



MEMORANDUM

Date: February 1, 2024

To: Engineering Services staff and consultants

From: General Services – Project Controls and Compliance Division Manager, Becky Chambers, PE

RE: Construction Costs

The purpose of this memorandum is to inform Engineering Services staff and consultants of the most recent construction costs General Services has seen in our recent bids.

While some material prices have decreased many material prices continue to increase and labor costs have risen higher than we have seen previously.

The following items are included in this file to assist in preparing Engineering Services cost estimates:

1. This memorandum
2. Unit Price Update February 2024.pdf
 - a. These are the recommended unit price ranges based on quantities provided from recent bids.
 - b. If you have information (i.e., from supplier) regarding higher or lower unit prices, please share with me at becky.chambers@charlottenc.gov so list can be updated.

Note: Public bid tabs will be available following City Council approval of the construction contracts for projects here: [City of Charlotte \(bonfirehub.com\)](http://bonfirehub.com)

General Services will continue to monitor bid prices and project cost estimates closely.

Recommended Unit Price Update

February 2024

CIC	Section	Item Description	low quantity	high quantity	Unit	Recommended low quantity Unit Price	Recommended high quantity Unit Price	Notes
80135.000	SP	Select Material	100	9500	TN	\$ 60.00	\$ 45.00	
80136.000	SP	Rock Removal	50	500	CY	\$ 500.00	\$ 200.00	
10226.101	226	Undercut Excavation	500	2700	CY	\$ 70.00	\$ 40.00	
10270.000	270	Geotextile for Soil Stabilization	500	5100	SY	\$ 8.00	\$ 5.00	
10300.000	300	Foundation Conditioning Material, Minor Structures	50	650	TN	\$ 75.00	\$ 70.00	
10300.100	300	Foundation Conditioning Geotextile	50	2050	SY	\$ 10.00	\$ 5.00	
10310.003	310	15" R.C. Pipe Culverts, Class III		500	LF		\$ 120.00	
10310.004	310	15" R.C. Pipe Culverts, Class IV	40	2650	LF	\$ 145.00	\$ 125.00	
10310.006	310	18" R.C. Pipe Culverts, Class III		375	LF		\$ 135.00	
10310.007	310	18" R.C. Pipe Culverts, Class IV		600	LF		\$ 140.00	
10310.009	310	24" R.C. Pipe Culverts, Class III	5	750	LF	\$ 205.00	\$ 160.00	
10310.010	310	24" R.C. Pipe Culverts, Class IV	60	105	LF	\$ 210.00	\$ 190.00	
10310.012	310	30" R.C. Pipe Culverts, Class III	50		LF	\$ 240.00		
10310.015	310	36" R.C. Pipe Culverts, Class III		780	LF		\$ 250.00	
10310.016	310	36" R.C. Pipe Culverts, Class IV			LF		\$ 300.00	
10310.022	310	48" R.C. Pipe Culverts, Class IV	35			\$ 415.00		
10310.078	310	15" R.C. Flared End Section (CLDS 20.22)			EA	\$ 2,000.00		
10310.XXX	310	24" R.C. Flared End Section (CLDS 20.22)	2		EA	\$ 2,900.00		
10310.091	310	36" R.C. Flared End Section (CLDS 20.22)	1		EA	\$ 4,700.00		
10520.000	520	Aggregate Base Course	15	2800	TN	\$ 75.00	\$ 60.00	
10607.059	607	Milling Asphalt Pavement, 0.0" to 3.0"	350	5700	SY	\$ 30.00	\$ 17.00	
10610.051	610	Asphalt Concrete Base Course, Type B 25.0C	80	680	TN	\$ 220.00	\$ 115.00	mid quantity of 300, \$170/TN
10610.201	610	Asphalt Concrete Intermediate Course, Type I 19.0C	5	7400	TN	\$ 280.00	\$ 115.00	mid quantity of 300, \$170/TN
10610.451	610	Asphalt Concrete Surface Course, Type S 9.5C	80	5300	TN	\$ 220.00	\$ 115.00	mid quantity of 300, \$170/TN
10620.000	620	Asphalt Binder for Plant Mix			TN	\$ 900.00	\$ 900.00	
10654.000	654	Asphalt Plant Mix, Pavement Repair	15	1900	TN	\$ 335.00	\$ 250.00	
10840.022	840	Masonry Drainage Structures	5	90	EA	\$ 5,350.00	\$ 4,750.00	
10840.101	840	Masonry Drainage Structures	2	130	LF	\$ 1,000.00	\$ 870.00	
10840.355	840	Frame with Grate (all types)	2	100	EA	\$ 1,800.00	\$ 1,400.00	
10840.053	840	Manhole Frame and Cover, NCDOT Std 840.54	1	9	EA	\$ 800.00	\$ 800.00	
10846.000	846	6"x18" Concrete Curb	50	450	LF	\$ 45.00	\$ 38.00	
10846.052	846	2' 6" Concrete Curb and Gutter	400	9500	LF	\$ 45.00	\$ 38.00	
10848.000	848	4 " Concrete Sidewalk or pad	575	6600	SY	\$ 80.00	\$ 65.00	
81855.000	SP	6" Concrete SUP	900	1800	SY	\$ 100.00	\$ 85.00	
81840.000	SP	6" Concrete Greenway (fiber reinforced)			SY	\$ 110.00		
10848.051	848	6" Concrete Driveways	500	1350	SY	\$ 110.00	\$ 105.00	
81062.000	SP	Pedestrian Refuge Island (Pass-Thru)	40		SY	\$ 150.00		
80218.000	SP	6" Concrete Wheelchair Ramps	400	1450	SY	\$ 280.00	\$ 250.00	
10852.001	852	5" Monolithic Concrete Islands	50	300	SY	\$ 150.00	\$ 130.00	
10852.001	876	Geotextile for Drainage	350	3900	SY	\$ 5.00	\$ 5.00	
10876.002	876	Riprap (Class A, Class B, Class I & Class II)	200	3000	TN	\$ 85.00	\$ 80.00	
81006.000	SP	Wall, Precast Modular Block Retaining	100	2500	SF	\$ 200.00	\$ 55.00	very project specific, particularly regarding wall height
80010.000	SP	Safety Rail, Metal CLDS 50.04	30	400	LF	\$ 150.00	\$ 90.00	
10901.002	901	Contractor Furnished, Type E Sign	50	450	SF	\$ 50.00	\$ 25.00	
10903.001	903	Supports, 3-lb (4.5 kg) Steel U-Channel	75	1445	LF	\$ 40.00	\$ 10.00	
10904.101	904	Sign Erection, Type E	6	100	EA	\$ 175.00	\$ 140.00	
11205.052	1205	Thermoplastic Pavement Marking Lines, 4", 90 mils or 120 mils	400	13000	LF	\$ 3.00	\$ 1.00	
11205.039	1205	Thermoplastic Pavement Marking Lines, 6", 90 mils or 120 mils		2000	LF		\$ 2.00	
11205.026	1205	Thermoplastic Pavement Marking Lines, 8", 90 mils or 120 mils	800	3600	LF	\$ 7.00	\$ 3.00	
11205.036	1205	Thermoplastic Pavement Marking Lines, 12", 90 mils or 120 mils			LF		\$ 6.00	
11205.082	1205	Thermoplastic Pavement Marking Lines, 24", 90 mils or 120 mils	90	500	LF	\$ 30.00	\$ 13.00	

<i>CIC</i>	<i>Section</i>	<i>Item Description</i>	<i>low quantity</i>	<i>high quantity</i>	<i>Unit</i>	<i>Recommended low quantity Unit Price</i>	<i>Recommended high quantity Unit Price</i>	<i>Notes</i>
11205.185	1205	Thermoplastic Pavement Marking Symbols, Left-Turn Arrow		25	EA		\$ 100.00	
11205.183	1205	Thermoplastic Pavement Marking Symbols, (Bicycle) 120 mils		8	EA		\$ 950.00	
11205.184	1205	Thermoplastic Pavement Marking Symbols, (Bicycle Arrow), 120 mils		8	EA		\$ 400.00	
81874.000	SP	Green Thermoplastic		1230	SF		\$ 20.00	
11715.004	1715	Unpaved Trenching (2-2" SCH80)	50	2930	LF	\$ 50.00	\$ 30.00	
11716.001	1716	Junction Box (13"x24"x12" PC, TRAFFIC SIGNAL logo)	1	15	EA	\$ 2,500.00	\$ 1,000.00	
81782.000	SP	Concrete Foundation for 10 foot Metal Base/Pole/Pedestrian Signal	2	15	EA	\$ 3,500.00	\$ 2,500.00	
81785.000	SP	Concrete base for controller cabinet	2		EA	\$ 3,000.00		
20017.000	SPU	Fire Hydrant			EA	\$ 10,000.00		
	SPU	Relocate Fire Hydrant	6		EA	\$ 9,000.00		
	SPU	4" DIP Restrained Joint Water Pipe, PC 350		60	LF		\$ 300.00	
21041.000	SPU	12" DIP Restrained Joint Water Pipe, PC 350		900	LF		\$ 400.00	
21229.000	SPU	DI Restrained Joint Water Pipe Fittings		12300	LB		\$ 15.00	
20154.000	SPU	Foundation Conditioning Material for Utilities	60	130	TN	\$ 88.00	\$ 80.00	
20006.001	SPU	Select Backfill Material for Utilities	80		TN	\$ 68.00		
	SPU	4" Gate Valve and Valve Box	4		EA	\$ 2,500.00		
	SPU	12" Gate Valve and Valve Box	4		EA	\$ 6,500.00		
	SPU	1" Copper Water Tubing, Type K	85		LF	\$ 70.00		
	SPU	2" Copper Water Tubing, Type K	75		LF	\$ 100.00		
	SPU	8" DI Sewer Pipe, PC 350	300		LF	\$ 550.00		
	SPU	4' Dia Precast Conc Manhole, 0-6' Depth	7		EA	\$ 7,700.00		