

Construction Production Rates

March 31, 2020

These rates were originally developed in coordination with the following parties.

Bridge Division

Waco District

Construction Division

Atlanta District

Design Division

*The Associated General
Contractors of Texas*

Maintenance Division

In accordance with the 2016-2017 Sunset Advisory Commission Staff Report Recommendation 3.7, the Texas Department of Transportation (TxDOT) has updated construction production rate information for estimating project timelines. Minor production rate updates for 2020 were conducted via analysis of survey data from the Districts. TxDOT will review and update these rates, as appropriate, by March every two years.

The following assumptions were made in the development of these rates.

- Engineering judgement must be used in the application of these rates.
- Proper critical path method scheduling methods must be used for construction time determination.
- Construction activities must be schedules according to project phase narrative.
- Single crews will be mobilized for each independent activity.
- Utility construction in plans set is not included in these rates.
- Weather delays are not accounted for in these rates.

The following conditions would likely cause the proposed construction production rates to fall outside the estimated ranges shown, therefore warranting additional effort to determine proper rates:

- Extremely small or extremely large work zones,
- Long distances from materials sources,
- High average daily traffic (ADT) in project area, or
- Extremely low or extremely high quantities of bid items.



Construction Production Rates

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LINE NO.	MAJOR WORK ITEMS	UNITS	Proposed Production Rates		
			LOW	MED	HIGH
100 ITEMS					
1	PREPARING ROW	AC	1	3	6
2	REMOVING CONC PAV	SY	1,000	2,000	3,000
3	REMOVING CONC	CY	40	280	415
4	REMOVING STAB BASE AND ASPH	SY	2,000	3,000	4,000
5	REMOVING STAB BASE AND ASPH	CY	500	900	1,250
6	EXCAVATION (ROADWAY)(EARTH)	CY	500	2,000	3,500
7	EXCAVATION (ROADWAY)(ROCK)	CY	250	1,000	1,500
8	EMBANKMENT	CY	500	2,000	4,000
10	SEEDING/SOD	SY	800	2,000	3,500
200 ITEMS					
11	FLEX BASE	CY	350	750	1,250
12	REWORK BS MTL	CY	250	500	750
13	LIME TRT	SY	500	2,000	3,000
14	CEMENT TREAT	SY	1,500	2,500	3,000
15	ASPHALT STAB BASE (PLANT PRODUCED)	TON	300	750	1,250
300 ITEMS					
16	PRIME COAT	GAL	1,000	4,500	8,000
17	SEAL COAT	SY	14,000	36,000	140,000
18	ACP	TON	350	750	1,250
19	SUPERPAVE HMA	TON	350	750	1,250
20	PFC	TON	250	560	850
21	STONE-MTRX-ASPH	TON	300	750	1,250
22	TOM MIX	TON	200	500	750
24	ASPHALT PLANING/MILLING	SY	2,500	7,500	12,000
25	CONC PVMT (CRCP) - Hand Pours	SY	180	540	720
26	CONC PVMT (CRCP) - Slips	SY	1,000	2,700	4,400
400 ITEMS					
27	Temp Special Shoring/Cofferdams	SF	100	500	900
28	Soil Nails/Rock Nails	LF	200	400	700
29	Drilled Shafts	LF	30	100	200
30	Piling	LF	100	150	200
31	Sheet Piling	SF	250	350	650
32	Wall, MSE	SF	100	350	800
33	Wall, Fascia	SF	200	250	500
34	Retaining Wall, Reinforced Concrete	SF	100	150	200
36	Corrugated Metal Pipe	LF	50	120	250
37	Reinforced Concrete Pipe	LF	50	120	200
38	Concrete Box Culvert	LF	30	70	130
39	Junciton Box	EA	0.50	0.70	1



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LINE NO.	MAJOR WORK ITEMS	UNITS	Proposed Production Rates		
			LOW	MED	HIGH
40	Headwall	EA	0.20	0.40	0.60
41	Wingwall	EA	0.10	0.20	0.30
42	Jack and Bore Culvert	LF	10	30	60
43	Concrete Footing	EA	0.20	0.75	1
44	Concrete Abutment	EA	0.20	0.30	0.50
45	Concrete Bent (Multi-column)	EA	0.10	0.20	0.30
46	Concrete Bent (Single-column)	EA	0.10	0.20	0.30
47	Concrete Bent (Post-tensioned)	EA	0.07	0.10	0.13
48	Concrete Beam (Simple Span) EA/span	EA	6	8	10
49	Concrete Beam (Spliced Girder) EA/span	EA	0.10	0.20	0.35
50	Steel Girder (Plate) EA/span	EA	0.15	0.25	0.40
51	Steel Girder (Tub) EA/span	EA	0.15	0.25	0.40
52	Bridge Deck	SF	300	900	2,000
53	Bridge Deck (Extend)	SF	150	375	575
54	Bridge Approach Slab	CY	5	10	15
55	Concrete Overlay	SY	100	300	500
56	Steel Cleaning and Painting	SF	250	500	750
57	Concrete Rail (Slipform)	LF	100	250	550
58	Concrete Rail (Combination/Formwork)	LF	25	50	100
59	Rail Retrofit	LF	10	25	50
60	Remove Structure (0-99 FT)	EA	0.25	0.50	1
61	Remove Structure (100-499 FT)	EA	0.25	0.50	0.75
62	Remove Structure (500-999 FT)	EA	0.10	0.25	0.50
63	Remove Structure (1000 FT or greater)	EA	0.10	0.20	0.30
500 ITEMS					
64	PORT CTB	LF	750	1,500	3,000
65	PERM CTB	LF	200	400	600
66	CONC CURB & GUTTER	LF	250	500	1,000
67	CONC SIDEWALKS	SY	25	100	400
68	CABLE BARRIER SYSTEM	LF	200	300	800
600 ITEMS					
70	OVERHEAD SIGN BRIDGE	EA	0.50	1	2
71	PAVEMENT MARKING (PAINT)	LF	5,000	50,000	100,000
72	PAVEMENT MARKING (BUTTONS/MARKERS)	LF	5,000	15,000	25,000
73	TEMP TRAFFIC SIGNAL	EA	0.10	0.15	0.20
74	PERM TRAFFIC SIGNAL	EA	0.05	0.10	0.20