



# 2019

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## **CON CAST PIPE** PRICE LIST



**CON CAST PIPE**



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## Terms & Conditions

### General

1. All sales agreements are made between the Purchaser and Con Cast Pipe Inc. ("**CCP**").
2. All terms and conditions contained herein shall apply to any quotation and/or invoice provided by CCP to the Purchaser.
3. There are no warranties, representations and/or guarantees applicable to goods supplied by CCP to the Purchaser.
4. In the event Purchaser purchases materials from CCP pursuant to this quote or price list (or otherwise) and supplies or incorporates said materials into an improvement (as defined by applicable provincial construction lien legislation), then Purchaser acknowledges and agrees that the said materials are subject to a prevenient agreement and that one continuing contract of supply is deemed to be in place.
5. The Purchaser agrees that CCP shall retain title to all goods and/or materials supplied by CCP to Purchaser unless and until the Purchaser has paid for the goods and/or materials in full. CCP shall have a continuing purchase money security interest in all such goods and their proceeds to secure the performance by the Purchaser of all its obligations to CCP. The Purchaser waives the right to receive a copy of any financing statement and verification statement and acknowledges receipt of a copy of this Agreement.
6. The Purchaser hereby authorizes CCP to conduct or cause to be conducted credit investigations/inquiries on Purchaser and any related persons or companies. The Purchaser hereby authorizes CCP to divulge credit references to other creditors as may be requested with regards to credit established and history of payments on account, and to use and disclose such information to the furthest extent permitted by law.
7. The Purchaser hereby authorizes CCP to collect, use and disclose credit reports or other information as may be deemed necessary by CCP, on an ongoing basis, respecting the Purchaser, the principals/officers/directors of the Purchaser, and the signatories on behalf of the Purchaser for the purposes of extending and administering credit.
8. All quotations, unless previously withdrawn by CCP, are open for acceptance by Purchaser for thirty (30) days from the quotation date, and if not accepted within that time, shall be deemed to be withdrawn by CCP.
9. All quotations are subject to any increase in sales tax, freight charges, or any new taxes imposed on this transaction which are payable or collectible by CCP, in which case the amount of such increases will be added to the final invoice.
10. CCP shall not be obliged to supply any goods or materials pursuant to a quotation, whether accepted or not, until such time as CCP has satisfied itself, within its sole discretion, as to Purchaser's creditworthiness.
11. The Purchaser shall satisfy itself as to the suitability for intended use of any goods or materials supplied by CCP.
12. Waiver of any one or more of the terms and conditions herein by CCP shall not constitute a general waiver of terms and conditions and CCP reserves the right to enforce any and all conditions not so waived. Any such waiver must be in writing.
13. Acceptance by Purchaser of any quotation provided by CCP shall constitute a valid and binding contract including but not limited to acceptance of all terms and conditions herein.
14. **Severability:** In the event that any provision of this agreement is held to be void or unenforceable, all other provisions of this agreement shall remain in full force and effect and shall in no way be affected, impaired or invalidated.
15. **Entire Agreement:** This agreement constitutes the entire agreement between Purchaser and CCP and supersedes and extinguishes any and all previous drafts, agreements, arrangements and/or understandings between them, whether written or oral. This agreement shall enure to the benefit of and be binding upon the parties hereto, their respective successors, executors, administrators and assigns.
16. **Jurisdiction:** This agreement shall be governed by and construed under the laws of the Province of Ontario and the proper forum for the resolution of any claims or disputes arising from or relating to this agreement shall be Ontario, save and except that CCP reserves all of its rights and remedies as may be provided for under other provincial construction lien legislation.



## Terms & Conditions Cont'd

17. **Force Majeure:** In no event shall CCP be responsible or liable for any failure or delay in the performance of its obligations hereunder arising from or caused by, directly or indirectly, forces and events beyond its reasonable control, including, without limiting the generality of the foregoing, strikes, work stoppages, shortages of labour and/or materials, accidents, acts of war and/or terrorism, civil and/or military disturbances, acts of theft and/or other crimes, acts of God, fires, floods, earthquakes and adverse weather events.

### Payment

18. All invoices rendered by CCP to Purchaser shall be paid in accordance with payment terms as set out herein. Any invoice not paid within the terms as set out herein shall be deemed to be an "overdue invoice".

19. All invoices and statements of account rendered by CCP to Purchaser shall be considered correct if no objections are reported in writing by the Purchaser within 30 days of the date of the invoice or statement account, as applicable.

20. Interest at the rate of 2% per month, equivalent to 26.8% per annum, shall be charged by CCP to the Purchaser on any and all overdue invoices.

21. In the event it becomes necessary for CCP to pursue legal proceedings against Purchaser to collect any unpaid balances or other sums due and owing by Purchaser to CCP, interest at the rate of 2% per month, equivalent to 26.8% per annum, shall apply as pre- and post-Judgment interest with respect to any Judgment obtained by CCP against Purchaser, including any amounts awarded to CCP for legal costs and disbursements.

22. In the event it becomes necessary for CCP to pursue legal proceedings against Purchaser to collect any unpaid balances or other sums due and owing by Purchaser to CCP, or otherwise to protect and/or enforce CCP's rights under this agreement, Purchaser shall be liable to pay all legal and related costs and disbursements incurred by CCP on a full indemnity scale.

### Return Policy

23. CCP retains the sole, unfettered and absolute discretion to accept or refuse return of any product or materials supplied to Purchaser. Permission must be obtained prior to any return being accepted. For further clarity, all sales are considered final, except at CCP's sole discretion.

24. Returns will not be accepted on any altered or damaged products.

25. **Special Precast Concrete Products:** In the event that special precast concrete products (including but not limited to fittings pipe, radius pipe, pipe with holes, scribed/cored manholes, rectangular chambers, box units, specialty precast, etc.) are ordered by Purchaser from CCP, Purchaser shall not be entitled to cancel such orders once placed. In the event that Purchaser seeks to return any such special precast concrete products, and in the further event that CCP is prepared at its sole discretion to accept return of such products, Purchaser shall not be entitled to any credit or refund for same unless and until such products are resold by CCP. Any such credit or refund shall be limited to the amounts obtained by CCP on resale, less applicable restocking charges as set out herein.

26. In the event CCP is prepared to accept the return of materials, then CCP's shipping department must be contacted a minimum of 3 days prior to the proposed return. The shipping department can be contacted at 1-800-668-7473. CCP requires an accurate list of materials proposed to be returned, including but not limited to quantity, size and/or length, class and description of materials.

27. **Re-Stocking Fees:** A handling charge equivalent to 25% of the purchase price of the materials accepted for return shall be deducted from any amounts to be credited.

### Freight and Freight Charges

28. All prices quoted herein by CCP include the delivery cost for a freight on board ("FOB") truck to the Purchaser's designated delivery sites, provided the designated delivery sites are located within 250 kilometres of CCP's Guelph or Oakville facilities. Any deliveries to destinations in excess of 250 kilometres from CCP's Guelph or Oakville facilities are subject to additional delivery charges.

29. A delivery less than the minimum truckload quantity is priced F.O.B. from our plant. CCP reserves the right to charge an additional amount for deliveries of less than the 20,000 kg minimum truckload quantities, other than the final load to complete a specific order. Contractor will be charged additional fees associated with deliveries requiring the use of the Stake or Straight trucks that are less than the minimum truckload quantity of 20,000 kg pending any extraneous circumstance(s).



## Terms & Conditions Cont'd

30. **Exclusion of Liability:** CCP shall not be liable for any delay or non-delivery arising from or caused by, directly or indirectly, forces and events beyond its reasonable control, including, without limiting the generality of the foregoing, strikes, work stoppages, shortages of labour and/or materials, accidents, acts of war and/or terrorism, civil and/or military disturbances, acts of theft and/or other crimes, acts of God, fires, floods, earthquakes and adverse weather events.

31. Delivery shall be made as close to the jobsite, designated storage area or line of trench as is practical for loaded trucks and trailers operating under their own power, without risk of accident, injury or undue delay. The Purchaser shall provide and maintain suitable access roads to the project site for delivery of product.

32. Loads that have been released for shipment through CCP's Shipping Department, that are not cancelled through direct contact with our Shipping Department, or have not used the shipping phone line (load cancellation extension) before 5:00am on the specified day of delivery, and arrive on site are the responsibility of the Purchaser to off-load. If a delivered load of product is returned to CCP from site, the purchaser is subject to a \$500.00 charge for return and handling of such returned materials. Furthermore, if product is delivered to the site and the purchaser does not have safe and capable means to off-load product which results in the load being returned to CCP, the Purchaser will be charged a \$500.00 fee for return of product to CCP. Please contact your sales representative for further clarification, if required.

33. CCP shall be entitled to charge the Purchaser for unreasonable delay in unloading or releasing of its delivery vehicles. All deliveries allow for a one (1) hour maximum of delivery vehicle time on site for off-loading. If there is any additional time on site, CCP reserves the right to charge the customer for additional time spent on site during offloading and to hold the release of any subsequent trucks until all trucks are off-loaded and released from site.

34. Quotations for precast products are based on deliveries being made in normal working hours and subject to load restrictions. Weekend or night deliveries will be subject to additional delivery charges.

35. The Purchaser shall give CCP three (3) business days notice of delivery requests.

36. Unless otherwise specified, all quotations are made on the conditions that full delivery will be taken within six (6) months from acceptance of order. Any product delivered after this period may be subject to increase in price as shown on CCP's then current price list. Con Cast Pipe reserves the right to invoice a customer for product that has been made specific and special for a project if it has not been delivered to site within six (6) months from the date of the receipt of the order.

37. The Purchaser will inspect the products at the time of delivery and any claims in respect thereto shall be made at that time. If any such products are found to be defective, CCP will deliver replacement product to the Purchaser at the site of the work. CCP's liability for defective products is limited to the replacement of same product at CCP's cost. CCP waives all responsibility of any deficient product not reported immediately after the delivery.

### Sales Tax

38. HST (Harmonized Sales Tax) is EXTRA.

### Terms

39. Net thirty (30) days from the date of the invoice, or, a three (3) percent Prompt Payment Discount, the 25th of the month following may be applicable providing the account is in good standing and has a payment history to support such an initiative. Taxes are not subject to the Prompt Payment Discount.

40. There will be a 3% discount for precast orders picked up at our Guelph or Oakville yard. If a transfer is required to have product picked up at a certain location, the purchaser will be charged for the freight costs of the transferred product.



## Reinforced Concrete Pipe, Caps, and Plugs

| SIZE (mm) | UNIT MASS (kg/m) | CLASS 50-D \$ /metre | CLASS 65-D \$ /metre | CLASS 100-D \$ /metre | CLASS 140-D \$ /metre | Caps and Plugs \$ /ea. |
|-----------|------------------|----------------------|----------------------|-----------------------|-----------------------|------------------------|
| 300       | 225              | 92.30                | 92.30                | 92.30                 | 92.30                 | 92.30                  |
| 375       | 306              | 113.80               | 113.80               | 113.80                | 113.80                | 113.80                 |
| 450       | 381              | 117.30               | 117.30               | 117.30                | 146.60                | 146.60                 |
| 525       | 470              | 127.90               | 127.90               | 149.30                | 176.40                | 176.40                 |
| 600       | 578              | 172.10               | 172.10               | 197.80                | 232.60                | 232.60                 |
| 675       | 691              | 263.90               | 263.90               | 300.50                | 351.90                | 351.90                 |
| 750       | 780              | 347.80               | 347.80               | 397.60                | 464.80                | 464.80                 |
| 825       | 912              | 403.50               | 403.50               | 513.20                | 539.10                | 539.10                 |
| 900       | 1039             | 484.10               | 484.10               | 553.80                | 646.50                | 646.50                 |
| 975       | 1195             | 531.10               | 559.10               | 636.30                | 744.70                | 744.70                 |
| 1050      | 1277             | 608.30               | 638.70               | 731.50                | 852.00                | 852.00                 |
| 1200      | 1561             | 762.30               | 800.80               | 916.20                | 1,067.50              | 1,067.50               |
| 1350      | 1939             | 980.40               | 1,029.40             | 1,177.60              | 1,371.50              | 1,371.50               |
| 1500      | 2123             | 1,199.20             | 1,258.50             | 1,438.90              | 1,678.70              | 1,678.70               |
| 1650      | 2500             | 1,436.00             | 1,508.90             | 1,724.70              | 2,010.80              | 2,010.80               |
| 1800      | 2865             | 1,735.20             | 1,824.50             | 2,082.90              | 2,430.50              | 2,430.50               |
| 1950      | 3324             | 2,012.40             | 2,115.40             | 2,414.50              | 2,818.50              | 2,818.50               |
| 2100      | 3807             | 2,309.30             | 2,422.30             | 2,770.40              | 3,231.20              | 3,231.20               |
| 2250      | 4311             | 2,624.40             | 2,756.80             | 3,149.80              | 3,675.10              | 3,675.10               |
| 2400      | 4869             | 3,071.80             | 3,222.50             | 3,683.50              | 4,297.90              | 4,297.90               |
| 2550      | 5179             | 3,459.60             | 3,629.60             | 4,149.70              | 4,842.00              | 4,842.00               |
| 2700      | 5752             | 3,839.60             | 4,031.20             | 4,607.60              | 5,375.60              | 5,375.60               |
| 3000      | 7043             | 4,701.90             | 4,939.30             | 5,645.10              | 6,585.50              | 6,585.50               |

GASKETS INCLUDED IN PRICE.

ABOVE PRICES ARE PER METRE.

PLEASE CONTACT OUR SALES DEPARTMENT FOR MICROTUNNELING AND JACKING PIPE PRICES.

## Scribed Holes & Knockouts

| MAINLINE PIPE SIZE | Price Per Hole \$ /each |
|--------------------|-------------------------|
| Up to 1350 mm      | 113.10                  |
| 1500mm and over    | 226.00                  |

## Reducers & Increases

PRICE PER PIECE

1) 300mm to 3000mm reinforced pipe REDUCER or INCREASER

- multiply the price per metre of the larger pipe x 6.5.



## CON CAST PIPE

### Concrete Pipe

#### Approximate Mass & Dimensions

| INSIDE DIA.<br>(mm) | OUTSIDE DIA.<br>(mm) | WALL THICKNESS<br>(mm) | LAY LENGTH<br>(m) | MASS PER<br>PIECE<br>(kg) | TRUCKLOAD LOTS<br>(pcs)* |
|---------------------|----------------------|------------------------|-------------------|---------------------------|--------------------------|
| 300                 | 444.5                | 69.9                   | 2.44              | 550                       | 74                       |
| 375                 | 533.4                | 76.2                   | 2.44              | 746                       | 54                       |
| 450                 | 622.3                | 82.6                   | 2.44              | 930                       | 44                       |
| 525                 | 711.2                | 88.9                   | 2.44              | 1140                      | 35                       |
| 600                 | 800.1                | 95.3                   | 2.44              | 1410                      | 29                       |
| 675                 | 889.0                | 101.6                  | 2.44              | 1680                      | 24                       |
| 750                 | 977.9                | 108.0                  | 2.44              | 1905                      | 21                       |
| 825                 | 1066.8               | 114.3                  | 2.44              | 2225                      | 18                       |
| 900                 | 1155.7               | 120.7                  | 2.44              | 2535                      | 16                       |
| 975                 | 1244.6               | 127.0                  | 2.44              | 2915                      | 14                       |
| 1050                | 1333.5               | 133.4                  | 2.44              | 3115                      | 13                       |
| 1200                | 1511.3               | 146.1                  | 2.44              | 3810                      | 10                       |
| 1350                | 1689.1               | 158.8                  | 2.44              | 4731                      | 8                        |
| 1500                | 1828.8               | 152.4                  | 2.44              | 5180                      | 7                        |
| 1650                | 2006.6               | 165.1                  | 2.44              | 6101                      | 6                        |
| 1800                | 2184.4               | 177.8                  | 2.44              | 6991                      | 5                        |
| 1950                | 2362.2               | 190.5                  | 2.44              | 8110                      | 5                        |
| 2100                | 2540.0               | 203.2                  | 2.44              | 9290                      | 4                        |
| 2250                | 2717.8               | 215.9                  | 2.44              | 10520                     | 3                        |
| 2400                | 2895.6               | 228.6                  | 2.44              | 11880                     | 2                        |
| 2550                | 3073.4               | 241.3                  | 2.44              | 12637                     | 2                        |
| 2700                | 3251.2               | 254.0                  | 2.44              | 14035                     | 2                        |
| 3000                | 3606.8               | 279.4                  | 2.44              | 17185                     | 1                        |

**NOTES:**

1) \*SPRING HALF LOAD SEASON WILL AFFECT GROSS WEIGHT.









## Tees & Wyes: Concrete or PVC Connections

To calculate the price of a TEE or WYE junction, multiply the price per metre of the main pipe by its length and add the corresponding price for the required branch as listed below.  
(Price includes rubber gasket)

| BRANCH SIZE<br>(mm) | MAIN PIPE SIZE   |                  |                   |                    |                    |                            |
|---------------------|------------------|------------------|-------------------|--------------------|--------------------|----------------------------|
|                     | 300-525<br>\$/ea | 600-825<br>\$/ea | 900-1200<br>\$/ea | 1350-1800<br>\$/ea | 1950-2400<br>\$/ea | 2550-3000 & Boxes<br>\$/ea |
| 100                 | 149.80           | 157.50           | 200.80            | 272.40             | 326.30             | 377.90                     |
| 125                 | 164.60           | 172.40           | 220.50            | 298.50             | 358.30             | 414.20                     |
| 150                 | 181.30           | 190.70           | 242.90            | 329.40             | 394.70             | 457.10                     |
| 200                 | 241.80           | 254.20           | 324.10            | 439.30             | 526.80             | 609.30                     |
| 250                 | 271.10           | 284.20           | 362.70            | 491.80             | 589.90             | 682.20                     |
| 300                 | 368.80           | 522.40           | 677.80            | 960.40             | 1,243.00           | 1,694.70                   |
| 375                 | 446.10           | 597.50           | 804.60            | 1,127.10           | 1,483.00           | 1,824.40                   |
| 450                 | 545.50           | 675.40           | 884.70            | 1,207.20           | 1,563.30           | 1,904.30                   |
| 525                 | 589.10           | 696.50           | 906.80            | 1,229.30           | 1,585.00           | 1,926.10                   |
| 600                 |                  | 871.50           | 1,086.50          | 1,409.10           | 1,764.70           | 2,106.10                   |
| 675                 |                  | 1,240.50         | 1,407.10          | 1,730.10           | 2,085.70           | 2,427.00                   |
| 750                 |                  | 1,602.00         | 1,746.70          | 2,069.10           | 2,425.10           | 2,766.00                   |
| 825                 |                  | 1,832.60         | 1,954.80          | 2,277.90           | 2,633.70           | 2,974.80                   |
| 900                 |                  |                  | 2,273.40          | 2,596.20           | 2,951.70           | 3,292.60                   |
| 975                 |                  |                  | 2,588.40          | 2,884.70           | 3,240.90           | 3,581.90                   |
| 1050                |                  |                  | 2,939.80          | 3,206.70           | 3,562.10           | 3,903.30                   |
| 1200                |                  |                  | 3,627.60          | 3,850.10           | 4,206.30           | 4,547.20                   |
| 1350                |                  |                  |                   | 4,801.00           | 5,129.30           | 5,532.90                   |

### NOTES:

- 1) Maintenance Hole Tee - Calculate the same as above.
- 2) Largest available MAINTENANCE HOLE TEE is 3000mm x 1200mm.
- 3) Smallest available MAINTENANCE HOLE TEE is 1050mm x 1200mm.
- 4) Please contact our Sales Department for Tee & Wye branch sizes that are larger than 1350mm diameter.
- 5) Please contact our Sales Department for Tees & Wyes pipe sections that have multiple branch pipe.



## CON CAST PIPE

### Reinforced Concrete Bends

ONE-QUARTER (90°) & ONE-EIGHTH (45°) BENDS, BELOW PRICES ARE PER PIECE

| SIZE<br>(mm) | CLASS 50-D<br>\$ /ea | CLASS 65-D<br>\$ /ea | CLASS 100-D<br>\$ /ea | CLASS 140-D<br>\$ /ea | MAX. ANGLE |
|--------------|----------------------|----------------------|-----------------------|-----------------------|------------|
| 300          | 497.10               | 497.10               | 497.10                | 497.10                | 90°        |
| 375          | 615.50               | 615.50               | 615.50                | 615.50                | 90°        |
| 450          | 634.30               | 634.30               | 634.30                | 792.50                | 90°        |
| 525          | 690.90               | 690.90               | 807.90                | 951.50                | 90°        |
| 600          | 878.20               | 878.20               | 1,008.40              | 1,186.50              | 90°        |
| 675          | 1,320.10             | 1,320.10             | 1,503.20              | 1,759.90              | 90°        |
| 750          | 1,740.00             | 1,740.00             | 1,989.20              | 2,324.00              | 90°        |
| 825          | 2,017.50             | 2,017.50             | 2,565.70              | 2,696.80              | 90°        |
| 900          | 2,418.60             | 2,418.60             | 2,767.40              | 3,230.10              | 90°        |
| 975          | 2,656.00             | 2,797.00             | 3,181.70              | 3,721.60              | 90°        |
| 1050         | 3,041.20             | 3,194.50             | 3,656.90              | 4,260.50              | 90°        |
| 1200         | 3,810.70             | 4,003.90             | 4,581.00              | 5,339.30              | 90°        |
| 1350         | 4,904.00             | 5,146.70             | 5,888.00              | 6,857.60              | 90°        |
| 1500         | 5,995.20             | 6,291.50             | 7,194.50              | 8,393.20              | 90°        |
| 1650         | 7,181.20             | 7,544.80             | 8,622.20              | 10,050.20             | 75°        |
| 1800         | 8,676.10             | 9,121.10             | 10,414.80             | 12,152.10             | 70°        |
| 1950         | 10,063.40            | 10,575.90            | 12,071.60             | 14,092.40             | 65°        |
| 2100         | 11,546.20            | 12,111.90            | 13,850.90             | 16,153.70             | 62°        |
| 2250         | 13,122.80            | 13,782.50            | 15,748.80             | 18,376.70             | 60°        |
| 2400         | 15,358.70            | 16,113.40            | 18,416.80             | 21,489.00             | 56°        |
| 2550         | 17,298.40            | 18,147.50            | 20,747.70             | 24,210.40             | 53°        |
| 2700         | 19,198.50            | 20,155.20            | 23,038.50             | 26,877.70             | 50°        |
| 3000         | 23,509.50            | 24,695.50            | 28,225.40             | 32,926.80             | 45°        |

ABOVE PRICES ARE PER PIECE.



### Elliptical Reinforced Concrete Pipe

| EQUIV. DIA.<br>(mm) | RISE x SPAN<br>(mm) | HE I<br>\$/metre | HE II<br>\$/metre | HE III<br>\$/metre | HE IV<br>\$/metre      | MASS<br>(kg/m) |
|---------------------|---------------------|------------------|-------------------|--------------------|------------------------|----------------|
| 900                 | 735 x 1145          | 701.60           | 740.90            | 822.50             | 943.60                 | 931            |
| 1050                | 865 x 1345          | 858.80           | 898.40            | 1,013.00           | 1,161.30               | 1214           |
| 1200                | 965 x 1525          | 1,055.30         | 1,103.50          | 1,239.80           | Available Upon Request | 1490           |
| 1350                | 1090 x 1725         | 1,324.60         | 1,394.40          | 1,563.80           | Available Upon Request | 1840           |
| 1500                | 1220 x 1930         | 1,578.90         | 1,660.70          | 1,869.10           | Available Upon Request | 2198           |
| 1650                | 1345 x 2110         | 1,872.20         | 1,968.90          | 2,207.70           | Available Upon Request | 2600           |
| 1800                | 1475 x 2310         | 2,253.20         | 2,362.10          | 2,652.00           | Available Upon Request | 3040           |
| 1950                | 1600 x 2490         | 2,588.70         | 2,725.10          | 3,054.80           | Available Upon Request | 3502           |
| 2100                | 1725 x 2690         | 2,951.80         | 3,106.10          | 3,484.10           | Available Upon Request | 3993           |

**NOTES:**

- 1) Above prices includes jointing material.
- 2) BENDS - multiply the price per metre of the horizontal elliptical pipe x 5.0.
- 3) REDUCERS & INCREASERS - multiply the price per metre of the larger horizontal elliptical pipe x 6.0.
- 4) PLUGS & CAPS - multiply the price per metre of the HE IV horizontal elliptical pipe x 1.0.
- 5) MAINTENANCE HOLE TEE - multiply the price per metre of the elliptical pipe x 2.44 and add \$4,342.20 for the 1200mm riser stub.
- 6) Please allow 3 to 4 weeks delivery.



### Reinforced Concrete Box Units - OPSS 1821

| SPAN x RISE<br>(mm) | WALL THICKNESS<br>(mm) | WATERWAY AREA<br>(m <sup>2</sup> ) | APPROX. MASS<br>(kg/m) | Design Earth Cover<br>(m) | OPSS 1821<br>(\$ /metre) |
|---------------------|------------------------|------------------------------------|------------------------|---------------------------|--------------------------|
| 1800 x 900          | 200                    | 1.61                               | 3380                   | 0.6 to 5.5                | 1,983.90                 |
| 1800 x 1200         | 200                    | 2.16                               | 3690                   | 0.6 to 5.5                | 2,165.40                 |
| 2400 x 1200         | 200                    | 2.89                               | 4560                   | 0.6 to 3.6                | 2,763.10                 |
| 2400 x 1500         | 200                    | 3.63                               | 4870                   | 0.6 to 3.6                | 2,960.10                 |
| 2400 x 1800         | 200                    | 4.38                               | 5170                   | 0.6 to 3.6                | 3,157.90                 |
| 3000 x 1500         | 250                    | 4.51                               | 6860                   | 0.6 to 3.6                | 4,323.10                 |
| 3000 x 1800         | 250                    | 5.44                               | 7250                   | 0.6 to 3.6                | 4,571.00                 |
| 3000 x 2100         | 250                    | 6.37                               | 7630                   | 0.6 to 3.6                | 4,816.70                 |
| 3000 x 2400         | 250                    | 7.30                               | 8020                   | 0.6 to 3.6                | 5,061.70                 |

### Reinforced Concrete Box Units - CHBDC CAN/CSA S6-06

| SPAN x RISE<br>(mm) | WALL THICKNESS<br>(mm) | WATERWAY AREA<br>(m <sup>2</sup> ) | APPROX. MASS<br>(kg/m) | Design Earth Cover<br>(m) | CHBDC CAN/CSA S6-06<br>(\$ /metre) |
|---------------------|------------------------|------------------------------------|------------------------|---------------------------|------------------------------------|
| 1800 x 900          | 200                    | 1.61                               | 3380                   | 0.0 to 0.6 & 5.5 to 8.0   | 2,496.50                           |
| 1800 x 1200         | 200                    | 2.16                               | 3690                   | 0.0 to 0.6 & 5.5 to 8.0   | 2,716.00                           |
| 2400 x 1200         | 200                    | 2.89                               | 4560                   | 0.0 to 0.6 & 3.6 to 6.0   | 3,473.40                           |
| 2400 x 1500         | 200                    | 3.63                               | 4870                   | 0.0 to 0.6 & 3.6 to 5.0   | 3,750.40                           |
| 2400 x 1800         | 200                    | 4.38                               | 5170                   | 0.0 to 0.6 & 3.6 to 5.0   | 3,952.20                           |
| 3000 x 1500         | 250                    | 4.51                               | 6860                   | 0.0 to 0.6 & 3.6 to 5.0   | 5,316.60                           |
| 3000 x 1800         | 250                    | 5.44                               | 7250                   | 0.0 to 0.6 & 3.6 to 5.0   | 5,539.50                           |
| 3000 x 2100         | 250                    | 6.37                               | 7630                   | 0.0 to 0.6 & 3.6 to 5.0   | 5,828.30                           |
| 3000 x 2400         | 250                    | 7.30                               | 8020                   | 0.0 to 0.6 & 3.6 to 5.0   | 6,120.00                           |

**NOTES:**

- 1) **BOX LAY LENGTH** - 2.44 m.
- 2) **JOINTING MATERIAL** - Add 5% to above price per metre.
- 3) **DELIVERY** - Please contact the Con Cast Pipe Sales Department for delivery dates.
- 4) **SPECIALS** - Please contact our Sales or Engineering Departments for prices of special design box units.
- 5) **REINFORCED CONCRETE BOX UNIT TEE & WYE JUNCTIONS** -  
**Box to Box Junction** - multiply the price per metre of the larger box unit by 6.0.  
**Box to Pipe Junction** - multiply the price per metre of the box unit by 2.5 and add the branch price from page 6.
- 6) **REINFORCED CONCRETE BOX UNIT BENDS & ELBOWS** -  
5.0 x price per metre of the larger box = Total price per piece of BEND or ELBOW.
- 7) **REINFORCED CONCRETE BOX UNIT REDUCERS & INCREASERS** -  
6.0 x price per metre of the larger box = Total price per piece of REDUCER or INCREASER.
- 8) **REINFORCED CONCRETE BOX UNIT PLUGS & CAPS** -  
Price per metre of box unit = Total price per piece of PLUG or CAP.
- 9) **REINFORCED CONCRETE RADIUS BOX UNIT** - 1.15 x price per metre of straight box
- 10) **SKEWED END** - 1.2 x price per metre of straight box and multiply length of skewed unit.
- 11) **FLUSH ENDS** - \$775.10 per unit.
- 12) **STANDARD 15M DOWELS & INSERTS** - \$89.80 per set.
- 13) **SCRIBED HOLES** - \$226.00 each.
- 14) **685mm ACCESS OPENING IN TOP SLAB** - \$1,291.80 (includes steps).
- 15) **1200mm MANHOLE TEE** - \$4,774.60 (includes steps).
- 16) **Additional sizes available upon request. Please contact our Sales Department for special box size pricing and depths greater than listed above.**



## CON CAST PIPE

### 1200mm Reinforced Concrete Maintenance Holes

| SIZE (mm) | DESCRIPTION                       | HEIGHT (m)     | APPROX. MASS | PRICE \$     |
|-----------|-----------------------------------|----------------|--------------|--------------|
| 1200      | taper top c/w steps               | 1.320          | 1905 kg/pc   | 1,054.80 ea. |
| 1200      | flat cap                          | 0.305          | 715 kg/pc    | 601.00 ea.   |
| 1200      | riser c/w steps                   | 0.305 to 1.829 | 1324 kg/m    | 768.60 /m    |
| 1200      | monolithic base c/w steps         | 0.762          | 1760 kg/pc   | 1,270.00 ea. |
| 1200      | monolithic base c/w steps         | 0.914          | 1960 kg/pc   | 1,386.90 ea. |
| 1200      | monolithic base c/w steps         | 1.067          | 2160 kg/pc   | 1,504.40 ea. |
| 1200      | monolithic base c/w steps         | 1.219          | 2360 kg/pc   | 1,621.20 ea. |
| 1200      | monolithic base c/w steps         | 1.372          | 2550 kg/pc   | 1,737.30 ea. |
| 1200      | monolithic base c/w steps         | 1.524          | 2750 kg/pc   | 1,854.30 ea. |
| 1200      | base slab                         | 0.203          | 780 kg/pc    | 601.00 ea.   |
| 1200      | safety grate supplied & installed |                |              | 1,440.30 ea. |
| 1200      | prebenching                       |                |              | 692.90 ea.   |

### 1500mm Reinforced Concrete Maintenance Holes

| SIZE (mm)    | DESCRIPTION                       | HEIGHT (m)    | APPROX. MASS | PRICE \$     |
|--------------|-----------------------------------|---------------|--------------|--------------|
| 1500         | flat cap                          | 0.430         | 1810 kg/pc   | 1,197.50 ea. |
| 1500 to 1200 | transition c/w steps              | 0.610         | 1678 kg/pc   | 1,197.50 ea. |
| 1500         | riser c/w steps                   | 3.05 to 2.438 | 1927 kg/m    | 1,165.00 /m  |
| 1500         | monolithic base c/w steps         | 1.067         | 3430 kg/pc   | 2,793.60 ea. |
| 1500         | monolithic base c/w steps         | 1.372         | 4040 kg/pc   | 3,148.80 ea. |
| 1500         | monolithic base c/w steps         | 1.676         | 4645 kg/pc   | 3,503.00 ea. |
| 1500         | monolithic base c/w steps         | 1.829         | 5050 kg/pc   | 3,681.30 ea. |
| 1500         | monolithic base c/w steps         | 1.981         | 5350 kg/pc   | 3,858.40 ea. |
| 1500         | base slab                         | 0.305         | 1770 kg/pc   | 1,197.50 ea. |
| 1500         | safety grate supplied & installed |               |              | 2,028.00 ea. |
| 1500         | prebenching                       |               |              | 932.40 ea.   |

### 1800mm Reinforced Concrete Maintenance Holes

| SIZE (mm)    | DESCRIPTION                       | HEIGHT (m)     | APPROX. MASS | PRICE \$     |
|--------------|-----------------------------------|----------------|--------------|--------------|
| 1800         | flat cap                          | 0.430          | 2720 kg/pc   | 1,614.90 ea. |
| 1800 to 1200 | transition c/w steps              | 0.610          | 2400 kg/pc   | 1,614.90 ea. |
| 1800         | riser c/w steps                   | 0.610 to 2.438 | 2756 kg/m    | 1,656.60 /m  |
| 1800         | base slab                         | 0.305          | 2630 kg/pc   | 1,614.90 ea. |
| 1800         | safety grate supplied & installed |                |              | 2,631.50 ea. |

### 2400mm Reinforced Concrete Maintenance Holes

| SIZE (mm)    | DESCRIPTION                       | HEIGHT (m)     | APPROX. MASS | PRICE \$     |
|--------------|-----------------------------------|----------------|--------------|--------------|
| 2400         | flat cap                          | 0.430          | 4980 kg/pc   | 3,200.00 ea. |
| 2400 to 1200 | transition slab c/w steps         | 0.430          | 4210 kg/pc   | 3,200.00 ea. |
| 2400         | riser c/w steps                   | 0.610 to 2.438 | 4598 kg/m    | 2,953.40 /m  |
| 2400         | base slab                         | 0.305          | 4620 kg/pc   | 3,200.00 ea. |
| 2400         | safety grate supplied & installed |                |              | 4,114.90 ea. |



### 3000mm Reinforced Concrete Maintenance Holes

| SIZE (mm)    | DESCRIPTION                       | HEIGHT (m)     | APPROX. MASS | PRICE \$     |
|--------------|-----------------------------------|----------------|--------------|--------------|
| 3000         | flat cap                          | 0.450          | 7847 kg/pc   | 5,389.00 ea. |
| 3000 to 1200 | transition slab c/w steps         | 0.450          | 7258 kg/pc   | 5,389.00 ea. |
| 3000         | riser c/w steps                   | 0.610 to 2.438 | 7043 kg/m    | 4,620.30 /m  |
| 3000         | base slab                         | 0.305          | 8225 kg/pc   | 5,389.00 ea. |
| 3000         | safety grate supplied & installed |                |              | on request   |

### 3600mm Reinforced Concrete Maintenance Holes

| SIZE (mm)    | DESCRIPTION                       | HEIGHT (m)     | APPROX. MASS | PRICE \$     |
|--------------|-----------------------------------|----------------|--------------|--------------|
| 3600         | flat cap                          | 0.450          | 10500 kg/pc  | 9,516.10 ea. |
| 3600 to 1200 | transition slab c/w steps         | 0.450          | 10500 kg/pc  | 9,516.10 ea. |
| 3600         | riser c/w steps                   | 0.610 to 1.829 | 11042 kg/m   | 10,069.20 /m |
| 3600         | base slab                         | 0.305          | 10500 kg/pc  | 9,516.10 ea. |
| 3600         | safety grate supplied & installed |                |              | on request   |

**IMPORTANT: 2400mm, 3000mm, and 3600mm MAINTENANCE HOLES TO BE OFF-LOADED BY CONTRACTOR.**

#### NOTES:

- 1) Gaskets included in price.
- 2) Prices on product manufactured to OPSD 700 series and OPSD 1000 series.
- 3) Install outlet pipe in centre of precast outlet opening.
- 4) Standard steps conform to OPSD 405.010. Solid aluminum steps available upon request.
- 5) Please contact our sales department for pricing on precast drop structures.

### Maintenance Hole Appurtenances

| DESCRIPTION  | PRICE \$  |
|--|-----------|
| maintenance hole safety steps OPSD 405.010                           | 27.20 ea  |
| solid aluminum steps OPSD 405.020                                    | 39.30 ea  |
| outside rebar steps - supplied & installed fo C.I.P. drop structures | 36.30 ea  |
| maintenance hole clean out steps - supplied & installed              | 40.20 ea  |
| maintenance hole frames & covers OPSD 401.010                        | 671.60 ea |
| hatches cast into flat caps (hatch by others)                        | 617.40 ea |
| swift lift lifting eyes (4 tonne capacity)                           | 416.10 ea |
| swift lift lifting eyes (8 tonne capacity)                           | 783.10 ea |
| engineering surcharge (non-standard engineering requirements)        | 983.90 ea |

### Maintenance Grade Rings

|   |             |
|---|-------------|
| 50mm maintenance hole grade ring - 12 per bundle - 52 kg ea.          | 46.50 ea    |
| 75mm maintenance hole grade ring - 8 per bundle - 75 kgs ea.          | 49.40 ea    |
| 75mm maintenance hole grade ring c/w step - 8 per bundle - 75 kgs ea. | 72.60 ea    |
| 150mm maintenance hole grade ring - 150 kgs ea.                       | 171.20 ea   |
| 300mm maintenance hole grade ring c/w step - 430 kgs ea.              | 219.20 ea   |
| modutape (6.1 metres per roll)  | 16.50 /roll |



**CON CAST PIPE**

**Maintenance Hole Estimate Sheet**

1200 mm DIAMETER

MONOBASE MH

| DEPTH (m) |      | PRICE<br>\$ /ea |
|-----------|------|-----------------|
| FROM      | TO   |                 |
| 1.37      | 1.52 | 2,108.00        |
| 1.53      | 1.68 | 2,225.00        |
| 1.69      | 1.85 | 2,344.00        |
| 1.86      | 2.01 | 2,460.00        |
| 2.02      | 2.17 | 2,577.00        |
| 2.18      | 2.33 | 2,444.00        |
| 2.34      | 2.50 | 2,563.00        |
| 2.51      | 2.66 | 2,680.00        |
| 2.67      | 2.82 | 2,796.00        |
| 2.83      | 2.98 | 2,914.00        |
| 2.99      | 3.15 | 3,031.00        |
| 3.16      | 3.31 | 3,148.00        |
| 3.32      | 3.47 | 3,267.00        |
| 3.48      | 3.63 | 3,383.00        |
| 3.64      | 3.80 | 3,500.00        |
| 3.81      | 3.96 | 3,616.00        |
| 3.97      | 4.12 | 3,734.00        |
| 4.13      | 4.28 | 3,968.00        |
| 4.29      | 4.45 | 4,086.00        |
| 4.46      | 4.61 | 4,203.00        |
| 4.62      | 4.77 | 4,320.00        |
| 4.78      | 4.99 | 4,437.00        |
| 5.00      | 5.15 | 6,074.00        |
| 5.16      | 5.31 | 6,309.00        |
| 5.32      | 5.48 | 6,427.00        |
| 5.49      | 5.64 | 6,545.00        |
| 5.65      | 5.80 | 6,661.00        |
| 5.81      | 5.96 | 6,778.00        |
| 5.97      | 6.13 | 6,896.00        |
| 6.14      | 6.29 | 7,012.00        |
| 6.30      | 6.45 | 7,128.00        |
| 6.46      | 6.61 | 7,129.00        |
| 6.62      | 6.78 | 7,246.00        |
| 6.79      | 6.94 | 7,365.00        |
| 6.95      | 7.10 | 7,481.00        |
| 7.11      | 7.26 | 7,716.00        |
| 7.27      | 7.43 | 7,833.00        |
| 7.44      | 7.59 | 7,948.00        |
| 7.60      | 7.75 | 8,066.00        |
| 7.76      | 7.91 | 8,184.00        |
| 7.92      | 8.08 | 8,301.00        |

1500 mm DIAMETER

MONOBASE MH

| DEPTH (m) |      | PRICE<br>\$ /ea |
|-----------|------|-----------------|
| FROM      | TO   |                 |
| 1.37      | 1.67 | 3,995.00        |
| 1.68      | 1.99 | 4,350.00        |
| 2.00      | 2.30 | 4,704.00        |
| 2.31      | 2.62 | 5,060.00        |
| 2.63      | 2.93 | 5,415.00        |
| 2.94      | 3.25 | 5,770.00        |
| 3.26      | 3.56 | 6,251.00        |
| 3.57      | 3.88 | 6,485.00        |
| 3.89      | 4.19 | 6,719.00        |
| 4.20      | 4.51 | 6,822.00        |
| 4.52      | 4.82 | 6,939.00        |
| 4.83      | 4.99 | 7,055.00        |
| 5.00      | 5.30 | 8,694.00        |
| 5.31      | 5.62 | 8,929.00        |
| 5.63      | 5.93 | 9,163.00        |
| 5.94      | 6.25 | 9,397.00        |
| 6.26      | 6.56 | 9,632.00        |
| 6.57      | 6.88 | 9,866.00        |
| 6.89      | 7.19 | 10,101.00       |
| 7.20      | 7.51 | 10,334.00       |
| 7.52      | 7.82 | 10,568.00       |
| 7.83      | 8.14 | 10,803.00       |





## Maintenance Hole Estimate Sheet

1800 mm DIAMETER

BASE SLAB MH

| DEPTH (m) |      | PRICE<br>\$ /ea |
|-----------|------|-----------------|
| FROM      | TO   |                 |
| 1.37      | 1.67 | 5,252.00        |
| 1.68      | 1.99 | 5,758.00        |
| 2.00      | 2.30 | 6,262.00        |
| 2.31      | 2.62 | 6,768.00        |
| 2.63      | 2.93 | 7,271.00        |
| 2.94      | 3.25 | 7,778.00        |
| 3.26      | 3.56 | 7,603.00        |
| 3.57      | 3.88 | 7,837.00        |
| 3.89      | 4.19 | 8,072.00        |
| 4.20      | 4.51 | 8,174.00        |
| 4.52      | 4.82 | 8,292.00        |
| 4.83      | 4.99 | 8,525.00        |
| 5.00      | 5.30 | 10,376.00       |
| 5.31      | 5.62 | 10,594.00       |
| 5.63      | 5.93 | 10,830.00       |
| 5.94      | 6.25 | 11,063.00       |
| 6.26      | 6.56 | 11,298.00       |
| 6.57      | 6.88 | 11,531.00       |
| 6.89      | 7.19 | 11,766.00       |
| 7.20      | 7.51 | 11,999.00       |
| 7.52      | 7.82 | 12,235.00       |
| 7.83      | 8.14 | 12,470.00       |

2400 mm DIAMETER

BASE SLAB MH

| DEPTH (m) |      | PRICE<br>\$ /ea |
|-----------|------|-----------------|
| FROM      | TO   |                 |
| 1.37      | 1.67 | 10,003.00       |
| 1.68      | 1.99 | 10,904.00       |
| 2.00      | 2.30 | 11,804.00       |
| 2.31      | 2.62 | 12,705.00       |
| 2.63      | 2.93 | 13,603.00       |
| 2.94      | 3.25 | 14,440.00       |
| 3.26      | 3.56 | 14,673.00       |
| 3.57      | 3.88 | 14,906.00       |
| 3.89      | 4.19 | 15,060.00       |
| 4.20      | 4.51 | 15,127.00       |
| 4.52      | 4.82 | 15,360.00       |
| 4.83      | 4.99 | 15,464.00       |
| 5.00      | 5.30 | 17,444.00       |
| 5.31      | 5.62 | 17,466.00       |
| 5.63      | 5.93 | 17,665.00       |
| 5.94      | 6.25 | 17,899.00       |
| 6.26      | 6.56 | 18,132.00       |
| 6.57      | 6.88 | 18,368.00       |
| 6.89      | 7.19 | 18,602.00       |
| 7.20      | 7.51 | 18,837.00       |
| 7.52      | 7.82 | 19,070.00       |
| 7.83      | 8.14 | 19,304.00       |

3000 mm DIAMETER

BASE SLAB MH

| DEPTH (m) |      | PRICE<br>\$ /ea |
|-----------|------|-----------------|
| FROM      | TO   |                 |
| 1.37      | 1.67 | 16,414.00       |
| 1.68      | 1.99 | 17,823.00       |
| 2.00      | 2.30 | 19,232.00       |
| 2.31      | 2.62 | 20,641.00       |
| 2.63      | 2.93 | 22,045.00       |
| 2.94      | 3.25 | 22,882.00       |
| 3.26      | 3.56 | 23,116.00       |
| 3.57      | 3.88 | 23,232.00       |
| 3.89      | 4.19 | 23,335.00       |
| 4.20      | 4.51 | 23,569.00       |
| 4.52      | 4.82 | 23,803.00       |
| 4.83      | 4.99 | 23,935.00       |
| 5.00      | 5.30 | 25,808.00       |
| 5.31      | 5.62 | 25,830.00       |
| 5.63      | 5.93 | 26,027.00       |
| 5.94      | 6.25 | 26,263.00       |
| 6.26      | 6.56 | 26,496.00       |
| 6.57      | 6.88 | 26,731.00       |
| 6.89      | 7.19 | 26,965.00       |
| 7.20      | 7.51 | 27,199.00       |
| 7.52      | 7.82 | 27,433.00       |
| 7.83      | 8.14 | 27,667.00       |

**NOTES:**

- 1) DEPTH REPRESENTS THE DIFFERENCE FROM FINISHED GRADE TO LOWEST INVERT.
- 2) PRICES SHOWN ARE BASED UPON THE MOST LIKELY COMBINATION OF PIECES FOR EACH DEPTH RANGE - ACTUAL COMBINATIONS AND PRICES MAY VARY.
- 3) THE FOLLOWING DESIGN CRITERIA HAVE BEEN USED:
  - 1500mm & 1800mm MAINTENANCE HOLES HAVE 2.13m OF HEADROOM BEFORE TRANSITIONING.
  - 2400mm & 3000mm MAINTENANCE HOLES HAVE 2.44m OF HEADROOM BEFORE TRANSITIONING.
  - WHEREVER POSSIBLE, TAPER TOPS (CONES) ARE USED INSTEAD OF FLAT CAPS.
  - TYPICAL RANGE FOR BRICK & CASTING IS 225-350mm.
- 4) PRICES INCLUDE:
  - PRECAST MAINTENANCE HOLE COMPONENTS
  - GASKETS
  - 1200 DIA. SAFETY LANDINGS (FOR MAINTENANCE HOLES 5.0m & DEEPER)
- 5) PRICES DO NOT INCLUDE:
  - GRADE RINGS (ADJUSTMENT RINGS)
  - METAL FRAMES & GRATES
  - PREBENCHING
  - FLEXIBLE CONNECTORS (BOOTS)



## CON CAST PIPE

### Flexible Connectors

Pipe to maintenance hole connectors, supplied and installed.

| CONCRETE PIPE | PVC PIPE | PRICE (\$/ea.) |
|---------------|----------|----------------|
|               | 150      | 211.70         |
|               | 200      | 211.70         |
|               | 250      | 276.30         |
|               | 300      | 276.30         |
| 300           |          | 361.40         |
|               | 375      | 361.40         |
| 375           |          | 434.40         |
|               | 450      | 434.40         |
| 450           |          | 549.60         |
|               | 525      | 549.60         |
| 525           |          | 648.80         |
|               | 600      | 614.80         |
| 600           |          | 769.10         |
|               | 675      | 648.80         |
| 675           |          | 868.00         |

**NOTE:**

1) Please contact our Sales Department for larger sizes of flexible connectors.

### Monobox Maintenance Holes

| SIZE (mm)   | PRICE \$ /metre |
|-------------|-----------------|
| 2400 x 1800 | 4,511.70        |
| 3000 x 2400 | 7,234.50        |
| 3900 x 2400 | 10,209.00       |
| 3900 x 3000 | 13,154.60       |

**NOTES:**

- 1) For Monotransitions including a 1200mm diameter chimney, add \$210.80 to the price of the pertinent size of Monocap.
- 2) A minimum charge of 2.0m will apply to all monobox maintenance holes
- 3) **Monobox maintenance holes are designed to a maximum depth of 7.0 metres. Please contact your Con Cast Pipe Sales Representative if the depth of the structure exceeds**
- 4) Above prices include the supply of butyl rubber joint sealer.

### Utility Maintenance Holes & Valve Chambers

| SIZE (mm)                | BASE SLAB    |              | RISER           |             | FLAT CAP     |              |
|--------------------------|--------------|--------------|-----------------|-------------|--------------|--------------|
|                          | PRICE \$ /ea | MASS (kg/pc) | PRICE \$ /metre | MASS (kg/m) | PRICE \$ /ea | MASS (kg/pc) |
| 2400 x 1800 (200mm Wall) | 3,157.90     | 3660         | 3,315.80        | 5170        | 3,157.90     | 4050         |
| 3000 x 2400 (250mm Wall) | 5,061.70     | 6090         | 5,314.90        | 8020        | 5,061.70     | 6850         |

**NOTES:**

- 1) Above prices include allowance for two holes in riser walls. Additional holes are \$209.10 each.
- 2) For transition slabs, please add \$198.90 to the price for of flat cap of the pertinent size.
- 3) Riser Heights: 0.914m to 2.44m. Base slabs and flat caps are 250mm Thick.
- 5) Butyl Rubber joint filler is included in above pricing. Waterproofing is by others. Contact your Sales Representative for Waterproofing options, than specified above.

### Valve Chamber Chimney

| DESCRIPTION            | APPROX. MASS (kg/m) | LENGTH (m)  | PRICE \$ /metre |
|------------------------|---------------------|-------------|-----------------|
| 750mm x 1200mm Chimney | 1,680               | As Required | 1,693.30        |



## Reinforced Concrete Catch Basins

| SIZE<br>(mm)  | HEIGHT<br>(m)  | APPROX.<br>MASS<br>(kg/m) | PRICE<br>\$/metre |
|---|----------------|---------------------------|-------------------|
| 600 x 600 x 115 wall catchbasin                     | 1.067 to 1.981 | 940                       | 503.40            |
| 600 x 600 x 150 wall catchbasin                     | 1.067 to 1.981 | 1220                      | 680.50            |
| 600 x 600 x 150 wall ditch inlet catchbasin         | 1.219 to 1.981 | 1220                      | 680.50            |
| 600 x 1200 x 150 wall double ditch inlet catchbasin | 1.219 to 1.981 | 1785                      | 1,104.70          |
| 600 x 840 x 115 wall curb inlet catchbasin          | 1.219 to 1.981 | 1060                      | 796.40            |
| 600 x 1450 x 115 wall twin inlet catchbasin         | 1.219 to 1.981 | 1640                      | 976.90            |

### NOTES:

1) For Ditch Inlet Catch Basins, please add \$148.40/set for Ditch Inlet Fasteners as required. For grate pricing, see catchbasin appurtenances section.

## Catchbasin Appurtenances

| DESCRIPTION  | PRICE<br>\$ |
|--|-------------|
| catch basin frames & covers OPSD 400.020                                     | 695.10 ea   |
| ditch inlet catch basin gratings - type "A" (fits 600 x 600 Ditch Inlet CB)  | 599.00 ea   |
| ditch inlet catch basin gratings - type "B" (fits 600 x 1200 Ditch Inlet CB) | 881.60 ea   |
| ditch inlet catch basin gratings - type "C" (fits 600 x 1200 Ditch Inlet CB) | 968.00 ea   |
| ditch inlet grate fasteners  | 154.30 /set |
| point of entry trap or goss trap with plug                                   | 700.60 ea   |
| point of entry trap filter   | 67.30 ea    |
| catch basin inlet control devices (inserts installed only)                   | 136.60 /set |
| swift lift lifting eyes (4 tonne capacity)                                   | 416.10 ea.  |

## Catchbasin Grade Rings

|  |             |
|--|-------------|
| 50mm catch basin grade ring - 12 per bundle - 36 kgs ea. | 44.20 ea    |
| 75mm catch basin grade ring - 8 per bundle - 75 kgs ea.  | 46.70 ea    |
| 125mm catch basin grade ring - 105 kgs ea.               | 70.10 ea    |
| 150mm catch basin grade ring - 125 kgs ea.               | 156.60 ea   |
| 300mm catch basin grade ring - 245 kgs ea.               | 208.30 ea   |
| modutape (6.1 metres per roll)                           | 16.50 /roll |



## Catch Basin Estimate Sheet

**600 x 600 SINGLE INLET  
115 WALL THICKNESS**

| HEIGHT<br>(m) | PRICE<br>\$ /ea |
|---------------|-----------------|
| 0.914         | 460.10          |
| 1.067         | 537.10          |
| 1.219         | 613.60          |
| 1.372         | 690.70          |
| 1.524         | 767.20          |
| 1.676         | 843.70          |
| 1.829         | 920.70          |
| 1.981         | 997.20          |
| 2.134         | 1,074.30        |
| 2.287         | 1,151.30        |
| 2.439         | 1,227.80        |
| 2.592         | 1,304.80        |
| 2.744         | 1,381.30        |
| 2.897         | 1,458.30        |
| 3.049         | 1,534.90        |
| 3.202         | 1,611.90        |
| 3.354         | 1,688.40        |
| 3.507         | 1,765.40        |
| 3.659         | 1,841.90        |
| 3.812         | 1,919.00        |

**600 x 600 SINGLE INLET  
150 WALL THICKNESS**

| HEIGHT<br>(m) | PRICE<br>\$ /ea |
|---------------|-----------------|
| 0.914         | 622.00          |
| 1.067         | 726.10          |
| 1.219         | 829.50          |
| 1.372         | 933.60          |
| 1.524         | 1,037.10        |
| 1.676         | 1,140.50        |
| 1.829         | 1,244.60        |
| 1.981         | 1,348.10        |
| 2.134         | 1,452.20        |
| 2.287         | 1,556.30        |
| 2.439         | 1,659.70        |
| 2.592         | 1,763.90        |
| 2.744         | 1,867.30        |
| 2.897         | 1,971.40        |
| 3.049         | 2,074.80        |
| 3.202         | 2,179.00        |
| 3.354         | 2,282.40        |
| 3.507         | 2,386.50        |
| 3.659         | 2,489.90        |
| 3.812         | 2,594.10        |

**600 x 1450 TWIN INLET  
115 WALL THICKNESS**

| HEIGHT<br>(m) | PRICE<br>\$ /ea |
|---------------|-----------------|
| 0.914         | 892.90          |
| 1.067         | 1,042.50        |
| 1.219         | 1,190.80        |
| 1.372         | 1,340.30        |
| 1.524         | 1,488.80        |
| 1.676         | 1,637.30        |
| 1.829         | 1,786.80        |
| 1.981         | 1,935.20        |
| 2.134         | 2,084.70        |
| 2.287         | 2,234.20        |
| 2.439         | 2,382.70        |
| 2.592         | 2,532.10        |
| 2.744         | 2,680.60        |
| 2.897         | 2,830.10        |
| 3.049         | 2,978.60        |
| 3.202         | 3,128.00        |
| 3.354         | 3,276.50        |
| 3.507         | 3,426.00        |
| 3.659         | 3,574.50        |
| 3.812         | 3,723.90        |

**600 x 600 DITCH INLET  
150 WALL THICKNESS**

| HEIGHT<br>(m) | PRICE<br>\$ /ea |
|---------------|-----------------|
| 0.914         | 622.00          |
| 1.067         | 726.10          |
| 1.219         | 829.50          |
| 1.372         | 933.60          |
| 1.524         | 1,037.10        |
| 1.676         | 1,140.50        |
| 1.829         | 1,244.60        |
| 1.981         | 1,348.10        |
| 2.134         | 1,452.20        |
| 2.287         | 1,556.30        |
| 2.439         | 1,659.70        |
| 2.592         | 1,763.90        |
| 2.744         | 1,867.30        |
| 2.897         | 1,971.40        |
| 3.049         | 2,074.80        |
| 3.202         | 2,179.00        |
| 3.354         | 2,282.40        |
| 3.507         | 2,386.50        |
| 3.659         | 2,489.90        |
| 3.812         | 2,594.10        |

**600 x 1200 DITCH INLET  
150 WALL THICKNESS**

| HEIGHT<br>(m) | PRICE<br>\$ /ea |
|---------------|-----------------|
| 0.914         | 1,009.70        |
| 1.067         | 1,178.70        |
| 1.219         | 1,346.60        |
| 1.372         | 1,515.60        |
| 1.524         | 1,683.60        |
| 1.676         | 1,851.50        |
| 1.829         | 2,020.50        |
| 1.981         | 2,188.40        |
| 2.134         | 2,357.40        |
| 2.287         | 2,526.40        |
| 2.439         | 2,694.40        |
| 2.592         | 2,863.40        |
| 2.744         | 3,031.30        |
| 2.897         | 3,200.30        |
| 3.049         | 3,368.20        |
| 3.202         | 3,537.20        |
| 3.354         | 3,705.20        |
| 3.507         | 3,874.20        |
| 3.659         | 4,042.10        |
| 3.812         | 4,211.10        |

**600 x 840 CURB INLET  
115 WALL THICKNESS**

| HEIGHT<br>(m) | PRICE<br>\$ /ea |
|---------------|-----------------|
| 0.914         | 727.90          |
| 1.067         | 849.80          |
| 1.219         | 970.80          |
| 1.372         | 1,092.70        |
| 1.524         | 1,213.70        |
| 1.676         | 1,334.80        |
| 1.829         | 1,456.60        |
| 1.981         | 1,577.70        |
| 2.134         | 1,699.50        |
| 2.287         | 1,821.40        |
| 2.439         | 1,942.40        |
| 2.592         | 2,064.30        |
| 2.744         | 2,185.30        |
| 2.897         | 2,307.20        |
| 3.049         | 2,428.20        |
| 3.202         | 2,550.10        |
| 3.354         | 2,671.10        |
| 3.507         | 2,793.00        |
| 3.659         | 2,914.00        |
| 3.812         | 3,035.90        |

**NOTES:**

- 1) HEIGHTS INDICATE TOTAL PRECAST HEIGHT INCLUDING MONOLITHIC BASE.
- 2) PRICES DO NOT INCLUDE: ADJUSTMENT RINGS, METAL FRAMES, GRATES & FASTENERS, GOSS TRAPS, & INLET CONTROL HARDWARE.



## Concrete Endwalls

### OPS 804.030 "MODIFIED"

| PIPE DIA.<br>(mm) | ENDWALL ONLY<br>\$ /ea | ENDWALL c/w<br>GRATE<br>\$ /ea |
|-------------------|------------------------|--------------------------------|
| 300               | 3,212.10               | 4,000.90                       |
| 375               | 3,212.10               | 4,000.90                       |
| 450               | 3,904.10               | 4,772.90                       |
| 525               | 3,904.10               | 4,772.90                       |
| 600               | 4,985.50               | 5,918.40                       |
| 675               | 4,985.50               | 5,918.40                       |
| 750               | 6,088.80               | 7,194.50                       |
| 825               | 6,088.80               | 7,194.50                       |

**Notes:**

- 1) Grates as per OPSD 804.05.
- 2) Custom finishes available on request. Additional pricing will be applied by
- 3) Headwalls as per OPSD 804.030 Modified.

## Concrete Headwalls

### OPS 804.040 "MODIFIED"

| PIPE DIA.<br>(mm) | HEADWALL<br>\$ /ea | GRATE<br>\$ /ea | HANDRAIL<br>\$ /ea |
|-------------------|--------------------|-----------------|--------------------|
| 600               | 15,066.70          | 897.00          | 3,364.10           |
| 675               | 15,066.70          | 897.00          | 3,364.10           |
| 750               | 15,066.70          | 1,063.10        | 3,364.10           |
| 825               | 15,066.70          | 1,063.10        | 3,364.10           |
| 900               | 16,875.70          | 1,236.50        | 3,485.80           |
| 975               | 16,875.70          | 1,292.80        | 3,485.80           |
| 1050              | 16,875.70          | 1,339.50        | 3,485.80           |
| 1200              | 16,875.70          | 1,442.60        | 3,485.80           |
| 1350              | 19,113.80          | 1,957.70        | 3,729.10           |
| 1500              | 20,397.00          | 2,163.80        | 3,729.10           |
| 1650              | 20,397.00          | 2,576.00        | 3,729.10           |
| 1800              | 20,397.00          | 2,988.00        | 3,729.10           |
| 2400              | 23,739.60          | 4,391.80        | 3,729.10           |

**Notes:**

- 1) Multiple piece system for easy and safe handling. See shop drawings for piece masses.
- 2) On-site assembly is the responsibility of the contractor.
- 3) Custom finishes available on request. Additional pricing will be applied based on finish requirements.
- 4) Headwalls as per OPSD 804.040 Modified.
- 5) Grates as per OPSD 804.05.



## CON CAST PIPE

### CON/SPAN Culvert & Bridge Replacement System

#### SHORT SPAN SERIES

| SPAN x RISE<br>(m) | SPAN x RISE<br>(ft) | MASS<br>(tonnes /metre) |
|--------------------|---------------------|-------------------------|
| 3.66 x 1.22        | 12 x 4              | 3.1                     |
| 3.66 x 1.52        | 12 x 5              | 3.4                     |
| 3.66 x 1.83        | 12 x 6              | 3.7                     |
| 3.66 x 2.13        | 12 x 7              | 4.0                     |
| 3.66 x 2.44        | 12 x 8              | 4.3                     |
| 3.66 x 2.74        | 12 x 9              | 4.6                     |
| 3.66 x 3.05        | 12 x 10             | 4.9                     |
| 4.27 x 1.22        | 14 x 4              | 3.5                     |
| 4.27 x 1.52        | 14 x 5              | 3.8                     |
| 4.27 x 1.83        | 14 x 6              | 4.1                     |
| 4.27 x 2.13        | 14 x 7              | 4.4                     |
| 4.27 x 2.44        | 14 x 8              | 4.7                     |
| 4.27 x 2.74        | 14 x 9              | 5.0                     |
| 4.27 x 3.05        | 14 x 10             | 5.3                     |

STANDARD UNIT LAY LENGTH IS 2.44 m; UNIT MASSES ARE APPROXIMATE.

#### INTERMEDIAT SPAN SERIES

| SPAN x RISE<br>(m) | SPAN x RISE<br>(ft) | MASS<br>(tonnes /metre) |
|--------------------|---------------------|-------------------------|
| 4.88 x 1.52        | 16 x 5              | 5.3                     |
| 4.88 x 1.83        | 16 x 6              | 5.7                     |
| 4.88 x 2.13        | 16 x 7              | 6.1                     |
| 4.88 x 2.44        | 16 x 8              | 6.5                     |
| 4.88 x 2.74        | 16 x 9              | 6.9                     |
| 6.10 x 1.52        | 20 x 5              | 5.7                     |
| 6.10 x 1.83        | 20 x 6              | 6.1                     |
| 6.10 x 2.13        | 20 x 7              | 6.5                     |
| 6.10 x 2.44        | 20 x 8              | 6.9                     |
| 6.10 x 2.74        | 20 x 9              | 7.3                     |
| 6.10 x 3.05        | 20 x 10             | 7.7                     |
| 7.32 x 1.52        | 24 x 5              | 6.3                     |
| 7.32 x 1.83        | 24 x 6              | 6.7                     |
| 7.32 x 2.13        | 24 x 7              | 7.1                     |
| 7.32 x 2.44        | 24 x 8              | 7.5                     |
| 7.32 x 2.74        | 24 x 9              | 7.9                     |
| 7.32 x 3.05        | 24 x 10             | 8.3                     |

STANDARD UNIT LAY LENGTH IS 2.44 m; UNIT MASSES ARE APPROXIMATE.



## CON/SPAN Culvert & Bridge Replacement System

### LONG SPAN SERIES

| SPAN x RISE<br>(m) | SPAN x RISE<br>(ft) | MASS<br>(tonnes /metre) |
|--------------------|---------------------|-------------------------|
| 8.54 x 2.44        | 28 x 8              | 11.4                    |
| 8.54 x 2.74        | 28 x 9              | 11.9                    |
| 8.54 x 3.05        | 28 x 10             | 12.4                    |
| 8.54 x 3.35        | 28 x 11             | 12.9                    |
| 9.76 x 2.44        | 32 x 8              | 12.0                    |
| 9.76 x 2.74        | 32 x 9              | 12.5                    |
| 9.76 x 3.05        | 32 x 10             | 13.0                    |
| 9.76 x 3.35        | 32 x 11             | 13.5                    |
| 9.76 x 3.66        | 32 x 12             | 14.0                    |
| 10.98 x 2.44       | 36 x 8              | 12.5                    |
| 10.98 x 2.74       | 36 x 9              | 13.0                    |
| 10.98 x 3.05       | 36 x 10             | 13.5                    |
| 10.98 x 3.35       | 36 x 11             | 14.0                    |
| 10.98 x 3.66       | 36 x 12             | 14.5                    |
| 10.98 x 3.97       | 36 x 13             | 15.0                    |

STANDARD UNIT LAY LENGTH IS 1.68 m OR 1.83 m; UNIT MASSES ARE APPROXIMATE.

### SUPER SPAN SERIES

| SPAN x RISE<br>(m) | SPAN x RISE<br>(ft) | MASS<br>(tonnes /metre) |
|--------------------|---------------------|-------------------------|
| 12.81 x 2.44       | 42 x 8              | 13.7                    |
| 12.81 x 2.74       | 42 x 9              | 14.2                    |
| 12.81 x 3.05       | 42 x 10             | 14.8                    |
| 12.81 x 3.35       | 42 x 11             | 15.3                    |
| 12.81 x 3.66       | 42 x 12             | 15.8                    |
| 14.64 x 3.05       | 48 x 10             | 16.2                    |
| 14.64 x 3.35       | 48 x 11             | 16.8                    |
| 14.64 x 3.66       | 48 x 12             | 17.4                    |
| 14.64 x 3.97       | 48 x 13             | 18.0                    |

STANDARD UNIT LAY LENGTH IS 1.68 m OR 1.83 m; UNIT MASSES ARE APPROXIMATE.

### NOTES:

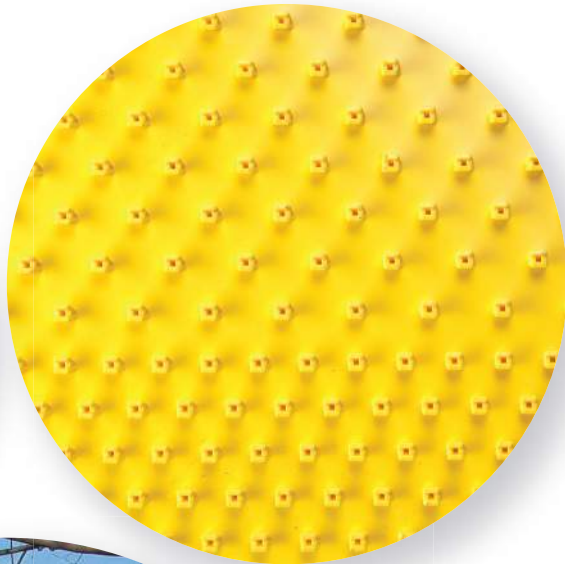
- 1) Please contact a Con Cast Pipe Sales Representative for budget pricing or to receive a detailed marketing package including our CON/SPAN Engineering Guide.
- 2) Any technical concerns or unique application considerations should be directed to the Con Cast Pipe Sales Department at 800-668-PIPE (7473).





## Specialty Precast Notes and Disclaimers

- 1 Quoted precast box, TriSpan, and chamber units will be designed as per CSA S6 (CHBDC).
- 2 Quoted box, TriSpan, and chamber units will be manufactured as per OPSS 1821 or CSA A23.4.
- 3 Precast cut-off walls, wingwalls, and headwalls will be manufactured as per CSA A23.4.
- 4 Box and TriSpan units to be installed as per Contract Documents or OPSS 422.
- 5 Box unit, chambers, and TriSpan units include jointing material of butyl rubber and filter fabric . This should not be considered a watertight joint solution. Waterproofing of the box, chamber, or TriSpan units are the responsibility of the contractor. For technical support and alternative waterproofing options, please contact your Sales Representative.
- 6 Responsibility of contractor to obtain approvals for use of the quoted precast alternatives to the specified cast-in-place structure.
- 7 Contractor responsible for supply and installation of all miscellaneous metals, frame and covers, ladders, etc. unless otherwise specified on quotation.
- 8 Contractor responsible for coring valve stem openings into flat caps.
- 9 Contractor responsible for design and construction of C.I.P. thrust blocks or thrust walls.
- 10 All box unit and chamber sections are supplied with bell and spigot joints. TriSpan units are quoted with flush end joints (butt joints). If a shear joint connection is required, the contractor is responsible for the supply and installation of any structural connection plates and fasteners to achieve the shear reinforcing strength required as per CHBDC CAN/CSA S6.
- 11 Construction review, structural adequacy, excavation requirements, dewatering, handling equipment, and soil stability is the responsibility of the contractor. Backfill and compaction are to be constructed as per the Owners requirements.
- 12 Any design, construction, and inspection of any poured in place structures are the responsibility of the contractor.
- 13 Details and size of hole openings in precast structures to be approved by contractor based on shop drawings supplied by Con Cast Pipe.
- 14 Final quotation will be based on siting, structural design, and shop drawing approval.
- 15 Delivery date of the quoted precast units will be subject to receipt of purchase order and approved shop drawings.
- 16 Contractor is responsible for cutting and removal of any temporary handling beams on site. The temporary handling beam should not be removed until the structure is installed in to its final location.
- 17 Quoted pricing for FREIGHT is a NET price. Trade discounts do not apply to Freight Costs.
- 18 Quoted prices are for the supply and delivery of precast concrete units F.O.B. (freight on board) truck at jobsite. Off-loading and installation is by others. The price includes one (1) hour of truck waiting time for each truckload delivery. Additional waiting time will be added to invoices at \$75.00 per hour.
- 19 For all products with an outside dimension greater than 3.85m (or 3.7m if being shipped to the City of Toronto) on the shortest wall, please allow 6 business days for Con Cast Pipe to obtain the appropriate oversize load permits prior to the delivery requirements for the product. These permits can take up to 14 business days depending on Ministry of Transportation and Municipal permit application approval. Please contact your Sales Representative for further information.
- 20 It is the responsibility of the contractor to rotate the units on site to the "installed" position if they are being shipped in the opposite orientation due to shipping constraints.
- 21 If an engineered stamped set of shop drawings are required, please allow an engineering surcharge of \$850.00 for each product requiring a stamped shop drawing.
- 22 Add \$75.70 for each set of threaded dowels and inserts, if required, for the construction of any cast-in-place structures.
- 23 Quoted products include the use of concrete exposure class C1 and reinforcing bars as per CAN/CSA G30.18, Grade 400W. If any other type of concrete, reinforcing bars or reinforcing labour (i.e. tying of reinforcement bar) are required for the precast concrete product quoted, Con Cast Pipe reserves the right to requote the product. All reinforcing steel in the quotation only covers welded steel only unless otherwise detailed on the quotation.
- 24 Shop drawings for specialty precast items will take 2-3 weeks from receipt of order.
- 25 Con Cast Pipe does not warranty products specified with ConShield admixture.
- 26 Precast concrete products quoted will be cured until a minimum strength of 25 MPa is achieved in accordance with OPSS 1821.07.03. No extended or wet curing operations are included unless otherwise stated on the quotation. Con Cast Pipe reserves the right to requote the product if extended or wet curing is required.
- 27 Unit prices are firm but sizes, quantities, and classifications are the responsibility of the contractor to verify for accuracy.
- 28 Prices are quoted excluding sales tax.



**CON CAST PIPE**

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