



PIPE, MANHOLE & PRECAST SOLUTIONS



PIPE



MANHOLE



PRECAST



BRITISH COLUMBIA

ALBERTA

SASKATCHEWAN

MANITOBA

Reinforced Concrete Pipe Solutions

Bell and Spigot

Diameter, mm (in)	Length/Piece, m	Weight/m, kg (lb)	Class Available
450 (18)	2.5	295 (650)	III, IV, V
600 (24)	2.5	420 (920)	III, IV, V
675 (27)	2.5	520 (1140)	III, IV, V
750 (30)	2.5	630 (1390)	III, IV, V
900 (36)	2.5	800 (1760)	III, IV, V

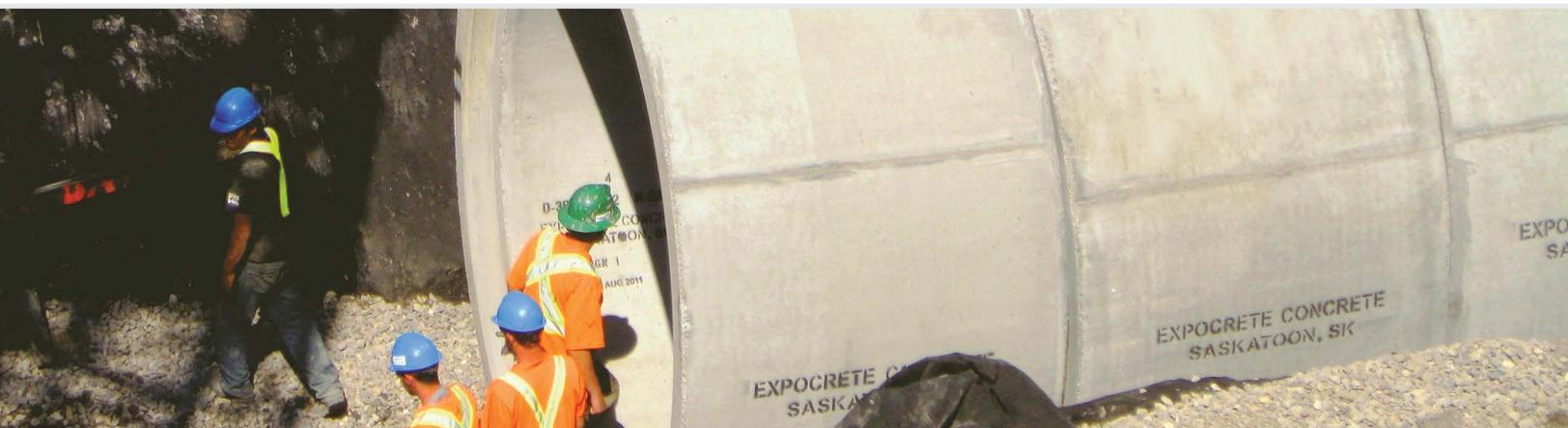
Custom D-Load Pipe Also Available

Straight Wall

Diameter, mm (in)	Length/Piece, m	Weight/m, kg (lb)	Class Available
1050 (42)	2.5	1110 (2446)	III, IV, V
1200 (48)	2.5	1293 (2850)	III, IV, V
1350 (54)	2.5	1592 (3510)	III, IV, V
1500 (60)	2.5	2094 (4607)	III, IV, V
1800 (72)	2.5	2804 (6169)	III, IV, V
2100 (84)	2.44	3902 (8585)	III, IV, V
2400 (96)	2.5	4610 (10142)	III, IV, V
3000 (120)	1.83	7070 (15585)	III, IV, V

- Diameter given in table is inner diameter
- Pipe is non-stock, call for availability
- Pipe Tee's, Bends, Radius and Custom D-Load Pipe can be made available upon request

Custom D-Load Pipe Also Available



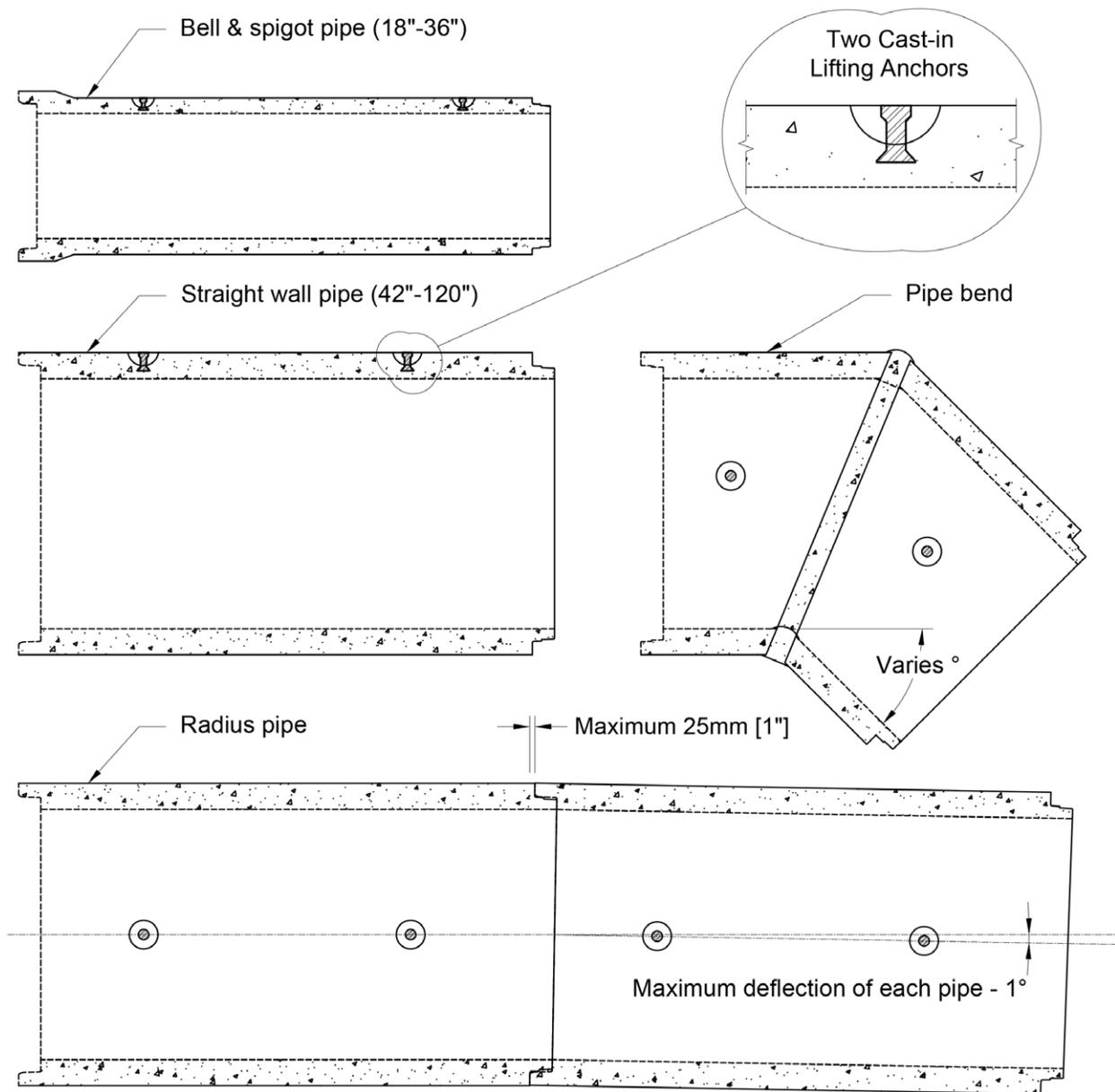


Figure 1 - Reinforced Concrete Pipe

- All Reinforced Concrete Pipe adheres to ASTM C76 and/or C655
- Expocrete has the ability to perform 3 Edge Bearing tests to ensure design requirements are achieved in accordance with ASTM C76 and/or C655
- Diameter given in table is the internal dimension. All our Pipe is "B-Wall" - therefore wall thickness is calculated using the following:

$$\text{Wall Thickness} = (\text{I.D. (inches)} / 12 + 1)$$

Example: 48" Pipe $\rightarrow 48 / 12 + 1 = 5"$ Wall Thickness, Therefore O.D. is $48" + 5" + 5" = 58"$

Manhole Solutions

1050mm (42") Manhole

1050mm (42") Manhole Material	Diameter, mm (in)	Height, m (ft)	Weight, kg (lb)
42" Cone Top	1050 (42)	0.914 (3')	820 (1804)
42" Top Slab	1050 (42)	0.310 (1')	777 (1710)
42" x 4' Barrel	1050 (42)	1.220 (4')	1260 (2728)
42" x 3' Barrel	1050 (42)	0.914 (3')	930 (2046)
42" x 2' Barrel	1050 (42)	0.610 (2')	620 (1364)
42" x 1' Barrel	1050 (42)	0.310 (1')	310 (682)
42" x 2' 6" Monobase	1050 (42)	0.760 (2'-6")	1380 (3036)
42" x 1' 6" Prebenched Base (non-stock)	1050 (42)	0.460 (1'-6")	1012 (2230)
42" Bottom Slab	1050 (42)	0.203 (8")	640 (1410)

1200mm (48") Manhole

1200mm (48") Manhole Material	Diameter, mm (in)	Height, m (ft)	Weight, kg (lb)
48" Cone Top	1200 (48)	0.914 (3')	1012 (2230)
48" Top Slab	1200 (48)	0.310 (1')	717 (1580)
48" x 4' Barrel c/w Safety Platform	1200 (48)	1.220 (4')	1579 (3480)
48" x 4' Barrel c/w Steps Both Sides	1200 (48)	1.220 (4')	1579 (3480)
48" x 4' Barrel	1200 (48)	1.220 (4')	579 (3480)
48" x 3' Barrel	1200 (48)	0.914 (3')	1184 (2610)
48" x 2' Barrel	1200 (48)	0.610 (2')	789 (1740)
48" x 1' 4" Barrel	1200 (48)	0.410 (1'-4")	526 (1160)
48" x 1' Barrel	1200 (48)	0.310 (1')	395 (870)
48" x 1' Barrel flat top	1200 (48)	0.310 (1')	390 (860)
48" x 2' 6" Monobase	1200 (48)	0.760 (2'-6")	1610 (3550)
48" x 1' 6" Prebenched Base (non-stock)	1200 (48)	0.460 (1'-6")	1656 (3650)
48" Gasket	1200 (48)		

- The above sizes are stock sizes - custom manufactured sizes are available
- Manhole material is manufactured to ASTM C478

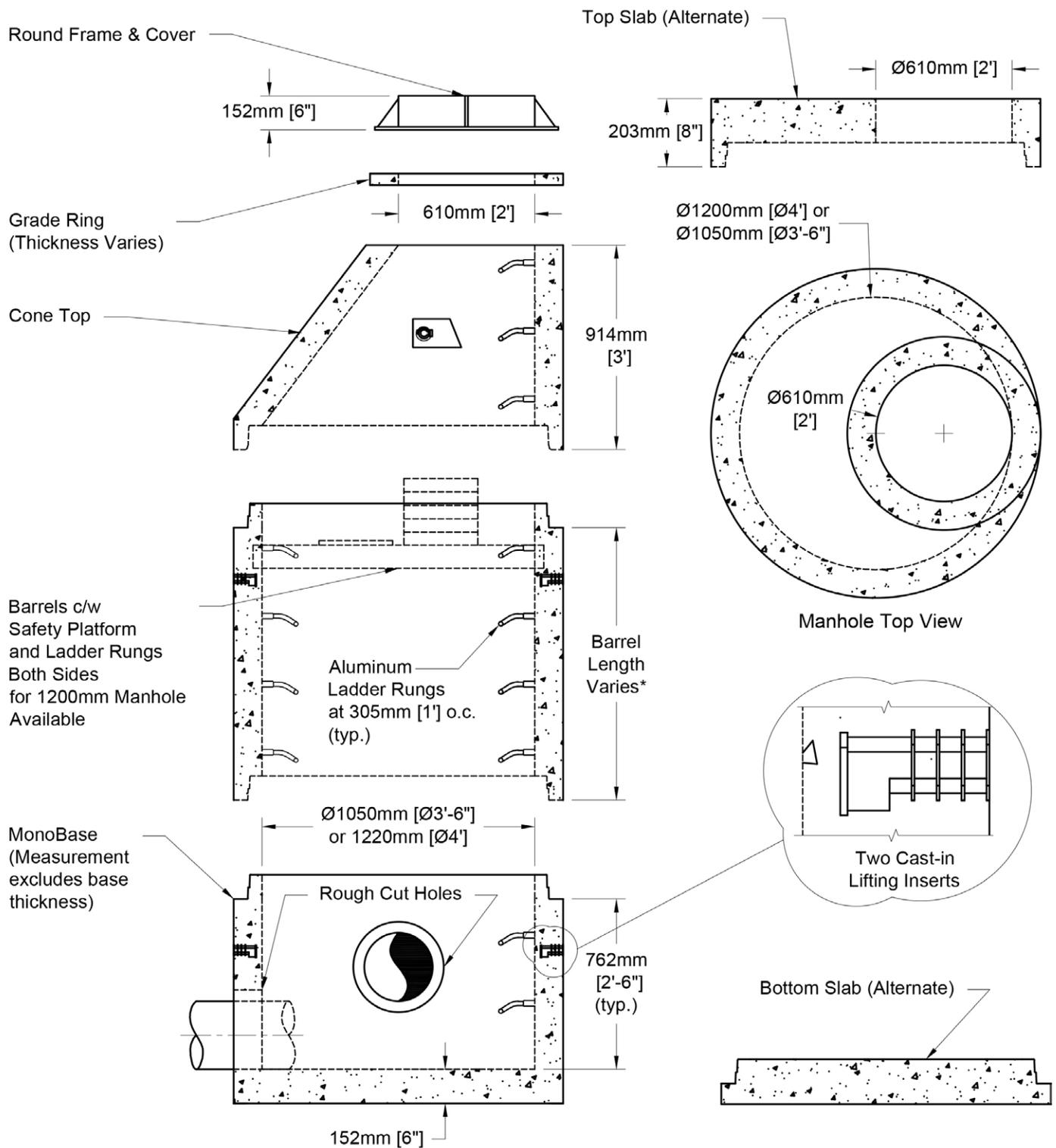


Figure 2 - Typical Standard Manhole Assembly

- 42" Monobases are stock with no hole, 1 hole, 3 @ 90°, 2 @ 90°, 2 @ 180°
- Rough cut holes are available in different sizes and locations, upon request. Holes are typically cut to Pipe O.D. + 4 inches to allow for easy install. Call for custom material.
- Prebenching available for 1050mm and 1200mm manholes with cast-in gaskets.
- When determining height requirements, monobases measure vertically from inside bottom to outside joint.

Manhole Solutions

Diameter, mm (in)	Description	Height, m (ft)	Weight, kg (lb)
1500 (60)	Top Slab / Transition Slab	0.425 (1'-4 3/4") 1	773 (3900)
	Barrel-per vertical ft	0.310 (1'-0")	600 (1320)
	Bottom Slab	0.310 (1'-0")	1909 (4200)
	Mono Base	0.914 (3'-0")	3636 (8000)
1800 (72)	Top Slab / Transition Slab	0.432 (1'-5")	2636 (5800)
	Barrel-per vertical ft	0.310 (1'-0")	818 (1800)
	Bottom Slab	0.310 (1'-0")	2682 (5900)
	Mono Base	0.914 (3'-0")	5200 (11440)
2100 (84)	Top Slab / Transition Slab	0.439 (1'-5 1/4")	3591 (7900)
	Barrel-per vertical ft	0.310 (1'-0")	1091 (2400)
	Bottom Slab	0.310 (1'-0")	3591 (7900)
	Mono Base	0.914 (3'-0")	7000 (15400)
2400 (96)	Top Slab / Transition Slab	0.447 (1'-5 1/2")	4727 (10400)
	Barrel-per vertical ft	0.310 (1'-0")	1409 (3100)
	Bottom Slab	0.310 (1'-0")	4636 (10200)
	Mono Base	0.914 (3'-0")	9045 (19900)
3000 (120)	Top Slab / Transition Slab	0.462 (1'-6")	7636 (16800)
	Barrel-per vertical ft	0.310 (1'-0")	2155 (4740)
	Bottom Slab	0.310 (1'-0")	7318 (16100)

- 1500Ø through 3000Ø material are not stock products, but are custom ordered
- Custom Monobase in a variety of heights are available upon request
- Manhole Material is manufactured to ASTM C478



Manhole Material

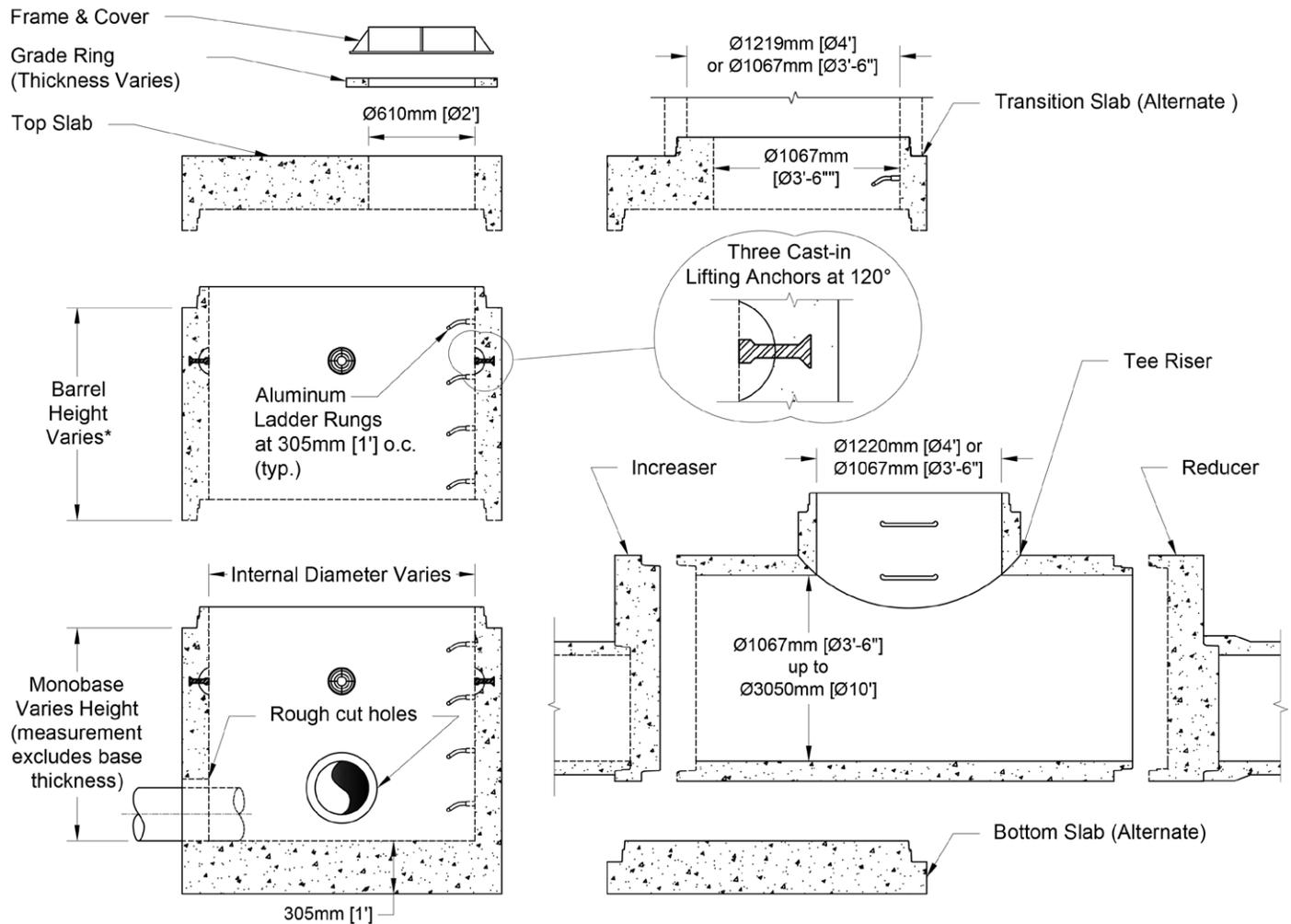


Figure 3 - Typical Oversize Manhole Assembly

- Expocrete will match our products to your design requirements.
- Custom inserts available (Hatches, Safety Platforms, etc.)
- Rough Cut Holes are available in different sizes and locations, upon request. Holes are typically cut to Pipe O.D. + 4 inches to allow for easy install - contact Expocrete for custom material.
- All 1500Ø through 3000Ø material is custom manufactured - contact Expocrete for availability.



Catch Basin Solutions

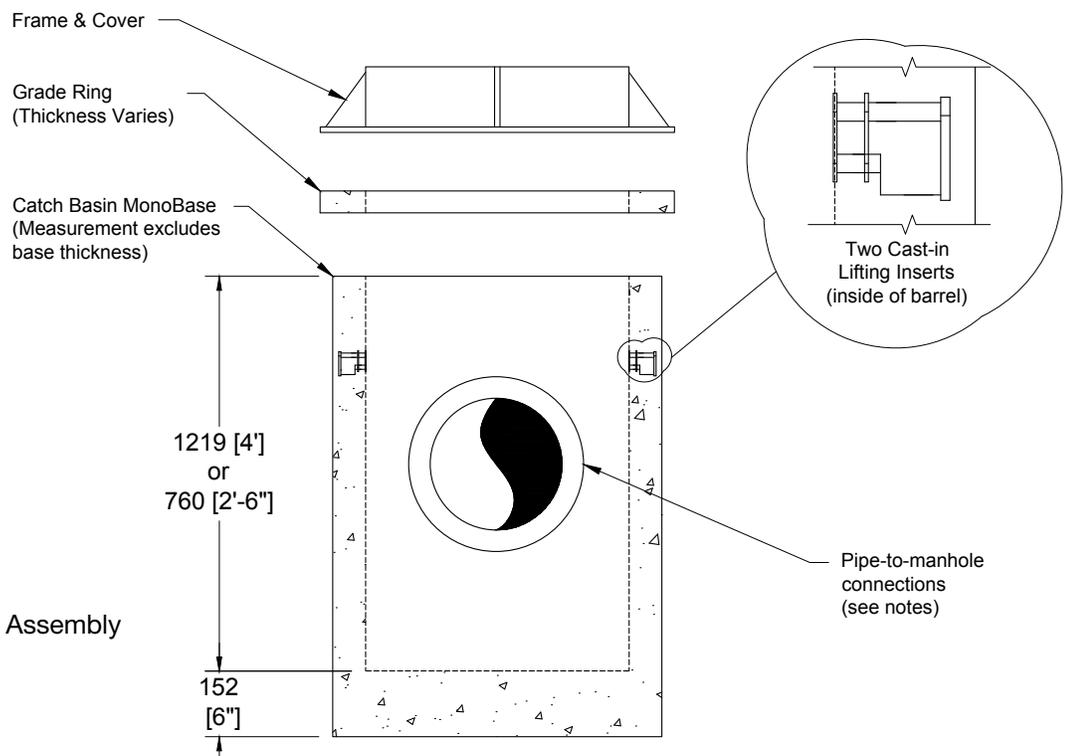
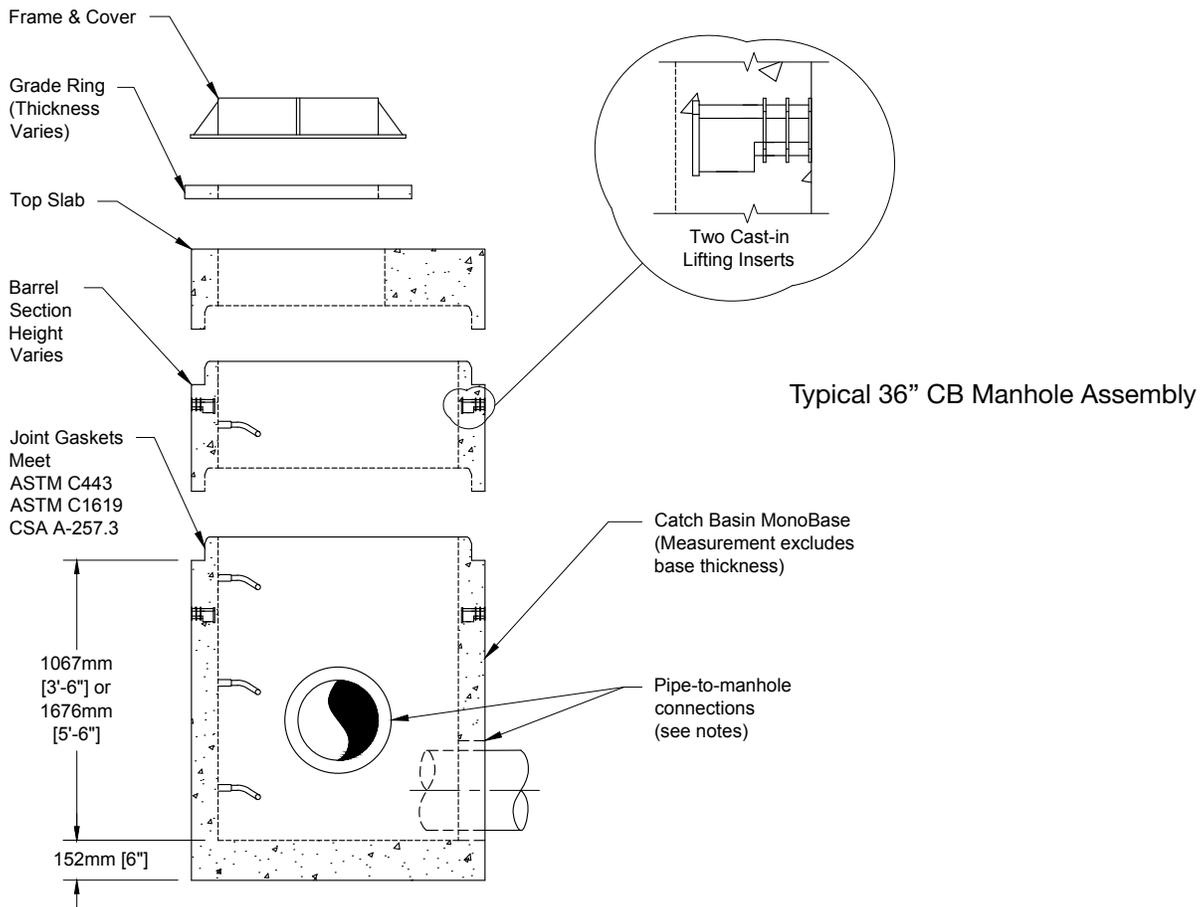
Catch Basin Material

Description	Diameter, mm (in)	Height, m (ft)	Weight, kg (lb)
24" x 4' CB Monobase c/w 12" Stub	600 (24)	1.22 (4')	680 (1500)
24" x 4' CB Monobase c/w 10" Stub	600 (24)	1.22 (4')	680 (1500)
24" x 4' CB Monobase c/w Holes for pipe to manhole connectors (boots)	600 (24)	1.22 (4')	680 (1500)
24" x 4' CB Monobase-No Hole	600 (24)	1.22 (4')	680 (1500)
24" x 2' 6" CB Monobase-No Hole	600 (24)	0.76 (2'-6")	499 (1100)
24" x 4' CB Barrel	600 (24)	1.22 (4')	487 (1074)
24" x 2' 6" CB Barrel	600 (24)	0.76 (2'-6")	304 (670)

Description	Diameter, mm (in)	Height, m (ft)	Weight, kg (lb)
36" Top Slab	900 (36)	0.31 (1')	415 (915)
36" x 1' Catch Basin Barrel	900 (36)	0.31 (1')	259 (570)
36" x 4' Catch Basin Barrel	900 (36)	1.22 (4')	1016 (2240)
36" x 6' Catch Basin Barrel	900 (36)	1.68 (5.51')	1530 (3381)
36" x 3' 6" Catch Basin Monobase	900 (36)	1.07 (3'-6")	1250 (2755)
36" x 5' 6" Catch Basin Monobase	900 (36)	1.68 (5.51')	1783 (3930)
36" SuperSeal Gasket	900 (36)		

- Catch Basin Material is manufactured to ASTM C478

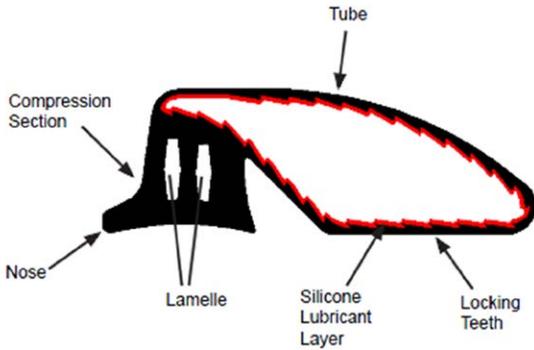




- 24" CB Monobases are available with holes, no holes and 10/12" Stubs
- Cored holes or formed holes are required for Pipe-to-Manhole Connectors (Boots)
- 24" CB Monobase holes are typically located to give a 12" sump
- Contact Expocrete for custom requirements

Gasket & Sealant Information

Tylox SuperSeal Gaskets are available for 18"-120" Pipe & Manhole Material (Meets ASTM C-443 Specifications)



Tylox O-Ring Gaskets are available for 72" and 120" Pipe & Manhole Material (Meets ASTM C-361 and CSA-A257 Specifications)



Flexible Cast-in Gaskets ranging from 4 1/4" to 102" (Meet ASTM C-923, C-1478, C-1644 Specifications)



Butyl Joint Sealant is available for Manhole Material (Meets ASTM C-990 Specifications)



Grout-in Connectors (Water-Stops) ranging from 6" to 102" (Meet ASTM C-923, C-1478, C-1244 Specifications)



Pipe to Manhole Connectors (Boots) for Cored & Formed Holes

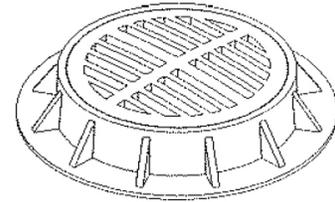
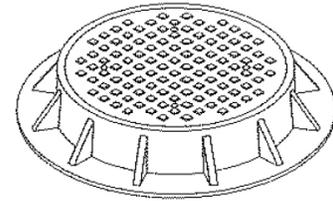
Size	Cored Hole Required
4" Pipe-to-manhole Connector	4.960 to 5.010
6" Pipe-to-manhole Connector	6.995 to 7.055
8" Pipe-to-manhole Connector	10.055 to 10.145
10" Pipe-to-manhole Connector	12.040 to 12.130
12" Pipe-to-manhole Connector	14.025 to 14.115
15" Pipe-to-manhole Connector	17.975 to 18.070



Miscellaneous Manhole Materials

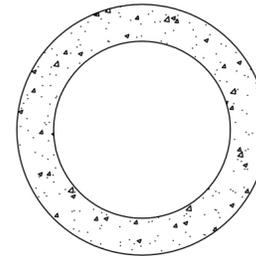
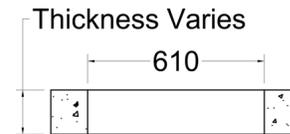
Frame & Cover

Cast Iron Frame & Cover	Weight
TF-105 Frame c/w Solid Cover	142kg (313lbs)
TF-105 Frame c/w Slotted Cover	127kg (280lbs)
Note: Frame cover has an overall height of 6"	

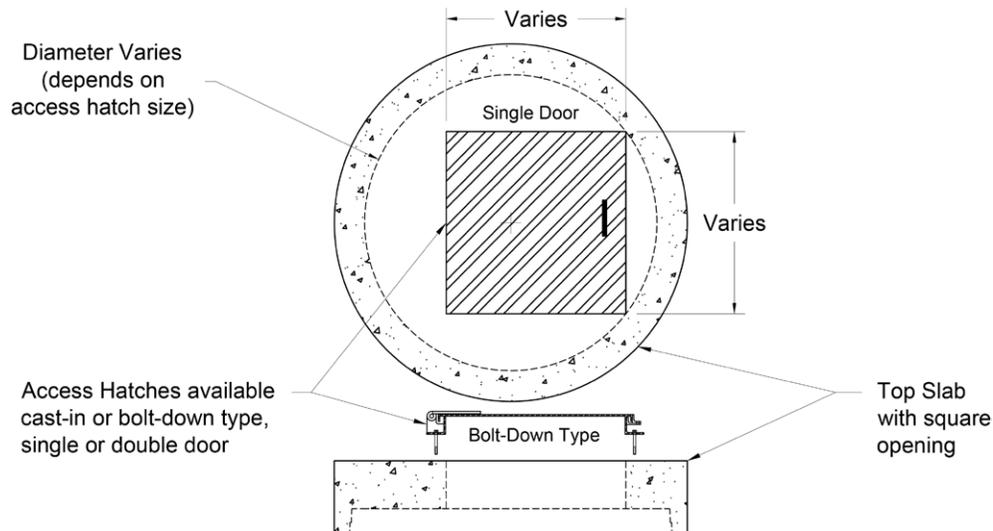


Grade Rings

	Thickness	Weight
2" Grade Ring	50mm (2")	23kg (50lb)
3" Grade Ring	76mm (3")	34kg (76lb)
4" Grade Ring	100mm (4")	45kg (100lb)
6" Grade Ring	150mm (6")	68kg (150lb)
8" Grade Ring	200mm (8")	90kg (200lb)



Access Hatches



Expocrete Precast Products

Tanks



Tank shown is typical - capacity will vary dependent on requirements.



I.D. 30" Extensions

Interceptors	Description
Type II	Interceptor sump, two compartment c/w angle iron
Type I	Interceptor pit, two compartment c/w angle iron (small)

Septic Tanks	Description
500B	Low profile two compartment pump-out, box type Low profile two compartment pump-out, box type
850B	Low profile two compartment pump-out, box type Low profile two compartment pump-out, box type
1000B	Low profile two compartment pump-out, box type Low profile two compartment pump-out, box type

Holding Tanks & Cistern	Description
625 HLP	Low profile box type, one compartment
1000 HLP	Low profile box type, one compartment
1300 HLP	Low profile box type, one compartment

I.D. 30" Extensions	Available in 1' increments up to 6'
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Delivery Solutions Across Saskatchewan - Contact Expocrete for details and availability.



Expocrete Precast Products



Parking Curb (8'L x 7"H x 8"W) 147kg (325lb)



Z-Barrier (8'L x 16"H x 16"W) 862kg (1900lb)



Low Profile Parking Curb (7'L x 4"H x 8"W) 114kg (237lb)



Jersey Barrier (8'Lx32"Hx24"W) 1400kg (3100lb)



Y-Barriers:

- (8'H x 4'L x 4'W) 3300kg (7260lb)
- (10'H x 4'L x 4'W) 3660kg (8050lb)
- (12'H x 4'L x 5'W) 5256kg (11563lb)
- (14'H x 4'L x 5'W) 5,480kg (12,080lb)



Lego Block Retaining Wall

- Standard and Flat (29 5/8"H x 59 5/8"L x 29 5/8"W) - 2,100kg (4,600lb)
- Half Standard and Half Flat (15"H x 59 5/8"L x 29 5/8"W) - 1,050kg (2,300lb)

Expocrete Precast Products



Light Pole Bases & Traffic Pole Bases



Boat Launch Slabs



Precast Wall Panels



Box Sections

Additional Stock & Custom Precast Products

- Splash Pads
- Propane Tank Base
- Hydrant Base
- Utility Vaults
- Utilidors
- Bearing Pads
- Median Barriers

For the most up-to-date product offering and specifications, please visit our website, expocrete.com or contact your key account manager.

Box Sections

Expocrete can manufacture Box Sections in a variety of sizes and configurations with both single or multi-cell sections. Typical applications include Pump Stations, Manholes, Tanks and Culverts.

Speak with your local representative for more information.





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Expocrete[®] an Oldcastle[®] company

Together we create, inspire and deliver innovative sustainable concrete solutions to bring our Customers vision to reality.