

# Minnesota Highway Construction Cost Index 1<sup>st</sup> Quarter 2021

## Minnesota Highway Construction Cost Index

The Minnesota Highway Construction Cost Index is an indicator of price trends for highway construction. Each quarter, an average unit price is computed for six indicator items. The unit prices are based upon bids from projects let during that quarter. Prices from projects which cost less than \$100,000, and projects which use Design Build, Contract Manager/General Contractor (CMGC), Indefinite Delivery/Indefinite Delivery (IDIQ) and Emergency Order Project methods of contracting are not included in the Cost Index. The average unit price and quantity for these six indicator items along with the corresponding 1987 Base Year data is used to compute three sub-indices and the composite index. Each index and the associated indicator items are listed in Table 1.

**Table 1/Indices and Indicator Items**

Index	Indicator Items
Excavation Index	Excavation
Surfacing Index	Plant-Mixed Bituminous Pavement, Concrete Pavement
Structures Index	Structural Concrete, Reinforcing Steel, Structural Concrete
Composite Index	All Indicator Items

## 1<sup>st</sup> Quarter 2021 Indices

The Composite Minnesota Highway Construction Cost Index for the 1<sup>st</sup> Quarter 2021 was not computed due to the absence of data for the Structural Steel Indicator Item. Without a unit price for each indicator item, the resulting index is not comparable to previous indices. The other 1<sup>st</sup> Quarter 2021 Indices are compared to the 1<sup>st</sup> Quarter 2020 Indices in Table 2.

**Table 2/1<sup>st</sup> Quarter 2020 and 2021 Indices**

<b>Index</b>	<b>1<sup>st</sup> Quarter 2020</b>	<b>1<sup>st</sup> Quarter 2021</b>
Excavation Index	448.30	343.71
Surfacing Index	333.64	314.74
Structures Index	Insufficient data to compute index.	Insufficient data to compute index.
Composite Index	Insufficient data to compute index.	Insufficient data to compute index.

The average number of bidders per project in the 1<sup>st</sup> Quarter of 2021 was 4.45. In comparison, the average number of bidders per project in the 1<sup>st</sup> Quarter of 2020 was 3.12. Additional project data about the 1<sup>st</sup> Quarter of 2020 and 2021 are included in Table 3.

**Table 3/1<sup>st</sup> Quarter 2020 and 2021 Project Data**

<b>Description</b>	<b>1<sup>st</sup> Quarter 2020</b>	<b>1<sup>st</sup> Quarter 2021</b>
Number of Awarded Projects	59	49
Cost of Awarded Projects	\$365,592,465.40	\$235,786,458.93
Number of Bidders	184	227
Average Number of Bidders	3.12	4.45
Number of Cost Index Projects	28	22
Cost of Cost Index Projects	\$85,446,877.92	\$57,489,058.53

The 1<sup>st</sup> Quarter 2021 Unit Prices for each indicator Item are compared to the 1<sup>st</sup> Quarter 2020 Unit Prices in Table 4.

**Table 4/1<sup>st</sup> Quarter 2020 and 2021 Indicator Item Unit Prices**

Indicator Item (Unit)	1 <sup>st</sup> Quarter 2020 Quantity	1 <sup>st</sup> Quarter 2020 Cost	1 <sup>st</sup> Quarter 2020 Unit Price	1 <sup>st</sup> Quarter 2021 Quantity	1 <sup>st</sup> Quarter 2021 Cost	1 <sup>st</sup> Quarter 2021 Unit Price
Excavation (CY)	812,484	\$7,302,485.26	\$8.99	1,254,904	\$8,633,797.40	\$6.88
Plant-Mixed Bituminous Pavement (Ton)	694,181	\$41,174,608.13	\$59.31	651,660	\$36,582,960.22	\$56.14
Concrete Pavement (CY)	174,240	\$28,807,505.91	\$165.33	50,494	\$7,760,000.21	\$153.68
Structural Concrete (CY)	7,108	\$6,717,998.82	\$945.13	4,460	\$3,672,203.82	\$823.36
Reinforcing Steel (lb.)	1,034,270	\$1,444,279.80	\$1.40	575,157	\$840,096.88	\$1.46
Structural Steel (lb.)	0.00	\$0.00	NA	0.00	\$0.00	NA

### Excavation

The average Excavation cost was \$6.88/CY, down \$2.11/CY from the 1<sup>st</sup> Quarter of 2020. Nine (9) projects were considered this quarter.

### Plant Mixed Bituminous Pavement

The average Plant Mixed Bituminous cost was \$56.14/ton, down \$3.17/ton from the 1<sup>st</sup> Quarter of 2020. Nineteen (19) projects were considered this quarter.

### Concrete Pavement

The average Concrete Pavement cost was \$153.68/CY, down \$11.65/CY from the 1<sup>st</sup> Quarter of 2020. Three (3) projects were considered this quarter.

## **Structural Concrete**

The average Structural Concrete cost was \$823.36/CY, down \$121.77/CY from the 1<sup>st</sup> Quarter of 2020. Seven (7) projects were considered this quarter.

## **Reinforcing Steel**

The average Reinforcing Steel cost was \$1.46/lb, up \$0.06/lb from the 1<sup>st</sup> Quarter of 2020. Six (6) projects were considered this quarter.

## **Structural Steel**

There were no eligible projects with Structural Steel this quarter.