

TOWN OF MERRIMACK
2021 ROAD BOND ESTIMATE INSTRUCTIONS/SPECIFICATIONS

Use the road bond estimate form. Fill out all gray blocks with project specific numbers.
 See below for the specific DOT reference and how each item shall be measured.
 Calculations will be performed automatically. Minimums are provided below.

Item	Unit	UnitCost	Comments
Clearing and grubbing (201)	AC	\$ 15,000.00	Measured by the Acre
Roadway common excavation (203)	CY	\$ 19.00	Submit Calculations
Roadway rock excavation (203)	CY	\$ 100.00	Submit Calculations
Common structure excavation (206)	CY	\$ 30.00	deep
Rock structure excavation (206)	CY	\$ 125.00	utilities
Drainage swales (grass lined) (206)	LF	\$ 15.00	
Drainage swales (rock lined) (206)	LF	\$ 35.00	
Sand - 12" thick (304)	LF	\$ 21.00	
Gravel - 12" thick (304)	LF	\$ 27.00	
Crushed Gravel - 6" thick (304)	LF	\$ 16.00	
Crushed Gravel - 9" thick (304)	LF	\$ 23.00	
Hot Bit. Pave - 2" Binder, ¾" nominal (403)	LF	\$ 53.00	
Hot Bit. Pave - 2 ½" Binder, ¾" nominal (403)	LF	\$ 65.00	
Hot Bit. Pave - 1" Wearing Course, 3/8 nominal (403)	LF	\$ 34.00	
Hot Bit. Pave - 1 ½" Wearing Course, ½ nominal (403)	LF	\$ 50.00	
Hot Bit. Pave Driveway Aprons 12' W x 2" thick (403)	EA	\$ 525.00	
Video inspection of pipe (603.0001)	LF	\$ 2.50	New item in 2101 NHDOT Specs
Storm drain pipe, concrete, 12" Dia. (603)	LF	\$ 40.00	
Storm drain pipe, concrete, 15" Dia. (603)	LF	\$ 42.00	
Storm drain pipe, concrete, 18" Dia. (603)	LF	\$ 45.00	
Storm drain pipe, concrete, 24" Dia. (603)	LF	\$ 50.00	
Storm drain pipe, concrete, 30" Dia. (603)	LF	\$ 75.00	
Storm drain pipe, HDPE, 12" Dia. (603)	LF	\$ 40.00	
Storm drain pipe, HDPE, 15" Dia. (603)	LF	\$ 45.00	
Storm drain pipe, HDPE, 18" Dia. (603)	LF	\$ 50.00	
Storm drain pipe, HDPE, 24" Dia. (603)	LF	\$ 60.00	
Storm drain pipe, HDPE, 30" Dia. (603)	LF	\$ 65.00	
Catch basin, 4' Diameter (604)	VF	\$ 360.00	\$2,000 minimum each structure
Catch basin, 5' Diameter (604)	VF	\$ 425.00	\$2,800 minimum each structure
Polyliner for catch basins (604)	EA	\$ 200.00	
Drain manhole, 4' Diameter (604)	VF	\$ 315.00	\$2,000 minimum each structure
Drain manhole, 5' Diameter (604)	VF	\$ 385.00	\$2,600 minimum each structure
Headwall, 12" - 18" Pipe (604)	EA	\$ 1,800.00	
Headwall, 24" - 30" Pipe (604)	EA	\$ 2,500.00	
6" PVC aggregate underdrain (605)	LF	\$ 33.00	
Underdrain flushing basin (605)	EA	\$ 700.00	
Retention/detention Basin	EA		Submit detailed calculations
Sanitary sewer:			
8" PVC SDR 35 Main	LF	\$ 75.00	
10" PVC SDR Main	LF	\$ 85.00	
6" House Service incl. cleanout	EA	\$ 1,000.00	
Sewer manhole, 4' Dia.	VF	\$ 375.00	\$2,800 minimum each structure
Tie new sewer to existing SMH	EA	\$ 750.00	

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Water:			
4" CLDI CL52 (611)	NHDOT (610.05204)	LF @ \$ 80.00	
6" CLDI CL52 (611)	NHDOT (611.05206)	LF @ \$ 95.00	
8" CLDI CL52 (611)	NHDOT (611.05208)	LF @ \$ 110.00	
12" CLDI CL52 (611)	NHDOT (611.05212)	LF @ \$ 120.00	
16" CLDI CL52 (611)	NHDOT (611.05216)	LF @ \$ 180.00	
4"C-900 SDR 18	NHDOT (610.21804)	LF @ \$ 35.00	
6"C-900 SDR 18	NHDOT (611.21806)	LF @ \$ 45.00	Provide itemized cost estimate to Merrimack Village District for review and approval
8"C-900 SDR 18	NHDOT (611.21808)	LF @ \$ 52.50	
12"C-900 SDR 18	NHDOT (611.21812)	LF @ \$ 60.00	
4" Gate Valve with Box	NHDOT (611.71004)	EA @ \$ 1,000.00	
6" Gate Valve with Box	NHDOT (611.71006)	EA @ \$ 1,200.00	
8" Gate Valve with Box	NHDOT (611.71008)	EA @ \$ 1,700.00	
12" Gate Valve with Box	NHDOT (611.71012)	EA @ \$ 2,500.00	
4" Tap w/Sleeve and Valve		EA @	(NOTE: 10% Maintenance Fee for a minimum of one year after)
6" Tap w/Sleeve and Valve		EA @	
8" Tap w/Sleeve and Valve		EA @	
12" Tap w/Sleeve and Valve		EA @	
1"&2" Water Service (Main to ROW w/valve)		EA @ \$ 1,200.00	(611.5201)
Hydrant w/valve and tee (611)		EA @ \$ 4,600.00	(611.81)
Test & Chlorinate or Project Minimum		LS @	(\$5,000 min./project)
Utility conduits - electric, gas, telephone, etc (614)	LF	\$ 35.00	
Molded pull box (614)	EA	\$ 500.00	
Beam guardrail (606)	LF	\$ 25.00	
BGR terminal unit (606)	EA	\$ 3,500.00	
Cape cod berm, Miller CFD#1144 (609)	LF	\$ 7.00	
Straight granite curb (609)	LF	\$ 28.00	
Signs (street, stop, etc.) (615)	SF	\$ 47.00	\$250 minimum per intersection
Retrorefl. thermoplastic pavement markings, 12" (632)	LF	\$ 3.50	\$500 minimum per intersection
Retroreflective paint pavement markings, 4" (632)	LF	\$ 0.50	
Traffic signals (as one unit)	U		Submit Total of detailed calculations
Street light (LED)	EA	\$ 1,500.00	
Sidewalk, incl. 12" cr. gravel base (608)			
2" bit. - 5' wide	LF	\$ 15.50	
6" conc. - 5' wide	LF	\$ 31.00	
Fabric for slope or channel stabalization	SY	\$ 1.50	
Loam and turf establishment	SY	\$ 6.00	
Silt fence	LF	\$ 3.00	
Silt fence removal	LF	\$ 3.00	
Granite bounds	EA	\$ 350.00	
Storm Water Prevention Plan (645)	EA	\$ 3,500.00	
ROW Deeds	EA	\$ 1,000.00	
As-built drawings	EA	\$ 1.00	\$5,000 minimum