Three Year Engineering Factors, SFY 2022 Report:

Overhead Costs per Total Construction Costs

Report Key:

Projects are grouped by Work Type 1, and then work types are used to group projects into categories:

Category	Work Type
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Category	work rype
MAJOR PROJECT	A- ADD LANES
MAJOR PROJECT	F- FREEWAY
MAJOR PROJECT	I- INTERCHANGE
MAJOR PROJECT	M- MAJOR BRIDGE
OTHER	E- ENHANCEMENTS
OTHER	W- SHOULDER WIDENING
TCOS	1- ITS
TCOS	2- ADA-TRANS
TCOS	B- BRIDGE REPLACEMENT
TCOS	G- PREV MAINT-BRIDGE
TCOS	H- HIGH TYPE RESURFACING
TCOS	J- PREV MAINT-PAVEMENT
TCOS	K- MED TYPE RESURFACING
TCOS	L- LOW TYPE RESURFACING
TCOS	O- OTHER
TCOS	P- PAVEMENT REPLACEMENT
TCOS	Q- CMAQ
TCOS	R- BRIDGE REHABILITATION
TCOS	X- SAFETY
TCOS	Y- ROUTINE MAINTENANCE

Note: Only the first work type is used. For instance, many projects include shoulder widening, but few projects have shoulder widening as their first work type.

Note: Since SFY 2015's report, all projects are in the seven, reorganized districts. The group of "various" districts has been removed.

Calculations:

Projects completed in the time frame are tabulated and categorized by primary work type and district. Excludes payment projects, right of way only projects, and other projects without actual construction costs.

Within each line item, all projects are totaled and then converted to percentages, based on the actual construction amount (actual CN). Not based on the actual total amount (actual Total). Thus, estimated construction costs for a project can be used with factors in this report to estimate overhead costs, which add up to total costs.

RW acquisition = (actual land) RW incidentals = (total actual RW) - (actual land)

RWp% = (actual land) / (actual CN) RWi% = (RW incidentals) / (actual CN)

If a district has no completed projects of the work type, in the time frame, then the line item is removed from their table.

Highlighted values:

0%

n < 20 Each line item has an 'n' value indicating the number of projects included in the line. If the number of projects is low, then any unusual project can have a large effect on the results. Thus, lower 'n' values are highlighted and validity of the data should be confirmed.

In some line items, none of the projects will include a type of engineering expense. For instance, Routine Maintenance normally does not include Right of Way Acquisition. The calculated rate will then be 0%, and these values have been highlighted.

1,288

1,323

0.35%

0.00%

0.91%

Three Year Average Engineering Factors Engineering Costs per Total Construction Costs

TCOS

OTHER

7/1/2019- 6/30/2022 Statewide Totals

Work Types Preliminary Engineering Construction Inspection Right of Way Incidentals Total Engineering Acquisition 1- ITS 3.97% 8.02% 0.00% 11.99% 0.00% 2- ADA-TRANS 15.65% 15.05% 1.89% 32.59% 0.87% A- ADD LANES 9.44% 8.43% 0.68% 18.56% 4.04% B- BRIDGE REPLACEMENT 17.54% 10.97% 0.32% 28.83% 0.74% E- ENHANCEMENTS 22.76% 10.85% 0.00% 33.61% 0.00% F- FREEWAY 6.11% 2.99% 0.33% 9.43% 6.04% G- PREV MAINT-BRIDGE 6.42% 9.77% 0.02% 16.22% 0.04% H- HIGH TYPE RESURFACING 1.33% 5.76% 0.00% 7.09% 0.06% I- INTERCHANGE 8.89% 6.90% 0.32% 16.11% 5.54% J- PREV MAINT-PAVEMENT 2.61% 6.68% 0.02% 9.31% 0.09% K- MED TYPE RESURFACING 1.58% 4.72% 0.06% 6.37%<	n= 111 35 17 188 3 2 44 9
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P- PAVEMENT REPLACEMENT 2.82% 5.74% 0.03% 8.58% 0.02% Q- CMAQ 10.49% 11.83% 0.98% 23.30% 0.98%	4
Q- CMAQ 10.49% 11.83% 0.98% 23.30% 0.98%	74
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R- BRIDGE REHABILITATION 9.15% 9.98% 0.07% 19.20% 0.097%	130
W- SHOULDER WIDENING 1.94% 0.97% 0.00% 2.91% 0.00%	1
X- SAFETY 8.73% 10.34% 0.23% 19.31% 1.52%	81
Y- ROUTINE MAINTENANCE 2.17% 9.04% 0.02% 11.22% 0.00%	58
6.07% 7.65% 0.19% 13.92% 0.91% 1	1,323
Preliminary Construction Right of Way Total Right of Way	
Work Type Categories Engineering Inspection Incidentals Engineering Acquisition	n=
MAJOR PROJECT 7.99% 6.49% 0.42% 14.90% 4.69%	31

Engineering costs are represented as percentages of corresponding actual construction costs. Based on projects completed within the indicated time frame. Excludes payment projects, right of way only projects and other projects without actual construction costs.

7.82%

8.50%

7.65%

0.16%

0.00%

0.19%

13.74%

26.31%

13.92%

5.76%

17.81%

6.07%

TCOS

7/1/2019 - 6/30/2022 by District

0.10%

0.10%

181

181

Northwest						
	Preliminary	Construction	Right of Way	Total	Right of Way	
Work Types	Engineering	Inspection	Incidentals	Engineering	Acquisition	n=
2- ADA-TRANS	30.51%	14.63%	3.33%	48.46%	2.07%	4
B- BRIDGE REPLACEMENT	18.07%	7.69%	0.39%	26.15%	0.50%	32
G- PREV MAINT-BRIDGE	8.58%	5.51%	0.00%	14.10%	0.00%	9
H- HIGH TYPE RESURFACING	0.50%	3.66%	0.00%	4.16%	0.00%	3
J- PREV MAINT-PAVEMENT	1.35%	4.33%	0.04%	5.72%	0.01%	40
K- MED TYPE RESURFACING	1.27%	4.79%	0.08%	6.14%	0.03%	27
L- LOW TYPE RESURFACING	0.60%	4.12%	0.00%	4.73%	0.00%	27
O- OTHER	13.71%	11.29%	0.00%	25.00%	0.00%	3
R- BRIDGE REHABILITATION	7.83%	6.93%	0.01%	14.78%	0.01%	31
X- SAFETY	7.80%	6.47%	0.33%	14.60%	0.15%	3
Y- ROUTINE MAINTENANCE	0.11%	12.09%	0.00%	12.20%	0.00%	2
	4.71%	5.34%	0.10%	10.16%	0.10%	181
	Preliminary	Construction	Right of Way	Total	Right of Way	
Work Type Categories	Engineering	Inspection	Incidentals	Engineering	Acquisition	n=

Engineering costs are represented as percentages of corresponding actual construction costs. Based on projects completed within the indicated time frame. Excludes payment projects, right of way only projects and other projects without actual construction costs.

4.71%

4.71%

5.34%

5.34%

0.10%

0.10%

10.16%

10.16%

7/1/2019 - 6/30/2022 by District

Northeast						
	Preliminary	Construction	Right of Way	Total	Right of Way	
Work Types	Engineering	Inspection	Incidentals	Engineering	Acquisition	n=
1- ITS	11.43%	32.38%	0.00%	43.81%	0.00%	1
2- ADA-TRANS	27.30%	29.30%	1.93%	58.53%	1.34%	3
B- BRIDGE REPLACEMENT	15.88%	12.28%	0.12%	28.28%	0.20%	29
G- PREV MAINT-BRIDGE	2.58%	17.91%	0.00%	20.49%	0.00%	8
I- INTERCHANGE	0.87%	6.95%	0.00%	7.82%	0.00%	1
J- PREV MAINT-PAVEMENT	2.54%	5.17%	0.00%	7.71%	0.00%	34
K- MED TYPE RESURFACING	2.17%	5.62%	0.03%	7.82%	0.03%	32
L- LOW TYPE RESURFACING	3.38%	6.09%	0.02%	9.50%	0.02%	15
O- OTHER	4.72%	14.10%	0.00%	18.83%	0.00%	3
P- PAVEMENT REPLACEMENT	8.93%	8.59%	0.00%	17.53%	0.00%	1
R- BRIDGE REHABILITATION	11.74%	17.44%	0.08%	29.26%	0.02%	10
W- SHOULDER WIDENING	1.94%	0.97%	0.00%	2.91%	0.00%	1
X- SAFETY	9.05%	12.98%	0.48%	22.51%	1.50%	7
Y- ROUTINE MAINTENANCE	0.57%	18.98%	0.00%	19.54%	0.00%	4
	5.89%	8.08%	0.07%	14.04%	0.12%	149

	Preliminary	Construction	Right of Way	Total	Right of Way	
Work Type Categories	Engineering	Inspection	Incidentals	Engineering	Acquisition	n=
MAJOR PROJECT	0.87%	6.95%	0.00%	7.82%	0.00%	1
TCOS	6.16%	8.17%	0.08%	14.41%	0.12%	147
OTHER	1.94%	0.97%	0.00%	2.91%	0.00%	1
	5.89%	8.08%	0.07%	14.04%	0.12%	149

7/1/2019 - 6/30/2022 by District

Kansas City						
	Preliminary	Construction	Right of Way	Total	Right of Way	
Work Types	Engineering	Inspection	Incidentals	Engineering	Acquisition	n=
2- ADA-TRANS	7.95%	13.01%	1.17%	22.13%	0.00%	6
A- ADD LANES	6.73%	8.83%	0.00%	15.55%	0.00%	1
B- BRIDGE REPLACEMENT	16.88%	8.95%	0.20%	26.04%	1.32%	17
G- PREV MAINT-BRIDGE	0.47%	10.83%	0.00%	11.29%	0.00%	2
I- INTERCHANGE	9.45%	6.22%	0.20%	15.87%	7.06%	2
J- PREV MAINT-PAVEMENT	1.38%	6.20%	0.00%	7.59%	0.00%	66
K- MED TYPE RESURFACING	1.36%	5.86%	0.00%	7.21%	0.00%	24
L- LOW TYPE RESURFACING	7.55%	6.80%	0.70%	15.05%	0.32%	4
M- MAJOR BRIDGE	0.09%	5.98%	0.00%	6.07%	0.00%	1
O- OTHER	11.34%	10.41%	0.41%	22.15%	1.70%	17
P- PAVEMENT REPLACEMENT	1.71%	6.36%	0.01%	8.08%	0.01%	3
R- BRIDGE REHABILITATION	7.87%	10.06%	0.01%	17.94%	0.00%	18
X- SAFETY	13.04%	12.40%	0.38%	25.81%	1.09%	17
Y- ROUTINE MAINTENANCE	0.97%	7.60%	0.07%	8.63%	0.01%	14
	6.79%	7.96%	0.14%	14.89%	1.23%	192

	Preliminary	Construction	Right of Way	Total	Right of Way	
Work Type Categories	Engineering	Inspection	Incidentals	Engineering	Acquisition	n=
MAJOR PROJECT	8.12%	6.88%	0.13%	15.12%	4.76%	4
TCOS	6.47%	8.22%	0.14%	14.83%	0.39%	188
	6.79%	7.96%	0.14%	14.89%	1.23%	192

7/1/2019 - 6/30/2022 by District

Central						
	Preliminary	Construction	Right of Way	Total	Right of Way	
Work Types	Engineering	Inspection	Incidentals	Engineering	Acquisition	n=
1- ITS	2.41%	4.71%	0.00%	7.13%	0.00%	1
2- ADA-TRANS	20.46%	15.16%	3.33%	38.95%	2.08%	6
B- BRIDGE REPLACEMENT	18.71%	18.31%	0.81%	37.83%	0.52%	7
G- PREV MAINT-BRIDGE	4.07%	8.01%	0.00%	12.08%	0.00%	3
J- PREV MAINT-PAVEMENT	0.71%	6.10%	0.00%	6.81%	0.00%	11
K- MED TYPE RESURFACING	2.45%	7.28%	0.09%	9.81%	0.01%	61
L- LOW TYPE RESURFACING	1.33%	6.98%	0.00%	8.30%	0.00%	3
O- OTHER	3.66%	10.93%	0.00%	14.59%	0.00%	7
P- PAVEMENT REPLACEMENT	1.80%	5.91%	0.00%	7.71%	0.00%	2
R- BRIDGE REHABILITATION	17.60%	12.22%	0.35%	30.17%	0.47%	28
X- SAFETY	7.75%	16.67%	0.36%	24.78%	0.93%	6
Y- ROUTINE MAINTENANCE	0.81%	11.35%	0.00%	12.16%	0.00%	8
	5.43%	8.69%	0.22%	14.34%	0.16%	143

	Preliminary	Construction	Right of way	iotai	Right of way	
Work Type Categories	Engineering	Inspection	Incidentals	Engineering	Acquisition	n=
TCOS	5.43%	8.69%	0.22%	14.34%	0.16%	143
	5.43%	8.69%	0.22%	14.34%	0.16%	143

7/1/2019 - 6/30/2022 by District

St. Louis						
	Preliminary	Construction	Right of Way	Total	Right of Way	
Work Types	Engineering	Inspection	Incidentals	Engineering	Acquisition	n=
1- ITS	0.64%	6.31%	0.00%	6.95%	0.00%	7
A- ADD LANES	9.36%	7.95%	0.37%	17.68%	3.67%	6
B- BRIDGE REPLACEMENT	17.07%	12.51%	0.35%	29.92%	0.46%	6
E- ENHANCEMENTS	23.16%	8.30%	0.00%	31.46%	0.00%	1
G- PREV MAINT-BRIDGE	7.14%	10.31%	0.03%	17.48%	0.06%	21
H- HIGH TYPE RESURFACING	2.10%	7.87%	0.00%	9.97%	0.13%	3
I- INTERCHANGE	8.66%	5.29%	0.00%	13.95%	0.00%	1
J- PREV MAINT-PAVEMENT	4.33%	7.99%	0.030%	12.35%	0.21%	55
K- MED TYPE RESURFACING	3.43%	9.35%	0.06%	12.84%	0.04%	3
L- LOW TYPE RESURFACING	1.13%	10.59%	0.00%	11.72%	0.00%	1
M- MAJOR BRIDGE	3.24%	4.35%	0.00%	7.59%	0.00%	2
O- OTHER	11.87%	8.98%	2.48%	23.32%	6.02%	20
P- PAVEMENT REPLACEMENT	16.43%	2.18%	0.00%	18.61%	0.000%	1
Q- CMAQ	10.49%	11.83%	0.98%	23.30%	0.98%	5
R- BRIDGE REHABILITATION	10.85%	15.26%	0.00%	26.11%	0.00%	7
X- SAFETY	6.82%	8.81%	0.11%	15.74%	2.16%	22
Y- ROUTINE MAINTENANCE	5.49%	6.79%	0.00%	12.28%	0.00%	17
	6.56%	8.39%	0.26%	15.20%	1.15%	178

	Preliminary	Construction	Right of Way	Total	Right of Way	
Work Type Categories	Engineering	Inspection	Incidentals	Engineering	Acquisition	n=
MAJOR PROJECT	8.08%	6.65%	0.22%	14.94%	2.11%	9
TCOS	6.08%	8.80%	0.27%	15.15%	0.93%	168
OTHER	23.16%	8.30%	0.00%	31.46%	0.00%	1
	6.56%	8.39%	0.26%	15.20%	1.15%	178

7/1/2019 - 6/30/2022 by District

Southwest						
	Preliminary	Construction	Right of Way	Total	Right of Way	
Work Types	Engineering	Inspection	Incidentals	Engineering	Acquisition	n=
1- ITS	16.65%	14.56%	0.00%	31.21%	0.00%	2
2- ADA-TRANS	20.87%	16.19%	1.79%	38.85%	0.92%	14
A- ADD LANES	12.14%	9.19%	2.01%	23.34%	8.60%	10
B- BRIDGE REPLACEMENT	18.06%	10.13%	0.39%	28.57%	0.60%	30
E- ENHANCEMENTS	21.41%	19.32%	0.00%	40.73%	0.00%	2
F- FREEWAY	6.11%	2.99%	0.33%	9.43%	6.04%	2
G- PREV MAINT-BRIDGE	33.33%	26.39%	0.00%	59.72%	0.00%	1
H- HIGH TYPE RESURFACING	0.48%	3.82%	0.00%	4.29%	0.00%	2
I- INTERCHANGE	10.02%	11.71%	0.31%	22.04%	6.08%	3
J- PREV MAINT-PAVEMENT	0.69%	4.69%	0.00%	5.38%	0.00%	10
K- MED TYPE RESURFACING	2.12%	5.01%	0.00%	7.13%	0.00%	88
O- OTHER	8.35%	10.26%	0.00%	18.61%	0.00%	11
P- PAVEMENT REPLACEMENT	4.69%	4.90%	0.10%	9.70%	0.05%	6
R- BRIDGE REHABILITATION	5.31%	8.10%	0.01%	13.42%	0.04%	31
X- SAFETY	11.75%	10.23%	0.34%	22.33%	1.25%	16
Y- ROUTINE MAINTENANCE	0.54%	13.53%	0.00%	14.07%	0.00%	7
	6.41%	6.62%	0.28%	13.31%	1.71%	235

	Preliminary	Construction	Right of Way	Total	Right of Way	
Work Type Categories	Engineering	Inspection	Incidentals	Engineering	Acquisition	n=
MAJOR PROJECT	7.94%	5.14%	0.77%	13.84%	6.72%	15
TCOS	5.91%	7.03%	0.13%	13.07%	0.19%	218
OTHER	21.41%	19.32%	0.00%	40.73%	0.00%	2
	6.41%	6.62%	0.28%	13.31%	1.71%	235

7/1/2019 - 6/30/2022 by District

Southeast						
	Preliminary	Construction	Right of Way	Total	Right of Way	
Work Types	Engineering	Inspection	Incidentals	Engineering	Acquisition	n=
2- ADA-TRANS	2.03%	12.18%	0.00%	14.21%	0.00%	2
B- BRIDGE REPLACEMENT	18.76%	14.03%	0.47%	33.26%	0.94%	67
H- HIGH TYPE RESURFACING	1.45%	5.38%	0.00%	6.83%	0.00%	1
I- INTERCHANGE	11.20%	9.71%	1.26%	22.17%	10.46%	1
J- PREV MAINT-PAVEMENT	1.05%	11.52%	0.00%	12.57%	0.00%	18
K- MED TYPE RESURFACING	1.81%	6.10%	0.00%	7.92%	0.04%	119
L- LOW TYPE RESURFACING	0.00%	3.42%	0.00%	3.42%	0.00%	1
M- MAJOR BRIDGE	2.89%	15.92%	0.00%	18.81%	0.00%	1
O- OTHER	3.09%	13.80%	0.49%	17.38%	0.43%	13
P- PAVEMENT REPLACEMENT	1.00%	5.16%	0.00%	6.16%	0.00%	1
R- BRIDGE REHABILITATION	4.09%	10.95%	0.00%	15.03%	0.00%	5
X- SAFETY	2.70%	9.99%	0.00%	12.69%	0.00%	10
Y- ROUTINE MAINTENANCE	0.38%	9.64%	0.00%	10.01%	0.00%	6
	5.69%	8.42%	0.19%	14.30%	0.90%	245
	Preliminary	Construction	Right of Way	Total	Right of Way	
Work Type Categories	Engineering	Inspection	Incidentals	Engineering	Acquisition	n=
MAJOR PROJECT	10.67%	10.11%	1.18%	21.95%	9.80%	2
TCOS	5.31%	8.29%	0.11%	13.72%	0.23%	243
	5.69%	8.42%	0.19%	14.30%	0.90%	245