,125.00
5812000000-E	U	1530	Abandon 20" Utility Pipe (Water)	2,422	LF	\$ 40.00	\$ 96,880.00
5815000000-N	U	1530	Remove Water Meter	27	EA	\$ 800.00	\$ 21,600.00
5815500000-N	U	1530	Remove Fire Hydrant	15	EA	\$ 2,200.00	\$ 33,000.00
5882000000-N	U	1530	Remove Water Valve	1	EA	\$ 800.00	\$ 800.00
5816000000-N	U	1530	Abandon Utility Manhole	43	EA	\$ 2,400.00	\$ 103,200.00
5828000000-N	U	1530	Remove Utility Manhole	7	EA	\$ 3,400.00	\$ 23,800.00
5835700000-E	U	1540	16" Encasement Pipe (Wall Thickness= 0.250")	604	LF	\$ 260.00	\$ 157,040.00
5835700000-E	U	1540	16" Encasement Pipe (Wall Thickness= 0.312")	330	LF	\$ 260.00	\$ 85,800.00
5835000000-E	U	1530	22" Encasement Pipe (Wall Thickness= 0.250")	174	LF	\$ 340.00	\$ 59,160.00
5836000000-E	U	1540	24" Encasement Pipe (Wall Thickness= 0.250")	197	LF	\$ 360.00	\$ 70,920.00
5836400000-E	U	1540	36" Encasement Pipe (Wall Thickness= 0.312")	174	LF	\$ 440.00	\$ 76,560.00
5872500000-E	U	1550	Bore And Jack Of 16"(Wall Thickness= 0.250")	604	LF	\$ 800.00	\$ 483,200.00
5872500000-E	U	1550	Bore And Jack Of 16"(Wall Thickness= 0.312")	330	LF	\$ 800.00	\$ 264,000.00
5872500000-E	U	1550	Bore And Jack Of 22"	174	LF	\$ 1,000.00	\$ 174,000.00
5872500000-E	U	1550	Bore And Jack Of 24"	197	LF	\$ 1,400.00	\$ 275,800.00
5872500000-E	U	1550	Bore And Jack Of 36"	174	LF	\$ 2,400.00	\$ 417,600.00
5882000000-N	U	SP	Generic Utility Item- Adjust Water Meter	2	EA	\$ 1,200.00	\$ 2,400.00
5882000000-N	U	SP	Generic Utility Item - Rebuild Manhole	1	EA	\$ 2,500.00	\$ 2,500.00
5882000000-N	U	SP	Generic Utility Item-Plug Manhole	11	EA	\$ 2,500.00	\$ 27,500.00
5882000000-N	U	SP	Generic Utility Item-Outside Drop Assembly for 4' Dia. MH.	1	EA	\$ 3,000.00	\$ 3,000.00
5882000000-N	U	SP	Generic Utility Item-Outside Drop Assembly for 5' Dia. MH.	3	EA	\$ 3,500.00	\$ 10,500.00
5882000000-N	U	SP	Generic Utility Item-Remove Sewer Cleanout	4	EA	\$ 3,000.00	\$ 12,000.00
5589200000-N	U	SP	Generic Utility Item-Remove-2" Air Release Valve (Sewer)	1	EA	\$ 13,000.00	\$ 13,000.00
5888000000-N	U	SP	Generic Utility Item-Remove Sanitary Sewer 8" Pipe	1	LF	\$ 5,000.00	\$ 5,000.00
			STRUCTURES				
8017000000-N	B	SP	Construction, Maintenance, & Removal of Temp Access at Sta. -L- 161+00 +/-	1	LS	\$ 1,500,000.00	\$ 1,500,000.00
8021000000-N	B	SP	Removal of Existing Structure at Station -L- Sta. 53+60 +/- (3-Span, 8,820 SF)	8,820	SF	\$ 35.00	\$ 308,700.00
8021000000-N	B	SP	Removal of Existing Structure at Station -L- Sta. 57+50 +/- (4-Span, 7,615 SF)	7,615	SF	\$ 35.00	\$ 266,525.00
8021000000-N	B	SP	Removal of Existing Structure at Station -L- Sta. 62+35 +/- (4-Span Railroad Bridge, 3,130 SF)	3,130	SF	\$ 40.00	\$ 125,200.00
8021000000-N	B	SP	Removal of Existing Structure at Station -L- Sta. 171+70 +/- (10-Span, 27,180 SF)	27,180	SF	\$ 40.00	\$ 1,087,200.00
Site 4	B		-L- Bridge Sta. 159+80 +/- RT to 178+43 +/- RT (22-Span, 56' wide x 1,827' long) (NBL)	102,300	SF	\$ 275.00	\$ 28,132,500.00
Site 4	B		-L- Bridge Sta. 160+66 +/- LT to 178+43 +/- LT (21-Span, 56' wide x 1,741' long) (SBL)	97,500	SF	\$ 275.00	\$ 26,812,500.00
Site 1	B		-Y4- Bridge Sta. 24+99 +/- to 27+07 +/- (2-Span, 61' wide x 208' long)	12,690	SF	\$ 225.00	\$ 2,855,250.00
Site 3	B		-Y7- Bridge Sta. 129+20 +/- to 130+80 +/- (2-Span, 34' wide x 159' long)	5,410	SF	\$ 1,050.00	\$ 5,680,500.00
Site 2	B		-Y7_DET- Bridge Sta. 29+13 +/- to 31+03 +/- (4-Span, 15'-4" wide x 190' long)	2,915	SF	\$ 1,150.00	\$ 3,352,432.16

North Carolina Department of Transportation
Preliminary Estimate

TIP No. **U-4700A**

Route: US 321

From: US 70 Interchange in Hickory to Just South of US 321A / New Farm Rd.

Typical Section: 6-Lane Superstreet

90% PLANS

County: **Catawba, Caldwell, & Burke**

Prepared By: RK&K Engineers

Requested By: Statewide Tier Priority / Estimate Improvement

Priced By: Chris Smith, PE

Date

8/18/2022

2/9/2026

2/23/2026

CONSTR. COST
\$282,400,000

Line Item	Des	Sec No.	Description	Quantity	Unit	Price	Amount
	B		Bridge Approach Slabs, Station -L- 169+30 +/- RT (2,790 SF) (NBL)	2,790	SF	\$ 45.00	\$ 125,550.00
	B		Bridge Approach Slabs, Station -L- 169+73 +/- LT (2,790 SF) (SBL)	2,790	SF	\$ 45.00	\$ 125,550.00
	B		Bridge Approach Slabs, Station -Y4- 26+03 +/- (5,575 SF)	5,575	SF	\$ 45.00	\$ 250,875.00
			Bridge Site #5 - 25+15.01 -Y19FLY-				
8070000000-E	B	410	Foundation Excavation (Bridge) at Bent 1	1	LS	\$ 25,000.00	\$ 25,000.00
8112730000-N	B	450	PDA Testing	2	EA	\$ 3,100.00	\$ 6,200.00
8147000000-E	B	420	Reinforced Concrete Deck Slab	6,625	SF	\$ 60.00	\$ 397,500.00
8161000000-E	B	420	Grooving Bridge Floors	6,843	SF	\$ 1.40	\$ 9,580.20
8182000000-E	B	420	Class A Concrete (Bridge)	224.7	CY	\$ 1,600.00	\$ 359,520.00
8210000000-N	B	422	Bridge Approach Slabs, Station 25+15.01 -Y19FLY-	1	LS	\$ 75,000.00	\$ 75,000.00
8217000000-E	B	425	Reinforcing Steel (Bridge)	28,147	LB	\$ 1.80	\$ 50,664.60
8238000000-E	B	425	Spiral Column Reinforcing Steel (Bridge)	1,575	LB	\$ 4.00	\$ 6,300.00
8265000000-E	B	430	54" Prestressed Concrete Girders	742.17	LF	\$ 440.00	\$ 326,554.80
8328200000-E	B	450	Pile Driving Equipment Setup For HP 14 X 73 Steel Piles	34	EA	\$ 3,000.00	\$ 102,000.00
8384000000-E	B	450	HP 14 X 73 Steel Piles	2,430	LF	\$ 85.00	\$ 206,550.00
8503000000-E	B	460	Concrete Barrier Rail	375.47	LF	\$ 200.00	\$ 75,094.00
8531000000-E	B	462	4" Slope Protection	42.1	SY	\$ 265.00	\$ 11,156.50
8657000000-N	B	430	Elastomeric Bearings (16 Type V)	1	LS	\$ 20,000.00	\$ 20,000.00
8692000000-N	B	SP	Foam Joint Seals	1	LS	\$ 25,000.00	\$ 25,000.00
8801000000-E	W	SP	MSE Retaining Wall No.		SF		
8801000000-E	W	SP	MSE Retaining Wall No.		SF		
			Bridge Site #6 - 14+53.17 -Y19FLY-				
8105560000-E	B	411	4'-0" Dia. Drilled Piers In Soil	24	FT	\$ 1,800.00	\$ 43,200.00
8105660000-E	B	411	4'-0" Dia. Drilled Piers Not In Soil	26	FT	\$ 2,200.00	\$ 57,200.00
8112730000-N	B	450	PDA Testing	1	EA	\$ 3,100.00	\$ 3,100.00
8113000000-N	B	411	SID Inspections	1	EA	\$ 1,500.00	\$ 1,500.00
8114000000-N	B	411	SPT Testing	1	EA	\$ 1,500.00	\$ 1,500.00
8115000000-N	B	411	CSL Testing	1	EA	\$ 5,000.00	\$ 5,000.00
8147000000-E	B	420	Reinforced Concrete Deck Slab	4,686	SF	\$ 60.00	\$ 281,160.00
8161000000-E	B	420	Grooving Bridge Floors	4,973	SF	\$ 1.40	\$ 6,962.20
8182000000-E	B	420	Class A Concrete (Bridge)	128.3	CY	\$ 1,600.00	\$ 205,280.00
8210000000-N	B	422	Bridge Approach Slabs, Station 14+53.17 -Y19FLY-	1	LS	\$ 66,000.00	\$ 66,000.00
8217000000-E	B	425	Reinforcing Steel (Bridge)	20,664	LB	\$ 1.80	\$ 37,195.20
8238000000-E	B	425	Spiral Column Reinforcing Steel (Bridge)	3,062	LB	\$ 4.00	\$ 12,248.00
8262000000-E	B	430	45" Prestressed Concrete Girders	591.17	LF	\$ 400.00	\$ 236,468.00
8328200000-E	B	450	Pile Driving Equipment Setup For HP 14 X 73 Steel Piles	10	EA	\$ 3,000.00	\$ 30,000.00
8384000000-E	B	450	HP 14 X 73 Steel Piles	575	LF	\$ 85.00	\$ 48,875.00
8391000000-N	B	450	Steel Pile Points	5	EA	\$ 200.00	\$ 1,000.00
8503000000-E	B	460	Concrete Barrier Rail	299.90	LF	\$ 200.00	\$ 59,980.00
8531000000-E	B	462	4" Slope Protection	25.2	SY	\$ 265.00	\$ 6,678.00
8657000000-N	B	430	Elastomeric Bearings	1	LS	\$ 20,000.00	\$ 20,000.00
8692000000-N	B	SP	Foam Joint Seals	1	LS	\$ 25,000.00	\$ 25,000.00
8801000000-E	W	SP	MSE Retaining Wall No. 17	2,026	SF	\$ 140.00	\$ 283,640.00
8801000000-E	W	SP	MSE Retaining Wall No. 18	4,327	SF	\$ 140.00	\$ 605,780.00
			Bridge Site #7 - 37+08.33 -Y21-				
8070000000-E	B	410	Foundation Excavation (Bridge) at Bent 1	1	LS	\$ 20,000.00	\$ 20,000.00
8112730000-N	B	450	PDA Testing	1	EA	\$ 3,100.00	\$ 3,100.00
8147000000-E	B	420	Reinforced Concrete Deck Slab	9,463	SF	\$ 60.00	\$ 567,780.00
8161000000-E	B	420	Grooving Bridge Floors	10,001	SF	\$ 1.40	\$ 14,001.40
8182000000-E	B	420	Class A Concrete (Bridge)	205.5	CY	\$ 1,600.00	\$ 328,800.00
8210000000-N	B	422	Bridge Approach Slabs, Station 37+08.33 -Y21-	1	LS	\$ 76,000.00	\$ 76,000.00
8217000000-E	B	425	Reinforcing Steel (Bridge)	28,090	LB	\$ 1.80	\$ 50,562.00
8238000000-E	B	425	Spiral Column Reinforcing Steel (Bridge)	1,890	LB	\$ 4.00	\$ 7,560.00
8265000000-E	B	430	54" Prestressed Concrete Girders	978.50	LF	\$ 440.00	\$ 430,540.00
8328200000-E	B	450	Pile Driving Equipment Setup For HP 14 X 73 Steel Piles	36	EA	\$ 3,000.00	\$ 108,000.00
8384000000-E	B	450	HP 14 X 73 Steel Piles	1,220	LF	\$ 85.00	\$ 103,700.00
8391000000-N	B	450	Steel Pile Points	36	EA	\$ 200.00	\$ 7,200.00
8475000000-E	B	460	Two Bar Metal Rail	313.67	LF	\$ 215.00	\$ 67,439.05
8517000000-E	B	460	1'-2" X 3'-3" Concrete Parapet	164.33	LF	\$ 230.00	\$ 37,795.90
8517000000-E	B	460	1'-2" X 3'-0" Concrete Parapet	164.33	LF	\$ 230.00	\$ 37,795.90

North Carolina Department of Transportation
Preliminary Estimate

TIP No. **U-4700A**

Route: US 321

From: US 70 Interchange in Hickory to Just South of US 321A / New Farm Rd.

Typical Section: 6-Lane Superstreet

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2/9/2026
2/23/2026

CONSTR. COST
\$282,400,000

Line Item	Des	Sec No.	Description	Quantity	Unit	Price	Amount
8531000000-E	B	462	4" Slope Protection	34.2	SY	\$ 265.00	\$ 9,063.00
8657000000-N	B	430	Elastomeric Bearings (24 Type V)	1	LS	\$ 30,000.00	\$ 30,000.00
8801000000-E	W	SP	MSE Retaining Wall No.				
8801000000-E	W	SP	MSE Retaining Wall No.				
			Retaining Walls				
8801000000-E	W	SP	MSE Retaining Wall No. 6	9,300	SF	\$ 140.00	\$ 1,302,000.00
8801000000-E	W	SP	MSE Retaining Wall No. 7	12,500	SF	\$ 140.00	\$ 1,750,000.00
8802010000-E	W	SP	Soil Nail Retaining Wall No. 2	2,100	SF	\$ 185.00	\$ 388,500.00
8802014000-E	W	SP	Soldier Pile Retaining Wall No. 1	8,300	SF	\$ 300.00	\$ 2,490,000.00
8802014000-E	W	SP	Soldier Pile Retaining Wall No. 5	790	SF	\$ 300.00	\$ 237,000.00
8802014000-E	W	SP	Soldier Pile Retaining Wall No. 8	3,700	SF	\$ 300.00	\$ 1,110,000.00
8802030000-E	W	454	Segmental Gravity Retaining Wall No. 3	520	SF	\$ 150.00	\$ 78,000.00
			Reinforced Concrete Box Culverts				
	C		RCBC Extension 2 @ 10' x 10' - Station -L- 96+30	43	LF	\$ 9,600.00	\$ 412,800.00
	C		RCBC 1 @ 7'x7' - Station -L- 158+50	538	LF	\$ 2,900.00	\$ 1,560,200.00
			RCBC #3 - 8' x 8' - Station -Y19B- 11+79.50				
8126000000-N	C	414	Culvert Excavation, Sta. 11+79.50 -Y19B-	1	LS	\$ 10,000.00	\$ 10,000.00
8133000000-E	C	414	Foundation Conditioning Material, Box Culvert	182.6	TON	\$ 95.00	\$ 17,347.00
8196000000-E	C	420	Class A Concrete (Culvert)	319.5	CY	\$ 1,100.00	\$ 351,450.00
8245000000-E	C	425	Reinforcing Steel (Culvert)	38,842	LBS	\$ 2.65	\$ 102,931.30
			RCBC #4 - 8' x 8' - Station -Y19- 19+85.00				
8126000000-N	C	414	Culvert Excavation, Sta. 19+85.00 -Y19-	1	LS	\$ 15,000.00	\$ 15,000.00
8133000000-E	C	414	Foundation Conditioning Material, Box Culvert	259.0	TON	\$ 95.00	\$ 24,605.00
8196000000-E	C	420	Class A Concrete (Culvert)	376.1	CY	\$ 1,100.00	\$ 413,710.00
8245000000-E	C	425	Reinforcing Steel (Culvert)	55,592	LBS	\$ 2.65	\$ 147,318.80
			RCBC #5 - 8' x 8' - Station -DR4- 11+81.00				
8126000000-N	C	414	Culvert Excavation, Sta. 11+81.00 -DR4-	1	LS	\$ 15,000.00	\$ 15,000.00
8133000000-E	C	414	Foundation Conditioning Material, Box Culvert	29.0	TON	\$ 95.00	\$ 2,755.00
8196000000-E	C	420	Class A Concrete (Culvert)	60.9	CY	\$ 1,100.00	\$ 66,990.00
8245000000-E	C	425	Reinforcing Steel (Culvert)	5,679	LBS	\$ 2.65	\$ 15,049.35
			Miscellaneous (5% Strs & Util)				\$ 4,964,000.00
			Miscellaneous (10% Roadway)				\$ 11,667,982.65

Lgth 4.768

Contract Cost	\$	243,385,000.00
E. & C. 16%	\$	39,015,000.00
Construction Cost	\$	282,400,000.00