

# JULY 2018

## CON CAST PIPE

PRICE LIST



**CON CAST PIPE**

ISO 9001:2008



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## Conditions of Sale

### Return Policy

For the return of material from a job site, please contact our Shipping Department at 1-800-668-7473. CCP requires three (3) business days notification prior to any product planned for return. Please ensure that your site personnel have an accurate list of materials to be returned when requesting the return of product including quantity, size, class, description, and length of material for return.

Please contact your sales representative for further clarification, if required.

### Re-Stocking Fees

A 25% handling charge will be deducted from all saleable returns. Any product returned from site that requires additional rework or repair will not be credited. Orders for special precast concrete products (i.e. fittings pipe, radius pipe, pipe with holes, scribed/cored manholes, rectangular chambers, box units, specialty precast, etc.) are not subject to cancellation and any special product not taken or returned from site will be fully invoiced and then credited, if and when resold, less the applicable restocking charges. CCP reserves the right to not accept returned product that has been delivered to site as per the original sales agreement pending any extraneous circumstances.

### Freight and Freight Charges

Prices quoted include the delivery cost for F.O.B. truck at jobsite applicable within a 250 km radius of our Guelph or Oakville facilities. The minimum truckload delivered quantity is 20,000 kg. 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).

Manufacturer shall not be liable for any delay or non-delivery due to failure of transportation facilities, strikes, war, fire, flood, accident of any other cause beyond its control.

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.

Loads that have been released for shipment through CCP's Shipping Department, that are not cancelled through

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## Conditions of Sale

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.

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.

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.

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

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.

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

HST (Harmonized Sales Tax) is EXTRA.

All quotations are subject to any increase in sales taxes or freight or to the imposition of new taxes. All new or additional charges of this kind will be passed along to the Buyer.

## Terms – Standard

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.

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	87.90	87.90	87.90	87.90	87.90
375	306	108.40	108.40	108.40	108.40	108.40
450	381	111.70	111.70	111.70	139.60	139.60
525	470	121.80	121.80	142.20	168.00	168.00
600	578	163.90	163.90	188.40	221.50	221.50
675	691	251.30	251.30	286.20	335.10	335.10
750	780	331.20	331.20	378.70	442.70	442.70
825	912	384.30	384.30	488.80	513.40	513.40
900	1039	461.00	461.00	527.40	615.70	615.70
975	1195	505.80	532.50	606.00	709.20	709.20
1050	1277	579.30	608.30	696.70	811.40	811.40
1200	1561	726.00	762.70	872.60	1,016.70	1,016.70
1350	1939	933.70	980.40	1,121.50	1,306.20	1,306.20
1500	2123	1,142.10	1,198.60	1,370.40	1,598.80	1,598.80
1650	2500	1,367.60	1,437.00	1,642.60	1,915.00	1,915.00
1800	2865	1,652.60	1,737.60	1,983.70	2,314.80	2,314.80
1950	3324	1,916.60	2,014.70	2,299.50	2,684.30	2,684.30
2100	3807	2,199.30	2,307.00	2,638.50	3,077.30	3,077.30
2250	4311	2,499.40	2,625.50	2,999.80	3,500.10	3,500.10
2400	4869	2,925.50	3,069.00	3,508.10	4,093.20	4,093.20
2550	5179	3,294.90	3,456.80	3,952.10	4,611.40	4,611.40
2700	5752	3,656.80	3,839.20	4,388.20	5,119.60	5,119.60
3000	7043	4,478.00	4,704.10	5,376.30	6,271.90	6,271.90

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	107.70
1500mm and over	215.20

## Reducers & Increaseers

PRICE PER PIECE

- 300mm to 3000mm reinforced pipe REDUCER or INCREASEER  
- multiply the price per metre of the larger pipe x 6.5.



## Concrete Pipe

### Approximate Mass & Dimensions

INSIDE DIA. (mm)	OUTSIDE DIA. (mm)	WALL THICKNESS (mm)	LAY LENGTH (m)	MASS PER PIECE (kg)	TRUCKLOAD LOTS (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.



The pipe that will revolutionize the landscape of infrastructure systems is here, and it's PERFECT.

Con Cast Pipe is the first precast and concrete pipe manufacturer in Canada to exclusively offer the PERFECT PIPE system. With PERFECT PIPE, enjoy increased peace-of-mind when committing to a long-lasting pipe product backed by the dependability of the Con Cast Pipe brand.

### Next Level Of Chemical Resistance »

PERFECT PIPE is manufactured in various diameters that are 100% protected with a high-density polyethylene (HDPE) liner. The HDPE liner protects the interior concrete surface from the damaging effects associated with corrosive gases and liquids that can form in the sanitary sewer system.



### Effective Microtunneling »

PERFECT MICROTUNNELING PIPE allows the designer the choice to construct the sewer system with or without the HDPE liner. The combination of the HDPE liner and the new improved joint performance inherent in the thermoplastic joint connector means the pipe can be installed without field welding, reducing construction disturbance and installation times.

### Joint Integrity at its best »

The PERFECT PIPE joint system can withstand a constant internal pressure of 36 psi through the combination of a dual jointing system that seals the HDPE liner inside the



joint of the concrete pipe. PERFECT PIPE improves upon existing field-welded

joint technology by using a thermoplastic internal connector with dual elastomeric

rubber gaskets to join the pipe sections; therefore no field welding is required.



## 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 (mm)	MAIN PIPE SIZE					
	300-525 \$/ea	600-825 \$/ea	900-1200 \$/ea	1350-1800 \$/ea	1950-2400 \$/ea	2550-3000 & Boxes \$/ea
100	142.70	150.00	191.20	259.40	310.80	359.90
125	156.80	164.20	210.00	284.30	341.20	394.50
150	172.70	181.60	231.30	313.70	375.90	435.30
200	230.30	242.10	308.70	418.40	501.70	580.30
250	258.20	270.70	345.40	468.40	561.80	649.70
300	351.20	497.50	645.50	914.70	1,183.80	1,614.00
375	424.90	569.00	766.30	1,073.40	1,412.40	1,737.50
450	519.50	643.20	842.60	1,149.70	1,488.90	1,813.60
525	561.00	663.30	863.60	1,170.80	1,509.50	1,834.40
600		830.00	1,034.80	1,342.00	1,680.70	2,005.80
675		1,181.40	1,340.10	1,647.70	1,986.40	2,311.40
750		1,525.70	1,663.50	1,970.60	2,309.60	2,634.30
825		1,745.30	1,861.70	2,169.40	2,508.30	2,833.10
900			2,165.10	2,472.60	2,811.10	3,135.80
975			2,465.10	2,747.30	3,086.60	3,411.30
1050			2,799.80	3,054.00	3,392.50	3,717.40
1200			3,454.90	3,666.80	4,006.00	4,330.70
1350				4,572.40	4,885.00	5,269.40

### 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.





## Reinforced Concrete Bends

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

SIZE (mm)	CLASS 50-D \$/ea	CLASS 65-D \$/ea	CLASS 100-D \$/ea	CLASS 140-D \$/ea	MAX. ANGLE
300	473.40	473.40	473.40	473.40	90°
375	586.20	586.20	586.20	586.20	90°
450	604.10	604.10	604.10	754.80	90°
525	658.00	658.00	769.40	906.20	90°
600	836.40	836.40	960.40	1,130.00	90°
675	1,257.20	1,257.20	1,431.60	1,676.10	90°
750	1,657.10	1,657.10	1,894.50	2,213.30	90°
825	1,921.40	1,921.40	2,443.50	2,568.40	90°
900	2,303.40	2,303.40	2,635.60	3,076.30	90°
975	2,529.50	2,663.80	3,030.20	3,544.40	90°
1050	2,896.40	3,042.40	3,482.80	4,057.60	90°
1200	3,629.20	3,813.20	4,362.90	5,085.00	90°
1350	4,670.50	4,901.60	5,607.60	6,531.00	90°
1500	5,709.70	5,991.90	6,851.90	7,993.50	90°
1650	6,839.20	7,185.50	8,211.60	9,571.60	75°
1800	8,263.00	8,686.80	9,918.90	11,573.40	70°
1950	9,584.20	10,072.30	11,496.80	13,421.30	65°
2100	10,996.40	11,535.10	13,191.30	15,384.50	62°
2250	12,497.90	13,126.20	14,998.90	17,501.60	60°
2400	14,627.30	15,346.10	17,539.80	20,465.70	56°
2550	16,474.70	17,283.30	19,759.70	23,057.50	53°
2700	18,284.30	19,195.40	21,941.40	25,597.80	50°
3000	22,390.00	23,519.50	26,881.30	31,358.90	45°

ABOVE PRICES ARE PER PIECE.



## Elliptical Reinforced Concrete Pipe

EQUIV. DIA. (mm)	RISE x SPAN (mm)	HE I \$/metre	HE II \$/metre	HE III \$/metre	HE IV \$/metre	MASS (kg/m)
900	735 x 1145	668.20	705.60	783.30	898.70	931
1050	865 x 1345	817.90	855.60	964.80	1,106.00	1214
1200	965 x 1525	1,005.00	1,051.00	1,180.80	Available Upon Request	1490
1350	1090 x 1725	1,261.50	1,328.00	1,489.30	Available Upon Request	1840
1500	1220 x 1930	1,503.70	1,581.60	1,780.10	Available Upon Request	2198
1650	1345 x 2110	1,783.00	1,875.10	2,102.60	Available Upon Request	2600
1800	1475 x 2310	2,145.90	2,249.60	2,525.70	Available Upon Request	3040
1950	1600 x 2490	2,465.40	2,595.30	2,909.30	Available Upon Request	3502
2100	1725 x 2690	2,811.20	2,958.20	3,318.20	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 \$4,135.40 for the 1200mm riser stub.
- 6) Please allow 3 to 4 weeks delivery.



## Reinforced Concrete Box Units - OPSS 1821

SPAN x RISE (mm)	WALL THICKNESS (mm)	WATERWAY AREA (m <sup>2</sup> )	APPROX. MASS (kg/m)	Design Earth Cover (m)	OPSS 1821 (\$ /metre)
1800 x 900	200	1.61	3380	0.6 to 5.5	1,889.40
1800 x 1200	200	2.16	3690	0.6 to 5.5	2,062.30
2400 x 1200	200	2.89	4560	0.6 to 3.6	2,631.50
2400 x 1500	200	3.63	4870	0.6 to 3.6	2,819.10
2400 x 1800	200	4.38	5170	0.6 to 3.6	3,007.50
3000 x 1500	250	4.51	6860	0.6 to 3.6	4,117.20
3000 x 1800	250	5.44	7250	0.6 to 3.6	4,353.30
3000 x 2100	250	6.37	7630	0.6 to 3.6	4,587.30
3000 x 2400	250	7.30	8020	0.6 to 3.6	4,820.70

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

SPAN x RISE (mm)	WALL THICKNESS (mm)	WATERWAY AREA (m <sup>2</sup> )	APPROX. MASS (kg/m)	Design Earth Cover (m)	CHBDC CAN/CSA S6-06 (\$ /metre)
1800 x 900	200	1.61	3380	0.0 to 0.6 & 5.5 to 8.0	2,377.60
1800 x 1200	200	2.16	3690	0.0 to 0.6 & 5.5 to 8.0	2,586.70
2400 x 1200	200	2.89	4560	0.0 to 0.6 & 3.6 to 6.0	3,308.00
2400 x 1500	200	3.63	4870	0.0 to 0.6 & 3.6 to 5.0	3,571.80
2400 x 1800	200	4.38	5170	0.0 to 0.6 & 3.6 to 5.0	3,764.00
3000 x 1500	250	4.51	6860	0.0 to 0.6 & 3.6 to 5.0	5,063.40
3000 x 1800	250	5.44	7250	0.0 to 0.6 & 3.6 to 5.0	5,275.70
3000 x 2100	250	6.37	7630	0.0 to 0.6 & 3.6 to 5.0	5,550.80
3000 x 2400	250	7.30	8020	0.0 to 0.6 & 3.6 to 5.0	5,828.60

### 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** - \$738.20 per unit.
- 12) **STANDARD 15M DOWELS & INSERTS** - \$85.50 per set.
- 13) **SCRIBED HOLES** - \$215.20 each.
- 14) **685mm ACCESS OPENING IN TOP SLAB** - \$1,230.30 (includes steps).
- 15) **1200mm MANHOLE TEE** - \$4,547.20 (includes steps).
- 16) **Additional sizes available upon request. Please contact our Sales Department for special box size pricing and depths greater than listed above.**



## Reinforced Concrete Maintenance Holes

SIZE (mm)	DESCRIPTION	HEIGHT (m)	APPROX. MASS	PRICE \$
1200	taper top c/w steps	1.320	1905 kg/pc	1,004.60 ea.
1200	flat cap	0.305	715 kg/pc	572.40 ea.
1200	riser c/w steps	0.305 to 1.829	1324 kg/m	732.00 /m
1200	monolithic base c/w steps	0.762	1760 kg/pc	1,209.50 ea.
1200	monolithic base c/w steps	0.914	1960 kg/pc	1,320.90 ea.
1200	monolithic base c/w steps	1.067	2160 kg/pc	1,432.80 ea.
1200	monolithic base c/w steps	1.372	2550 kg/pc	1,654.60 ea.
1200	monolithic base c/w steps	1.524	2750 kg/pc	1,766.00 ea.
1200	base slab	0.203	780 kg/pc	572.40 ea.
1200	safety grate supplied & installed			1,371.70 ea.
1200	prebenching			659.90 ea.
1500	flat cap	0.430	1810 kg/pc	1,140.50 ea.
1500 to 1200	transition c/w steps	0.610	1678 kg/pc	1,140.50 ea.
1500	riser c/w steps	3.05 to 2.438	1927 kg/m	1,109.50 /m
1500	monolithic base c/w steps	1.067	3430 kg/pc	2,660.60 ea.
1500	monolithic base c/w steps	1.372	4040 kg/pc	2,998.90 ea.
1500	monolithic base c/w steps	1.676	4645 kg/pc	3,336.20 ea.
1500	monolithic base c/w steps	1.829	5050 kg/pc	3,506.00 ea.
1500	monolithic base c/w steps	1.981	5350 kg/pc	3,674.70 ea.
1500	base slab	0.305	1770 kg/pc	1,140.50 ea.
1500	safety grate supplied & installed			1,931.40 ea.
1500	prebenching			888.00 ea.
1800	flat cap	0.430	2720 kg/pc	1,538.00 ea.
1800 to 1200	transition c/w steps	0.610	2400 kg/pc	1,538.00 ea.
1800	riser c/w steps	0.610 to 2.438	2756 kg/m	1,577.70 /m
1800	base slab	0.305	2630 kg/pc	1,538.00 ea.
1800	safety grate supplied & installed			2,506.20 ea.
2400	flat cap	0.430	4980 kg/pc	3,047.60 ea.
2400 to 1200	transition slab c/w steps	0.430	4210 kg/pc	3,047.60 ea.
2400	riser c/w steps	0.610 to 2.438	4598 kg/m	2,812.80 /m
2400	base slab	0.305	4620 kg/pc	3,047.60 ea.
2400	safety grate supplied & installed			3,919.00 ea.
3000	flat cap	0.450	7847 kg/pc	5,132.40 ea.
3000 to 1200	transition slab c/w steps	0.450	7258 kg/pc	5,132.40 ea.
3000	riser c/w steps	0.610 to 2.438	7043 kg/m	4,400.30 /m
3000	base slab	0.305	8225 kg/pc	5,132.40 ea.
3000	safety grate supplied & installed			on request
3600	flat cap	0.450	10500 kg/pc	9,063.00 ea.
3600 to 1200	transition slab c/w steps	0.450	10500 kg/pc	9,063.00 ea.
3600	riser c/w steps	0.610 to 1.829	11042 kg/m	9,589.70 /m
3600	base slab	0.305	10500 kg/pc	9,063.00 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.

Prices subject to change without notice.

Terms and conditions as shown on Page 21.

## HydroGuard Stormwater Treatment Systems

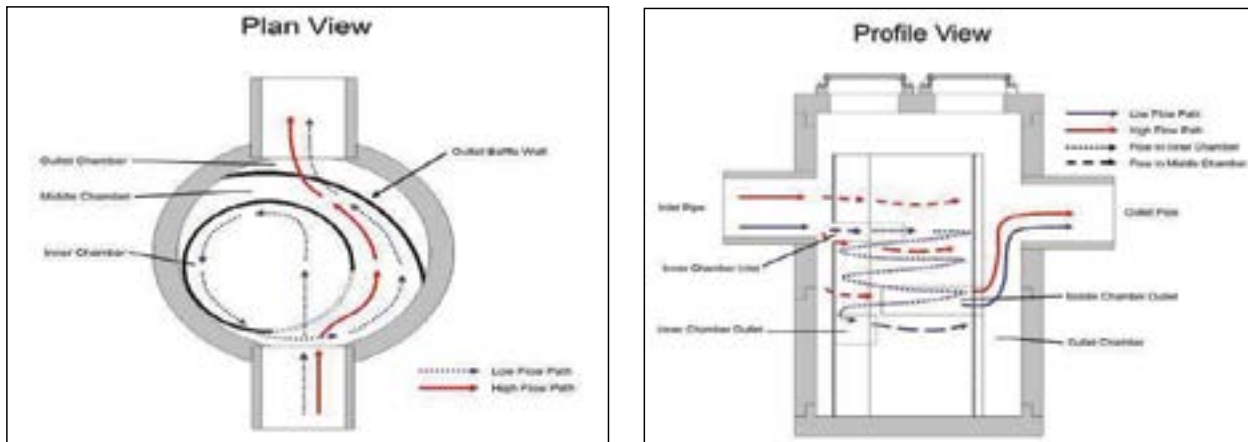
The Hydroworks Hydroguard (HG) separator is an innovation in oil/grit separator design. The HG separator removes suspended solids, oil, and trash from storm water runoff. It is unique since it treats both low and high flows, but in separate treatment areas. This allows the HG separator to treat higher flows but also minimize scour and resuspension of previously captured fines. It is the only design on the market that recognizes the need to treat low flows differently from higher flows since the transport and pollutants of concern vary with flow rate.

Designed with the ultra-urban environment in mind, the HG series offers many benefits to urban planners and civil engineers:

- Small footprint minimizing conflicts with other utilities
- Supports Smart Growth principles since the HG is installed underground maximizing development density
- Easily maintained once per year for typical applications
- Minimal elevation difference between inlet and outlet pipe
- Sized based on local hydrology and continuous simulation
- Technical support to assist with design and approval issues
- Treats both low and high flows
- Separate low flow path minimizes scour potential at high flows
- Removes trash, oil spills and suspended solids
- Lower cost compared to similar structural BMPs

Typical applications where the HG series would be used include:

- Parking lots
- Gas stations
- Roads/Highways
- Transfer stations
- Industrial sites



Under normal or low flows, water is conveyed into the inner chamber by momentum. Since the inner chamber is offset to one side of the structure the water strikes the wall of the inner chamber at a tangent creating a vortex within the inner chamber. The vortex motion forces solids and floatables to the middle of the inner chamber. The water spirals down the inner chamber to the outlet of the inner chamber which is located below the inlet of the inner chamber and adjacent to the wall of the structure but above the floor of the structure. Floatables are trapped since the outlet of the inner chamber is submerged. The design maximizes the retention of solids since solids are forced to the center of the inner chamber by the vortex motion of water while the outlet of the inner chamber draws water from the wall of the inner chamber.

The water leaving the inner chamber continues into the middle chamber, again at a tangent to the wall of the structure. The water is then conveyed through an outlet baffle wall (high and low baffle). This enhances the collection of any floatables or solids not removed by the inner chamber. Water flowing through the baffles then enters the outlet chamber and is discharged into the downstream storm drain.

During high flows, the flow rate entering the inner chamber is restricted by the size of the inlet opening to the inner chamber. The flow control minimizes the potential for the scour and resuspension of solids from the inner chamber during periods of high flow. The excess flow is conveyed directly into the middle chamber where it receives treatment for floatables and solids via the baffle system. This treatment of the higher flow rates is important since trash and heavier solids are typically conveyed during periods of higher flow rates. The Hydroworks HG separator is revolutionary since it incorporates low and high flow treatment in one device while maintaining separate low and high flow paths to prevent the scour and resuspension of fines.

Contact the Con Cast Pipe Sales Team for more information about the Hydroguard Product Line



## Flexible Connectors

Pipe to maintenance hole connectors, supplied and installed.

CONCRETE PIPE	PVC PIPE	PRICE (\$/ea.)
	150	201.60
	200	201.60
	250	263.10
	300	263.10
300		344.20
	375	344.20
375		413.70
	450	413.70
450		523.40
	525	523.40
525		617.90
	600	585.50
600		732.50
	675	617.90
675		826.70

**NOTE:**

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

## Monobox Maintenance Holes

SIZE (mm)	PRICE \$ /metre
2400 x 1800	4,296.90
3000 x 2400	6,890.00
3900 x 2400	9,722.90
3900 x 3000	12,528.20

**NOTES:**

- 1) For Monotransitions including a 1200mm diameter chimney, add \$200.80 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 7.0m.**
- 4) Above prices include the supply of butyl rubber joint sealer.

## Reinforced Concrete Catch Basins

SIZE (mm)	WALL (mm)	DESCRIPTION	HEIGHT (m)	APPROX. MASS (kg/m)	PRICE \$ /metre
600 x 600	115	Catch Basin	1.067 to 1.981	940	479.40
600 x 600	150	Catch Basin	1.067 to 1.981	1220	648.10
600 x 600	150	Ditch Inlet Catch Basin	1.219 to 1.981	1220	648.10
600 x 1200	150	Ditch Inlet Catch Basin	1.219 to 1.981	1785	1,052.10
600 x 840	115	Curb Inlet Catch Basin	1.219 to 1.981	1060	758.50
600 x 1450	115	Twin Inlet Catch Basin	1.219 to 1.981	1640	930.40

**NOTES:**

- 1) For Ditch Inlet Catch Basins, please add \$141.30/set for Ditch Inlet Fasteners as required. For grate pricing, please see page 15.



## Utility Maintenance Holes & Valve Chambers

INTERNAL HORIZONTAL DIMENSION (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)	3,007.50	3660	3,157.90	5170	3,007.50	4050
3000 x 2400 (250mm Wall)	4,820.70	6090	5,061.80	8020	4,820.70	6850

### NOTES:

- 1) Above prices include allowance for two holes in riser walls. Additional holes are \$199.10 each.
- 2) For transition slabs, please add \$189.40 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.
- 6) Please contact the Con Cast Pipe Sales Department for pricing for Valve Chambers and Utility Maintenance Holes that have wall thickness greater than specified above.

## Valve Chamber Chimney

DESCRIPTION	APPROX. MASS (kg/m)	LENGTH (m)	PRICE \$ /metre
750mm x 1200mm Chimney	1,680	As Required	1,612.70

## Concrete Endwalls for Sewers & Culverts

### OPS 804.030 "MODIFIED"

PIPE DIA. (mm)	ENDWALL ONLY \$ /ea	ENDWALL c/w GRATE \$ /ea
300	3,059.10	3,810.40
375	3,059.10	3,810.40
450	3,718.20	4,545.60
525	3,718.20	4,545.60
600	4,748.10	5,636.60
675	4,748.10	5,636.60
750	5,798.90	6,851.90
825	5,798.90	6,851.90

## Precast Headwalls

OPS 804.040 "MODIFIED" PRICING AVAILABLE UPON REQUEST.

## Precast Concrete Deck Panels

Contact the Con Cast Pipe Sales Department to learn more about our precast concrete deck panels manufactured as per MTO standards SS109-40, SS109-41, SS109-42, and SS109-43.



## Appurtenances

DESCRIPTION	HEIGHT (mm)	APPROX. MASS	PRICE \$
maintenance hole safety steps OPSD 405.010			25.90 ea
solid aluminum steps OPSD 405.020			37.40 ea
outside rebar steps - supplied & installed fo C.I.P. drop structures			34.60 ea
maintenance hole clean out steps - supplied & installed			38.30 ea
maintenance hole frames & covers OPSD 401.010	150	180 kg ea	639.60 ea
catch basin frames & covers OPSD 400.020	150	225 kg ea	662.00 ea
ditch inlet catch basin gratings - type "A" (fits 600 x 600 Ditch Inlet CB)			570.50 ea
ditch inlet catch basin gratings - type "B" (fits 600 x 1200 Ditch Inlet CB)			839.60 ea
ditch inlet catch basin gratings - type "C" (fits 600 x 1200 Ditch Inlet CB)			921.90 ea
ditch inlet grate fasteners			147.00 /set
hatches cast into flat caps (hatch by others)			588.00 ea
point of entry trap or goss trap with plug			667.20 ea
point of entry trap filter			64.10 ea
catch basin inlet control devices (inserts installed only)			130.10 /set
modutape (6.1 metres per roll)			15.70 /roll
swift lift lifting eyes (4 tonne capacity)			396.30 ea
swift lift lifting eyes (8 tonne capacity)			745.80 ea
engineering surcharge (non-standard engineering requirements)			937.00 ea

## Grade Rings

DESCRIPTION	HEIGHT (mm)	APPROX. MASS	PRICE \$ /ea
maintenance hole grade ring - 12 per bundle	50	52 kg ea	44.30
maintenance hole grade ring - 8 per bundle	75	75 kg ea	47.00
maintenance hole grade ring c/w step - 8 per bundle	75	75 kg ea	69.10
maintenance hole grade ring	150	150 kg ea	163.00
maintenance hole grade ring c/w step	300	430 kg ea	208.80
catch basin grade ring - 12 per bundle	50	36 kg ea	42.10
catch basin grade ring - 8 per bundle	75	51 kg ea	44.50
catch basin grade ring	125	105 kg ea	66.80
catch basin grade ring	150	125 kg ea	149.10
catch basin grade ring	300	245 kg ea	198.40





## CON/SPAN Culvert & Bridge Replacement System

### SHORT SPAN SERIES

SPAN x RISE (m)	SPAN x RISE (ft)	MASS (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.

### INTERMEDIATE SPAN SERIES

SPAN x RISE (m)	SPAN x RISE (ft)	MASS (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 (m)	SPAN x RISE (ft)	MASS (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 (m)	SPAN x RISE (ft)	MASS (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).



## Maintenance Hole Estimate Sheet

### 1200 mm DIAMETER MONOBASE MH

DEPTH (m)		PRICE \$ /ea
FROM	TO	
1.37	1.52	2,007.00
1.53	1.68	2,118.00
1.69	1.85	2,231.00
1.86	2.01	2,342.00
2.02	2.17	2,453.00
2.18	2.33	2,327.00
2.34	2.50	2,440.00
2.51	2.66	2,551.00
2.67	2.82	2,662.00
2.83	2.98	2,774.00
2.99	3.15	2,886.00
3.16	3.31	2,997.00
3.32	3.47	3,110.00
3.48	3.63	3,221.00
3.64	3.80	3,332.00
3.81	3.96	3,443.00
3.97	4.12	3,555.00
4.13	4.28	3,778.00
4.29	4.45	3,890.00
4.46	4.61	4,002.00
4.62	4.77	4,113.00
4.78	4.99	4,225.00
5.00	5.15	5,784.00
5.16	5.31	6,008.00
5.32	5.48	6,120.00
5.49	5.64	6,232.00
5.65	5.80	6,343.00
5.81	5.96	6,454.00
5.97	6.13	6,567.00
6.14	6.29	6,677.00
6.30	6.45	6,788.00
6.46	6.61	6,789.00
6.62	6.78	6,900.00
6.79	6.94	7,013.00
6.95	7.10	7,124.00
7.11	7.26	7,348.00
7.27	7.43	7,459.00
7.44	7.59	7,569.00
7.60	7.75	7,681.00
7.76	7.91	7,793.00
7.92	8.08	7,905.00

### 1500 mm DIAMETER MONOBASE MH

DEPTH (m)		PRICE \$ /ea
FROM	TO	
1.37	1.67	3,804.00
1.68	1.99	4,142.00
2.00	2.30	4,479.00
2.31	2.62	4,818.00
2.63	2.93	5,156.00
2.94	3.25	5,494.00
3.26	3.56	5,952.00
3.57	3.88	6,175.00
3.89	4.19	6,398.00
4.20	4.51	6,496.00
4.52	4.82	6,608.00
4.83	4.99	6,718.00
5.00	5.30	8,279.00
5.31	5.62	8,503.00
5.63	5.93	8,726.00
5.94	6.25	8,949.00
6.26	6.56	9,172.00
6.57	6.88	9,395.00
6.89	7.19	9,619.00
7.20	7.51	9,841.00
7.52	7.82	10,064.00
7.83	8.14	10,288.00

Prices subject to change without notice.  
Terms and conditions as shown on Page 21.



## Maintenance Hole Estimate Sheet

### 1800 mm DIAMETER

#### BASE SLAB MH

DEPTH (m)		PRICE \$ /ea
FROM	TO	
1.37	1.67	5,001.00
1.68	1.99	5,483.00
2.00	2.30	5,963.00
2.31	2.62	6,445.00
2.63	2.93	6,924.00
2.94	3.25	7,407.00
3.26	3.56	7,240.00
3.57	3.88	7,463.00
3.89	4.19	7,687.00
4.20	4.51	7,784.00
4.52	4.82	7,896.00
4.83	4.99	8,118.00
5.00	5.30	9,881.00
5.31	5.62	10,089.00
5.63	5.93	10,313.00
5.94	6.25	10,535.00
6.26	6.56	10,759.00
6.57	6.88	10,981.00
6.89	7.19	11,205.00
7.20	7.51	11,427.00
7.52	7.82	11,651.00
7.83	8.14	11,875.00

### 2400 mm DIAMETER

#### BASE SLAB MH

DEPTH (m)		PRICE \$ /ea
FROM	TO	
1.37	1.67	9,526.00
1.68	1.99	10,384.00
2.00	2.30	11,241.00
2.31	2.62	12,099.00
2.63	2.93	12,954.00
2.94	3.25	13,751.00
3.26	3.56	13,973.00
3.57	3.88	14,195.00
3.89	4.19	14,342.00
4.20	4.51	14,406.00
4.52	4.82	14,628.00
4.83	4.99	14,727.00
5.00	5.30	16,612.00
5.31	5.62	16,633.00
5.63	5.93	16,823.00
5.94	6.25	17,046.00
6.26	6.56	17,268.00
6.57	6.88	17,492.00
6.89	7.19	17,715.00
7.20	7.51	17,939.00
7.52	7.82	18,161.00
7.83	8.14	18,384.00

### 3000 mm DIAMETER

#### BASE SLAB MH

DEPTH (m)		PRICE \$ /ea
FROM	TO	
1.37	1.67	15,631.00
1.68	1.99	16,973.00
2.00	2.30	18,315.00
2.31	2.62	19,657.00
2.63	2.93	20,994.00
2.94	3.25	21,791.00
3.26	3.56	22,014.00
3.57	3.88	22,125.00
3.89	4.19	22,223.00
4.20	4.51	22,446.00
4.52	4.82	22,669.00
4.83	4.99	22,794.00
5.00	5.30	24,578.00
5.31	5.62	24,599.00
5.63	5.93	24,787.00
5.94	6.25	25,011.00
6.26	6.56	25,233.00
6.57	6.88	25,457.00
6.89	7.19	25,680.00
7.20	7.51	25,903.00
7.52	7.82	26,126.00
7.83	8.14	26,349.00

#### 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)



## Catch Basin Estimate Sheet

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

HEIGHT (m)	PRICE \$ /ea
0.914	438.20
1.067	511.50
1.219	584.40
1.372	657.70
1.524	730.60
1.676	803.50
1.829	876.80
1.981	949.70
2.134	1,023.00
2.287	1,096.40
2.439	1,169.30
2.592	1,242.60
2.744	1,315.50
2.897	1,388.80
3.049	1,461.70
3.202	1,535.00
3.354	1,607.90
3.507	1,681.30
3.659	1,754.10
3.812	1,827.50

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

HEIGHT (m)	PRICE \$ /ea
0.914	592.40
1.067	691.50
1.219	790.00
1.372	889.20
1.524	987.70
1.676	1,086.20
1.829	1,185.40
1.981	1,283.90
2.134	1,383.00
2.287	1,482.20
2.439	1,580.70
2.592	1,679.90
2.744	1,778.40
2.897	1,877.50
3.049	1,976.10
3.202	2,075.20
3.354	2,173.70
3.507	2,272.90
3.659	2,371.40
3.812	2,470.60

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

HEIGHT (m)	PRICE \$ /ea
0.914	850.40
1.067	992.80
1.219	1,134.20
1.372	1,276.50
1.524	1,417.90
1.676	1,559.40
1.829	1,701.70
1.981	1,843.10
2.134	1,985.50
2.287	2,127.80
2.439	2,269.20
2.592	2,411.60
2.744	2,553.00
2.897	2,695.40
3.049	2,836.80
3.202	2,979.10
3.354	3,120.60
3.507	3,262.90
3.659	3,404.30
3.812	3,546.70

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

HEIGHT (m)	PRICE \$ /ea
0.914	592.40
1.067	691.50
1.219	790.00
1.372	889.20
1.524	987.70
1.676	1,086.20
1.829	1,185.40
1.981	1,283.90
2.134	1,383.00
2.287	1,482.20
2.439	1,580.70
2.592	1,679.90
2.744	1,778.40
2.897	1,877.50
3.049	1,976.10
3.202	2,075.20
3.354	2,173.70
3.507	2,272.90
3.659	2,371.40
3.812	2,470.60

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

HEIGHT (m)	PRICE \$ /ea
0.914	961.60
1.067	1,122.60
1.219	1,282.50
1.372	1,443.50
1.524	1,603.40
1.676	1,763.30
1.829	1,924.30
1.981	2,084.20
2.134	2,245.20
2.287	2,406.20
2.439	2,566.10
2.592	2,727.00
2.744	2,887.00
2.897	3,047.90
3.049	3,207.90
3.202	3,368.80
3.354	3,528.70
3.507	3,689.70
3.659	3,849.60
3.812	4,010.60

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

HEIGHT (m)	PRICE \$ /ea
0.914	693.30
1.067	809.30
1.219	924.60
1.372	1,040.70
1.524	1,156.00
1.676	1,271.20
1.829	1,387.30
1.981	1,502.60
2.134	1,618.60
2.287	1,734.70
2.439	1,850.00
2.592	1,966.00
2.744	2,081.30
2.897	2,197.40
3.049	2,312.70
3.202	2,428.70
3.354	2,544.00
3.507	2,660.10
3.659	2,775.40
3.812	2,891.40

**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.



## Terms & Conditions

1. All quotations are open for acceptance by the Purchaser for thirty (30) days from the quotation date, and if not accepted within that time, will be deemed to be withdrawn.
2. All quotations are subject to any increase in sales tax, freight charges, or any new taxes imposed on this transaction which are payable by, or collectible by Manufacturer in which case the amount of such increases will be added to the final invoice.
3. Acceptance of all quotations shall be conditional upon the Purchaser establishing appropriate credit. Please allow five to ten (5-10) business days for credit to be processed.
4. There are no other warranties, representations, conditions or agreements between Manufacturer and Purchaser other than as set out in this quotation.
5. The Purchaser shall satisfy itself as to the suitability of the Products quoted herein for their intended use, and Purchaser may rely only on such representations as are set out in Manufacturer's published specifications which form part of this quotation.
6. Waiver of any one or more of the terms and conditions herein by Manufacturer shall not constitute a general waiver of terms and conditions and Manufacturer reserves the right to enforce any and all conditions not so waived. Any such waiver must be in writing.
7. Acceptance of this Quotation shall constitute a contract between Manufacturer and Purchaser for the supply of Products specified herein in accordance with the terms herein set out.
8. For all product returns, please see Return Policy in Conditions of Sale (reference information on Return Material Authorization - RMA) on page 2 in this price list.



## Specialty Precast Notes and Disclaimers

Quoted precast box, TriSpan, and chamber units will be designed as per CSA S6 (CHBDC).

Quoted box, TriSpan, and chamber units will be manufactured as per OPSS 1821 or CSA A23.4.

Precast cut-off walls, wingwalls, and headwalls will be manufactured as per CSA A23.4.

Box and TriSpan units to be installed as per Contract Documents or OPSS 422.

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.

Responsibility of contractor to obtain approvals for use of the quoted precast alternatives to the specified cast-in-place structure.

Contractor responsible for supply and installation of all miscellaneous metals, frame and covers, ladders, etc. unless otherwise specified on quotation.

Contractor responsible for coring valve stem openings into flat caps.

Contractor responsible for design and construction of C.I.P. thrust blocks or thrust walls.

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.

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.

Any design, construction, and inspection of any poured in place structures are the responsibility of the contractor.

Details and size of hole openings in precast structures to be approved by contractor based on shop drawings supplied by Con Cast Pipe.

Final quotation will be based on siting, structural design, and shop drawing approval.

Delivery date of the quoted precast units will be subject to receipt of purchase order and approved shop drawings.

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 its final location.

Quoted pricing for FREIGHT is a NET price. Trade discounts do not apply to Freight Costs.

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.

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.

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.

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.

Add \$75.70 for each set of threaded dowels and inserts, if required, for the construction of any cast-in-place structures.

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.

Shop drawings for specialty precast items will take 2-3 weeks from receipt of order.

Con Cast Pipe does not warranty products specified with ConShield admixture.

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.

Unit prices are firm but sizes, quantities, and classifications are the responsibility of the contractor to verify for accuracy.

Prices are quoted excluding sales tax.



**CON CAST PIPE**

ISO 9001:2008

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