

COMET ESTIMATING

ESTIMATION & TAKEOFF COMPANY

# PLUMBING ESTIMATE

Summary of Costs & Material Take-Off

| SCOPE OF WORK | BUILDING AREA | COST PER SF | SUGGESTED BASE BID |
|---|---|---|---|
| Plumbing | 2,475 GSF | $17.48 | $43,262.95 |

# Project Summary

Division-wise cost breakdown and suggested base bid

| PROJECT ID | — | ADDRESS | — | NO. OF FLOORS | 2 | BUILDING GSF | 2,475 SF |
|---|---|---|---|---|---|---|---|

| DIVISION NO. | DESCRIPTION | | TOTAL DIVISION COST | TOTAL DIVISION COST (PER SF) | TAKE-OFF PAGE |
|---|---|---|---|---|---|
| 1000 | General Requirements | | $3,575.47 | $1.44 | p. 3 |
| 22000 | Plumbing | | $30,223.72 | $12.21 | p. 3 |
| **PROJECTED COST** | | | **$33,799.18** | **$13.66** | |
| **Overhead and Profit** | | 20% | $6,759.84 | $2.73 | |
| **Insurance** | | 3% | $1,013.98 | $0.41 | |
| **Contingency** | | 5% | $1,689.96 | $0.68 | |
| **SUGGESTED BASE BID** | | | **$43,262.95** | **$17.48** | |

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# Material Take-Off

Detailed quantities, labor, material and equipment costs by division

| SR # | DESCRIPTION | QUANTITY | | | | LABOR | | | | MATERIAL | | EQUIPMENT | | TOTAL |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | QTY | UNIT | WASTE | QTY W/ WASTE | LABOR HRS / UNIT | WAGE / HR | TOTAL LABOR HRS | TOTAL LABOR COST | MATL. RATE | TOTAL MATL. COST | EQUIP. RATE | TOTAL EQUIP. COST | SUB COST |
| **01. GENERAL REQUIREMENTS** | | | | | | | | | | | | | | |
| 1 | Supervision and Coordination | 1.00 | LS | 0% | 1.00 | 14.47 | $52.21 | 14.47 | $755.59 | – | – | – | – | **$755.59** |
| 2 | Submittals and Shop drawings | 1.00 | LS | 0% | 1.00 | 9.552 | $52.21 | 9.55 | $498.69 | – | – | – | – | **$498.69** |
| 3 | Final Cleaning | 1.00 | LS | 0% | 1.00 | 4.921 | $52.21 | 4.92 | $256.90 | – | – | – | – | **$256.90** |
| 4 | Mobilization Costs | 1.00 | LS | 0% | 1.00 | 13.60 | $52.21 | 13.60 | $710.26 | – | – | – | – | **$710.26** |
| 5 | Bond @ 2% | 1.00 | LS | 0% | 1.00 | 11.58 | $52.21 | 11.58 | $604.47 | – | – | – | – | **$604.47** |
| 6 | Temporary Control & Facilities | 1.00 | LS | 0% | 1.00 | 5.673 | $52.21 | 5.67 | $296.19 | – | – | – | – | **$296.19** |
| 7 | Scaffolding | 1.00 | LS | 0% | 1.00 | 8.683 | $52.21 | 8.68 | $453.36 | – | – | – | – | **$453.36** |
| | | | | | | | | | | | | | **SUBTOTAL** | **$3,575.47** |
| **22. PLUMBING** | | | | | | | | | | | | | | |
| ***Water Pipes*** | | | | | | | | | | | | | | |
| 8 | 1" Cold Water Pipe | 26.64 | LF | 10% | 29.30 | 0.124 | $58.78 | 3.63 | $213.59 | $9.10 | $266.67 | – | – | **$480.26** |
| 9 | 1/2" Cold Water Pipe | 38.84 | LF | 10% | 42.72 | 0.104 | $58.78 | 4.44 | $261.18 | $4.95 | $211.48 | – | – | **$472.66** |
| 10 | 1/2" Hot Water Pipe | 9.79 | LF | 10% | 10.77 | 0.104 | $58.78 | 1.12 | $65.83 | $4.95 | $53.31 | – | – | **$119.14** |
| 11 | 1/2" Compressed Air To Oil Pipe | 49.21 | LF | 10% | 54.13 | 0.104 | $58.78 | 5.63 | $330.91 | $4.95 | $267.95 | – | – | **$598.86** |
| 12 | 3/4" Hot Water Pipe | 7.75 | LF | 10% | 8.53 | 0.11 | $58.78 | 0.94 | $55.12 | $7.77 | $66.24 | – | – | **$121.36** |
| 13 | 3/4" Cold Water Pipe | 69.94 | LF | 10% | 76.93 | 0.11 | $58.78 | 8.46 | $497.44 | $7.77 | $597.78 | – | – | **$1,095.22** |
| ***Sanitary Pipes*** | | | | | | | | | | | | | | |
| 14 | 4" Waste Pipe | 61.55 | LF | 10% | 67.70 | 0.306 | $58.78 | 20.72 | $1,217.79 | $23.70 | $1,604.61 | – | – | **$2,822.40** |
| 15 | 3" Waste Pipe | 19.38 | LF | 10% | 21.32 | 0.28 | $58.78 | 5.97 | $350.86 | $18.30 | $390.12 | – | – | **$740.98** |
| 16 | 1-1/2" Waste Pipe | 5.78 | LF | 10% | 6.36 | 0.195 | $58.78 | 1.24 | $72.88 | $9.90 | $62.94 | – | – | **$135.82** |
| 17 | 3/4" PVC Drain Line | 25.64 | LF | 10% | 28.20 | 0.10 | $58.78 | 2.82 | $165.78 | $5.08 | $143.28 | – | – | **$309.06** |
| 18 | 2" Oil Waste Pipe | 69.08 | LF | 10% | 75.99 | 0.20 | $58.78 | 15.20 | $893.31 | $13.20 | $1,003.04 | – | – | **$1,896.36** |

| SR # | DESCRIPTION | QUANTITY | | | | LABOR | | | | MATERIAL | | EQUIPMENT | | TOTAL |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | QTY | UNIT | WASTE | QTY W/ WASTE | LABOR HRS / UNIT | WAGE / HR | TOTAL LABOR HRS | TOTAL LABOR COST | MATL. RATE | TOTAL MATL. COST | EQUIP. RATE | TOTAL EQUIP. COST | SUB COST |
| ***Vent Pipes*** | | | | | | | | | | | | | | |
| 19 | 1-1/2" Vent Pipe | 9.88 | LF | 10% | 10.87 | 0.195 | $58.78 | 2.12 | $124.57 | $9.90 | $107.59 | – | – | **$232.16** |
| 20 | 2" Vent Pipe | 80.41 | LF | 10% | 88.45 | 0.20 | $58.78 | 17.69 | $1,039.83 | $13.20 | $1,167.55 | – | – | **$2,207.38** |
| ***Pipes Insulation*** | | | | | | | | | | | | | | |
| 21 | Heat Tape | 202.00 | LF | 10% | 222.20 | 0.048 | $58.78 | 10.67 | $626.92 | $1.652 | $367.07 | – | – | **$994.00** |
| ***Plumbing Fixtures*** | | | | | | | | | | | | | | |
| 22 | FPHB: Freeze Proof Hose Bibb<br>Manuf & Model#: J.R. Smith, 5509QT | 3.00 | EA | 0% | 3.00 | 5.928 | $58.78 | 17.78 | $1,045.34 | $471.35 | $1,414.05 | – | – | **$2,459.39** |
| 23 | WC: Water Closet<br>Manuf & Model#: American Standard, Cadet 2998.012 | 2.00 | EA | 0% | 2.00 | 5.347 | $58.78 | 10.69 | $628.59 | $328.42 | $656.84 | – | – | **$1,285.43** |
| 24 | HB: Hose Bibb<br>Manuf & Model#: Woodford, 24P | 1.00 | EA | 0% | 1.00 | 1.429 | $58.78 | 1.43 | $84.00 | $84.90 | $84.90 | – | – | **$168.90** |
| 25 | Lavatory<br>Manuf & Model#: American Standard, 0124.024<br>Faucet/Valve<br>Manuf & Model#: Delta, 523 WF HDF | 1.00 | EA | 0% | 1.00 | 5.126 | $58.78 | 5.13 | $301.31 | $321.07 | $321.07 | – | – | **$622.38** |
| 26 | WH: Water Heater<br>Manuf & Model#: Eemax, SP35 | 2.00 | EA | 0% | 2.00 | 4.512 | $58.78 | 9.02 | $530.43 | $264.55 | $529.10 | – | – | **$1,059.53** |
| 27 | Mop Sink<br>Manuf & Model#: Mustee, 19F<br>Faucet/Valve<br>Manuf & Model#: Mustee, 93.600 | 1.00 | EA | 0% | 1.00 | 4.988 | $58.78 | 4.99 | $293.19 | $291.82 | $291.82 | – | – | **$585.01** |
| ***Plumbing Fittings*** | | | | | | | | | | | | | | |
| 28 | 1/2" 90 Degree Radius Elbow | 26.00 | EA | 0% | 26.00 | 0.3393 | $58.78 | 8.82 | $518.59 | $10.95 | $284.70 | – | – | **$803.29** |
| 29 | 1" 90 Degree Radius Elbow | 3.00 | EA | 0% | 3.00 | 0.3944 | $58.78 | 1.18 | $69.55 | $15.96 | $47.88 | – | – | **$117.43** |
| 30 | 3/4" 90 Degree Radius Elbow | 16.00 | EA | 0% | 16.00 | 0.3674 | $58.78 | 5.88 | $345.49 | $13.50 | $216.00 | – | – | **$561.49** |
| 31 | (1/2",1/2",1/2") Tee | 3.00 | EA | 0% | 3.00 | 0.3998 | $58.78 | 1.20 | $70.50 | $16.45 | $49.35 | – | – | **$119.85** |
| 32 | (1",1",3/4") Tee | 2.00 | EA | 0% | 2.00 | 0.497 | $58.78 | 0.99 | $58.43 | $25.30 | $50.60 | – | – | **$109.03** |
| 33 | (1",1",1/2") Tee | 3.00 | EA | 0% | 3.00 | 0.4794 | $58.78 | 1.44 | $84.54 | $23.70 | $71.10 | – | – | **$155.64** |
| 34 | (3/4",3/4",3/4") Tee | 1.00 | EA | 0% | 1.00 | 0.4553 | $58.78 | 0.46 | $26.76 | $21.50 | $21.50 | – | – | **$48.26** |
| 35 | 2" 90 Degree Radius Elbow | 7.00 | EA | 0% | 7.00 | 0.5654 | $58.78 | 3.96 | $232.65 | $31.52 | $220.67 | – | – | **$453.33** |
| 36 | 2" 45 Degree Radius Elbow | 9.00 | EA | 0% | 9.00 | 0.5175 | $58.78 | 4.66 | $273.75 | $27.16 | $244.44 | – | – | **$518.19** |
| 37 | 4" 45 Degree Radius Elbow | 4.00 | EA | 0% | 4.00 | 0.9012 | $58.78 | 3.60 | $211.89 | $62.08 | $248.32 | – | – | **$460.21** |

| SR # | DESCRIPTION | QUANTITY | | | | LABOR | | | | MATERIAL | | EQUIPMENT | | TOTAL |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | QTY | UNIT | WASTE | QTY W/ WASTE | LABOR HRS / UNIT | WAGE / HR | TOTAL LABOR HRS | TOTAL LABOR COST | MATL. RATE | TOTAL MATL. COST | EQUIP. RATE | TOTAL EQUIP. COST | SUB COST |
| 38 | 3" 45 Degree Radius Elbow | 5.00 | EA | 0% | 5.00 | 0.7306 | $58.78 | 3.65 | $214.74 | $46.56 | $232.80 | – | – | **$447.54** |
| 39 | 1-1/2" 45 Degree Radius Elbow | 2.00 | EA | 0% | 2.00 | 0.4855 | $58.78 | 0.97 | $57.07 | $24.25 | $48.50 | – | – | **$105.57** |
| 40 | (4",4",2") Wye | 2.00 | EA | 0% | 2.00 | 1.392 | $58.78 | 2.78 | $163.59 | $106.70 | $213.40 | – | – | **$376.99** |
| 41 | (2",2",1-1/2") Wye | 1.00 | EA | 0% | 1.00 | 0.752 | $58.78 | 0.75 | $44.20 | $48.50 | $48.50 | – | – | **$92.70** |
| 42 | (2",2",3") Wye | 1.00 | EA | 0% | 1.00 | 0.9652 | $58.78 | 0.97 | $56.73 | $67.90 | $67.90 | – | – | **$124.63** |
| 43 | (2",2",2") Double Wye | 1.00 | EA | 0% | 1.00 | 1.232 | $58.78 | 1.23 | $72.40 | $92.15 | $92.15 | – | – | **$164.55** |
| ***Misc.*** | | | | | | | | | | | | | | |
| 44 | Full Port Valve | 11.00 | EA | 0% | 11.00 | 1.547 | $58.78 | 17.02 | $1,000.26 | $80.94 | $890.34 | – | – | **$1,890.60** |
| 45 | Ball Valve | 2.00 | EA | 0% | 2.00 | 0.794 | $58.78 | 1.59 | $93.34 | $42.15 | $84.30 | – | – | **$177.64** |
| 46 | FD: 3" Floor Drain | 2.00 | EA | 0% | 2.00 | 1.819 | $58.78 | 3.64 | $213.84 | $104.98 | $209.96 | – | – | **$423.80** |
| 47 | SO-1: Oil Interceptor | 1.00 | EA | 0% | 1.00 | 6.473 | $58.78 | 6.47 | $380.48 | $2,717.71 | $2,717.71 | – | – | **$3,098.19** |
| 48 | SW-1" Sample Well | 1.00 | EA | 0% | 1.00 | 3.95 | $58.78 | 3.95 | $232.18 | $481.80 | $481.80 | – | – | **$713.98** |
| 49 | 2 Way Eco | 2.00 | EA | 0% | 2.00 | 2.674 | $58.78 | 5.35 | $314.36 | $135.95 | $271.90 | – | – | **$586.26** |
| 50 | 2" Hub Drain | 1.00 | EA | 0% | 1.00 | 2.412 | $58.78 | 2.41 | $141.78 | $126.49 | $126.49 | – | – | **$268.27** |
| | | | | | | | | | | | | | **SUBTOTAL** | **$30,223.72** |

## NOTES

**General Notes:** The prices used while preparing the estimate were taken from RSMeans online, i.e. the standard pricing. It is therefore preferred to review the prices.

**1.** The drawings are scaled as per the mentioned scales on the plans.

## LEGEND

LBS = Pound
SF = Square Feet
LF = Linear Feet
EA = Each
CY = Cubic Yard
SY = Square Yard
LOC = Location
LS = Lump Sum

| | | |
|---|---|---|
| **PROJECTED COST** | | **$33,799.18** |
| OVERHEAD AND PROFIT | 20% | $6,759.84 |
| INSURANCE | 3% | $1,013.98 |
| CONTINGENCY | 5% | $1,689.96 |
| **SUGGESTED BID** | | **$43,262.95** |

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