



Land Development

Unit Price Guide for Improvement Bond Estimate

Effective March 1, 2020

POL: 44 – Improvement Bond Estimate, English Units

These unit prices have been updated to reflect the current costs of construction. The following unit prices supersede those dated July 2015, and should be used for all improvement cost estimates submitted to our office after March 1, 2020.

The Engineer's estimate shall be formatted with the following categories and sub-categories, as appropriate:

PUBLIC ROAD INFRASTRUCTURE

(Sub-categories would include: public roads, public bridges, and traffic signals). This category would include all inspected items associated with public roads, typical.

PUBLIC DRAINAGE INFRASTRUCTURE

(Sub-categories would include: earthen drainage facilities, concrete drainage facilities, RCP, CIPP, plastic pipe, and CMP). This category would include all inspected items associated with public storm drainage, typical.

PRIVATE ROAD INFRASTRUCTURE

PRIVATE DRAINAGE INFRASTRUCTURE

STORMWATER TREATMENT FACILITIES (PRIVATE)

SUB TOTAL

CONTINGENCY

(Note: For difficult working conditions (i.e. steep grades, narrow roads, etc.) or jobs under \$200,000.00, use 20%, otherwise use 10%)

TOTAL ESTIMATED COST of IMPROVEMENTS

(Rounded to even \$1,000 for bonding purposes)

Road Infrastructure

ITEMS	UNIT PRICE (\$)	UNIT
1. Roadway Excavation (only when not included in grading bond) 0 - 1,000 CY 1,000 CY or more	80 - 210 35 - 100	CY CY
2. Finish Grading within Right of Way	0.30 - 0.36	SF
3. Remove Existing Pavement (Obliteration)	0.70	SF
4. Saw cut Existing Pavement/Concrete	2.50	LF
5. Aggregate Base (Class 2, assume 145 lbs/CF) 0 - 1,000 TONS 1,000 TONS or more	55 - 90 20 - 60	TON TON
6. Asphalt Concrete (Type A, assume 150 lbs/CF) 0 - 1,000 TONS 1,000 TONS or more (Increase by 1% for each 1% over 10% grade)	110 - 235 80- 125	TON TON
7. Reclamite	0.60 - 0.90	SY
8. Slurry Seal (includes aggregate and emulsified asphalt)	130	SY
9. Asphalt Concrete Dike 0 - 1,000 LF 1,000 LF or more	16 8.50	LF LF
10. Type "S1-6" Curb 0 - 1,000 LF 1,000 LF or more	35 - 60 30	LF LF
11. Median Curb (6-inch)	25 - 35	LF
12. Median Curb (8-inch)	35 - 45	LF
13. Sidewalk (includes 3" AB) 0 - 2,000 SF 2,000 SF or more	26 9-26	SF SF
14. Driveway Ramp (Minor Concrete, assume 20' wide x 5' deep)	1500	EA
15. PCC Roadway (6" PCC over 6" AB)	15 - 30	SF
16. Median (Island) Paving	15 - 25	SF
17. Pedestrian Curb Ramp (including curb and truncated domes) R=20' R=30'	7,000 9,000	EA EA

Road Infrastructure (cont.)

ITEMS	UNIT PRICE (\$)	UNIT
18. Concrete Structures may be estimated at	1,200	CY
19. Concrete Bridge Deck	170 – 240	SF
20. Wood or Masonry Retaining Wall	40	SF
21. Concrete Retaining Wall	60	SF
22. Street Light – Metal Pole		
0–10	30,000	EA
10 or more	15,000	EA
23. Survey (Street) Monument	1,350	EA
24. Street Sign (Name)	500	EA
25. Traffic Sign	500	EA
Traffic Sign w/Striping Message	1000	EA
26. Metal Beam Guard Rail (wood post)	250	LF
27. Guard Rail - End Anchor Assembly	3,000	EA
28. Guard Rail – Alternate Flared Terminal End	5,000	EA
29. Fence		
4' Chain Link	40	LF
6' Chain Link	55	LF
30. Landscaping (including irrigation system)	15-45	SF
31. Thermoplastic Detail 2	1.30	LF
32. Thermoplastic Detail 9	0.60	LF
33. Thermoplastic Detail 22	1.75	LF
34. Thermoplastic Detail 27B	0.60	LF

Drainage Infrastructure

ITEMS	UNIT PRICE (\$)	UNIT
1. Drainage Inlet		
Type D	3,000 – 6,000	EA
Type E	4,500	EA
Type F	4,500	EA
Type G (replaces Type A)	4,250 – 7,500	EA
Type H (replaces Type B)	5,500 – 9,000	EA
Type J (replaces Type C)	3,000 – 6,000	EA
If inlet is on manhole base, add		
Type I MH	3,000	
Type II MH	3,500	
Type III MH	4,000	
2. Storm Drain Manhole		
Type I	3,000 - 6,000	EA
Type II	2,500 - 3,700	EA
Type III	4,000 - 5,500	EA
(Add \$250/ft. for depths over 6 ft.)		
3. Non-standard storm drain inlet (2' x 2')	3,000	EA
4. Concrete "V" Ditch (CD60, aka B58 ditch)	70-100	LF
5. Valley Gutter (Minor Concrete)	26	SF
6. Sidewalk Cross Drain (CD06, including 3" x 12" metal duct)	3,000	EA
7. Residential Sidewalk Drain (CD06, including 3" dia. pipe)	2,000	EA
8. Subsurface Edge Drain (CD08, 3" dia. pipe)	25-35	LF
9. CMP (if bit. coated add \$1/LF)	7.50	\$/in.dia./LF
10. Alternative Pipe (HDPE)	8.50	\$/in.dia./LF
11. CIPP (30" dia. and over only)	4.50	\$/in.dia./LF
12. RCP	11.00	\$/in.dia./LF
13. All pipe in existing pavement or difficult area	9.50	\$/in.dia./LF
14. Rock Slope Protection (assume Facing Class, Method B)		
0-10 TON	450	TON
10 – 200 TON	210	TON
more than 200 TON	125	TON
15. Type "M" Headwall (CD52)	3,000	EA
16. Drain Inlet Label ("No Dumping, Drains to...")	100	EA
17. Tie into Existing Storm Drain	2,250	EA
18. Stub / Plug	2,250	EA

Stormwater Treatment Facilities (Private)

ITEMS	UNIT PRICE (\$)	UNIT
1. Sandy Loam (18" depth)	0.70	SF
2. Turf/Grass	0.60	SF
3. Shrubs		
1 Gallon	15	EA
5 Gallon	25	EA
4. Trees		
24" box	300	EA
15-Gallon	100	EA
5. Mulch (assume 3" depth)	0.65	SF
6. Class 2 Permeable Material		
Grassy Swale (18" W x 12" D)	15	\$/LF of swale
Planters, bio-retention areas (12" D)	2.50	SF
7. Sub-drain (6" dia. perforated pipe)	50	LF
8. Irrigation	3.50	SF
9. Planter Box Walls		
Wood or Masonry	42.50	SF
Concrete	60	SF
10. Non-standard storm drain inlet (2' x 2')	3,000	EA
11. Drainage Inlet (Type J)	3,000 – 6,000	EA
12. Rock Slope Protection (assume Facing Class, Method B)		
0–10 TON	450	TON
10 – 200 TON	210	TON
16. Drain Inlet Label ("No Dumping, Drains to...")	100	EA